

**NORTH COUNTY CORRIDOR
TRANSPORTATION EXPRESSWAY AUTHORITY**

ITEM: 3a

SUBJECT:

Amendment #2 to Jacobs Contract

STAFF RECOMMENDATIONS:

By motion, approve the Authority Manager to execute Amendment #2 to the Agreement for Professional Design Services with Jacobs Engineering Group, Inc. for the North County Corridor Transportation Expressway Project for a total contract amount not to exceed \$8,847,838. This amount shall include, without limitation, the cost of any subcontractors, consultants, experts or investigators retained pursuant to Professional Design Service Agreement.

FISCAL IMPACT:

The North County Corridor project is funded by State Transportation Improvement Program (STIP) funds in the amount of \$6,200,000 and up to \$4,900,000 of Regional Transportation Impact Fees (RTIF).

The requested amendment will be funded with \$400,000 of allocated STIP funds and \$2,647,838 of the available RTIF funds.

DISCUSSION:

This item returns to the Board for consideration after being pulled from the June 16th Board Meeting Agenda. Caltrans environmental, Jacobs and NCC staff met earlier that day to discuss the scope of services for the next phase of work. During that meeting several issues were identified that would have impacted the Amendment. Among those issues were level of biological and cultural studies, scheduling, and the possibility of a designation by Federal Highways (FHWA) that this be considered a "high profile project" and subject to FHWA oversight.

During the past two months, the Jacobs' staff, along with Caltrans and NCC staff have diligently developed a detailed scope, cost and schedule. Along with these items, we also developed a risk matrix that summarizes and evaluates our assumptions. The result is a collaboratively built scope, cost and schedule that provide a foundation to move the project forward.

Previously, the NCC Board entered into an Agreement for Professional Services with Jacobs Engineering on July 21, 2008. A Task Order #1, approved on February 11, 2009, increased the Task Order apportionment and time extension, but did not involve additional compensation. The Board approved Task Orders 2 and 3 on March 11, 2009.

The State Route 108 Adoption of the North County Corridor has been successfully completed for the portion of SR 108 between McHenry Avenue and SR 120 east of Oakdale. The California Transportation Commission (CTC) approved four action items at their May 20, 2010 CTC meeting:

1. Accepted the environmental document, Findings of Fact, and Statement of Overriding considerations and approved the project for future consideration of Route Adoption.
2. Adopted Route 108 in the county of Stanislaus from Route 219 and McHenry Avenue north of the City of Modesto to approximately 0.5 miles east of Albers Road south of the city of Oakdale as a freeway.
3. Adopted Route 108 in the county of Stanislaus from approximately 0.5 miles east of Albers Road south of the city of Oakdale to Route 120 approximately six miles east of the city of Oakdale as a controlled access highway.
4. Approved Resolution No. G-10-13 Adoption of 2010 State Transportation Improvement Program with language that “acknowledges the Department’s continued intent to nominate up to \$91 million in the 2012 ITIP for programming of a segment of the North County Corridor – State Route 108 for construction of an ITIP eligible segment with independent utility, and...”

The phase of work to achieve route adoption proved to be more time intensive than originally anticipated. The strategy for route adoption changed on February 18, 2009 when Caltrans Director, Will Kempton, directed that the route adoption would be from SR 108 east of Oakdale to SR 219 (McHenry Avenue) and that the proposed roadway from McHenry Avenue to SR 99 would be considered a local route. Extensive rework of the environmental document was required. This included additional traffic analysis, environmental studies and public scoping meetings to inform the public of the new strategy.

The draft environmental impact report generated over 800 public and regulatory responses to the document. Responding to the comments required revisions to the document and time to address each comment that was not anticipated during the scoping of the original contract.

Coordination with CTC staff, Caltrans staff, Senator Cogdill and CTC Commissioners was required, but unanticipated in the original contract.

The items above resulted in unanticipated costs of approximately \$400,000 to complete the route adoption phase of the project. The expenditures to date are \$2,668,518 leading to the route adoption and \$643,101 leading to the next phase engineering and environmental preparation work subsequent to the previous environmental document preparation. The remaining \$2,488,381 in the original contract will be applied towards the work leading to completion of the next phase of environmental document and project report.

NCC staff requested that Jacobs provide a revised clear scope and proposal to complete the project. That project is defined as a combination of a project-specific description for an identified construction segment within the limits of the project with the remainder of the project and its alternatives being defined as a design footprint of approximately 400 feet in width to allow for meaningful comparison of impacts. The next phase of work will include the following tasks:

1. Complete a “blended” CEQA/NEPA document that will analyze specific alignments from SR 99 to a connection to existing SR 108 east of Oakdale. Within this document, the specific description of the proposed action (e.g., number of lanes, interchange locations, etc.) will be defined, a distinct range of reasonable alternatives will be identified, and the preferred alignment (location) for the route will ultimately be identified.
2. Identify and environmentally clear a constructible phase 1 segment of roadway, with approximately 60% design plans completed. Producing this level of design will allow the

right of way and utility relocation processes to begin as soon as the environmental document is approved. Although the design is “at risk” until the environmental document has been approved, this strategy will expedite the overall schedule.

Within the range of alternatives to be considered, the alternatives for the portion between SR 99 and McHenry Avenue will include both a local road alternative and a state route alternative.

Certification and Record of Decision and Notice of Decision associated with the project would pertain specifically to the funded constructible phase only for construction purposes. The combined document would also allow for right-of-way /corridor preservation. The revised scope will provide for the following key deliverables:

- Project-level environmental studies for the ultimate alignment width
- Decision document for State and Federal funding
- Corridor preservation
- Initial construction segment with 60% design (remaining segment at 30% design)
- Technical environmental studies to identify all impacts for subsequent phases (per commitment in Route Adoption EIR)

The revised scope also includes budget support for:

- CTC and Commissioner coordination
- Support for TAC meetings and agency briefings
- General Plan update support for local agencies
- Oakdale Bypass Right of Way funds recovery for NCC
- Litigation support
- 60% design for a constructible phase 1 segment of road.

The schedule to complete this scope of work will take us to spring of 2014 (approximately 45 months). The cost and schedule were developed with assumptions and identified risks. An extensive risk matrix was developed using the Caltrans model. The matrix lists the assumptions used to develop the scope and rates the risk according to level of impact to cost or schedule.

The estimated total (including expenditures to date) contract cost to complete the project is \$9,445,834. The amount estimated from route adoption to completion is \$6,777,316. Jacobs Engineering, through the Authority Manager’s request, is discounting their fee and some subconsultant fees by 10% for a total discount of \$597,996; bringing the sum for the next phase from route adoption to completion to \$6,179,320 and total contract amount to \$8,847,838.

The new contract amount would require an amendment to the contract in the amount of \$3,047,838.

ATTACHMENT:

Contract Amendment (includes scope, cost and schedule)

**Amendment No. 2. to the
Agreement for Professional Design Services with Jacobs Engineering Group, Inc.
for the
North County Corridor Transportation Expressway Project**

This Amendment is made and entered into on _____, in the City of Modesto, State of California, by and between the North County Corridor Transportation Authority (NCCTEA) and Jacobs Engineering Group, Inc., (“CONSULTANT”), for and in consideration of the promises, and the mutual promises, covenants, terms, and conditions, hereinafter contained.

WHEREAS, Jacobs Engineering Group, Inc. has completed and been fully compensated for Task Order #1 and Task Order #2 as approved by the NCC TEA on March 11, 2009 (except as amended below) that is described as:

Task Order #1:

- Aerial topographic surveys and a portion of base mapping.
- Defining the Route Adoption limits.
- Assist in developing the cooperative agreement with Caltrans.
- Drafted the project charter and risk plan with Caltrans.
- Defining the environmental strategy with Caltrans.
- Issued “Notice of Preparation” for the environmental document.
- Drafted “Purpose and Need” for project.
- Determining the appropriate traffic model and completed data collection.
- Coordinating with local planning documents.
- Developing Public Outreach Communications Plan, project brochure, and conducted four public scoping meetings.
- Initiating environmental technical studies.
- Refined the Scope, Cost and Schedule for subsequent Task Orders.

Task Order #2:

- Route Adoption CEQA Document.
- Route Adoption Report.
- PSR-PDS for entire corridor to enable programming.
- Legislative support.

WHEREAS, additional work was identified and required to complete Task Order #2, and;

WHEREAS, the North County Corridor Project is ready to move forward with Task Order #3 as defined in the March 11, 2009 Board action but is better defined as follows and;

WHEREAS, an adjustment to the amount of compensation as originally stated in the Agreement is necessary to complete the project;

Now therefore, the parties herby agree to amend the Agreement as follows:

**Amendment No. 2. to the
Agreement for Professional Design Services with Jacobs Engineering Group, Inc.
for the
North County Corridor Transportation Expressway Project**

1. Paragraph 1.2 Scope of Services, subparagraph (b) Subsequent Task Orders is amended to read as follows:

Task Order #2:

- Route Adoption CEQA Document.
- Route Adoption Report.
- Project Report for Route Adoption.
- Legislative support.
- California Transportation Commission Support.

Task Order #3:

- Complete a “blended” CEQA/NEPA document that will analyze specific alignments from SR 99 to a connection to existing SR 108 east of Oakdale. Within this document, the specific description of the proposed action (e.g., number of lanes, interchange locations, etc.) will be defined, a distinct range of reasonable alternatives will be identified, and the preferred alignment (location) for the route will ultimately be identified
- Identify and environmentally clear a constructible phase 1 segment of roadway with approximately 60% design plans completed. The parties acknowledge that producing this level of design will allow the right of way and utility relocation processes to begin as soon as the environmental document is approved. Although the design is “at risk” until the environmental document has been approved, this strategy will expedite the overall schedule.

2. Paragraph 2.1 Compensation is amended to read as follows:

2.1. Compensation. Consultant shall be paid in accordance with the fee schedules approved by NCC TEA for each Task Order, which schedules are attached hereto as Exhibit “C” and made a part of the Agreement. Consultants compensation under this Agreement shall in no case exceed a total of Eight Million Eight Hundred and Forty Seven Thousand Eight Hundred Thirty Eight Dollars (\$8,847,838). Unless otherwise agreed to in writing by the parties, the total cost of Task Order #3 shall not exceed \$6,179,320. Said compensation shall include, but not be limited to attached scope of work and schedule.

3. Paragraph 3.1 Commencement and Completion of Work is amended to read as follows:

The professional services to be performed pursuant to the Agreement shall commence within five (5) days after NCCTEA delivers a Notice to Proceed for a specified Task Order. Said services shall be performed in strict compliance with the Project Schedule approved by NCCTEA as set forth in Exhibit “D” attached hereto and incorporated herein by this reference. The Project Schedule may be amended by mutual agreement of the parties. Failure to commence work in a timely manner and/or diligently pursue work to completion may be grounds for termination of this Agreement.

**Amendment No. 2. to the
Agreement for Professional Design Services with Jacobs Engineering Group, Inc.
for the
North County Corridor Transportation Expressway Project**

All other terms and conditions of said Agreement shall remain in full force and effect.

In witness whereof, the parties have executed this Amendment effective on the date written above.

COUNTY OF STANISLAUS

JACOBS ENGINEERING GROUP, INC.

