EXHIBIT A – PRELIMINARY SCOPE OF WORK

DESIGN ENGINEERING SERVICES FOR THE

ARMSTRONG ROAD AND BEAR CREEK ROAD CCTC RAILROAD CROSSING IMPROVEMENTS

San Joaquin County Department of Public Works

1.0 INTRODUCTION

San Joaquin County Department of Public Works (County) is requesting proposals from qualified consulting engineering firms to provide design engineering services for improvements at two existing at-grade railroad crossings on Armstrong Road and Bear Creek Road. The projects are being funded through the Federal Section 130 Program and are intended to address existing hazards and bring the railroad crossing approaches into compliance with current applicable standards.

The two project locations are:

- Armstrong Road – CCTC Crossing ID 842828C
- Bear Creek Road – CCTC Crossing ID 842822L

Both crossings are operated by the Central California Traction Company (CCTC).

The selected consultant (Consultant) will be responsible for providing the design engineering services necessary to develop complete Plans, Specifications, and Estimates (PS&E) for the proposed improvements, including surveying, geotechnical investigation, roadway and berm design, utility coordination, illumination evaluation, signing and striping, intersection control evaluation and associated roadway/striping modifications, environmental technical support, bidding assistance, and construction support.

The Consultant will coordinate closely with the County, CCTC, utility providers, and other affected agencies and stakeholders throughout the project.

The preliminary scope of work described in this Request for Proposals (RFP) is intended to provide guidance regarding the anticipated services. Consultants are encouraged to identify additional tasks, investigations, analyses, or services they determine are necessary to successfully complete the project.

1.1 Project Background

The County intends to improve the roadway approaches at the Armstrong Road and Bear Creek Road railroad crossings to eliminate existing hazards and bring the crossings up to current standards.

The proposed improvements generally consist of widening the roadway approaches and providing associated berm improvements in accordance with applicable California Public Utilities Commission (CPUC) requirements. At the Bear Creek Road crossing, the project will also include design of a culvert extension and may require relocation/replacement of an existing cross-pipe that passes beneath the railroad tracks.

The Consultant will evaluate the two crossings for illumination and will provide appropriate signing and striping design in accordance with the California Manual on Uniform Traffic Control Devices (CA MUTCD).

The County is also considering conversion of one or both intersections to all-way-stop control. The Consultant shall evaluate and incorporate any resulting roadway geometry, signing, striping, or other design modifications necessary to accommodate the selected intersection control configuration.

The Consultant will also be responsible for utility mapping and coordination. Utility coordination shall include coordination with PG&E and other affected utility providers as necessary to identify existing facilities, potential conflicts, and required utility protection, relocation, or other measures necessary to accommodate the proposed improvements.

The County will be responsible for preparation and management of the project's NEPA and CEQA environmental review processes. The Consultant shall provide technical and design support to County staff as requested, including preparation of technical exhibits and other environmental documentation such as Area of Potential Effects (APE) maps.

The railroad crossing concrete panels and railroad crossing signal system and associated hardware are not included in the Consultant's design scope. These elements will be designed by CCTC. The Consultant shall, however, coordinate with CCTC as necessary to ensure that the County's proposed improvements are compatible with the railroad's work and to coordinate utility conflicts associated with the overall project.

Where construction activities affect the railroad crossing, including installation or relocation of the Bear Creek Road cross-pipe beneath the tracks, the Consultant shall coordinate the proposed work with CCTC to develop a construction approach that minimizes disruption to railroad operations and does not unnecessarily interfere with scheduled railroad service.

