

Revised Support Material for Agenda Item No. 14

Board of Directors Meeting

**March 05, 2025
10:00 AM**

Location

San Bernardino County Transportation Authority
First Floor Lobby Board Room
1170 W. 3rd Street, San Bernardino, CA 92410

CONCENT ITEMS

Project Delivery

14. State Route 18 Median Widening and Re-Profiling Project Release Request for Proposals and Caltrans Cooperative Agreement That the Board of Directors, acting as the San Bernardino County Transportation Authority:

A. Authorize the Executive Director, or his designee, to execute Cooperative Agreement No. 25-1003239 with the California Department of Transportation (Caltrans) for the Project Approval/Environmental Document phase for the State Route 18 Median Widening and Re-Profiling Project (Project), which designates SBCTA as the implementing agency and Caltrans as the oversight agency.

B. Authorize the release of Request for Proposals No. 25-1003240 for Professional Services for the preparation of the Project Approval/Environmental Document for the Project.

The scope of work for RFP No. 25-1003240 has been updated to reflect Aerial Topographic Mapping.

ATTACHMENT A - SCOPE OF WORK

SR-18 Median Widening and Reprofilng Project

The San Bernardino County Transportation Authority (“SBCTA”) is seeking professional services for the preparation of Project Approval/Environmental Document (PA/ED) for the State Route 18 (SR 18) Median Widening and Re-Profilng Project (“PROJECT”) from 3.4 miles west of the Los Angeles County line to United State 395 (US 395), in the County of Los Angeles and San Bernardino County.

The Los Angeles County Metropolitan Transportation Authority (Metro) and San Bernardino County Transportation Authority (SBCTA), in cooperation with the California Department of Transportation (Caltrans) Districts 7 and 8, plans to improve the east-west multi-modal mobility, safety and operations along SR-18 Corridor in Los Angeles (LA) and San Bernardino (SBd) Counties.

The project includes a No-Build Alternative (Alternative 1) and a Build Alternative (Alternative 2). It is classified as a category 4B Project as per Project Development Procedures Manual (PDPM).

The project is anticipated to proceed to the PA/ED phase after the approval of the Project Study Report - Project Development Support (PSR-PDS) report. It is anticipated that an Initial Study with Mitigated Negative Declaration (IS/MND) is the anticipated environmental document (ED) under the California Environmental Quality Act (CEQA) and a Routine Environmental Assessment (EA) with Finding of No Significant Impact (FONSI) is the anticipated ED under the National Environmental Policy Act (NEPA). The construction period has not been currently determined.

SBCTA is the project sponsor along with Metro as a funding partner. SBCTA and Caltrans District 8 have an executed Cooperative Agreement (08-1717) for the PSR-PDS phase. Subsequent Cooperative Agreements will be needed for PA/ED phases of the project. Funding for the PA&ED phase is expected to be partially provided by SBCTA and Metro funding sources. Funding sources for the final design, right of way, and construction will be determined during the PA&ED phase, but state and/or federal funds could be utilized. As such, the PA/ED shall comply with applicable state and federal requirements.

The SR-18 improvement project is currently included in the Southern California Association of Governments (SCAG) 2020-2045 Regional Transportation Plan/Sustainable Communities Strategy (RTP/SCS) planned network.

I. APPLICABLE STANDARDS

All support documents shall be prepared in accordance with current SBCTA and Caltrans regulations, policies, procedures, manuals, and standards where applicable. CONSULTANT shall obtain, at its expense, all applicable Manuals and Standard Plans.

II. GENERAL DESCRIPTION OF REQUIRED SERVICES

- A. Required services listed below do not supersede the requirements established in the Contract.
- B. CONSULTANT Services include the studies, reports, drawings, plans, specifications, estimates, and special provisions necessary to complete the PA/ED for the Project.
- C. The deliverables list for the PA/ED phase will be refined during the Project Development Team (PDT) meeting. Not all deliverables listed in this attachment may be required.
- D. CONSULTANT shall develop and maintain a Project schedule. The Project schedule may be presented monthly to the PDT meeting. A deliverables matrix will accompany the schedule. The deliverables matrix will highlight the status of the documents in the review process.
- E. CONSULTANT shall employ appropriate quality control and quality assurance procedures for every deliverable.
- F. CONSULTANT shall identify potential risks and uncertainties related to the delivery and construction of the Project. Risks that may be encountered include, but are not limited to, soil conditions, constructability, factors of safety, impacts to adjacent properties, public safety, and environmental considerations. If at any time during the performance of this Scope of Services, CONSULTANT observes, encounters, or identifies any circumstance that could pose potential risk, CONSULTANT shall notify SBCTA immediately.
- G. The design will be prepared in English units.
- H. Prime contract terms and conditions will be incorporated into the subcontract agreements.
- I. The Task and WBS Structure used for pricing, cost reporting and schedule preparation shall be consistent with the Caltrans Workplan Standards Guide for Delivery of Capital Projects. Project Management activities will be performed in accordance with the Caltrans' Workplan Standards Guide for Delivery of Capital Projects.
- J. CONSULTANT shall prepare and submit monthly invoices and project controls reports. Invoices shall follow SBCTA templates and shall contain all required information including project percent complete and earned value. CONSULTANT shall manage the contract budget and shall provide a monthly report including Earned Value and Estimate at Completion.
- K. The final engineering technical reports must bear the signature, stamp or seal, registration number, and registration certificate expiration date of the registered civil engineer most directly in responsible charge or other registered or certified professional working on the report as specified in Section 9 of the Project Development Procedures Manual.

