

AMENDMENT #2 BOARD OF SUPERVISORS (BOS) AGREEMENT #12-104/DEPARTMENT OF TRANSPORTATION (DOT) AGREEMENT #120014 FOR ENGINEERING CONSULTANT SERVICES FOR THE PHILO-GREENWOOD ROAD BRIDGE OVER THE NAVARRO RIVER, CR 132, M.P. 17.3

This Amendment to BOS Agreement #12-104/DOT Agreement #120014 is entered into this 27th day of August, 2019, by and between the COUNTY OF MENDOCINO, a political subdivision of the State of California, hereinafter referred to as "COUNTY" and Quincy Engineering, Inc., hereinafter referred to as "CONSULTANT."

WHEREAS, BOS Agreement #12-104/DOT Agreement #120014 was entered into on August 14, 2012; and

WHEREAS, CONSULTANT has been hired by COUNTY to provide engineering consultant services for the replacement of the bridge over the Navarro River on Philo-Greenwood Road, CR 132, M.P. 17.33; and

WHEREAS, upon execution of this document by the Chair of the Mendocino County Board of Supervisors and CONSULTANT, this document will become part of the aforementioned contract and shall be incorporated therein; and

WHEREAS, Caltrans is requiring an Extended Phase 1 (XP1) study for archeological resources at the bridge site; and

WHEREAS, additional studies are needed to address the presence of Foothill Yellow-legged Frogs and bats roosting in the existing structure, as required by California Fish & Wildlife; and

WHEREAS, changes to the design of the additional arch span and tieback anchors for the arch buttress require additional resources, as does an access road to the river for construction; and

WHEREAS, CONSULTANT has prepared the attached "Scope of Work – Amendment 2 – March 20, 2019", attached hereto as Exhibit A and incorporated herein by this reference, including additional or expanded tasks as compared to the original scope of work; and

WHEREAS, CONSULTANT has agreed to complete the additional or expanded tasks as detailed in the Amendment 2 Scope of Work for a total additional amount of \$418,580; and

WHEREAS, it is mutually agreed between COUNTY and CONSULTANT that the total not-to-exceed compensation payable to CONSULTANT, including the total amount for

salaries and expenses included in the original agreement and Amendments Nos. 1 and 2, shall be increased to a not-to-exceed amount of \$1,464,280; and

WHEREAS, it is the desire of the CONSULTANT and the COUNTY to extend the termination date set out in Amendment 1 to the original BOS Agreement #12-104/DOT Agreement #120014 from December 31, 2019 to December 31, 2023.

NOW, THEREFORE, we agree as follows:

1. The original scope of services, Attachment D to BOS Agreement #12-104, is hereby amended to include the additional and expanded tasks as detailed in "Scope of Work – Amendment 2 – March 20, 2019", attached hereto as Exhibit A.
2. The total not-to-exceed compensation payable to CONSULTANT, including the total amount of salaries and expenses included in the original agreement and Amendment No. 1 and 2, shall be increased by \$418,540 to a not-to-exceed amount of \$1,464,280.
3. The expiration date of BOS Agreement #12-104/DOT Agreement #120014 is extended to December 31, 2023.

All other terms and conditions of BOS Agreement #12-104/DOT Agreement #120014, as amended by Amendment No. 1, shall remain in full force and effect.

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IN WITNESS WHEREOF, the parties hereto have executed this Agreement as of the day and year first above written.

DEPARTMENT FISCAL REVIEW: Transportation

Howard N. Dashiell, Director DATE 8/6/19

Budgeted: ☒ Yes ☐ No

Budget Unit: 3041

Line Item: 2184

Grant: ☒ Yes ☐ No

Grant No.: FHWA E-76; BRLO 5910(106)

COUNTY OF MENDOCINO

By: Carre Brown, Chair AUG 29 2019
BOARD OF SUPERVISORS

ATTEST:

CARMEL J. ANGELO, Clerk of said Board

By: Carmel J. Angelo, Deputy AUG 29 2019

I hereby certify that according to the provisions of Government Code section 25103, delivery of this document has been made.