2.0 PROJECT OBJECTIVES

1. Improve the roadway approaches to the Armstrong Road and Bear Creek Road railroad crossings.
2. Provide widened approaches and associated berm improvements consistent with applicable CPUC requirements.
3. Improve safety and address existing hazards at both railroad crossings.
4. Design the required culvert extension at the Bear Creek Road crossing and address relocation/replacement of the existing cross-pipe beneath the railroad tracks, as necessary.
5. Evaluate the need for illumination at each crossing and incorporate appropriate illumination improvements into the project design, as warranted.
6. Provide signing and striping improvements in accordance with the CA MUTCD and applicable County standards.
7. Evaluate and accommodate potential conversion of one or both intersections to all-way-stop control, including any resulting roadway geometry, signing, and striping modifications.
8. Identify and coordinate existing utilities that may be affected by the proposed improvements, including PG&E facilities.
9. Coordinate the proposed roadway improvements with CCTC's separate design of the railroad crossing concrete panels and signal system.
10. Coordinate railroad-related construction activities so that proposed work, including the Bear Creek Road cross-pipe work, can be performed with consideration for CCTC's railroad operating schedule.
11. **Provide technical support to County staff for the NEPA and CEQA processes, including preparation of APE maps and other technical exhibits or information requested by the County.**
12. Develop complete, accurate, and biddable PS&E documents suitable for construction.
13. Provide bidding assistance and construction support necessary to assist the County in delivering the project.

3.0 SCOPE OF WORK

The Consultant shall provide all professional engineering services necessary to complete the project in accordance with the requirements of this RFP and applicable federal, State, County, CPUC, railroad, utility, and other agency requirements. The following tasks represent the anticipated scope of work. The Consultant's proposal shall identify the level of effort and specific activities proposed to accomplish each task.

TASK 1 – PROJECT MANAGEMENT AND COORDINATION

1.1 Project Administration and Schedule

The Consultant shall provide project administration and management throughout the duration of the project, develop and maintain the project schedule, provide progress reporting, maintain project records and correspondence, coordinate subconsultants, and identify and resolve project issues.

1.2 Meetings and Coordination

The Consultant shall coordinate with County staff, CCTC, utility providers, and other affected agencies; prepare for and attend project coordination meetings; and prepare meeting agendas and minutes.

1.3 Quality Management and Issue Notification

The Consultant shall perform quality control and quality assurance reviews of Consultant-prepared work. The Consultant shall promptly notify the County of issues that could affect project scope, schedule, cost, constructability, or permitting. The Consultant shall coordinate its design schedule with the County's NEPA and CEQA review schedules and provide environmental technical information and exhibits in sufficient time to support the County's processes.

1.4 Railroad Interface Coordination

The Consultant shall coordinate the proposed improvements with CCTC and applicable CPUC requirements. The Consultant shall review the proposed roadway approach improvements in relation to the existing railroad crossing and coordinate with CCTC regarding interfaces between the roadway improvements and the railroad's work.

CCTC will be responsible for design of the railroad crossing concrete panels and railroad crossing signal system and associated hardware. The Consultant shall not design these railroad elements.

1.5 Railroad Coordination Activities

The Consultant shall coordinate with CCTC as necessary to:

- Confirm project limits and interfaces.
- Coordinate roadway approach improvements with railroad improvements.
- Identify potential conflicts.
- Coordinate construction staging and sequencing considerations.
- Coordinate utility issues affecting the railroad crossing improvements.
- Incorporate available railroad design information into the County's PS&E where necessary for coordination.
- Coordinate construction activities occurring within or adjacent to the railroad crossing.

1.6 CPUC Requirements and Railroad Operating Constraints

The Consultant shall design the roadway improvements in accordance with applicable CPUC requirements, including CPUC General Order 72-B requirements applicable to the project. The Consultant shall identify railroad-related construction constraints early in design and incorporate appropriate construction sequencing, staging, and temporary measures into the PS&E where necessary.

The Consultant shall coordinate the proposed Bear Creek Road cross-pipe relocation/replacement with CCTC, including construction sequencing and methods intended to minimize disruption to railroad operations and accommodate the railroad's operating schedule.

1.7 Deliverables

- **Project schedule and schedule updates.**
- Meeting agendas and minutes.

- **Progress reports and project coordination records, as applicable.**
- **Quality control/quality assurance documentation, as applicable.**

TASK 2 – PRELIMINARY ENGINEERING

2.1 PROJECT SURVEYING, MAPPING, AND FIELD INVESTIGATION

2.1a Survey Limits and Control

The Consultant shall perform surveying and field investigation necessary to establish an adequate existing-conditions base for design and determine the limits of survey necessary to support the proposed improvements at both railroad crossings.