III. ASSUMPTIONS

- A. The Consultant will develop and evaluate up one-build and one no-build alternatives to address the deficiencies of the Project study area, including the benefits and impacts of the proposed improvements for each alternative.
- B. There may be up to four meetings per month (including conference calls) during the duration of this contract, including one mandatory monthly PDT meeting.
- C. CONSULTANT will coordinate with SBCTA and Caltrans prior to distribution of all deliverables to determine the points of contact, number of hardcopies and format of electronic files.
- D. Assume one SBCTA peer review and two Caltrans reviews for each major deliverable and a workshop for comment resolution, if required.
- E. The National Environmental Policy Act (NEPA) Environmental Document is assumed to have a Finding of No Significant Impacts (FONSI).
- F. The California Environmental Quality Act (CEQA) Environmental Document is assumed to be CEQA Initial Study and Mitigated Negative Declaration (MND).
- G. Assume lead and asbestos testing of the soils, structures and paint is required.
- H. Assume the no structure improvements at the existing bridge over the Union Pacific Railroad (Bridge Number 52-2331) are anticipated.
- I. Assume a Design Standard Decision Document (DSDD) will be prepared approved during the PA/ED phase
- J. Assume District 8 level Geometric Approval Drawings (GADs) will be required during the PA/ED Phase.

IV. SCOPE OF SERVICES

CONSULTANT will prepare a PA/ED in accordance with CALTRANS Guidelines and Procedures, California Environmental Quality Act (CEQA) and National Environmental Policy Act (NEPA). All deliverables will be provided electronically for SBCTA, Metro, and Caltrans project records.

CONSULTANT shall prepare and submit a Cost Proposal and Project Schedule. The selected firm shall use the latest SBCTA Work Breakdown Structure (WBS), which follows the Caltrans Workplan Standards Guide for Delivery of Capital Projects, and cost and schedule templates for the preparation of the cost proposal and schedule.

1.100.15 PROJECT MANAGEMENT

1.100.15 Project Management

CONSULTANT shall furnish a Project Manager to coordinate all CONSULTANT operations with SBCTA, including but not limited to, tracking progress of the work and administering subcontracts. CONSULTANT Project Manager shall provide overall project management, coordination, and supervision of project staff to facilitate the performance of the work in accordance with standards and requirements of the SBCTA and other applicable standards and requirements. CONSULTANT Project Manager shall prepare and submit monthly project progress reports to SBCTA Project Manager.

Deliverables:

- *Monthly Progress Reports*

1.100.15-1 Coordination and Meetings

CONSULTANT will be responsible for overall project management, liaison with Caltrans and other affected agencies, and progress monitoring and maintenance of PROJECT files.

CONSULTANT will supervise, coordinate, monitor and review project for conformance with Caltrans and County standards, policies, and procedures. CONSULTANT will develop a project schedule for delivery of major milestones of the PA/ED (Begin Environmental, Circulate ED, and PA/ED), Design and Construction. An 18-month schedule is anticipated for scoping purposes. CONSULTANT will attend a kick-off meeting, lead monthly Project Development Team (PDT) meetings, coordinate with sub-consultants as needed, coordinate with the Caltrans, utility companies, and all other pertinent stakeholders as needed. CONSULTANT Project Manager will be responsible for preparation of agendas and meeting minutes, communication and distribution of project records and information, and responses to all internal requests for information about the project.

Deliverables:

- *Monthly (24) PDT Meetings Notices, Agendas, Handouts/Exhibits, and Minutes*
- *Two (2) Stakeholder Meetings and Presentations*
- *Project Baseline Schedule*
- *Deliverables Matrix*
- *Monthly Progress Reports and Invoices*

1.100.15-2 Administration

CONSULTANT Project Manager shall prepare and update the Project schedule on a monthly basis or as needed. Project schedule shall be logical, complete, and shall consider SBCTA peer reviews.