CARMEL J. ANGELO, Clerk of said Board

By: Carmel J. Angelo, Deputy AUG 29 2019

INSURANCE REVIEW:

By: Carmel J. Angelo, Risk Management

EXECUTIVE OFFICE/FISCAL REVIEW:

APPROVAL RECOMMENDED

By: Deputy CEO

CONTRACTOR/COMPANY NAME:

By: Quincy Engineering, Inc.

NAME AND ADDRESS OF CONTRACTOR:

Quincy Engineering, Inc.

11017 Cobblersrock Drive, Suite 100

Rancho Cordova, CA 95670

By signing above, signatory warrants and represents that he/she executed this Agreement in his/her authorized capacity and that by his/her signature on this Agreement, he/she or the entity upon behalf of which he/she acted, executed this Agreement

COUNTY COUNSEL REVIEW:

APPROVED AS TO FORM:

KATHARINE L. ELLIOTT,
County Counsel

By: Katharine L. Elliott, Deputy

Signatory Authority: \$0-25,000 Department; \$25,001-50,000 Purchasing Agent; \$50,001+ Board of Supervisors

Exception to Bid Process Required/Completed ☐

Mendocino County Business License: Valid ☐

Exempt Pursuant to MCC Section: _____

Scope of Work – Amendment 2 - March 20, 2019

Scope Summary for Amendment 2 for the Philo-Greenwood Road at Navarro River Bridge Widening and Approach Structure Replacement Project

During the project development process for this project, it has been determined by the County, Caltrans and the QEI team that expanded and/or additional tasks are needed to complete the project development process. At multiple public outreach meetings, overwhelming public support for widening the existing arch and replacing the approach structure was received. The County and Caltrans has approved this as the preferred build alternative. As the project development team continued the development process toward this goal, through consultations with resource agencies and with the additional information obtained in the preliminary studies, supplemental products and services were identified as necessary to achieve the construction of this project. The following expanded and/or additional tasks will be performed by the Quincy Engineering Team for the design of Navarro River arch bridge widening and rehabilitation, and approach bridge replacement:

- Prepare expanded and supplemental environmental technical studies for biological and cultural resource impact assessment, and state lands memo.
- Expanded the site survey and include tree identification for construction access roadway.
- Update the Type Selection and Project Report for an additional approach span on the west end of the widened arch bridge.
- Develop supplemental geotechnical information including rock anchors/tie-backs for arch bridge buttress foundation
- Expand the:
 - Detailed plans to include a west approach span and tie-back anchors for the arch buttresses,
 - Develop the specifications in 2018 format
 - Include the west approach span and arch bridge buttress tie-back anchors, in the structural calculations, cost estimates, and independent check pursuant to Caltrans methods;
- Continue the coordination of temporary and permanent relocation of utilities;
- Continue Project Management including the close coordination with the Mendocino County's Project Manager.

The tasks are defined and numbered in this discussion in accordance with the original scope of work in the existing contract. Tasks without descriptions in this amendment revert to the original tasks. It is anticipated that the project will complete the environmental clearance phase in March 2020, the PS&E and RW phase in December 2020 and begin construction in the spring of 2021

Quincy Engineering's Scope Summary for this project is as follows:

PHASE 1 - PRELIMINARY ENGINEERING

EXPANDED TASK 1 - PROJECT MANAGEMENT

Expanded Task 1.1 - Project Management

Quincy Engineering, Inc. (QEI) will provide Project Management tasks which includes coordination with the County, Team management, product development tracking, Team and stakeholder communication, and project progress and budget reporting. QEI will develop, track, and lead the following project management tasks:

- Critical Path Schedule;
- Quarterly in person PDT meetings;
- Monthly PDT teleconference meetings;
- Meeting Agendas, Minutes, and Action Item Summaries;
- Monthly Invoices, Progress Reports, and Look-Ahead Summaries; and
- HBP paperwork assistance/facilitation as required.