2.1b Topographic Survey and Existing Conditions

Surveying and mapping shall include, as applicable:

- Establishment or recovery of project control.
- Horizontal and vertical control.
- Topographic surveying.
- **Existing roadway and railroad crossing features.**
- **Drainage facilities, culverts, and drainage structures.**
- Signs, striping, and roadside features.
- Utility facilities and visible utility appurtenances.
- Existing berms and roadway slopes.
- Property and right-of-way information available to the County.
- Features necessary to evaluate and design potential all-way-stop intersection configurations.
- Other features necessary to develop the PS&E.

The Consultant shall document existing conditions and identify conditions that may affect the proposed improvements.

2.1c County-Furnished Information

The County anticipates providing available project information and records in its possession, which may include existing County plans and records, available right-of-way information, existing project information, available utility information, available railroad crossing information and previous studies or reports. The Consultant shall review the information provided and determine what additional information, field investigation, surveying, analysis, and other services are necessary to complete the project.

2.1d Deliverables

- **Survey and mapping information, including horizontal and vertical control.**
- **Existing-conditions/topographic mapping suitable for design.**
- **Field investigation documentation and identification of conditions affecting design.**
- **Review of County-furnished information and identification of additional data needs.**

2.2 GEOTECHNICAL INVESTIGATION AND PAVEMENT DESIGN

2.2a Geotechnical Investigation

The Consultant shall perform a geotechnical investigation sufficient to support the design of the roadway approach improvements, berms, and other proposed improvements. The investigation shall be appropriate for the anticipated improvements and shall include field investigation, sampling, laboratory testing, engineering analysis, and preparation of a geotechnical report, as necessary.

2.2b Engineering Evaluation and Recommendations

The Consultant shall evaluate, as applicable:

- Existing pavement and subgrade conditions.
- **Soil conditions and subgrade strength.**
- Groundwater conditions.
- Settlement and stability considerations.
- Embankment and berm conditions.
- Pavement structural requirements.
- Construction considerations.

The Consultant shall provide recommendations necessary to support final roadway and berm design.

2.2c Deliverables

- **Geotechnical investigation results and supporting analyses, as applicable.**
- **Geotechnical report with recommendations for roadway, pavement, berm, and other proposed improvements.**

2.3 ROADWAY APPROACH AND BERM DESIGN

2.3a Roadway Geometry and Grading

The Consultant shall design the widened roadway approaches and associated berm improvements at both railroad crossings. The roadway design shall consider:

- Existing roadway geometry.
- Existing and proposed right-of-way.
- Railroad crossing geometry.
- **Applicable CPUC requirements and County design standards.**
- **Drainage and existing utilities.**
- **Constructability and maintenance of traffic.**
- Tie-ins to existing roadway improvements.
- Pavement structural section.
- Earthwork and grading.
- Side slopes and berm configuration.
- Accessibility requirements, where applicable.
- Potential all-way-stop intersection configurations.

2.3b Intersection Configuration Integration

Where the County selects all-way-stop control at either or both intersections, the Consultant shall modify roadway geometry as necessary to provide an appropriate intersection configuration and incorporate associated signing and striping improvements into the PS&E.

2.3c Deliverables

- **Preliminary and final roadway approach plans.**
- **Roadway geometry, grading, and berm plans and details.**
- **Roadway tie-in, pavement section, and earthwork information.**
- **Design exhibits or alternatives needed to support County review of roadway configuration.**

2.4 BEAR CREEK ROAD CULVERT AND CROSS-PIPE IMPROVEMENTS

2.4a Culvert Extension and Cross-Pipe Evaluation

At the Bear Creek Road railroad crossing, the Consultant shall design the required culvert extension associated with the proposed roadway and berm improvements. The Consultant shall evaluate the

existing cross-pipe that passes beneath the railroad tracks and, if relocation or replacement is required to accommodate the proposed improvements, design the new cross-pipe and associated facilities.