CONSULTANT Project Manager shall provide regular reporting on the project status, including, but not limited to, schedule, contract budget, general progress on project tasks, and project issues and concerns.

CONSULTANT Project Manager shall maintain project files using the Caltrans Uniform System in electronic format.

CONSULTANT Project Manager will prepare and implement a Quality Management Plan (QMP). CONSULTANT will prepare a responsibilities matrix outlining responsibilities of independent Quality Control on respective tasks within this scope of work herein. Refer to Chapter 5, Article 9 of the PDPM Appendix S for general guidance on the Quality Management Plan. The CONSULTANT will be responsible for incorporating SBCTA's Quality Assurance Plan and confirming that all the processes and procedures are met and incorporated into the CONSULTANT'S Quality Management Plan.

Deliverables:

- *Project Schedule Updates*
- *Project Master Files*
- *QA/QC Plan and Risk Management Plan*
- *Project Management Plan/Communication Plan*

1.100.15-3 Risk Assessment

CONSULTANT will prepare the Risk Register in accordance with PDPM Appendix S. Since the reduced amount of data that is required for the PA/ED transfers risks to future phases and it is important to identify the risk, define the probability, define the severity, identify who or what the risk will impact, and identify the ownership of the risk. CONSULTANT will coordinate with the SBCTA, Caltrans, and project team members to jointly identify, assess, quantify, prepare a response to, monitor, and control capital project risks within the Risk Register. Potential risks will be evaluated and discussed by the PDT, and ownership of the risks will be identified. CONSULTANT will summarize

project risks in the PA/ED.

Deliverables:

- *Risk Assessment Matrix*
- *Summary of Risks in the PA/ED*

2-160 PERFORM PRELIMINARY ENGINEERING & DRAFT PROJECT REPORT

2-160.05 Review Updated Project Information

CONSULTANT shall request, collect, assemble, and review pertinent project information, including, but are not limited to, prior Project Reports and Engineering Technical Reports, Environmental Documents and Environmental Technical Reports, CAD files and drawings, and relevant correspondence. CONSULTANT shall incorporate the collected materials and information into the Project Master File.

Deliverables:

- *Project Records Files*

2-160.10 Engineering Studies

CONSULTANT shall perform necessary Engineering Studies and preliminary design work required for the preparation of a Project Report, development and refinement of viable Project Build Alternatives, selection of the preferred alternative, and initiation of final design efforts. All engineering studies and reports prepared shall meet Caltrans requirements according to the Highway Design Manual, Project Development Procedures Manual, and other pertinent Caltrans guidance. CONSULTANT will be responsible for obtaining right of entry permits required for field work from Caltrans and private properties willing to grant entry, SBCTA will assist in obtaining ROW entry permits when necessary.

2-160.10-05 Refine Project Alternative

CONSULTANT shall evaluate project alternatives and variations and develop refinements to improve conformance to standards, minimize impacts to Right of Way, and improve constructability.

2-160.10.10 Traffic Studies

CONSULTANT shall collect and analyze relevant travel-demand and travel forecast data to generate traffic forecasts to be used in the traffic operational analysis. If appropriate, CONSULTANT shall perform supplemental traffic forecasting and modeling. Future traffic projections should include data for intersections, highway mainline, and interchange ramps. Utilizing traffic forecasts, CONSULTANT shall perform a traffic capacity/operational analysis for each build alternative. The traffic operational analysis criteria to be used shall include, but not be limited to, levels of service, vehicle miles travelled, vehicle hours travelled, average speeds, and delay. The traffic operational analysis shall consider traffic control measures such as ramp metering and intelligent

transportation systems. CONSULTANT shall prepare a traffic report that includes traffic information and analysis for current year, opening year, and a design horizon year.

Deliverables:

- *Traffic Studies*
 - *Draft/Final Traffic Forecasting and Analysis Assumptions and Methodologies Memorandum*
 - *Draft/Final Traffic Volumes Report*
 - *Draft/Final Traffic Operations Analysis Report*

2-160.10.15 Geometric Plans for Project Alternative

CONSULTANT shall prepare Geometric Plans for Project Build Alternative. This includes horizontal and vertical alignments, cross sections, typical sections, utility plans, and construction staging/detours plans.

Deliverables:

- *Geometric Plans for Project Build Alternative.*

2-160.10.20 Value Analysis

CONSULTANT shall conduct prepare a Value Analysis (VA) study to comply with Caltrans requirements. VA studies identify and evaluate alternative project solutions and provide recommendations to decision-makers. The list of VA Study participants will be developed by CONSULTANT and SBCTA. Once the Draft report has been reviewed by the project stakeholders, an implementation meeting will be conducted to resolve the disposition of the VA Alternatives presented in the report.