By: _____
Matt Machado, Director
Department of Public Works

Robert Clement
Group Vice President, NIA West
Jacobs Engineering

APPROVED AS TO FORM
John P. Doering,
County Counsel

By: _____
Thomas E. Boze
Deputy County Counsel

North County Corridor Amendment #2

Scope of Services

With the California Transportation Commission (CTC) action of Project Approval and Route Adoption on May 2010, the preparation of a combined California Environmental Quality Act (CEQA)/ National Environmental Protection Act (NEPA) document to define specific North County Corridor (NCC)/SR 108 East alignments within the project limits from SR 99 to a connection to existing SR 108 east of Oakdale will begin. A “Blended” CEQA Environmental Impact Report (EIR) and NEPA document (as a single document) will be prepared. Within the combined CEQA/NEPA document, the specific description of the proposed action (e.g., number of lanes, interchange locations, etc.) will be defined, a distinct range of reasonable alternatives identified, and the preferred alignment (location) for the route ultimately identified.

The CEQA/NEPA document would achieve the following:

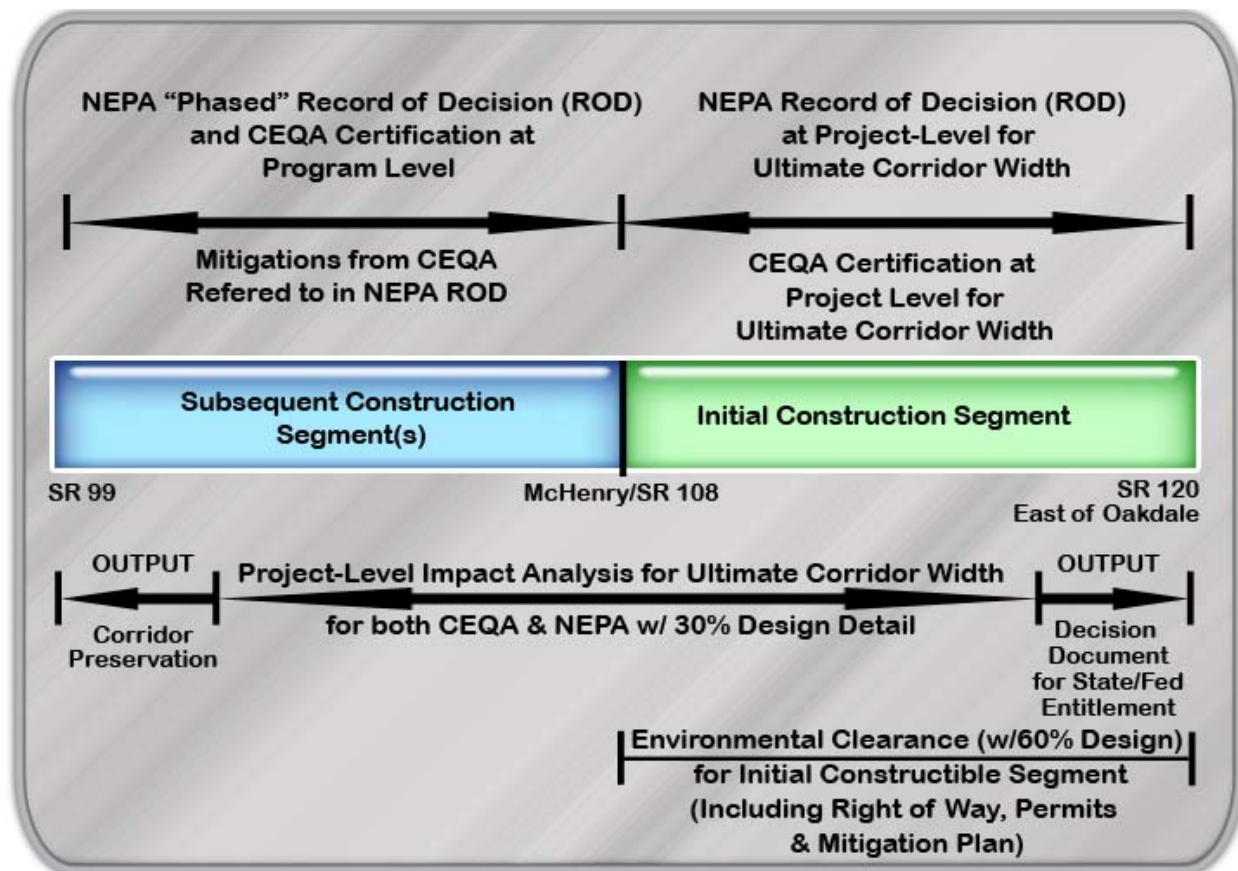
- Qualify the project for future federal funding
- Allow the Joint Powers Authority (JPA) to implement alignment preservation strategies
- Permit the initial constructible segment to begin final design and right of way activities. The EIR/EIS document would identify environmental impacts and mitigation for the constructible segment. Each future segment would be subject to re-evaluation for subsequent environmental documentation for project-specific impacts and mitigation which means that some form of supplemental documentation for each segment can be anticipated (this is not atypical for large public infrastructure projects that compete statewide and nationally for funding sources)

The project description will be defined as a combination of a project-specific alignment for the initial constructible segment within the limits of the project with the remainder of the project and its alternatives being defined as a design footprint of approximately 350 to 400 feet in width to allow for meaningful comparison of impacts. Impact assessments of both initial and future constructible segments will be at a project level; the assessments for future constructible segments, however, will present the types of mitigation measures available to those segments with a disclaimer that specific mitigation measures will be identified if necessary, in subsequent environmental documents. Within the range of alternatives to be considered, the alternatives for the portion between SR 99 and McHenry Avenue will include both a local road and state route alternatives.

Under this approach, Caltrans will serve as CEQA and NEPA lead agency. The JPA will serve as the responsible agency under CEQA and as a cooperating agency under NEPA. Under CEQA, Certification would take two forms – project-level for the initial constructible segment and programmatic for future constructible segments. Under NEPA, the Record of Decision (ROD) would be phased with the first phase of the ROD pertaining only to the initial constructible segment (future phases of the ROD would be applied to future constructible segments upon completion of subsequent NEPA documents for the future constructible segments).

For estimating purposes only, geometric plans for a Draft Project Report will include three approximately 26-mile long build alternatives. Engineering support for a construction-phasing plan for the preferred alternative will culminate in an initial constructible segment that can be programmed with approximately 60% design plans completed. Producing this level of design will allow the right-of-way and utility relocation processes to begin as soon as the environmental document is approved. This strategy will expedite the overall schedule.

We assume this initial construction phase to be a 2-lane roadway with at-grade intersections and no interchanges from SR120 to SR 108/McHenry Avenue.



Throughout the scope of services, references are made to numerical limits, either associated with the number of alternatives to be studied and/or other metrics subject to study in the environmental process. These numerical references are for estimating only for the purposes of inclusion in this scope and are subject to change as an outcome of the environmental process. In the event of such a change, the effects on scope, schedule, and budget will be taken into account. The scope also differentiates Jacobs work from the work performed primarily performed by their subconsultants by showing subconsultant work with *italics*.

Project Management (WBS 100.10)

Project Initiation & Planning (WBS 100.10.05)

Scope of Services:

- Initiation of the EIR/EIS phase of the work involves developing a scope and schedule that is acceptable to the JPA Project Manager and Caltrans. Work to include negotiations with Caltrans and subconsultants to arrive at a cost, scope and schedule along with set of assumptions to deliver the EIR/EIS.
- Work includes preparation of Project Management Plan and Communication Plan. The PMP will include a communication plan to address communication protocols among the lead agency, the responsible/cooperating agency(ies), and consultants by staff type and a Risk Management Plan for assessing risk to cost, scope and schedule
- Jacobs team will research materials related to resolve the issue of preparing financial plan for FHWA. This include meeting with Caltrans, FHWA, JPA staff, etc. Scope also includes internal project kick off meeting with the entire project team, including sub consultants.
- Preparation of Project Charter

Deliverables:

- Approved Scope, Cost and Schedule
- Project Management Plan
- Communication Plan
- Resolution on Financial Plan
- Risk Management Plan
- Project Charter

Execution and Control (WBS 100.10.10)

Scope of Services:

- Update to Project Management Plan
- Submit up to 15 approved schedule updates, to reflect changes in project process and schedule of activities
- Prepare and submit to 45 monthly invoices and progress reports
- Monthly progress updates
- Manage scope, schedule and budget
- Maintain project files in Prime Consultant’s office in a manner that is consistent with Caltrans’ filing requirements in support of an administrative record, if needed
- Provide JPA with project files at close out of contract

Deliverables:

- Approved Project schedule updates (15)
- Monthly Project invoices and progress reports
- Revised Project Management Plan and Risk Management Plan (15)
- Administrative Record

Assumptions:

- The communication plan portion of the PMP will be subject to one review by Caltrans and the JPA
- The PMP will be reviewed three times through the course of the project

Coordination and Meetings (WBS 100.10.15)

Scope of Services:

- Organize, conduct, and document meetings that include the following:
 - monthly Project Development Team (PDT) Meetings (45), that include Consultant Team Leaders, Caltrans and JPA participations,
 - Participation at Caltrans Management Briefings (16).
 - Attendance at CTC Meeting and Coordination with CTC Commissioners (6),
 - Attendance at TAC Meetings, Agency Briefings/Presentations (32),
 - General Plan Update Meetings and Presentations (10),
 - Oakdale By-pass Right-of-Way Abandonment Coordination and Meetings (3),
 - ConAgra Coordination and Meetings (3),
 - One-on-one meetings with key members of the public (6),
 - Focus Meetings for Environmental (20), Design (20) and Traffic (5 conference calls)
 - Contingency for any other Project Coordination Meetings required during the course of the project (10)
 - Weekly team leader coordination conference calls (45 months)
 - Briefing Meetings with Councils, Boards, Supervisors and Management (21)

All meetings will include discussion of work progress, plans for the next period, potential problems, and other project issues.

- Ongoing recommendations for cross-meeting coordination and facilitation and content improvement.

Deliverables

- Agendas and meeting summaries for all meetings

Assumptions

- It is assumed that the Caltrans Management Briefings will taper off after the project gets started.
- It is assumed that the TAC meetings will not occur every month

Quality Control Program (WBS 100.10.20)

Scope of Services:

- Prepare a QA/QC Plan for the environmental document preparation. The plan will include document style requirements and QA/QC processes for all deliverables associated with the CEQA/NEPA processes.
- Perform Independent Third Party quality control reviews by a qualified Jacobs staff member that is independent from the project in accordance with the approved QA/QC Program for the reports, plans, studies, estimates, and other documents submitted. “Continuous” quality control reviews by discipline and task managers and their production staff is included in the respective production tasks. The QA/QC Independent Third Party review is for the separate, milestone independent review of major deliverable documents (e.g., Project Report, Environmental Document and Technical Studies, etc.)

Deliverables

- Environmental QA/QC Plan to include review processes and style guide
- Quality Control reviews of deliverable products, including documentation by the reviewers of their reviews for all deliverables associated with the CEQA/NEPA processes.