2.4b Design and Construction Requirements

The Consultant shall investigate existing culvert, cross-pipe, and drainage conditions and develop appropriate improvements. The design shall address, as applicable:

- Existing culvert configuration and condition.
- Existing cross-pipe configuration, location, condition, and relationship to the railroad crossing.
- Proposed roadway and berm improvements.
- Hydraulic and drainage considerations.
- Culvert extension geometry and materials.
- New or relocated cross-pipe alignment, size, materials, and installation requirements.
- **Headwalls, end treatments, or other associated improvements.**
- Construction access and staging.
- Railroad operating requirements and construction sequencing.
- **Methods and sequencing for cross-pipe installation that minimize disruption to railroad operations and accommodate CCTC's railroad schedule.**

The Consultant shall coordinate the proposed cross-pipe work with CCTC and develop appropriate construction notes, staging requirements, and/or special provisions necessary to communicate railroad-related constraints to prospective bidders and the construction contractor.

2.4c Deliverables

- **Culvert extension plans, profiles, details, and specifications.**
- **Cross-pipe evaluation and, if required, relocation/replacement plans and details.**
- **Construction notes, staging requirements, and special provisions addressing railroad operating constraints.**

2.5 DRAINAGE DESIGN

2.5a Existing Drainage Evaluation

The Consultant shall evaluate existing drainage conditions and identify potential impacts to existing drainage facilities resulting from the proposed roadway approach and berm improvements.

2.5b Drainage Improvements

The Consultant shall design modifications necessary to accommodate the proposed improvements. Drainage design shall include, as applicable:

- Existing drainage facility evaluation.
- **Surface and roadside drainage.**
- Culvert modifications.
- Cross-pipe modifications or replacement.
- Drainage inlet or outlet improvements.
- Grading necessary to maintain positive drainage.
- Coordination with the Bear Creek Road culvert extension.
- Other drainage improvements required to construct the project.

2.5c Deliverables

- **Drainage plans, calculations, and details, as applicable.**
- **Drainage-related grading and inlet/outlet improvement details.**
- **Drainage specifications and special provisions, as applicable.**

2.6 ILLUMINATION EVALUATION AND DESIGN

2.6a Illumination Evaluation

The Consultant shall evaluate each railroad crossing and intersection for illumination and determine appropriate improvements based on applicable standards and project conditions.

2.6b Illumination Design and Service Coordination

Where illumination improvements are warranted, the Consultant shall prepare the necessary design and PS&E. The Consultant shall coordinate illumination improvements with existing electrical facilities, proposed roadway improvements, existing utilities, PG&E, CCTC where applicable, and applicable County and other agency requirements. The Consultant shall identify service requirements and coordinate with PG&E as necessary to establish an appropriate electrical service for the proposed improvements.

2.6c Deliverables

- **Illumination evaluation and recommendations for each crossing/intersection.**
- **Illumination plans and details where improvements are warranted.**
- **Electrical service requirements and related PG&E coordination documentation, as applicable.**

2.7 INTERSECTION CONTROL, SIGNING, AND STRIPING

2.7a Intersection Control Evaluation

The Consultant shall evaluate and accommodate the potential conversion of one or both project intersections to all-way-stop control, if directed by the County. The Consultant shall evaluate roadway configuration and sight-distance considerations associated with the proposed intersection control and identify geometric modifications necessary to accommodate the selected configuration.

2.7b Signing and Striping Design

The Consultant shall prepare signing and striping plans for the project in accordance with the CA MUTCD and applicable County standards. The design shall address:

- Existing signing and striping to remain.
- Existing facilities to be removed or modified.
- **Proposed signs and pavement markings.**
- Railroad-related signing and markings within the Consultant's roadway design responsibility.
- **Appropriate limits of striping modifications associated with roadway widening.**
- All-way-stop signs and associated pavement markings, where applicable.
- Geometry and striping modifications required to accommodate changes in intersection control.