Deliverables:

- *Value Analysis Report*

2-160.10.25 Hydraulics/Hydrology Studies

CONSULTANT shall perform Hydraulics/Hydrology studies to analyze on-site and off-site storm water flows for each of the project build alternatives. CONSULTANT shall identify requirements for hydraulic and storm water treatment design features as part of this task. Results of this study shall be considered and utilized in the project preliminary design.

Deliverables:

- *Preliminary Drainage Report (Hydrology Report)*

2-160.40 Right of Way (ROW) Data Sheets

CONSULTANT shall assess project ROW requirements by obtaining ROW information and preparing ROW data sheets for each build alternative. This task shall include preliminary utility location work which includes, but not limited to, review of utility as-build plans and performing utility record searches. Results of this assessment will be used as basis for estimating ROW costs.

Deliverables:

- *ROW Data Sheets*

2-160.10.45 Utility Locations Determined for Preliminary Engineering

CONSULTANT shall perform all activities needed for Utility Locations Determined for Preliminary Engineering per Caltrans ROW manual and other requirements.

Deliverables:

- *Utility Relocation Estimate*
- *Utility correspondence*

2-160.10.55 Multi-Modal Study (If required)

CONSULTANT shall prepare Multi-modal Study. This review should address temporary construction and permanent impacts as well as possible improvements to Pedestrian, Bicycle, and Transit facilities.

Deliverables:

- *Draft / Final Multi-Modal Study*

2-160.10.80 Geotechnical Studies

CONSULTANT shall prepare a Preliminary Foundation Report (PFR), Preliminary Geotechnical Design Report (PGDR), and Preliminary Materials Report (PMR). Preliminary Materials Report which shall provide recommendations for pavement structure recommendations, pavement type, proposed pavement design life and corrosion studies if culverts are proposed. Results of this assessment will be used as basis for estimating project construction costs.

Deliverables:

- *Preliminary Foundation Report, if applicable*
- *Preliminary Geotechnical Design Report*
- *Preliminary Materials Report*

2-160.10.85 Structures Advance Planning Study (APS), if applicable

CONSULTANT shall prepare an APS which shall evaluate the type of structures that are suited for the site, identify the scope of work related with each structure type and develop a cost associated with each structure type. Up to 3 structure types are anticipated to be investigated. The APS will follow the Office of Special Funded Projects (OSFP) Information and Procedures Guide Chapter 3, Section 2-2 and will include an APS checklist, Design Memo, and an Itemized Cost Estimate.

Deliverables:

- *Advance Planning Study*
- *APS Checklist*
- *Design Memo*
- *Itemized Cost Estimate*

2-160.10.95 Preliminary Transportation Management Plan (TMP)

CONSULTANT shall prepare the Preliminary TMP per the latest Caltrans guidelines and requirements.

Deliverables:

- *Draft and Final TMP*

2-160.15 Draft Project Report

CONSULTANT shall prepare a Draft Project Report following the Caltrans format. The Project Report shall be prepared by or under the supervision of a registered Civil Engineer in the State of California. The consideration of non-standard features will be closely coordinated with the SBCTA Project Manager and designee to confirm acceptability by the SBCTA.

Deliverables:

- *Draft Project Report*

2-160.15.05 Cost Estimates for Alternatives

CONSULTANT shall prepare the Cost Estimates (11-page format) for each alternative for the Draft Project Report per the latest Caltrans guidelines and requirements.

Deliverables:

- *Cost Estimate (11-page format)*

2-160.15.10 Design Standard Decision Document (DSDD)

CONSULTANT shall prepare the DSDD for both mandatory and advisory standards. The report will be prepared per the latest Caltrans guidelines and requirements. It is assumed that there is only one build alternative, so the DSDD can be drafted once the geometrics are defined for the PA/ED phase.

Deliverables:

- *Draft and Final Fact Sheets for Exceptions to Design Standards (Mandatory and Advisory)*

2-160.20 Aerial Topographic Mapping

CONSULTANT will prepare Aerial Topographic Mapping and utilize available GIS right-of-way mapping. New Aerial Mapping, Surveys, Topographic Mapping, or Right-of-Way mapping for the PROJECT will be required for this phase of the work. CONSULTANT will obtain CALTRANS Encroachment Permit for general field and non-ground disturbing activities to obtain information for the project. All topographic mapping shall conform to Caltrans requirements and guidelines.

Deliverables:

- *Topographic Mapping*

2-160.15.25 Draft Project Report Circulation Review and Approval

CONSULTANT shall circulate the DPR for review and comment. CONSULTANT shall address and incorporate Caltrans and SBCTA comments into the Final Project Report.