Task 1 Products:

- Schedule Updates (12)
- Project Meetings (18)
- In-Person Project Meetings (6)

Expanded Task 1.2 - Project Review Meetings

QEI will lead project meetings:

- Project team meetings will be conducted to review project progress and next steps. Subconsultants will participate in Project Team meetings as needed, either by attending in person or by teleconference when appropriate.
- Public Meetings – Complete.

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EXPANDED TASK 2 - TOPOGRAPHIC SURVEY, STREAM CROSS-SECTIONS, & RIGHT-OF-WAY ENGINEERING

Additional Task - SHN will be performing additional survey services for the construction access road and trees to be impacted. Resource agencies have required the construction access road be defined to minimize the impacts to mature trees. SHN will:

- Recover and verify existing survey control,
- Conduct site surveys to acquire the field information necessary to assess the construction access road (options 2, 3 & 4) impacts and locate each tree, greater than 4" in diameter at breast height, within the access road area. Survey the rock outcropping and the east buttress area using reflectorless methods. This information will be added to the site map and provided to the QEI team and County in AutoCAD Civil 3D format, version 2014.
- Provide the County with a hard copy and digital drawing file compiled in AutoCAD Civil 3D .dwg file format of the project base map. Included in this deliverable will be the Digital Terrain Model of the project surface and field survey point's files.

Task 2 Products:

- Topographic Survey & Mapping of the construction access road areas and rock outcropping
- Updated AutoCAD Mapping File

EXPANDED TASK 3 - PRELIMINARY ENGINEERING

Expanded Task 3.2 – Preliminary Roadway & Detour Plans

- An updated "Engineers Opinion of Probable Construction Cost" will be prepared and will include appropriate contingency factors for this level of design.

Expanded Task 3.3 - Advanced Planning Studies & Type Selection Report

The Type Selection Report will be updated to include:

- Approach span at the west end of the arch bridge. (The geotechnical and site conditions require that an approach span be added at the west end of the arch structure.)

Task 3 Products:

- Preliminary Roadway, Bridge & Project Cost Estimates
- Type Selection Report update

TASK 4 – HYDROLOGY & HYDRAULICS

Task 4 Products:

EXPANDED TASK 5 - GEOTECHNICAL INVESTIGATIONS & FOUNDATION REPORT

Crawford & Associates, Inc. will perform the Geotechnical Investigations. Crawford & Associates, Inc. will:

Expanded Task 5.4 – Foundation Report

Crawford & Associates, Inc. will provide expanded and additional items:

- Attendance at site review with the design team to assess foundation conditions and design/construction issues at the arch support locations.
- Additional geotechnical evaluation/analysis and comparison of various approach structure foundation types.
- Additional geotechnical evaluation/analysis for rock-foundation-structure interaction of spread footing foundations and stressed tie-downs or rock anchors at arch supports.
- Additional effort to incorporate recent changes to Caltrans technical standards/guidelines with respect to foundation design and report preparation, including revisions to the Log of Test Borings format.
- Additional project team consultation/conferences to address foundation design/construction, particularly with respect to the arch support foundations.

Task 5 Products:

- Updated Bridge Foundation Report (Draft & Final)
- Updated Log of Test Borings Drawing
- On-site meeting

EXPANDED TASK 6 - UTILITY COORDINATION

QEI will:

Task 6 Products:

- Update Utility Conflict Maps
- Update Utility A Letters



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- Continue communication and coordination with the utility companies.
- Update utility conflict maps to show existing utility locations and locations where there are potential conflicts with construction.
- Update the A letters according to Caltrans and County procedures.

EXPANDED TASK 7 - ENVIRONMENTAL CLEARANCE

Stantec (formerly North State Resources) will be preparing the environmental documents and obtaining regulatory agency permits for this project. Stantec will:

Expanded Task 7.1 – Project Management (Modified Scope)

Stantec's Project Manager will continue to participate in conference calls with Quincy and the County to discuss the project and will prepare additional monthly invoices. One additional project team meeting in Mendocino County is also included.