2.7c Deliverables

- **Intersection control evaluation and design recommendations.**
- Intersection geometry and all-way-stop control plans, where applicable.
- **Signing and striping plans and details.**
- **Signing and striping quantities and specifications, as applicable.**

2.8 UTILITY MAPPING AND COORDINATION

2.8a Utility Identification and Mapping

The Consultant shall identify, map, and coordinate existing utilities within and adjacent to the project limits. Utility coordination shall include PG&E and other utility providers having facilities that may be affected by the proposed improvements.

2.8b Utility Conflict Resolution

The Consultant shall:

- **Identify existing utility facilities and review available utility records.**
- Coordinate field verification of utilities as appropriate.
- Prepare utility information for inclusion in the project plans.
- **Identify potential utility conflicts and develop preliminary utility conflict information.**
- Coordinate with PG&E and other affected utility providers.
- Coordinate utility protection, relocation, adjustment, or other measures as necessary.
- Incorporate known utility requirements into the project design.
- Coordinate utility work with CCTC where utility facilities interface with the railroad crossing improvements.
- Maintain utility coordination records and correspondence.

The Consultant shall identify utility conflicts early enough in the design process to allow appropriate resolution before completion of the PS&E. The Consultant shall not be responsible for design of CCTC's railroad crossing signal system; however, utility coordination shall account for utility facilities and potential conflicts associated with the overall project.

2.8c Deliverables

- **Utility mapping and utility information for inclusion in the plans.**
- **Utility conflict information and coordination records.**
- **Documentation of utility protection, relocation, adjustment, or other requirements identified during design.**

TASK 3 – ENVIRONMENTAL AND PERMITTING TECHNICAL SUPPORT

3.1 County-Led NEPA and CEQA Support

The County will lead and be responsible for the project's NEPA and CEQA environmental review processes. County staff will manage and prepare the applicable NEPA and CEQA documentation. The Consultant shall provide technical and design support necessary for the County to complete these processes. The Consultant shall not be responsible for independently managing or preparing NEPA or CEQA documentation unless specifically authorized by the County.

3.2 Technical Exhibits and Environmental Coordination

Consultant services may include, but are not limited to:

- Preparation of Area of Potential Effects (APE) maps and related exhibits.
- Preparation of project exhibits and technical information requested by County environmental staff.
- Providing project plans, design information, and descriptions of proposed improvements necessary to support environmental documentation.
- Assisting the County with identification of potential project impacts associated with the proposed design.
- Providing technical responses to environmental review comments, as requested by the County.
- Supporting coordination with resource agencies or other reviewing agencies, as requested by the County.
- Revising project exhibits or technical information based on environmental review.
- Providing technical support for environmental commitments that affect the Consultant's design.

The Consultant shall coordinate its design schedule with the County's NEPA and CEQA review schedules and provide requested technical information in a timely manner.

3.3 Deliverables

- **APE maps and related exhibits, as requested by the County.**

- **Project exhibits, plans, technical descriptions, and other information supporting County environmental documentation.**
- **Technical responses to environmental review comments and design-related environmental commitments, as requested.**

TASK 4 – PLANS, SPECIFICATIONS, AND ESTIMATE

4.1 PS&E Preparation

The Consultant shall prepare complete PS&E documents suitable for bidding and construction. The PS&E shall include, as applicable:

- **Title and cover sheets and general notes.**
- Existing conditions and survey information.
- Horizontal and vertical control information.
- **Roadway, grading, railroad crossing approach, and berm plans.**
- Drainage plans.
- **Culvert extension plans and cross-pipe relocation/replacement plans and details, where required.**
- Illumination plans.
- Signing and striping plans.
- All-way-stop intersection geometry and associated signing/striping plans, where applicable.
- Utility information and coordination.
- Construction details.
- Traffic handling and staging plans, as appropriate.
- Railroad construction coordination, staging, and sequencing requirements associated with work affecting railroad operations.
- **Construction quantities and Engineer's estimate.**
- Technical specifications and special provisions.
- Other documents necessary to construct the project.