Deliverables:

- *Final Project Report*

2-160.15.99 Stage Construction Concept

CONSULTANT shall prepare stage construction concept to be included in the Project Report.

Deliverables:

- *Draft and Final Stage Construction Exhibit*

2-160.45 Geometric Approval Drawings (GADs), Base Maps and Plan Sheets for PA/ED Development

CONSULTANT shall prepare the geometric approval drawings (GADs) for the preferred build alternative. GADs shall include horizontal and vertical alignments, cross sections, and typical sections. Preparation of the GADs shall be performed in close coordination with Caltrans Design staff. CONSULTANT will be responsible for completion and

approval of the GADs by Caltrans in a manner where there is sufficient time to proceed with the circulation of the Environmental Document and approval of the Project Report within the project schedule.

Deliverables:

- *Draft / Final GADs*
- *Plans Sheets for PA/ED*

3.165 – ENVIRONMENTAL STUDIES & ENVIRONMENTAL DOCUMENT

2-165.10 General Environmental Studies

CONSULTANT shall perform general environmental studies to support the evaluation of the Project Build Alternatives and, if necessary, to support the environmental determination made under the California Environmental Quality Act (CEQA), the National Environmental Policy Act (NEPA) and other applicable environmental laws and regulations. Caltrans will act as the Lead Agency under CEQA and NEPA; the preparation of each environmental technical report shall be performed in consultation with the SBCTA Project Manager or designee. CONSULTANT will be responsible for obtaining any right of entry permits required for field work.

Preparation of all technical analyses and reports will follow local, state, and federal environmental guidelines, primarily consisting of the Caltrans Standard Environmental Reference (SER) website, Caltrans Project Development Procedures Manual, local and state CEQA Guidelines, and FHWA Technical Advisory 6640.81 Guidance on Preparing and Processing Environmental and Section 4(f) Documents. The formats to be used for the technical studies will follow the guidance available on the Caltrans SER website as of the date that those studies are initiated.

For this scope of work, the technical studies for which a specific scope of work has been included have been assumed based on a review of existing project information and a preliminary review of the project site. If additional studies are identified during the environmental phase of the project a scope of work and cost price proposal will be submitted for approval prior to their initiation.

Deliverables:

- *Draft / Revised Draft / Final Technical Studies*

2-165.10.15 Community Impact Analysis Land Use and Growth Studies

CONSULTANT shall perform activities related to socioeconomic, land use, and growth impact technical studies for use in the environmental document and prepare a technical report documenting study results.

Deliverables:

- *Community Impact Analysis Report*

2-165.10.20 Visual Impact Assessment and Scenic Resource Evaluation

CONSULTANT shall perform a visual impact analysis and prepare a visual impact analysis report which will be referenced in the environmental document. Discussions and negotiations with external parties as part of this task shall only be performed in consultation with the SBCTA Project Manager or designee.

In accordance with FHWA and the U.S. Department of the Interior guidelines, the visual

analysis will be prepared under the direction of a licensed Landscape Architect and based on FHWA's Visual Impact Assessment for Highway Projects. Based on the Visual Impact Assessment (VIA) Questionnaire it is assumed that a Visual Impact Assessment Memorandum (VIAM) would be appropriate. A short VIAM will be prepared following the Caltrans VIAM outline, so no simulations would be required

Deliverables:

- *Draft / Final Visual Impact Analysis Report including visual simulations and exhibits*

2-165.10.25 Noise Study (If required)

CONSULTANT shall prepare a Noise Study Report evaluating the noise impacts and potential noise abatement/mitigation measures, if any, associated with the proposed project. Because federal and Caltrans oversight is involved, the report will be prepared in accordance with procedures specified by FHWA in Title 23, Section 772 of the Code of Federal Regulations (CFR) (23 CFR 772) and the Caltrans Traffic Noise Analysis Protocol (Protocol).

Based on a preliminary review of the alignment, noise impacts are not predicted, therefore, a Noise Abatement Decision Report (NADR) will not be required.

Deliverables:

- *Draft / Final Noise Study Report*

2-165.10.30 Air Quality Study

CONSULTANT shall prepare an Air Quality Study Report. The report will provide the following discussion and analyses:

- Regulatory Setting and Existing Conditions.
- Evaluation of Construction Emissions.
- Evaluation of Operations-Period Mass Emissions.
- Localized Carbon Monoxide Hot Spot Analysis.
- Localized PM2.5/PM10 Hot Spot Analysis.
- Mobile Source Air Toxics.
- Climate Change/Greenhouse Gas Emissions.
- Mitigation Measures.
- Air Quality Conformity Analysis Report and Checklist.