Consensus Building and Outreach EIR/EIS (WBS 100.10.99)

Stakeholder Meetings (WBS 100.10.99)

Scope of Services:

- *Schedule, prepare agenda, make arrangements, and attend up to fifteen (15) meetings with key stakeholders to discuss issues of pertinent interest.*
- *Extend invitations, confirm attendance, and provide summary reports of each meeting.*

Deliverables:

- Meetings with key stakeholders
- Summary reports of each meeting with key stakeholders

Public Meetings (WBS 100.10.99)

Scope of Services:

- *Plan and organize public workshops/ meetings/ hearings as part of the environmental process: up to three public workshop (held at separate locations throughout the duration of the project), and two scoping meetings (held in separate locations as a set coinciding with the start of environmental scoping) to update the community on the project and comply with environmental process requirements.*
- *Prepare, print, and distribute notification materials, including, but not limited to, display advertisements and placements, news releases, direct mail, Web site to key stakeholders and the general community.*
- *Prepare and transmit elected officials letters to Caltrans.*

- *Prepare and print/produce meeting materials, including up to 20 exhibit boards, PowerPoint presentations, agendas, FAQs, sign-in sheets, comment sheets, name badges, signage, and refreshments.*
- *Identify appropriate locations to host the workshops for approximately 150 to 200 attendees and make all arrangements.*
- *Arrange for, participate in, follow-up to “dry run” with Caltrans executives.*
- *Organize, conduct, and facilitate workshops.*
- *Arrange for public stenographer at the workshops and scoping meetings.*
- *Document workshops and meeting proceedings, including comments from participants.*
- *Identify key issues of concern among stakeholders*
- *Develop strategic approach to issues management.*
- *Develop recommendations for a program of enhanced multi-cultural involvement.*
- *Supply light refreshments at public meetings*
- *Traditional outreach methods are rarely effective with audiences for whom the processes are unfamiliar. Translated materials are typically inadequate in generating interest and involvement from diverse audiences who may find basic elements, such as right-of-entry requests, invasive and even threatening. These groups may be reluctant to attend public meetings, and suspicious of other contacts. The Jacobs team will assist the Project Team assess the need for multicultural communications and involvement, identify key communities, determine essential resources and develop cultural-specific recommendations for involving those communities in ways which best meet project needs and objectives*

Deliverables:

- Notification materials (workshop/meeting announcements, display advertisements, news releases, elected officials letters, Web site announcements, direct mail)
- Workshop and meeting materials (PowerPoint presentations/exhibit boards (20), agendas, FAQs, sign-in sheets, comment sheets, name badges, signage, refreshments)
- Dry run with Caltrans executives
- Workshop and meeting arrangements
- Meeting Summary Reports including comments provided to a public stenographer at workshops and scoping meetings
- Detailed workshop and meeting summary reports
- Multi-cultural implementation plan.

Assumptions:

- It is assumed Jacobs will provide up to six staff at public meetings.
- Notifications—five: one for each of the three workshops, one to advertise the set of two scoping meetings
 - Advertisements (Modesto Bee; Vida en el Valle, Bilingual Weekly, or Latino Times; Oakdale Leader; Riverbank News)
 - News releases
 - Direct mail
 - Web

- Meeting Materials
 - Exhibit boards (total of 20 for all meetings, one review cycle with Caltrans and JPA)
 - Presentations
 - Agendas (5)
 - FAQs (5)
 - Sign-in sheets (5)
 - Comment sheets (5)
 - Name badges
 - Refreshments (cookies, coffee, tea)
 - Facilitation/attendance at all seven events
 - Summary reports/documentation (5)
 - General logistics (4): one for each of the three workshops, one to advertise the set of two scoping meetings
 - Spanish-language translation of print materials and at workshops, meetings
 - Upcoming postage increases included

Agency Coordination (WBS 100.10.99) 6002 Process

Scope of Services:

- Prepare and administer 6002 Coordination Plan to include regularly scheduled agency coordination meetings
- Conduct an agency scoping meeting at the start of the project
- *Identify and maintain agency representative and key stakeholder list for ongoing coordination and discussion of issues.*

Deliverables

- Agency and key stakeholder contact list
- Information and presentation materials for agency meetings
- Meeting agendas and summaries with action item lists
- 6002 Plan

Assumptions:

- Jacobs will facilitate and attend six (6) agency coordination meetings in accordance with the 6002 Plan.
- The draft 6002 Plan will be subject to one review by Caltrans.
- The Plan will be reviewed twice a year to determine if updates are required
- Meeting location to be determined with JPA and for the convenience of agency members

Database Development and Comment Tracking (WBS 100.10.99)

Scope of Services:

- *Supplement existing contact information using Parcel Quest to identify adjacent property owners and neighbors.*
- *Research and identify additional stakeholders and interested parties.*

- *Develop and maintain database for up to 7,000 contacts for the duration of the contract.*
- *Provide up to four Comment Tracking Reports outlining categories of issues and disposition.*
- *Database will catalog and track comments, issues, and resolutions originally identified by key stakeholders, who include, but are not limited to, community members, property owners, business interests, civic and community organizations, interested agencies, and elected officials.*
- *Database will catalog attendance at workshops and other meetings.*

Deliverables:

- Database with contact information and activity/issues/comments noted
- Comment Tracking Reports, up to four

Assumptions:

- StanCOG, Stanislaus County, Modesto, Riverbank and Oakdale will provide existing contact information in electronic format.
- The JPA and Caltrans will approve/revise proposed database contacts in one review cycle.

Facts Sheets (WBS 100.10.99)

Scope of Services:

- *Develop outlines and appropriate topics for fact sheets (combined document).*
- *Develop content and print three fact sheets in color (kickoff, update, and conclusion of consensus building) to update interested parties on the project development (information and process).*
- *Distribute the three fact sheets as follows:*
 - *Make available at workshops.*

Deliverables:

- Three printed fact sheets

Assumptions:

- Newsletters, fact sheets and other products to be made available for public consumption will be subject to review and approval by the JPA and Caltrans.
- It is assumed newsletters, etc. will be subject to one review by the JPA and by Caltrans
- Jacobs project management maintains responsibility over published materials and therefore must review these materials prior to JPA and Caltrans review

Website Coordination (WBS 100.10.99)

Scope of Services:

- *Coordinate with Caltrans (and JPA) to provide content for project Caltrans Web site at scheduled intervals, including, but not limited to, workshop notifications and summary reports.*
- *Provide project materials for placement on the Caltrans (with link on JPA site) Web site upon approval by JPA.*
- *Develop recommended social media activities and strategies, designed to support website traffic.*

Deliverables:

- Web site updates, including, but not limited to, workshop notifications and summary reports.
- Record of items posted to Web site

Assumptions:

- Jacobs project management maintains responsibility over published materials and therefore must review these materials prior to JPA and Caltrans review
- Caltrans will host the web site
- Web site updates (text and documents) Updates after each set of workshops/scoping meetings/public hearings (approximately 3)
- Updates after an alternative has been screened from consideration (approximately 3)
- Updates as other events warrant (approximately 4)

Media Coordination (WBS 100.10.99)

Scope of Services:

- *Coordinate with JPA staff to identify appropriate contacts for both mainstream (e.g., newspapers, radio, television) and alternative (e.g., community newsletters, Facebook) media.*
- *Maintain media contact list.*
- *Produce and distribute press kits, including news releases and project information, as appropriate, e.g., public workshops.*
- *Track news articles related to the project, distribute to project management, and maintain media coverage file on project.*

Deliverables:

- Media releases
- Media list
- Press kits
- Media coverage file
- Articles to project management

Assumptions:

- All deliverables will be subject to one review cycle by Caltrans and the JPA

Perform Preliminary Engineering Studies and Draft Project Report (WBS 160)

Scope of Services:

- Update Project Information – Prepare PSR-PDS.

- Develop Preliminary Geometric Plans for project alternatives for use in establishing Environmental Study Limit (ESL)
- Prepare Preliminary Right-of-Way Requirements (Maps) for each alternative for use in Right-of-way Data Sheets
- Perform Traffic Forecasts/Modeling, Traffic Operational Analysis and Traffic Study
- Perform Value Analysis for Project
- Perform Structure Advance Planning Studies
- Perform Hydrology/Hydraulics Studies
- Prepare Right of Way Data Sheet
- Define Utilities Requirements for the Project Alternatives
- Review and Perform Railroad Study
- Perform Preliminary Geotechnical Studies
- Perform Structural Preliminary Geotechnical Studies
- Prepare Design Exceptions Fact Sheets
- Develop Project Cost Estimates
- Develop Transportation Management Plan
- Develop Storm Water Data Report
- Prepare Draft Project Report

Assumptions

- Caltrans’ Project Report format will be used
- Traffic analysis done as part of the Route Adoption will be further developed to address Caltrans requirements in Caltrans WBS 160.10.35
- Three Caltrans DRAFT Project Report (PR) review cycle are assumed. The review cycles are defined as the Administrative Draft PR, Draft PR, and Final Draft PR. (NOTE: Final PR is under Task 8)

Updated Project Information – Prepare and Approve PSR-PDS (WBS 160.05)

Scope of Services:

- Prepare and Approve Project Study Report-PDS (PSR-PDS), per Caltrans guidelines. Includes work to prepare draft PSR-PDS, obtain CT draft review, address comments and prepare final PSR-PDS, and obtain CT final review & approval.

Deliverables:

- Draft PSR-PDS
- Approved PSR-PDS

Assumptions:

- All deliverables will be subject to one review cycle by Caltrans and the JPA

- The scope, schedule, and cost data for the PSR-PDS will come from previous studies and the proposed project concept, need and purpose, and alignment alternatives will come from the results of the Public Scoping Meeting.

Traffic Data Collection and Updates (WBS 160.05.20)

The Traffic scope of work presented in this document contains two unique work efforts. One is similar to the scope of work prepared for the North County Corridor State Route 108 East Route Adoption (SR 108 East Project) at a program level, and will have the limits identified in the WBS title as SR99 to SR120/108. The other one is to complete the traffic analysis for the first constructible phase of the project. The first constructible phase of the project has been identified as the roadway segment between McHenry Avenue and SR 120/108 east of Oakdale. The scope for this first constructible phase of the project includes peak hour roadway segment analysis and peak hour intersection level of service analysis for the proposed alternatives. This work effort for the first constructible segment will have the limits identified in the WBS title as “McHenry Avenue to SR120/108.

WBS 160.05.20 - Identify Study Locations and Collect Traffic Data (SR 99 to SR 120/108)

This scope assumes that the same roadway locations evaluated for the SR 108 East Project are the same roadway locations evaluated for this study. A complete list of existing roadway locations is presented at the end of this scope. If this is the case then no new daily roadway volume data will be collected. All of the previous data for the SR 108 East Project will be summarized and presented. Figure 1 attached to this scope of work presents the study roadway segments and existing average daily traffic volumes. The majority of the data was collected in the fall/summer of 2008. Considering that the number of homes and jobs has remained relatively flat for the last several years the data collected in 2008 continues to remain valid.