Expanded Task 7.3 – Project Description, Purpose and Need (Modified Scope)

Stantec will update the project description, and purpose and need to reflect the latest preferred project.

Expanded Task 7.4 –Prepare Complete Technical Studies for Project

Sub-task 7.4.1. – Natural Environment Study Report (Modified Scope)

Stantec will update the NES report to reflect the latest preferred project and to conform to the current Caltrans NES template that was updated on May 3, 2018. Stantec assumes that field work previously conducted for the project in 2013 is dated, thus Stantec will conduct a new site visit to verify if habitat conditions within the Biological Study Area (BSA) have changed. The updated information will be included in the NES.

Sub-task 7.4.4. – Biological Assessment/Essential Fish Habitat Assessment (Modified Scope)

Stantec will update the BA/Essential Fish Habitat Assessment (BA/EFHA) report to reflect the latest preferred project and to conform to the current Caltrans BA/EFHA template that was updated on March 20, 2018. If requested by the National Marine Fisheries Service and/or the CDFW following review of the draft BA/EFHA, Stantec will attend a site visit along with County, Caltrans, and Quincy staff.

Sub-task 7.4.5. – Wetland Delineation Report (Modified Scope)

Stantec will update the wetland delineation report to reflect the latest preferred project and to conform to the current Corps delineation requirements. Stantec assumes that field work previously conducted for the project in 2013 is dated and will conduct a new site visit to ensure that jurisdictional water conditions within the BSA have not changed. The updated information will be included in a revised wetland delineation, if necessary.

Sub-task 7.4.11. – Bat Survey (New Task)

A Stantec biologist will conduct a daytime visual survey to determine if there are any places where bats may roost within the BSA. If practicable, all potential roost sites will be visually inspected to determine if bats are present, and if so, attempt to identify the species. The visual inspection will include a thorough search for urine staining and/or guano deposits on the bridge. If a visual inspection is not practicable due to the physical location of the potential roost and/or configuration of the bridge, a focused survey will be conducted during dusk hours (e.g., one hour before sunset - two hours after sunset) to look for bats entering or leaving the site. During this survey, an acoustic bat detector may be used to identify bats by detecting and recording their ultrasonic echolocation calls and, if bats are present, assist in the identification of species present within the BSA. The results of the survey will be summarized in a technical memorandum and incorporated into the NES.

Sub-task 7.4.12 – Tree Survey (New Task)

Stantec will conduct a single-visit survey of the project BSA to identify and map tree species using preliminary tree mapping data provided by Quincy's licensed surveyor (SHN Consulting Engineers and Geologists). Stantec will identify the species and estimate general tree diameters at breast height and overall tree heights, assess general tree health and vigor, and determine the ecological quality of treed habitat (as evidenced by wildlife use, grove size, and connectivity to other habitats). Any trees missed by the licensed surveyor will be mapped using GPS and character data will be collected as previously described. Map(s) will be created using GIS software that

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will depict tree or grove locations, as applicable, relative to the BSA. Stantec will prepare a qualitative characterization report describing methodology used for the inventory, the species, size, health and vigor, general aesthetic quality, ecological quality, proximity to proposed project activities, recommendations for tree preservation within the BSA, and the local significance and functional role of trees located within the BSA. The tree survey results will be incorporated into the NES.