4.2 Design Submittals and Quality Review

The Consultant shall prepare staged PS&E submittals at the 35-percent, 65-percent, and 100-percent design milestones. Each submittal shall be sufficiently developed to support County review and coordination with CCTC, utilities, and other affected agencies. The Consultant shall include appropriate quality control and quality assurance reviews before each submittal, track and respond to review comments, and incorporate accepted comments into subsequent submittals. The Consultant shall coordinate the design schedule with the County's NEPA and CEQA review schedules. The specific submittal contents and review periods shall be confirmed with the County at project initiation.

4.3 35% PS&E Submittal

The Consultant shall submit a 35-percent design package showing the proposed design approach and sufficient information for the County to review the project concept, identify major issues, and provide direction before further design. The package shall include, as applicable:

- **Preliminary roadway geometry, approach widening, berm, and grading concepts for both crossings.**
- **Preliminary drainage concepts, including the Bear Creek Road culvert extension and any potential cross-pipe relocation/replacement.**
- **Preliminary intersection-control, signing, striping, and illumination concepts, as applicable.**
- **Available survey and existing-conditions information, identified design criteria, assumptions, and known constraints.**
- **Preliminary utility information and identified potential conflicts.**

- **Preliminary construction staging and railroad interface considerations, including known constraints related to CCTC operations.**
- **A preliminary opinion of probable construction cost or engineer's estimate, consistent with the level of design.**

4.4 65% PS&E Submittal

The Consultant shall submit an intermediate design package incorporating County comments on the 35-percent submittal and advancing the design sufficiently for detailed technical and stakeholder review. The package shall include, as applicable:

- **Developed roadway, grading, berm, drainage, culvert, and cross-pipe plans and details.**
- **Developed intersection geometry and signing/striping plans, including County-selected all-way-stop modifications if directed.**
- **Illumination plans and electrical service coordination information, where illumination is warranted.**
- **Updated utility mapping and utility conflict information, including the status of coordination with PG&E and other affected utility providers.**
- **Draft technical specifications and special provisions, including railroad-related construction staging or sequencing requirements as needed.**
- **Updated construction quantities and engineer's estimate.**
- **Updated design assumptions, outstanding issues, and items requiring County or agency direction.**

4.5 95% PS&E Submittal

The Consultant shall submit a complete final PS&E package incorporating County and stakeholder comments on the 65-percent submittal and resolving outstanding design issues to the extent practicable. The package shall be suitable for final review, approval, bidding, and construction and shall include, as applicable:

- **Complete final plans and details for all improvements included in the Consultant's scope.**
- **Final technical specifications and special provisions, including applicable railroad coordination, staging, and sequencing requirements.**
- **Final construction quantities and engineer's estimate.**
- **Finalized utility information and documented utility coordination status, including identified protection, relocation, or adjustment requirements.**
- **Responses to 65-percent review comments and a summary of how comments were addressed or remain unresolved.**
- **A complete, coordinated PS&E package suitable for bidding and construction, subject to County acceptance.**

4.6 PS&E Deliverables and Review Records

The Consultant shall provide electronic copies of each 35%, 65% and 95% PS&E submittal in formats specified by the County. Each submittal shall include the plans, specifications or draft specifications appropriate to that milestone, quantities and estimate appropriate to the level of design, and supporting technical information necessary for review. The Consultant shall provide written responses to County and stakeholder comments and revised documents with subsequent submittals. Upon approval of 95% PS&E, along with electronic copies the Consultant shall provide one full plan set on 24”x36” mylar.

TASK 5 – BIDDING ASSISTANCE

5.1 Bid-Period Support

The Consultant shall provide bidding assistance during the County's advertisement and bidding process. Services may include:

- **Responding to technical questions and preparing responses to bidder inquiries.**
- Preparing addenda, as requested by the County.
- Reviewing proposed substitutions or alternatives.
- Providing clarification of the PS&E.
- Attending a pre-bid meeting, if requested.
- Assisting the County with technical review of bids or bidder questions.