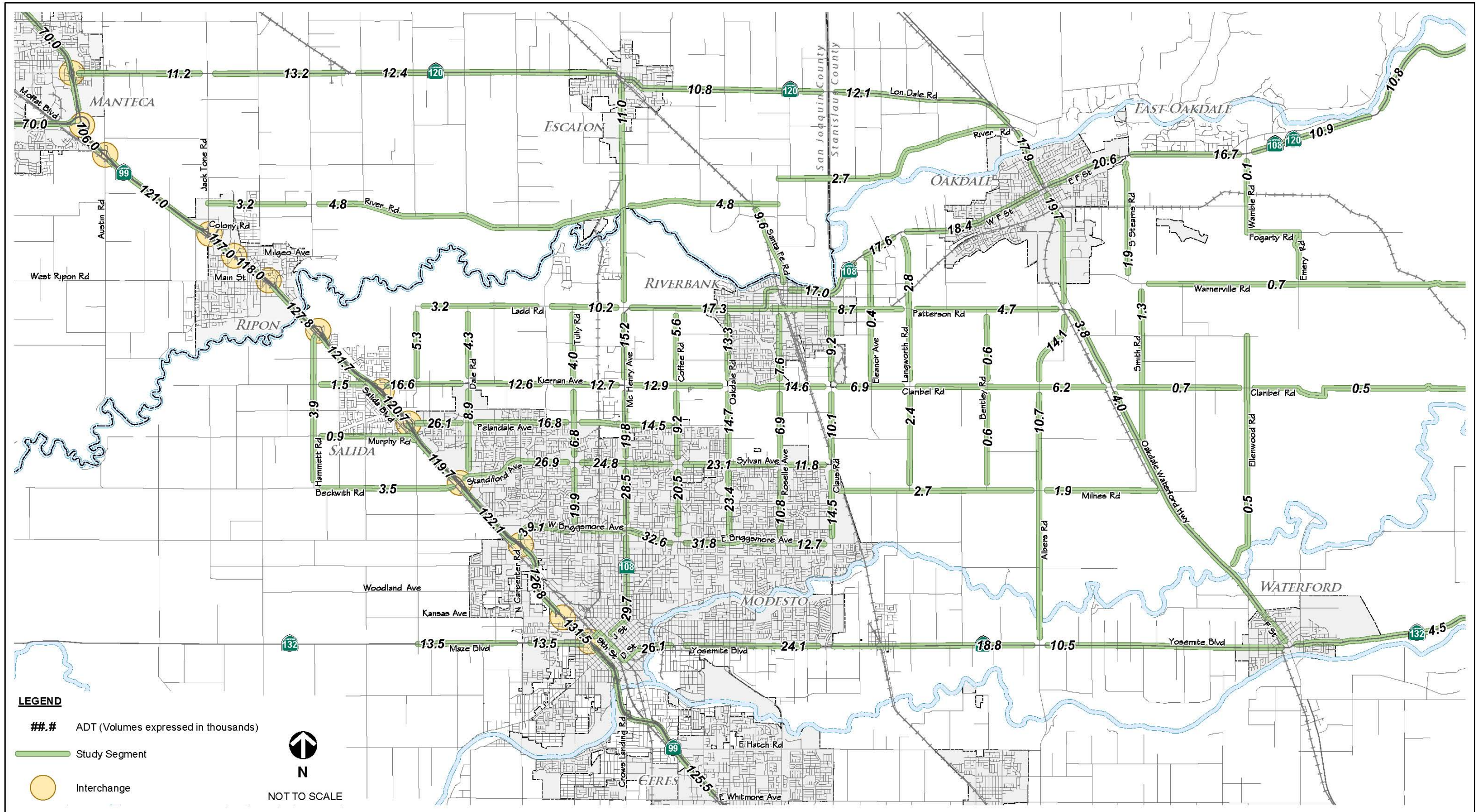


Figure 1: Existing Average Daily Traffic Volumes
(See WBS 160.05.20 SR99 to SR120/108)

WBS 160.05.20 – Identify Study Locations and Collect Traffic Data (McHenry Ave to SR120/108)

As part of the North County Corridor State Route 108 East Route Adoption Project Jacobs team identified the potential changes in traffic volumes in northern Stanislaus County resulting from the implementation of the project. Based on those results (see Figure 2) the project would result in changes primarily along SR 108, Patterson Road, Claribel Road, and Pelandale Avenue. Jacobs team has used this information to help identify the study locations for this study.

Jacobs team, in consultation with the Project Team, will collect existing AM (7-9 AM) and PM (4-6 PM) peak period intersection traffic counts at up to 17 intersections. Jacobs team will also perform peak period field surveys to identify existing geometric features, lane configurations, and traffic control devices at the intersections and roadway locations identified by the Project Team. We will also identify existing queuing issues at each of the study intersections. Jacobs team has identified the following intersections to evaluate (Figure 3 also presents the study intersections):

1. Kiernan Avenue/Tully Road	10. SR 108/1 st Street
2. McHenry Avenue/Ladd Road	11. SR 108/Claus Road
3. SR 108/Kiernan Avenue	12. Claribel Road/Claus Road
4. SR 108/Pelandale Avenue	13. Patterson Road/Crane Road
5. Coffee Road/Claribel Road	14. SR 108/Oak Avenue
6. Coffee Road/Pelandale Avenue	15. SR 108/SR 120
7. Oakdale Road/SR 108	16. Patterson Road/Albers Road
8. Oakdale Road/Claribel Road	17. SR 108/Maag Avenue
9. Oakdale Road/Pelandale Avenue	

In addition Jacobs team proposes to evaluate the following roadway segments (Figure 2 presents the roadway segments and the analysis methodology that will be used to evaluate them):

- *Kiernan Avenue between Tully Road and McHenry Avenue*
- *SR 108 between Ladd Road and Kiernan Avenue*
- *SR 108 between Kiernan Avenue and Pelandale Avenue*
- *SR 108 between McHenry Avenue and Oakdale Road*
- *Coffee Road between SR 108 and Claribel Road*
- *Coffee Road between Claribel Road and Pelandale Avenue*
- *Oakdale Road between SR 108 and Claribel Road*
- *Oakdale Road between Claribel Road and Pelandale Avenue*
- *Claribel Road between SR 108 and Coffee Road*
- *Claribel Road between Coffee Road and Oakdale Road*
- *Pelandale Avenue between McHenry Avenue and Coffee Road*
- *Pelandale Avenue between Coffee Road and Oakdale Road.*
- *SR 108 between Oakdale Road and 1st Street*
- *SR 108 between 1st Street and Claus Road*
- *Patterson Pass between SR 108 and Langworth Road*
- *Roselle Avenue between Patterson Road and Claribel Road*
- *Roselle Avenue between Claribel Road and Sylvan Avenue*

- *Claus Road between Patterson Road and Claribel Road*
- *Claus Road between Claribel Road and Sylvan Avenue*
- *Claribel Road between Oakdale Road and Claus Road*
- *SR 108 between Claus Road and Crane Road*
- *Langworth Road between SR 108 and Claribel Road*
- *Claribel Road between Claus Road and Langworth Road*
- *SR 108 between Crane Road and Oak Avenue*
- *Patterson Road between Crane Road and Albers*
- *Claribel Road between Langworth Road and Oakdale Waterford Highway*
- *SR 108 between Oak Avenue and SR 120*
- *Yosemite Avenue between SR 108 and Patterson Road*
- *Albers Road between Patterson Road and Claribel Road*
- *Oakdale Waterford Highway between Patterson Road and Claribel Road*
- *SR 120 between Yosemite Avenue and Maag Avenue*
- *SR 120 between Maag Avenue and Wamble Road*
- *SR 120 between Wamble Road and Lancaster Road*

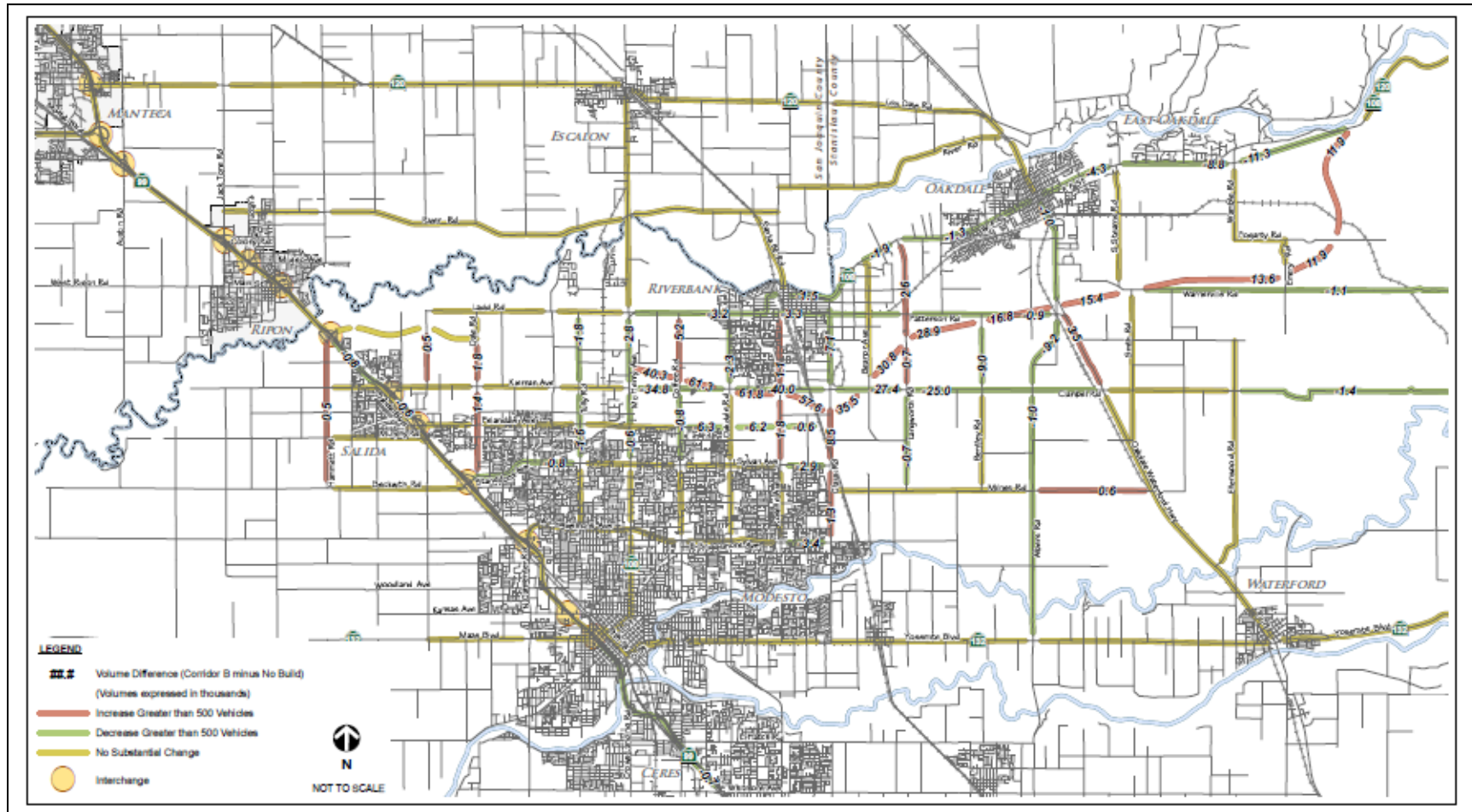


Figure 2: Year 2050 Volume Difference Between Corridor B and No-Build
(See WBS 160.05.20 McHenry Ave to SR120/108)