Deliverables:

- *Draft / Final Air Quality Study Report*

2-165.10.35 Water Quality Studies

A Scoping Questionnaire for Water Quality Issues (SQWQI) will be prepared for the proposed project using the current SQWQI template available on the Caltrans SER. As required, this will address existing conditions, project description and impacts, and construction (temporary) impacts. It is assumed that the SQWQI will be sufficient, and a full Water Quality Assessment will not be required.

Deliverables:

- *Scoping Questionnaire for Water Quality Issues (SQWQI)*

2-165.10.40 Energy Studies

CONSULTANT will perform all activities related to energy impact analysis for use in the environmental document and prepare a technical report, if required, documenting study results.

Deliverables:

- *Energy Study Report, if required.*

2-165.10.60 Location Hydraulic and Floodplain Study Report

CONSULTANT will perform all activities related to preparing a Location Hydraulic Study, including structures hydraulics, for use in the environmental document and Draft Project Report and a Flood Plain Study for use in the Environmental Document; prepare a technical report or reports documenting study results.

Deliverables

- *Location Hydraulic Study*
- *Floodplain Study Report*
- *Technical Report Abstract for Use in Environmental Document Text*

2-165.10.65 Paleontology Study

CONSULTANT shall perform a paleontology study to identify and evaluate potential impacts to paleontological resources in the project area.

The following tasks shall be performed to evaluate paleontological resources:

- Document review
- Records search
- Paleontological resource assessment
- Field survey
- Preparation of technical report(s)

Based on preliminary review, a Paleontological Mitigation Plan (PMP) will be required for the proposed project. The PMP will be prepared under the supervision of a qualified Principal Paleontologist and will follow the PMP format as defined on the Caltrans SER.

Deliverables:

- *Draft / Final Combined Paleontological Identification Report (PIR) and Paleontological Evaluation Report (PER)*
- *Draft / Final Paleontological Mitigation Plan (PMP)*

2-165.10.75 Environmental Commitments Record (ECR)

CONSULTANT will prepare or update the ECR and its associated documentation.

Deliverables

- *Draft and Final ECR*

2-160.10.80 Hazardous Waste Initial Site Assessment

CONSULTANT shall perform a hazardous waste assessment to identify and evaluate the potential for Recognized Environmental Conditions (REC) that occur in the project area. This task shall include a literature search and review of historic information, interagency coordination with the appropriate agencies, field studies, and preparation of an Initial Site Assessment (ISA) report.

The ISA shall be prepared in general accordance with the Caltrans Initial Site Assessment Guidance Document, dated September 2006. Project specific scoping considerations include evaluations of right-of-way acquisition parcels and construction easements, proper management of any identified waste materials, and construction worker and public exposure to any identified onsite contaminants.

Review of local, state and federal regulatory databases and files in performance of the ISA. Based on these findings, additional information may be obtained from direct contact with regulatory agencies including the City Colton, San Bernardino County, California Regional Water Quality Control Board, California Department of Toxic Substances Control, Caltrans and the United States Environmental Protection Agency.

Deliverables:

- *Draft / Final Initial Site Assessment Report*

2-160.10.85 Hazardous Waste Preliminary Site Investigations

CONSULTANT shall perform an Aerially Deposited Lead (ADL) Survey. A report shall be prepared to transmit the field observations, laboratory data, data evaluation and statistics, and conclusions. The report will include diagrams of sample locations and laboratory results presented in tabular format. CONSULTANT will input the analytical data into a Caltrans format MS Access database and provide an electronic copy to the Client. A

professional geologist (PG) will review/sign the investigation report. Hard copies and or an electronic (.pdf file) of the final report will be submitted after the Client provides written draft report review comments.

Deliverables:

- *Draft / Final Aerial Deposited Lead Survey*

2-160.10.90 Climate Change Analysis (Greenhouse Emission Estimates and Reduction Strategies and Climate Change Adaptation/Resilience)

CONSULTANT will address all efforts to prepare the climate change evaluation and analysis. The quality review for the Climate Change Analysis is included here.

Deliverables:

- *Climate Change Analysis*

2-165.15 Biological Studies

CONSULTANT shall perform biological studies to assess potential impacts to biological resources in the project area. Biological studies perform shall support the environmental determination made in the Environmental Document and shall be used to demonstrate with all applicable biological related laws, regulations, and requirements, including but not limited to, the Federal Endangered Species Act, California Endangered Species Act, Clean Water Act, and the Department of Fish and Game Code. All biological studies performed and reports prepared shall meet Caltrans requirements according to the SER and other pertinent Caltrans guidance. CONSULTANT will be responsible for obtaining any right of entry permits required for field work.