The Consultant shall be prepared to respond to bidder questions concerning railroad construction constraints, including the Bear Creek Road cross-pipe work and requirements associated with maintaining railroad operations. The Consultant shall coordinate with the County before issuing any information to prospective bidders.

5.2 Deliverables

- **Written responses to technical bidder inquiries.**
- **Draft addenda and technical clarifications, as requested.**
- **Technical input for pre-bid meetings and bid review, as requested.**

TASK 6 – CONSTRUCTION SUPPORT

6.1 Engineering Support During Construction

The Consultant shall provide engineering support during construction as requested by the County. Construction support may include:

- Responding to Requests for Information (RFIs).
- Reviewing contractor submittals and shop drawings.
- Providing design clarifications.
- Reviewing proposed field changes.
- Assisting with change order development.
- Attending construction meetings, as requested.
- Conducting periodic field reviews.
- Coordinating with CCTC regarding railroad-related interfaces.
- Coordinating with utilities regarding utility-related construction issues.
- Assisting with construction coordination related to the Bear Creek Road cross-pipe installation and railroad operating requirements.
- Reviewing contractor-provided record information.
- Preparing record drawings or as-built information, as requested by the County.

The Consultant's construction support shall be limited to engineering services associated with the Consultant's design responsibilities under this RFP.

6.2 Deliverables

- **Responses to RFIs and design clarifications.**
- **Reviews of contractor submittals and shop drawings, as requested.**
- **Field review notes, meeting notes, and technical recommendations, as applicable.**
- **Technical support for proposed field changes and change orders, as requested.**
- **Record drawing/as-built information, if requested by the County and within the agreed scope.**

COUNTY-PROVIDED SERVICES

The County anticipates providing available project information and records in its possession that may assist the Consultant in completing the project.

County-provided information may include, as available:

- Existing County plans and records.
- Available right-of-way information.
- Existing project information.
- Available utility information.
- Available railroad crossing information.
- Available previous studies or reports.
- County-prepared NEPA/CEQA documentation and environmental information.

The Consultant shall review County-provided information and shall be responsible for determining the additional information, field investigation, surveying, analysis, and other services necessary to complete the project.

GENERAL SCOPE REQUIREMENTS AND LIMITATIONS

Complete Project Delivery

The Consultant shall provide the professional services, coordination, investigations, analyses, and documentation necessary to deliver a complete and constructible project within the scope of this RFP. Consultants are encouraged to identify additional tasks, investigations, analyses, or services they determine are necessary to successfully complete the project and clearly identify them in their proposals.

Scope Limitations and Responsibility Boundaries

- CCTC Railroad Crossing Signal System: Design of the railroad crossing signal system and associated signal hardware is the responsibility of CCTC and is not included in the Consultant's design scope.
- Railroad Crossing Concrete: Design of the railroad crossing concrete panels is the responsibility of CCTC and is not included in the Consultant's design scope.
- Utility Coordination: Although the Consultant will not design the CCTC signal system, the Consultant is responsible for utility mapping and coordination associated with the overall project, including coordination with PG&E and other affected utilities.
- Project Interfaces: The Consultant shall coordinate its roadway, drainage, illumination, signing, striping, and utility designs with CCTC's railroad improvements to the extent necessary to provide a complete and constructible project.
- **Environmental Documentation: County staff will lead and be responsible for the NEPA and CEQA environmental review processes. The Consultant's environmental responsibilities are limited to providing technical support, exhibits, project information, and other assistance requested by the County.**
- Railroad Operations: The Consultant shall account for CCTC's railroad operating requirements in the design and construction documents, particularly for the Bear Creek Road cross-pipe work. The Consultant shall not be responsible for railroad operations or for designing CCTC's railroad facilities.
- Intersection Control: The final intersection control configuration at one or both project locations will be determined by the County. The Consultant shall provide design modifications necessary to accommodate the County-selected configuration.

The Consultant shall include in its proposal a task-based work plan, level of effort, schedule, and any additional deliverables necessary to complete the scope. Deliverables specific to the technical tasks are identified under each task above.