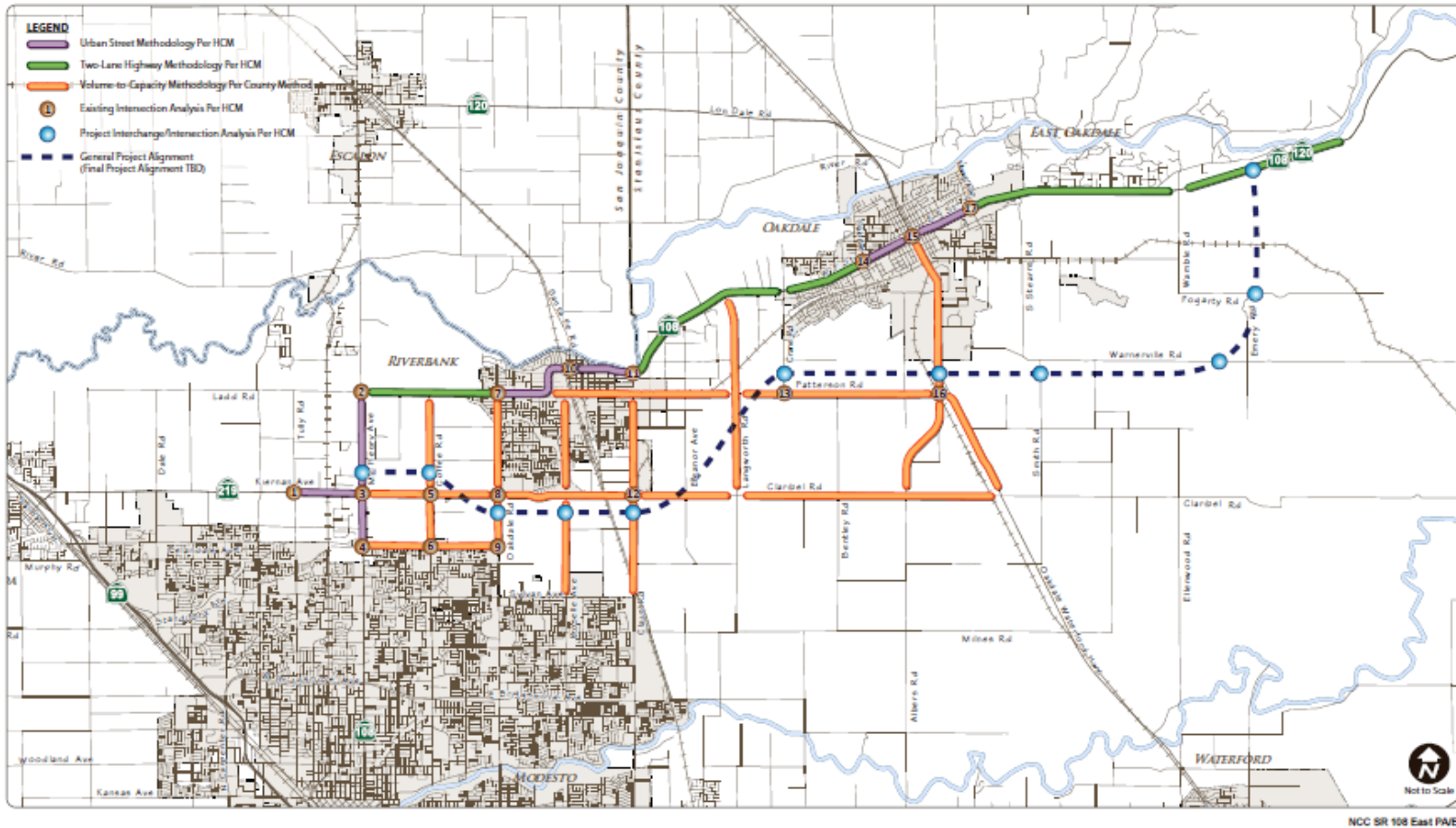


Figure 3: Proposed Study Locations and Analysis Methodology
(See WBS 160.05.20 McHenry Ave to SR120/108)

Deliverables

- Data Collection Report

WBS 160.05.25 - Review Geometrics and Project Alternatives (SR99 to SR120/108)

Jacobs team will work with the Project Team to review and refine up to three Project Alternatives. It is anticipated that the major focus of this task will involve identifying the most appropriate alignment for each of the Project Alternatives and the traffic control that would be necessary at each crossing with an existing or future roadway.

Review Geometrics and Project Alternatives (McHenry Ave to SR120/108) (WBS 160.05.25)

Jacobs team will work with the Project Team to review and refine up to three Project Alternatives.

Traffic Forecasting (WBS 160.10.10)

Scope of Services:

WBS 160.10.10 – Prepare Traffic Forecasts (SR99 to SR120/108)

The same model developed and used for the SR 108 East Project will be used for the NCC Project. The base year model will be updated to reflect any recent infrastructure and land use changes; however, it is anticipated that these will be minimal. For this reason, a focused daily model validation/calibration exercise will not be undertaken in the study area, since it was just performed for the SR 108 East Route Adoption Project and approved by Caltrans.

StanCOG is currently updating the Regional Transportation Plan (RTP). As a result, the future roadway network assumptions and land use assumptions will change from the previous assumptions used for the SR 108 Project. Prior to developing traffic forecasts Jacobs team will work with the project team to identify the appropriate roadway network and land use assumptions to use in the analysis. A technical memorandum will be prepared that summarizes all of the assumptions for review and approval by the PDT.

Opening year and design year traffic daily forecasts will be developed for up to three alternatives including No Build conditions. A detailed analysis (PA/ED) for the section of the corridor between McHenry Avenue and SR 120/108 east of Oakdale is being performed under a separate work scope. For this reason, this work scope will not focus on sizing the corridor between McHenry Avenue and SR 120/SR 108. Instead this work scope will focus on identifying an appropriate planning level footprint for the intersections and interchanges along the corridor between SR 99 and McHenry Avenue. Design hour turning movement forecasts will be determined for each intersection and/or interchange along the corridor between SR 99 and McHenry Avenue. The design hour turning movement forecasts will be determined by multiplying the daily turning movement forecasts by a factor of 9.1%.

Jacobs team will submit a technical memorandum summarizing the traffic forecasts for review and approval by the PDT. Once approved, Jacobs team will proceed with the technical evaluation of the alternatives.

WBS 160.10.10 – Prepare Traffic Forecasts (McHenry Ave to SR120/108)

The version of the StanCOG RTP Model that was updated as part of the Route Adoption will be used to determine opening year and design year intersection and roadway segment peak hour traffic volumes. A focused peak hour model validation exercise will be undertaken in the study area, followed by the use of the model to predict changes in travel patterns in the opening and design year time period. A calibration/validation memorandum will be developed that presents initial model validation procedures and results, to be reviewed with Caltrans. If the model does not meet the

specified Caltrans targets, we will work to improve the validation results by adjusting link characteristics and conducting select link analyses to ensure reasonable movements through the project area. Jacobs team will review the results with Caltrans and if the revised model meets the specified validation target we will proceed with the future year forecasting. However, if the revised model still does not fully meet all of the targets, Jacobs team will review the progress made with Caltrans and request approval to proceed with forecasting.

Opening year and design year traffic forecasts (intersection and roadway) will be developed for up to four alternatives including No Build conditions. Jacobs team will submit a technical memorandum summarizing the traffic forecasts for review and approval by the PDT. Once approved, Jacobs team will proceed with the technical evaluation of the alternatives.

Deliverables:

- Traffic Forecasting Calibration/Validation Memorandum
- Draft and Final Traffic Forecasting Technical Memorandum

Assumptions:

- All deliverables will be subject to one review cycle by Caltrans and the JPA

Geometric Plans for Project Alternatives (WBS 160.10.15)

- Geometric plans for the Draft Project Report will include three (3) alignment alternatives. Plans shall be prepared at 1” = 300’ scale (approximately 1” = 500’ for reduced plans). Appropriate dimensions and features to the design will be labeled. Includes layout plans and typical sections, and CT design geometric review checklist.
- Right-of-Way requirements will be shown. Retaining wall and sound wall locations will be shown with approximate heights. Daylight limits of standard slopes will be delineated.
- Profiles and superelevation diagrams will be provided for the mainline, interchange ramps and cross streets for the three alternatives.

Deliverables:

- Geometric plans for three alignment alternatives, includes layout plans (300 scale), typical sections, profile & supers.

Assumptions:

- Geometric plans for the Draft Project Report will include three (3) alignment alternatives
- The geometric plans will be limited to mainline and interchange locations only. No frontage road layouts will be included.
- All deliverables will be subject to one review cycle by Caltrans and the JPA

Determine Right-of-Way Requirements (WBS 160.10.15)

Scope of Services:

- Determine Right-of-Way requirements for each project alternative. Right-of-Way requirements will be established in Microstation map format and tabulated in Excel

spreadsheet with parcel number identification and area of take required. This information will be used to prepare the RW Data Sheets and to evaluate RW impact & RW cost for each alternative.

Deliverables:

- Tabulated Right-of-Way Requirements (excel spreadsheet) and Right-of-Way Requirements Maps for each alternative.

Assumptions:

- For estimating purposes, the Right-of-Way Requirements will be for 3 alignment alternatives
- All deliverables will be subject to one review cycle by Caltrans and the JPA

Utility Location Requirements (WBS 160.10.15)**Scope of Services:**

- *Research all utility information available from utility owners, public records, and other sources. This information will be transferred to Microstation CADD design file to become a utility reference for preliminary planning and engineering.*
- *Work with Caltrans, USA One-call Center, and the public and private utility companies to determine all utility owners located in or near the project alternatives*
- *Determine and record utility owner key contacts; including engineers, technician, and utility locator personnel or contractors.*
- *Prepare and communicate general project information, as approved by project management, to utility owners. In return, obtain utility as-builts, maps, schematics, and (or) CADD drawings from the utility owners.*
- *Submit preliminary summary reports of all subsurface utilities in the corridor. Prepare CADD drawings with research information. Include variables along with approximate location; such as utility carriage, pipe size, material, and age.*

Deliverables:

- Utility record drawings and contact list
- Utility base mapping

Assumptions:

- All utilities are assumed to need relocation. The notable exceptions are the Hetch Hetchy water and power systems and irrigation district facilities.
- Potholing of existing utilities is not included in the work program at this stage of the project.

60% Design Plans for Constructible Segment (WBS 160.10.16)**Scope of Services:**

- Prepare 60% design plans for the preferred alternative Programmable constructible segment. The phasing plans will be prepared at 1" = 50' scale (approximately 1" = 100' for reduced plans).

- Prepare 60% plan set for the initial construction phase that will include: Title Sheet, typical sections, layouts, preliminary striping, profiles and superelevations, drainage layout plans, existing utility plans, and APS sheets. In addition, an updated construction cost estimate will be included.

Deliverables:

- 60% Design plans and cost estimate for one alternative

Assumptions:

- 60% plans for 2-lane roadway with at-grade intersections and no ICs from SR120 to McHenry
- All deliverables will be subject to one review cycle by Caltrans and the JPA
- Drainage layout plans will be limited to preliminary sizing and profiles.

Value Analysis (WBS 160.10.20)**Scope of Services:**

- *Conduct a Value Analysis (VA) Study to comply with the National Highway System (NHS) VE mandate and follow the Caltrans VA methodology as outlined in the Chapter 19, "Value Analysis" of the Project Development Procedures Manual (PDPM) and detailed in the Caltrans VA Team Guide and Report Guide.*
- *Provide on site team leadership and final report documentation for a six (6) day project studies.*
- *Provide a qualified, independent Certified Value Specialist (CVS), certified by SAVE International and a registered Professional Engineer (PE) with civil/ transportation engineering background.*
- *Provide VA study documentation in accordance with the Caltrans VA Report Guide.*
- *Provide 6-8 additional team members with specific expertise to serve as members of a VA team. This selection of team members will be coordinated with Caltrans and the JPA. The potential team members may include the following disciplines:*
 - *Highway Design*
 - *Traffic Design*
 - *Traffic Analysis*
 - *Hydraulic Design*
 - *Structural Design*
 - *Construction Staging*
 - *Construction*
 - *Environmental Planning*
 - *Other team members to be provided by stakeholder agencies*

Deliverables:

- Draft and Final VA Reports

Assumptions:

- Facility for the VA study to be provided by the JPA

Hydraulics/Hydrology Studies (WBS 160.10.25)**Scope of Services:**

- A hydrology study will be performed based on gross acreage determinations tributary to the proposed drainage systems shown on the Drainage Concept Plans. The analysis will be based on a cfs/acre basis, developed for the differing land uses. A qualitative assessment will be made for existing cross drainage systems to assess its extension through the project.

Deliverables:

- Hydrology Study

Assumptions:

- A detailed hydrology and hydraulic analysis is typically not needed for a PA & ED, and therefore not included in the scope of work.

Drainage Concept Plans (WBS 160.10.25)**Scope of Services:**

- Drainage facilities for the preferred alternative will be evaluated and identified in a qualitative manner. Preliminary profiles will be provided. For determining the extent of drainage improvements, we will identify critical locations for drainage concentration points and develop conveyance systems to accommodate the locations. Rough estimates of design discharges will be developed on gross acreage determinations of tributaries to the proposed drainage systems on a cfs/acre basis. These values will be used to provide preliminary sizing of the drainage systems within the project site. The capacity of existing storm drain systems will be estimated using normal depth calculations to determine if the existing facilities have adequate capacity to accommodate increase in storm water run off resulting from the project.