Sub-task 7.4.13. – Foothill Yellow-legged Frog Section 2081 Incidental Take Permit Application (New Task)

Assuming the foothill yellow-legged frog is designated as a state listed species by CDFW, Stantec will prepare a 2018 Incidental Take Permit (ITP) application on behalf of the County. Per prior discussions with the County, we will forego protocol surveys and instead assume presence of foothill yellow-legged frog within the Navarro River and project BSA. Initially, Stantec will arrange a meeting with the County, Quincy, and CDFW staff at the project site to review the proposed project, assess suitability of habitat for the species within the BSA and potential for impacts, and discuss potential avoidance and minimization measures and compensatory mitigation options. Following the site visit, Stantec will prepare a draft 2081 ITP application that includes the following: application information; description of species to be covered; location of proposed activities; analysis of whether and to what extent the project could result in take of the species to be covered; analysis of the impacts of the proposed undertaking; analysis for the potential to jeopardize the continued existence of the species; proposed avoidance and minimization measures; proposed plan to monitor compliance; funding; certification; and references. An internal draft ITP application will be provided to Quincy and the County for review and comment. A revised draft ITP application that incorporates comments provided on the internal draft will be sent to the County for submittal to CDFW for its review. Following receipt of CDFW comments, a final ITP application will be prepared and submitted. Stantec assumes that up to three (3) two-hour conference calls with the County, Quincy, and CDFW may be needed during the ITP review process. Stantec assumes that the County will be responsible for payment of any application fees to CDFW.

Sub-task 7.4.14. – Cultural Extended Phase 1 (XP1) Study

ALTA will be conducting an Extended Phase 1 Archaeology Study due to the finding of the Archaeology Study Report. The project has a lot of documented history of Native American occupation. This study is needed to determine the extent of archaeological resources that may be expected to be encountered during construction. This section briefly addresses the work requirements for completing an Extended Phase I (XPI) study. At a minimum, the scope of work includes three tasks: (1) authoring a proposal to conduct XPI study, (2) field work, and (3) preparation of a letter report.

Task (1): Proposal to conduct Extended Phase I Study

ALTA will author a formal proposal to conduct an XPI study, which will be reviewed and approved by Caltrans District 1. This document will outline the proposed methods and procedures for the XPI study. The goal of the XPI study is to determine the presence or absence of buried cultural resources within the APE, and to use this information to make informed management recommendations. This proposal will follow the guidelines provided in Exhibit 5.2: Extended Phase I Proposal Formal and Content Guide in Volume 2 of the Caltrans Standard Environmental Reference. An Encroachment Permit will be obtained from Caltrans to perform the XPI study.

Task (2): Fieldwork

The project area is considered extremely sensitive for buried archaeological resources. An XPI field study will occur at the location of bridge footings to determine the presence or absence of archaeological materials. Subsurface investigations will feature mechanical excavation with a power auger. Auger holes will be 12" wide and be excavated to a minimum depth of 60". Excavations will be directed by a qualified professional archaeologist who will be on-site during all ground disturbing activities. Soils will be removed in shallow lifts, approximately 6-inches, to review sediments and expose soil stratigraphy. Soil stratigraphy will be delineated stratigraphically and described in field logs. Excavated sediments will be temporarily stockpiled adjacent the excavation area. A sample of sediments taken from various depths will be dry screen through ¼-inch hardware cloth in order to determine the presence or absence of cultural materials. If cultural materials are identified excavations will immediately halt. Cultural materials will be described in a field log, photographed, and their location noted. At the completion of fieldwork, all excavated sediments and any cultural materials will be

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returned to the hole(s) where they will be reburied. Excavation locations will be recorded with a Trimble Geo7x Global Positioning System capable of submeter accuracy.

Task (3): Extended Phase I Report

ALTA will author and XPI report, which will summarize the intent, methods, scope and major findings resulting from the study. The report will follow the guidelines provided in Exhibit 5.3: Extended Phase I Report Formal and Content Guide in Volume 2 of the Caltrans Standard Environmental Reference. The XPI report will be reviewed and approved by Caltrans District 3.

Deliverables

The following deliverables will be provided: One digital copy of the draft report will be submitted to QEI for submittal to the County and Caltrans. Following review and revision to the draft, a digital version in a PDF format will be submitted to QEI for submittal to the County and Caltrans. The deliverables are draft and final XPI Study proposal and Extended Phase I Report.