3.165.15.20 Natural Environment Study

CONSULTANT shall perform a general biological study to identify biological resources that could be affected by the project. CONSULTANT may conduct informal consultation with appropriate regulatory agencies. Discussions and negotiations with external agencies as part of this task shall only be performed in consultation with the SBCTA Project Manager or designee.

CONSULTANT shall conduct a literature search, perform field surveys, and prepare a Natural Environmental Study/Minimal Impacts (NES/MI) report analyzing potential impacts to biological resources. The report will be prepared in accordance with Caltrans SER guidance and will conform to the Caltrans NES/MI annotated outline that is available at the time that the NES/MI is initiated. A full NES is not assumed or included. The following tasks will be performed during the preparation of the reports:

- Review of Project Information and Applicable Literature
- Field Evaluation for Biological Resource Constraints
- Technical Report Preparation-A draft NES/MI will be developed based on results of the biological surveys and analysis and will describe:

Deliverables:

- *Draft / Final Natural Environment Study Report*
- *Draft / Final Focus Surveys*

2-165.15.99 Jurisdictional Delineation

For Projects that may impact areas under the jurisdiction of the U.S. Army Corps of Engineers (USACE), Regional Water Quality Control Board (RWQCB), and CDFW, a formal jurisdictional delineation is required utilizing resource agency standard delineation methods. CONSULTANT will delineate aquatic resources within the study area utilizing routine on-site methods. A pedestrian-based field survey of the study area will be conducted using sub-meter GPS accuracy to precisely delineate the boundaries of agency jurisdiction. The field delineation will be augmented through aerial photo review and GIS analysis. The study area will include the Project footprint plus a 100-foot buffer. For the delineation, CONSULTANT will utilize procedures and practices in the following publications and agency guidance documents: USACE Wetland Delineation Manual (1987); USACE Regional Supplement to the Wetland Delineation Manual, Arid West Region, Version 2.0 (2008); and USACE and Environmental Protection Agency's (EPA) Clean Water Act Jurisdiction Following the U.S. Supreme Court's Decision in *Rapanos v. United States & Carabell v. United States* guidance document (2007) as well as standard practices to delineate CDFW lake and stream resources and associated riparian vegetation.

The field survey results will be compiled and presented in a Jurisdictional Delineation Report prepared for the Project that will identify and quantify the limits of USACE wetland and non-wetland waters of the U.S., RWQCB wetland and non-wetland waters of the State, CDFW stream features and associated riparian areas, and MSHCP Riparian/Riverine habitats within the study area boundaries, where present. It will also include figures and maps showing the location of potential jurisdictional resources and a photolog that documents site conditions of specific drainage features. The Jurisdictional Delineation Report will not quantify impacts to jurisdiction resources; rather, impacts will be quantified and included within the NES/MI. The purpose of excluding impacts from the Jurisdictional Delineation Report is to avoid revisiting a final JD document should the Project impact footprint change during subsequent design revisions.

Deliverables:

- *Draft / Final Jurisdictional Delineation Report*

2-165.20 Cultural Resources Studies

CONSULTANT shall perform cultural resources studies to assess potential impacts to archaeological and historic resources in the project area. Cultural studies performed shall support the environmental determination made in the Environmental Document. CONSULTANT will be responsible for obtaining any right of entry permits required for field work.

This scope of work assumes that no archaeological sites will be identified in the Area of Potential Effect (APE) and that no testing and/or evaluation will be required. It is anticipated that an Archaeological Survey Report (Finding of No Archaeological Resources Present) will be prepared and no additional documentation will be required.

Based on a review of the anticipated APE, it is assumed that a Historical Resources Evaluation Report (HRER) will not be needed and no built environment resources will need to be evaluated. If any resources are identified as part of the record search then a scope and fee will be provided for approval prior to conducting this effort.

Following completion and approval of the APE, research, survey, outreach and reporting, a summary document (the HPSR) with attached Archaeological Survey Report (ASR) shall be generated. It is anticipated that the proposed project shall result in an HPSR with a finding that no properties eligible for listing on the NRHP or CRHR are present within the project's APE.

Deliverables:

- *Draft / Final Archaeological Survey Report*
- *Draft / Final Area of Potential Effects/Study Area Map*
- *Native American Consultation*
- *Draft / Final Historical Property Survey Report*
- *Draft / Final Historic Resources Compliance Report*

2-165.25 Draft Environmental Document

2-165.25 Section 4(f)/6(f) Evaluation

CONSULTANT will perform all activities related to preparing a Section 4(f)/6(f) property evaluation, as appropriate.