Deliverables:

- Concept Drainage Plans (Layout only)
- All deliverables will be subject to one review cycle by Caltrans and the JPA

Storm Water Data Report (WBS 160.10.25)**Scope of Services:**

- In accordance with the Caltrans Project Planning and Design Guide dated May 2007, a Storm Water Data Report (SWDR) shall be prepared.
- The SWDR is to include the following information: Project description, identification of the receiving water bodies, geotechnical information, design pollution prevention and post-

construction BMPs proposed, costs, and checklists. Phased construction shall be considered in the report.

- The SWDR will be signed by the Project Engineer and then submitted to JPA and Caltrans for review and approval by the District/Regional Design Storm Water Coordinator, the designated Caltrans Landscape Representative, the designated Caltrans Maintenance Representative, and final approval by the Caltrans Project Manager to verify that storm water quality design issues have been addressed, and the data is complete, and accurate.
- The SWDR will be prepared and revised at the Draft and Final PR phases.

Deliverables:

- Storm Water Data Report (Draft and Final)

Assumptions:

- The SWDR will be prepared for a single alternative (preferred) as there is not a significant differential impact to the main water bodies between the alternatives. Two reviews (three submittals) are assumed for both the Draft and Final SWDR.

Traffic Operational Analysis (WBS 160.10.35)

Scope of Services:

WBS 160.10.35 – Perform Daily Volume to Capacity Analysis (SR99 to SR120/108)

The daily traffic counts will be used to determine existing level of service (LOS) for the same roadway locations identified in WBS 160.05.20. The final daily level of service thresholds and volume to capacity ratios used for the SR 108 East Project will be used for this study. The daily level of service thresholds are presented in the table below and can be modified based on input from the Project Team including Caltrans.

	Daily Capacity (vehicles per lane)			
Facility	2 lanes	4 lanes	6 lanes	8 lanes
Freeway		22,000	22,000	22,000
Class A Expressway		15,000	15,000	15,000
Class B Expressway		12,500	12,500	12,500
Class C Expressway		10,000	10,000	10,000
Majors	10,000	9,000	9,000	
Collectors	5,000	5,000		

This scope assumes that the existing data and analysis prepared for the SR 108 East Project can be used for this study. No new existing conditions analysis will be performed.

The traffic forecasts developed under WBS 160.10.10 will be used to evaluate the study roadway locations for up to three alternatives including No Build conditions. Changes in ADT and level of service as a result of the Project will be determined. In addition, the number of lanes on the North County Corridor to provide acceptable service levels will also be determined. Furthermore, the regional implications of the corridor will also be evaluated by examining additional measures of effectiveness

(MOEs) such as vehicle miles of travel (VMT), vehicle hours of travel (VHT), and vehicle hours of delay (VHD) with and without the Project. The VMT information will be provided in 5 mph speed bins for the same geographic area evaluated in the SR 108 Project.

To identify an appropriate planning level footprint for each intersection and/or interchange along the corridor between SR 99 and McHenry Avenue the design hour turning movement forecasts will be compared against the following guidelines (these can be modified at the request of the Project Team including Caltrans). It is important to note that detailed intersection level of service analysis will not be performed as part of this work scope. Detailed intersection level of service analyses are anticipated to occur at the next phase of the project development process for the section between SR 99 and McHenry Avenue.

Volume					
Lanes	Left-Turn	Through	Right-Turn	On-Ramp Entry	Off-Ramp Exit
1	< 300	< 600	< 500	<1500	< 900
2	300 to 600	600 to 1200	> 500 ²	> 1500	> 900
3	> 600 ¹	1200 to 1800	n/a	n/a	n/a

Notes:

Notes: n/a = not applicable

1 Consideration will be given to finding an alternate design such as loop on-ramps/off-ramps to avoid the need for triple left-turn lanes. 2 Consideration will be given to provide a free right-turn lane when volumes exceed 500 vehicles.

Jacobs team will provide a conceptual geometric schematic of each intersection and/or interchange along the corridor that correlates to the volume thresholds presented above.

WBS 160.10.35 – Perform Traffic Operations Analysis (McHenry Ave to SR120/108)

The intersection traffic counts, lane configurations, signal timings, and other information collected under WBS 160.05.20 will be used to develop existing AM and PM peak hour Synchro models. Synchro provides results consistent with the Transportation Research Board’s 2000 Highway Capacity Manual (HCM) methodology. The Synchro analysis will be converted to micro-simulation (using the SimTraffic software) to determine existing intersection delay and level of service.

The roadway segments identified in WBS 160.05.20 will be evaluated under existing conditions using the methodology identified in Figure 2. Jacobs team will submit a technical memorandum summarizing the existing traffic conditions for review and comment by the PDT.

The traffic forecasts developed under WBS 160.10.10 will be used to develop Synchro models (AM and PM peak hour) for up to three alternatives including No Build conditions. The Synchro models will include the same intersections evaluated under existing conditions plus the new intersections created by the Project. We estimate that up to 20 new intersections could be studied as part of the first phase of the project. Similar to existing conditions analysis the Synchro models will be converted to micro-simulation (SimTraffic) to determine existing intersection delay and level of service. Peak hour analysis will be performed for the opening year and design year under each project alternative. Results will include average delay, level of service, and estimated queue lengths for each intersection.

The roadway segments identified in WBS 160.05.20 will be evaluated under opening year and design year conditions using the methodology identified in Figure 2.

The design of the facility has not yet been established. It can potentially be a two-lane highway, a multi-lane highway, or expressway with grade separated interchanges. Depending on the final design of the project Jacobs team may perform one of the following:

- *AM and PM peak hour two-lane highway analysis or*
- *AM and PM peak hour multi-lane highway analysis*

The mainline analysis will be consistent with the methodologies presented in the 2000 HCM. Weaving analysis, if necessary, will be consistent with the methodologies presented in Chapter 500 (Leisch Method) of the Caltrans Highway Design Manual (HDM).

In addition to peak hour level of service analysis, Jacobs team will utilize the modified StanCOG RTP Model to project peak hour volume changes on project area roadways as a result of the Project. Furthermore, the regional implications of the corridor will also be evaluated by examining additional measures of effectiveness (MOEs) such as vehicle miles of travel (VMT), vehicle hours of travel (VHT), and vehicle hours of delay (VHD) with and without the Project. The VMT information will be provided in 5 mph speed bins.

Deliverables:

- Existing Traffic Conditions Technical Memorandum

Assumptions:

- For the buildable segment analysis, the number of existing study intersections is 17 and the number of new intersections created by the project is less than 20, the number of existing roadway segments is 33, and the number of alternatives studied equals 3,
- For the future buildable segment analysis, the number of study roadway segments is 107 and are the same as the NCC East Route Adoption, and the number of alternatives studied equals 3
- All deliverables will be subject to one review cycle by Caltrans and the JPA

Right-of-Way Data Sheet (WBS 160.10.40)

Scope of Services:

Prepare Right-of-Way Data Sheet(s) in accordance with the Caltrans Right-of-Way Manual for each alignment alternative including the following information:

- *Right-of-Way (ROW) Cost Estimate*
- *Parcel Data*
- *Utility Facility Conflicts*
- *Railroad Facility Conflicts*
- *Identification of previously unidentified hazardous materials*
- *Displacement requirements*
- *Borrow or Disposal Sites required*
- *Potential relinquishments and/or abandonment's*

- *Existing and/or potential Airspace sites*
- *Estimated ROW schedule and lead time*

Deliverables:

- *Right-of-Way Data Sheet(s)*

Assumptions:

- All deliverables will be subject to one review cycle by Caltrans and the JPA

Railroad Study (WBS 160.10.50)

Scope of Services:

- Identify impacted rail lines, including Burlington Northern- Santa Fe Railroad, Union Pacific-Southern Pacific Railroad and Sierra Railroad, operation requirements and expansion plans and prepare a Railroad Information Sheet in accordance with Exhibit 4-EX-1 (REV March 2004) of the Caltrans Right-of-Way Manual (updated March 2007) for the Project Record describing the railroad facilities and types of agreements and right of way required from the railroads.

Deliverables:

- Railroad Information Sheet

Assumptions:

- All deliverables will be subject to one review cycle by Caltrans and the JPA

Park and Ride Study (WBS 160.10.60)

Scope of Services:

- Assess the potential to add park-and-ride facilities within the project corridor for the preferred alternative. Potential locations for park-and-ride facilities will be limited to areas adjacent to existing local access interchanges that are served by or are near existing bus service. Particular focus will be given to (but not limited to) property remainders after acquisitions or associated street modifications. Locations will be recommended (if any) and the approximate number of spaces will be determined. Park-and-ride lot layouts are not included in the scope at this phase of the project.

Deliverables:

- Draft and final Park and Ride Study

Assumptions:

- All deliverables will be subject to one review cycle by Caltrans and the JPA

Traffic Studies (WBS 160.10.70)

Scope of Services:

WBS 160.10.70 – Prepare Traffic Reports (SR99 to SR120/108)

Jacobs team will prepare the Traffic Report summarizing the results and findings. We will submit an Administrative Draft Traffic Report to Jacobs and JPA for one round of review and written comments. We have budgeted up to 16 hours to respond to Jacobs and JPA written comments and prepare the Draft Traffic Report to submit to Caltrans and other PDT members for one round of review and comments. We have budgeted up to 20 hours to respond to comments on the Draft Traffic Report and prepare the Final Traffic Report. We will submit the final report in both hard copy and electronic format.

After approval of the Final Traffic Report, Jacobs team will prepare the transportation chapter of the Environmental Document. This report will build on previous work and will document the proposed project's impact on the transportation and circulation system. The report will also include a qualitative assessment of the impacts of each alternative on bicycle, pedestrian, and transit facilities within the study corridor. Mitigation measures for significant transportation impacts will be identified. Jacobs team has also budgeted up to 16 hours to respond to comments on the public draft environmental document.

STUDY ROADWAY LOCATIONS

	Roadway	Limits
1	SR 120	I-5/SR 99
2	SR 120	SR 99/Jack Tone Rd
3	SR 120	Jack Tone Rd/French Camp Rd.
4	SR 120	French Camp Rd./McHenry Ave.
5	SR 120	McHenry Ave./Victory Ave.
6	SR 120	Victory Ave./River Rd.
7	SR 120	River Rd./F St. (SR 108)
8	SR 120/SR108	Yosemite Ave./Stearns Rd.
9	SR 120/SR108	Stearns Rd./Wamble Rd.
10	SR 120/SR108	Wamble Rd./Lancaster Rd.
11	SR 120/SR108	Lancaster Rd./Kennedy Rd.
12	River Rd.	Jack Tone Rd./McHenry Ave.
13	River Rd.	McHenry Ave./Henry Rd.
14	River Rd.	Henry Rd./SR 120
15	Ladd Rd.	Stoddard Rd./Carver Rd.
16	Ladd Rd.	Carver Rd./McHenry Ave.
17	SR 108	McHenry Ave./Oakdale Rd.
18	SR 108	Oakdale Rd./Claus Rd.
19	SR 108	Claus Rd./Langworth Rd.
20	SR 108	Langworth Rd./Yosemite Ave. (Junction SR 120)
21	Patterson Rd.	Callander Ave./Langworth Rd.