Assumptions

This scope and budget assumes one day for fieldwork associated with XPI study. This budget includes round trip drive time from ALTA office at 15 Third Street in Santa Rosa office to the job site will be billed to the client. This budget assumes that no cultural resources will be present within the project area that require formal documentation. This scope and budget does not include recording or evaluation of cultural resources. If a site evaluation is required to determine eligibility of the California Register of Historic Resources, the costs associated with this effort will be covered under an augmented agreement. This budget assumes one round of minor report revisions to the XPI proposal will be requested. If hand excavation is required, the cost associated with this effort will be covered under an augmented agreement. The cost of additional site visits or extensive project changes resulting in multiple report revisions will be billed at a time and materials basis and be in addition to the above items.

Expanded Task 7.5 – CEQA/NEPA Documentation (Modified Scope)

Given the changes made to the CEQA guidelines checklist since 2012, the complexity of the CEQA Initial Study/Mitigated Negative Declaration (IS/MND) has increased from what was originally anticipated in the initial scope of work and cost estimate, particularly the greenhouse gas emissions and tribal cultural properties (AB 52) sections. Stantec will complete Task 5 as previously outlined in our original 2012 proposal to ensure consistency with the current CEQA guidelines.

Expanded Task 7.6 –Project Permitting (Phase 2)

Sub-task 7.6.2 – Riparian Wetland Mitigation and Monitoring Plan (New Task)

To mitigate for permanent and temporary impacts to riparian habitat along the Navarro River, Stantec will prepare a riparian wetland mitigation and monitoring plan including the following elements: responsible parties; mitigation site location and characteristics (e.g., jurisdictional areas, aquatic functions, hydrology/topography, soils/substrates, vegetation); conceptual planting design; vegetation plans and native plant palette including target species to be planted; nature and source of propagules; long-term management; monitoring requirements (methods, schedule, photo-documentation), remediation measures, and final success criteria. The intent of the plan is to ensure replacement of the functions and values of the riparian wetlands that would be impacted as a result of the project. Stantec will prepare a revised mitigation plan that incorporates County and Quincy comments made on the draft mitigation plan. The revised mitigation plan will be submitted to permitting agencies for review and approval. Following receipt of comments from the permitting agencies, a final riparian mitigation plan will be prepared and included with permit applications for final permitting agency approval.

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Sub-task 7.6.3 – California State Lands Commission River Access Memorandum (New Task)

California State Lands Commission has indicated that River Access memorandum will be needed. This memorandum will identify the current river access available to the public and describe the post-project river access. The intent of the memorandum is to demonstrate that the proposed project will not change public access to the Navarro River. The scope of this task does not include providing an upgrade to river access nor other facilities such as a boat launch ramp, restroom facilities, parking areas, etc. The memorandum will include maps showing the current and post-project access.

Task 7 Products:

- Meeting minutes & progress reports *via e-mail*
- Updated Project Description (*via e-mail*)
- Additional/Expanded Technical Reports - Administrative Draft, Draft and Final (5 copies of Final version of each)
- Archaeological XP1 Study Report
- Updated CEQA/NEPA Documentation
- Riparian Wetland Mitigation and Monitoring Plan
- CA State Lands River Access Memo

EXPANDED TASK 8 - PROJECT REPORT

Expanded Task 8.1 - Project Report

QEI will update the Project Report to summarize the findings of the completed work-to-date. This updated report will be presented to and discussed with the County in draft form. All comments will be addressed and incorporated into the final report. Final design will occur upon concurrence by the County and approval of the environmental documents by Caltrans/FHWA. The approved report will become the basis for the project's final design.