Deliverables

- *Section 4(f)/6(f) property Evaluation*
- *Documentation of Coordination, if appropriate*

2-165.25.A Public Outreach

The CONSULTANT will support SBCTA's Public Outreach Consultant for the execution of an abbreviated but strategic public outreach program at established venues/sessions by the SBCTA to explain the proposed project, understand community/business concerns, offer opportunities for community feedback and two-way dialogue, and discuss the purpose and need for the project at either a local council or board meeting. CONSULTANT personnel will be available to provide technical details for the SBCTA Public Outreach Consultant in their deliver of materials designed to be bi-lingual and "user friendly" to confirm that the public understands the Project Initiation Document (PID) phase and how to provide valuable input to the delivery team.

CONSULTANT personnel will be available to assist the SBCTA's Public Outreach Consultant in the development of clear and concise project information, produced through an equity lens, and distributed at meetings, through mailings, and electronically through email, web, and social media as necessary.

CONSULTANT personnel will be available to assist SBCTA's Public Outreach Consultant to facilitate developing an online Fact Sheet in English and Spanish for the SBCTA website. The English/Spanish Fact Sheet will be prepared in close collaboration with the technical team. The information produced will be provided to SBCTA staff to be uploaded on the existing SBCTA hosted website for additional ongoing public access during the project's planning phase.

The informational materials will explain and illustrate the potential conceptual design alternatives to be studied further in PA/ED, the purpose and need, anticipated project delivery timeline, potential funding sources, and ways to obtain more information and provide feedback on the proposed project.

CONSULTANT personnel will assist SBCTA's Public Outreach Consultant to produce a brief presentation for stakeholder meetings and as visuals for use at the public outreach workshop. It is expected that any public outreach sessions will occur either online or at a SBCTA provided facility, at SBCTA's discretion.

Deliverables:

- *Attendance and participation at one (1) Public Outreach Webinar or Meeting*
- *Availability to assist SBCTA's Public Outreach Consultant with any and all Project-related communications*
- *Provide technical assistance needed by SBCTA's Public Outreach Consultant to support inquiries from the public*

2-165.25.15 Draft Environmental Document (DED)

CONSULTANT shall consider the scope of the project and results of the environmental technical studies to recommend and obtain direction from Caltrans and SBCTA on the appropriate environmental document to comply with CEQA and NEPA. Based on conceptual design and preliminary information, an Initial Study/Environmental Assessment (IS/EA) appears to be the appropriate CEQA and NEPA environmental document. If an IS/EA is appropriate, CONSULTANT shall prepare a draft environmental document following available templates on the SER. CONSULTANT shall prepare a screen check IS/EA for an initial review. Following concurrence on the screen check IS/EA, CONSULTANT shall prepare a Draft IS/EA.

CONSULTANT shall prepare a Notice of Completion (NOC) and circulate the IS/EA pursuant to SER and the California Office of Planning and Research, State Clearinghouse guidelines. CONSULTANT shall prepare an Environmental Commitment Record (ECR) and will be responsible for the incorporation of applicable environmental conservation measures into the project final design.

Deliverables:

- *DED (IS/EA) including circulation*
- *Notice of Completion*
- *Environmental Commitment Record*

3.170 – PERMITS & AGREEMENTS

3.170.05 Determine Required Permits

CONSULTANT shall perform work to identify all necessary permits to construction the project and obtain all necessary permits and agreements needed for environmental approval. Work as part of this task may include discussions with permitting agencies, preparation of the permit and attachments such as maps and other exhibits identify funds necessary for the permit application and submitting the permit. Discussions and negotiations with permitting agencies shall only be performed in consultation with the SBCTA Project Manager or designee.

Deliverables:

- *Various Environmental Resource Agency Permits Determination*

3.180 PROJECT REPORT & FINAL ENVIRONMENTAL DOCUMENT (FED)

2-180.05.10 Final Project Report

CONSULTANT shall perform work to incorporate comments received, update the information, and complete the Project Report for final Caltrans approval.

Deliverables:

- *Final Project Report*

2-180.05.15 Storm Water Data Report (SWDR)-PA/ED

CONSULTANT shall update and prepare the SWDR according to the latest Caltrans guidelines and procedures.

Deliverables:

- *Draft / Final SWDR – PA/ED*

2-108.10 Final Environmental Document (FED)

CONSULTANT shall update the DED to identify the rationale for selection of the Preferred Alternative. Subsequent to circulation of the FED, CONSULTANT shall prepare responses to comments received from the public and reviewing agencies. Preparation of the responses shall be conducted in consultation with the SBCTA Project Manager or designee. Responses to comments received shall be processed according to Caltrans guidelines. CONSULTANT shall prepare a Mitigated Negative Declaration (MND) and Finding of No Significant Impact (FONSI) for Caltrans approval.

Deliverables:

- *Responses to Comments*
- *FED Quality Control Review Certification*
- *FED (MND/FONSI)*