22	Patterson Rd.	Langworth Rd./Bentley Rd.
23	Patterson Rd.	Bentley Rd./Albers Rd.
24	Warnerville Rd.	Smith Rd./Tim Bell Rd.
25	Kiernan Ave./Salida Blvd	Hammett Rd./Pelandale Ave
26	Kiernan Ave.	SR 99/Dale Rd.
27	Kiernan Ave.	Dale Rd./Carver Rd.
28	Kiernan Ave.	Carver Rd./McHenry Ave.
29	Kiernan Ave.	McHenry Ave./Oakdale Rd.
30	Claribel Rd.	Oakdale Rd./Claus Rd.
31	Claribel Rd.	Claus Rd./Langworth Rd.
32	Claribel Rd.	Langworth Rd./Bentley Rd.
33	Claribel Rd.	Bentley Rd./Oakdale-Waterford Hwy
34	Claribel Rd.	Oakdale-Waterford Hwy/Ellenwood Rd
35	Claribel Rd.	Ellenwood Rd/Tim Bell Rd.
36	Murphy Rd.	Hammett Rd./Salida Blvd
37	Pelandale Ave.	SR 99/Dale Rd.
38	Pelandale Ave.	Dale Ave./Tully Rd.
39	Pelandale Ave.	Tully Rd./Coffee Rd.
40	Beckwith Rd.	Hammett Rd./SR 99
41	Standiford Ave	SR 99/Tully Rd
42	Standiford Ave/Sylvan Ave	Tully Rd./Coffee Rd.
43	Sylvan Ave	Coffee Rd./Roselle Ave.
44	Sylvan Ave	Roselle Ave./Claus Rd.
45	Milnes Rd.	Claus Rd./Albers Rd.
46	Milnes Rd.	Albers Rd./Oakdale-Waterford Hwy
47	SR 132	North Dakota Ave./Carpenter Rd.
48	SR 132	Carpenter Rd./SR 99
49	SR 132	SR 99/14th St.
50	SR 132	14th St./La Loma Ave
51	SR 132	La Loma Ave./Claus Rd
52	SR 132	Claus Rd./Albers Rd.
53	SR 132	Albers Rd./Oakdale-Waterford Hwy
54	SR 132	Oakdale-Waterford Hwy/Reservoir Rd.
55	SR 99	Lathrop Rd./SR 120 West
56	SR 99	SR 120 West/Austin Rd.
57	SR 99	Austin Rd./Jack Tone Rd.
58	SR 99	Jack Tone Rd./Milgeo Ave.
59	SR 99	Milgeo Ave./2nd St.
60	SR 99	2nd St./Hammett Rd.
61	SR 99	Hammett Rd./Kiernan Ave.
62	SR 99	Kiernan Ave./Pelandale Ave.
63	SR 99	Pelandale Ave./Standiford Ave.
64	SR 99	Standiford Ave./Briggsmore Ave.
65	SR 99	Briggsmore Ave./Kansas Ave.

66	SR 99	Kansas Ave./SR 132
67	SR 99	SR 132/Hatch Rd.
68	Hammett Rd.	Beckwith Rd./SR 99
69	Stoddard Rd.	Kiernan Ave./Ladd Rd.
70	Dale Rd.	Standiford Ave./Kiernan Ave.
71	Dale Rd.	Kiernan Ave./Ladd Rd.
72	Tully Rd.	Briggsmore Ave./Standiford Ave.
73	Tully Rd.	Standiford Ave./Kiernan Ave.
74	Tully Rd.	Kiernan Ave./Ladd Rd.
75	McHenry Ave.	SR 132/Briggsmore Ave.
76	McHenry Ave.	Briggsmore Ave./Standiford Ave. (Sylvan)
77	McHenry Ave.	Standiford Ave. (Sylvan)/Kiernan Ave. (Claribel)
78	McHenry Ave.	Kiernan Ave. (Claribel)/Ladd Rd. (Patterson)
79	McHenry Ave.	Ladd Rd. (Patterson)/SR 120
80	Coffee Rd.	Briggsmore Ave./Sylvan Ave.
81	Coffee Rd.	Sylvan Ave./Claribel Rd.
82	Coffee Rd.	Claribel Rd./SR 108
83	Oakdale Rd.	Briggsmore Ave./Sylvan Ave.
84	Oakdale Rd.	Sylvan Ave./Claribel Rd.
85	Oakdale Rd.	Claribel Rd./Patterson Rd.
86	Roselle Ave.	Briggsmore Ave./Sylvan Ave.
87	Roselle Ave.	Sylvan Ave./Claribel Rd.
88	Roselle Ave.	Claribel Rd./Patterson Rd.
89	Santa Fe Rd.	SR 108/River Rd.
90	Claus Rd.	Briggsmore Ave./Sylvan Ave.
91	Claus Rd.	Sylvan Ave./Claribel Rd.
92	Claus Rd.	Claribel Rd./Patterson Rd.
93	Eleanor Rd.	Clarible Rd./SR 108
94	Langworth Rd.	Milnes Rd./Claribel Rd.
95	Langworth Rd.	Claribel Rd./SR 108
96	Bentley Rd.	Milnes Rd./Claribel Rd.
97	Bentley Rd.	Claribel Rd./Patterson Rd.
98	Albers Rd.	SR 132/Claribel Rd.
99	Albers Rd.	Claribel Rd./Oakdale-Waterford Hwy (Patterson)
100	Albers Rd.	Oakdale-Waterford Hwy/Warnerville Rd.
101	Albers Rd.	Warnerville Rd./F St. (SR 108,120)
102	Oakdale-Waterford Hwy	SR 132/Claribel Rd.
103	Oakdale-Waterford Hwy	Claribel Rd./Albers Rd.
104	Smith Rd.	Oakdale-Waterford Hwy/Warnerville Rd.
105	Stearns Rd.	Warnerville Rd./SR 120 (SR 108)
106	Ellenwood Rd.	Alvarado Rd./Oakdale-Waterford Hwy
107	Wamble Rd./Fogarty Rd./Emery Rd.	Warnerville Rd./SR 120 (SR 108)

WBS 160.10.70 – Prepare Traffic Reports (McHenry Ave to SR120/108)

Jacobs team will prepare the Traffic Operations Report summarizing the results and findings. We will submit an Administrative Draft Traffic Operations Report to Jacobs and JPA for one round of review and written comments. We have budgeted up to 16 hours to respond to Jacobs and JPA written comments and prepare the Draft Traffic Operations Report to submit to Caltrans and other PDT members for one round of review and comments. We have budgeted up to 20 hours to respond to comments on the Draft Traffic Operations Report and prepare the Final Traffic Operations Report. We will submit the final report in both hard copy and electronic format.

After approval of the Final Traffic Operations Report, Jacobs team will prepare the transportation chapter of the Environmental Document. This report will build on previous work and will document the proposed project's impact on the transportation and circulation system. The report will also include a qualitative assessment of the impacts of each alternative on bicycle, pedestrian, and transit facilities within the study corridor. Mitigation measures for significant transportation impacts will be identified. Jacobs team has also budgeted up to 16 hours to respond to comments on the public draft environmental document.

Deliverables:

- Traffic Operations Report
- Text for the Traffic Section of the Environmental Document
- Text for the Traffic Section of the Project Report

Assumptions:

- All deliverables will be subject to one review cycle by Caltrans and the JPA

Geotechnical Information (WBS 160.10.80)**Scope of Services:**

- *Review design documents, including Caltrans As-Built LOTB's, Foundation Reports, and Geotechnical Design Reports for existing structures and roadway improvements along the project alignment. Review our in-house local and regional geologic and seismic hazards maps pertaining to the site.*
- *Conduct a site geologic reconnaissance of the immediate vicinity and determine drill rig accessibility and mark boring locations for Underground Service Alert (USA). Obtain encroachment and boring permits from Stanislaus County.*
- *Perform a limited subsurface exploration at the locations shown below:*

Structure Areas	Subsurface Exploration
Intersection of Claus Rd. and Plainview Rd.	One boring to 75 feet
3000 ft south of Patterson Rd. on Langworth Rd.	One boring 50 to 75 feet
Intersection of Patterson Rd. and Oakdale Waterford Hwy.	One boring to 75 feet
Intersection of Warnerville Rd. and S. Stearns Rd.	One boring to 50 feet
2000 ft east of Stoddard Rd. on Warnerville Rd.	One boring 50 feet
4000 ft southwest of Lancaster Rd. and OID* south main canal intersection.	One boring to 50 feet

*OID-Oakdale Irrigation District

- *Borings can be located off of the existing roadways and that traffic control at most will consist of safety signs/cones for shoulder work without flagmen.*
- *Perform the following laboratory tests on relatively undisturbed samples obtained from the exploratory borings:*
 - *Moisture Content and Unit Weight*
 - *Triaxial Compression for bearing capacity and lateral pile capacity*
 - *Sieve analysis*
 - *Plasticity Index*
 - *Soil corrosivity*
- *Prepare Preliminary Foundation Memos for the project which will include the following:*
 - *Summary of Site Geology and Subsurface Conditions*
 - *Project Location*
 - *As-Built Log of Test Borings for Existing Nearby Structures*
 - *Log of Test Borings for our Preliminary Subsurface Exploration*
 - *Preliminary Seismic Data and Evaluation (including ARS curve)*
 - *Preliminary Liquefaction Evaluation*
 - *Preliminary Corrosion Evaluation*
 - *Preliminary Foundation Recommendations*
 - *Evaluation of embankment settlement, cut/fill slope stability, scour, soil corrosivity, and constructability issues*
 - *Recommendations for Additional Field Work and Laboratory Testing*

Deliverables:

- Draft Preliminary Foundation Memo (Type Selection) – Claus Road/Mid Main Canal, and McGee Avenue/Claribel Structures
- Draft Preliminary Foundation Memo (Type Selection) – Langworth Road, Bentley Road, Kaufman Road, Patterson Road, Albers/Brichetto, and Claribel/South Lateral Structures
- Draft Preliminary Foundation Memo (Type Selection) – OID South Main, Union, and Kearnic Laterals

- Draft Preliminary Foundation Memo (Type Selection) – Sierra RR and OID South Main Structure
- Final Preliminary Foundation Memo (Type Selection) – Claus Road/Mid Main Canal, and McGee Avenue/Claribel Structures
- Final Preliminary Foundation Memo (Type Selection) – Langworth Road, Bentley Road, Kaufman Road, Patterson Road, Albers/Brichetto, and Claribel/South Lateral Structures
- Final Preliminary Foundation Memo (Type Selection) – OID South Main, Union, and Kearnic Laterals
- Final Preliminary Foundation Memo (Type Selection) – Sierra RR and OID South Main Structure

Assumptions:

- We assume the County will waive the encroachment permit fee.
- The preliminary Foundation Memo should only be used for advanced planning as additional subsurface exploration; laboratory testing and analysis will be required to prepare Final Foundation Reports for design of each bridge.
- All deliverables will be subject to one review cycle by Caltrans and the JPA

Preliminary GDR/Materials Report (WBS 160.10.80)

Scope of Services:

- *Review documents provided by the design team, including Caltrans As-Built LOTB's, Foundation Reports, and Geotechnical Design Reports for existing structures and roadway improvements along the project alignment. To evaluate site geology and seismic conditions, we will review our in-house local and regional geologic and seismic hazards maps pertaining to the site.*
- *Perform R-value testing on relatively undisturbed samples obtained during our preliminary foundation memo exploration.*
- *Prepare a Preliminary Geotechnical/Materials Report for the project alignment including the following:*
 - *Project description*
 - *Summary of site geology and subsurface conditions*
 - *As-built LOTB for existing structures along the alignment*
 - *LOTBs for our limited subsurface exploration*
 - *Discussion of potential geotechnical/material issues for design*
 - *Preliminary pavement sections.*

Deliverables:

- Draft Preliminary Geotechnical/Material Report
- Final Preliminary Geotechnical/Materials Report

Assumptions:

- All deliverables will be subject to one review cycle by Caltrans and the JPA

- The preliminary Geotechnical/Materials Report should only be used for advanced planning as additional subsurface exploration; laboratory testing and analysis will be required to prepare Final Geotechnical and Material Design Reports for the proposal improvements.