Task 8 Products:

- Draft updated Project Report
- Final updated Project Report

PHASE 2 - FINAL DESIGN (Optional)

EXPANDED TASK 9 - FINAL DESIGN & DETAILING

Expanded Task 9.1 – Design & Submittal of 65% Plans (Unchecked Details)

- Bridge Design: QEI will include the west approach span and abutment to the arch structure and arch buttress tie-back anchors in the final bridge design. It will be performed in accordance with Caltrans Bridge Design Specifications and other Caltrans design manuals. Design will be based on the "Load Resistance Factor Design" method, with TL-93 and permit truck design live loads. Seismic design will be performed in accordance with the Caltrans *Seismic Design Criteria*.
- Approach Roadway Design: The final approach roadway design (Geometric Approval Drawings) will be updated to accommodate the west approach span including the final grading and drainage details.
- 65% Plans The west approach span and abutment plan sheets and arch buttress tie-back anchors will be prepared in CADD according to the County's and Caltrans' drafting standards. Plans will be prepared in English units and will be consistent with Caltrans' Standard Plans.

Expanded Task 9.2 - Independent Design Check

- QEI will provide an independent detailed check of the west approach span and arch buttress tie-back anchors, all bridge plans and element designs. This will be performed by a licensed engineer that has not previously worked on the project.
- QEI will complete a comprehensive calculation package of the west approach and arch buttress tie-back anchors, bridge and foundation systems for the arch bridge.

Expanded Task 9.3 - Specifications

- QEI will develop project special provisions based on Caltrans Standard Special Provisions (SSP) (Sections 8, 9 and 10) (2018) and County-provided boilerplate Special Provisions (CSP).
- OBEC will develop Special Provisions not covered by the CT Standard Specifications and Special Provisions (2018) as it pertains to the Arch Bridge.

Expanded Task 9.4 - Construction Quantities & Estimate

- QEI will develop construction quantities and the Team's estimate of construction costs (Q and E) for the west approach span. Quantities will be calculated in accordance with Caltrans' practice and segregated into pay items. The estimate will show quantities, unit costs, and a project cost summary.

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Expanded Task 9.6 - Submittal of 95% (Draft) PS&E

QEI and OBEC will develop the 95% submittal including west approach span:

- Checked complete 11"x17" replacement structure/roadway;
- County Boiler Plate and Special Provisions;
- Detailed construction estimate and working day schedule; and
- County's "red-lined" set of 65% plan comments; and
- QEI will address the 65% review comments in writing. All conflicts will be resolved.
- PDF files of entire submittal

Expanded Task 9.7 - Draft 100% PS&E

QEI will:

- Develop the Draft 100% PS&E submittal for County review including the west approach span.

(Permits – See Phase 1 Task 7.6)

TASK 10 - RIGHT-OF-WAY ASSISTANCE & UTILITIES

Task 9 Products:

- West Approach Span/Arch Buttress tie-back anchor Bridge & Roadway Details
- West Approach Span/Arch Buttress tie-back anchor 65% Road & Bridge Plans
- West Approach Span/Arch Buttress tie-back anchors 65% Road & Bridge Check Calculations
- West Approach Span/Arch Buttress tie-back anchor Independent Design Check
- West Approach Span/Arch Buttress tie-back anchor Comment Summary Forms
- Specifications (2018 format)
- West Approach Span/Arch Buttress tie-back anchor Structure Quantities
- West Approach Span Final Design Calculations
- Construction Cost Estimate
- QA/QC Checklist
- 95% & 100% PS&E

PHASE 3 - BID PHASE ASSISTANCE (OPTIONAL)

TASK 11 - BIDDING & POST-AWARD ASSISTANCE

QEI will be available during the bid period to interpret the plans and specifications, prepare addenda if needed, and provide general consultation to the County to obtain bids. When the construction bids are opened, Quincy Engineering will be available to provide analysis and recommendations concerning award of the contract.

Task 11.1 - Bidding Assistance

QEI will provide the following bidding assistance services for Mendocino County Public Works and will attend the pre-bid meeting.

Task 11.2 - Construction Design Assistance (Optional)

QEI will provide the following construction support services for Mendocino County Public Works if requested:

- Attend pre-construction meeting
- Review and provide comments on shop plan drawings;
- Construction site observations; and
- Develop updated plans or plan revisions as needed.

Task 11 Products:

- Bidding Assistance
- Response to RFIs
- Shop Drawing Review (Optional)
- Site Inspection (Optional)