Structure Advance Planning Study (APS) (WBS 160.10.85)

Scope of Services:

- *Based on the proposed roadway geometrics and preliminary project information, the APS will be prepared in accordance to the Caltrans' Office of Special Funded Project Procedures Guide. As part of the APS tasks, a feasible type of structure will be developed with associated cost appropriate for the specific location. The preliminary foundation report and the structure foundations will be reviewed to determine preliminary foundation type. A review the preliminary hydraulic report and coordination with the project hydraulic engineer as required to develop the proper structure layout to meet the requirements in the report will be performed. These APS will be used to develop structure costs and impacts for all the alternative alignments.*

Deliverables:

- APS Report per bridge includes: a bridge APS exhibit, APS Checklist, an APS design memo, and Itemized cost estimates consistent with Project Report requirements.

Assumptions:

- All deliverables will be subject to one review cycle by Caltrans and the JPA
- APS will not be prepared for each of the structures within the corridor but will be for those structures that will be a representative of a group type as mutually agreed upon. In general, the structures will be grouped as follows:
 - Canal Crossings
 - Undercrossings
 - Overcrossings
 - Overheads
 - 3 additional unique structures.
- No preliminary hydraulic report will be required for the canal crossings.

Preliminary Transportation Management Plan (WBS 160.10.95)

Scope of Services:

- The preliminary Transportation Management Plan (TMP) and corresponding worksheets will be developed for each of the three project alternatives based on Caltrans current guidelines.

Deliverable:

- Preliminary TMP

Cost Estimates for Alternatives (WBS 160.15.05)

- Provide cost estimates for three (3) alternatives based on Caltrans Project Development Procedures Manual guidelines for Project Report cost estimates. An independent review by JPA of the cost estimates will be performed.

Deliverables:

- Project Report Cost Estimates

Fact Sheet for Exceptions to Design Standards (WBS 160.15.10)**Scope of Services:**

- Identify all non-standard design features based on the Design Checklist (DIB 78-02) for the preferred alternative. Fact Sheets will be prepared for exceptions to Mandatory and Advisory standards for the selected alternative only.

Deliverables:

- DIB 78-02 Design Check List of Non-Standard Features for the selected alternative
- Fact Sheets for Exceptions to Design Standards for selected alternative

Assumptions:

- Up to four submittals (three review cycles) of the Fact Sheets are assumed.

Draft Project Report (WBS 160.15.20)**Scope of Services:**

- Prepare a Draft Project Report based on the Caltrans Project Development Procedures Manual (PDPM) Appendix K. A preliminary Draft Project Report will be submitted to JPA and Caltrans for review and comment. Following receipt of one consolidated set of comments, a comment review workshop will be held with the respondents to review their comments and provide appropriate responses. A Final Draft Project Report will be prepared and submitted for review and approval. Up to four submittals (three review cycles) of the Draft Project Report are anticipated.

Deliverables:

- Preliminary Draft and Final Draft Project Report

Circulate, Review and Approve Draft Project Report (WBS 160.15.25)**Scope of Services:**

- Once the Final Draft Project Report has been submitted for review and approval, the project manager will work with JPA and Caltrans to obtain the appropriate signatures. If issues or questions arise during the approval phase, the team will work with staff to answer any remaining questions, provide additional information, and obtain signatures as appropriate.

Deliverables:

- Signed Draft Project Report

Aerial Mapping/Photogrammetry (WBS 160.20.55)**Scope of Services:**

- Provide additional mapping if needed to supplement the mapping completed during the Route Adoption phase, in cooperation with Caltrans, for the proposed improvements from State Highway 99 to State Highway 108/120 and will supplement the approximate 26 miles that has already been mapped. The proposed survey will include approximately 2 additional miles of proposed route outside the existing project limits as well as additional photogrammetric mapping within the existing project limits. All surveys will be based on Caltrans specified horizontal and vertical control datums. We will collect and deliver all surveys in project data using reflectorless and/or GPS survey equipment. All work will be performed by or under the direct supervision of a licensed professional qualified to perform land surveying in the State of California. We will perform project control surveys and mapping consistent with Project Report and Environmental Document requirements. Surveying and mapping activities will provide base information on existing physical conditions within the revised project limits.

Survey Control

- Supplement the existing primary project control network with the number of points required to map the area outside the existing project limits. Photo control will be established so that aerial mapping will comply with National Map Accuracy Standards.

Aerial Topographical Mapping

Prepare new aerial mapping in English units for a specific area containing approximately 2 miles of proposed roadway outside the existing project limits as well as additional mapping within the existing project limits. The newly proposed area encompasses East Lexington Road between Crane Road and Kaufman Road. New Aerial photography is planned to supplement the existing block coverage and to encompass the alternative corridor. The flight pattern provides enough photography so that minor variations for the corridor have sufficient stereographic photo coverage for potential mapping. Photography will be acquired in color and scanned at a resolution of 12 microns. Photography will be taken at an altitude of 3600 feet above mean elevation with an average photo scale of 1:7200. From the photography a seamless digital color ortho photo will be produced at a pixel resolution of .5' (GSD). Digital mapping will be compiled to produce 2' contours and planimetry for 3 miles of corridor mapping at a width of 1000' with wider mapping at selected major intersections and other areas of interest. All mapping products will meet or exceed ASPRS Class 1 map accuracy standards.

Utilizing the control and Analytical Aerotriangulation, adjustment, scanned imagery and DTM data collected we will rectify the imagery and create a seamless color digital ortho photo covering the project area at a pixel resolution .5' (GSD)

- Final digital mapping files will be in accordance with Caltrans specifications and will be delivered in 3-D MicroStation design (DGN) and DTM files

- Two (2) sets of 9"x9" color contact prints
- One (1) CD-ROM containing 1"=100' planimetrics with 2' contours and DTM topographic mapping data in DGN format, 0.5' GSD color orthophotography in .TIF with TFW format.

Base Map

Aerial mapping, field design surveys, and GIS parcel information will be combined with existing project surveys to produce a project base map. Spot elevation will be shown and contours will be generated at 2' intervals. The base map will show assessors parcel lines, section corner monuments, right-of-way lines, roadways, drainage facilities, railroad tracks and facilities, levees, structures, fences, driveways, poles, streetlights, trees, and vegetation limits. A field review of the topographic survey will be performed to ensure adequate topographic features are tied and quality is assured. Plotted cross section exhibits are not included in this scope of services.

The exact boundary lines of individual parcels will not be determined by field survey methods but the parcel lines as defined in the Stanislaus County GIS information will be incorporated into the base drawing.

Deliverables:

- Topographical mapping, base mapping and color aerial photographs

Assumptions:

- The exact boundary lines of individual parcels will not be determined by field survey methods but the parcel lines as defined in the Stanislaus County GIS information will be incorporated into the base drawing
- The assumptions in preparing the aerial mapping include the following:
 - Set Ground Control and Premarks (using Caltrans Requirements for airborne GPS)
 - Perform Aerial Photogrammetry
 - Calibrated aerial mapping camera with 6-inch total length lens
 - color aerial negative film
 - Photography will be taken at 3600 feet above mean elevation with average scale of 1:7200
 - Digital topographic map compilation in MicroStation Caltrans format
 - Map scale of 1" = 100' with 2-foot contour intervals
 - Final contours will be generated from the DTM
 - Map will adhere to Caltrans cartographic standards and project specifications

Perform Environmental Studies and Prepare Draft Environmental Document - EIR/EIS - Circulate Draft Environmental Document and Select Preferred Project Alternative (WBS 165)

Environmental Study Request

Surveys And Mapping For Environmental Studies

Scope of Services:

- Identify and obtain all mapping information needed to initiate environmental studies .

Deliverables:

- List of required mappings

Property Access Rights For Environmental/Engineering Studies (PTE letters)

Scope of Services:

- Prepare Permit to Enter (PTE) letters for mailing out to property owners within the area of proposed alternatives.

Deliverables:

- Mailing list boundary map with APN information
- PTE Letters

Assumptions:

- One round of Caltrans and JPA review of PTE letters
- County will provide the address list for identified property owners to whom PTE letters will be sent

Environmental Scoping of Alternatives Identified for Studies in PID (WBS 165)

Project Information Review (WBS 165.05.05)

Scope of Services:

- Review all pertinent information to the environmental process in preparation for the NEPA/CEQA Scoping process.

Public and Agency Scoping Process (WBS 165.05.10)

Scope of Services Summary:

- This task is for preparing required notices and filings for the scoping meeting. Key tasks include:
 - Prepare CEQA Notice of Preparation (NOP) including an attached CEQA initial study (IS) documented anticipate impacts of the proposed project.
 - Prepare draft NEPA Notice of Intent (NOI) for transmittal for Caltrans for publication in the Federal Register.
 - Compile distribution lists for NOI/NOP and general public notices.

Deliverables:

- NOI/NOP
- CEQA Initial Study

Alternatives for Further Study (WBS 165.05.15)

Scope of Services:

- Based on outcome of the public and agency Scoping process and consultation with the PDT, the team will document the alternatives screening process including JPA and CALTRANS' concurrence on the alternatives to be assessed in the DED.

Deliverables:

- Alternatives Screening Report

Assumptions:

- For estimating purposes, it is assumed as many as 12 alternative alignments initially will be considered in screening in association with modal alternatives
- Screening will be a three tier process to narrow the number of build alternatives down to a full range of reasonable alternatives for detailed study
- Screening criteria will be multidisciplinary and will include purpose and need (to be prepared in an administrative draft form prior to alternatives screening)

General Environmental Studies (WBS 165.10)

Scope of Services:

- Conduct environmental analyses consistent with requirements of the Caltrans Central Region Standard Environmental Reference (SER), the FHWA T6640.8A technical advisory, and applicable agency guidance's for regulated resources.
- This document describes technical studies anticipated for the project. Should additional studies be requested by project team members or resource agency representatives, scopes of services for the additional work will be prepared assuming the requested additional studies are deemed to be warranted by the project team.

Deliverables:

- Draft and final environmental technical reports

Assumptions:

- Each technical report will be subject to two Caltrans reviews before finalizing.
- Technical reports will consider three build alternatives and one no-build alternative for estimating purposes only.
- Technical analyses will include existing, opening day and design year conditions as appropriate for each technical condition
- All mapping and design files will be available at the time studies commence.
- Technical studies will be prepared in accordance with Caltrans Central Region templates

Community Impact Analysis, Land Use, and Growth Studies (WBS 165.10.15)**Scope of Services:**

- *Prepare a Community Impact Assessment (CIA) report following the Caltrans CIA handbook (SER).*

Deliverable:

- Draft, revised draft and final CIA report

Visual Impact Assessment and Scenic Resources Evaluation (WBS 165.10.20)**Scope of Services:**

- *Prepare a visual impact assessment using the FHWA/ASLA impact guidance. The analysis will include the preparation of before and after photo-simulations (up to 26) on which changes to the quality of the visual environment will be determined.*

Deliverable:

- Draft, revised draft and final Visual Impact Assessment report including photo-simulations.

Noise Study (WBS 165.10.25)**Scope of Services:**

- *Prepare a noise study report (NSR) evaluating the noise impacts and potential noise abatement measures associated with the assumed three build alternatives. Because federal funding and Caltrans oversight is assumed to be involved, the noise study must 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).*
- *The NSR will be prepared to address the requirements of 23CFR772 in accordance with the Protocol. The report will provide information that can be used for the CEQA/NEPA noise impact assessment but will not specifically address CEQA/NEPA impacts. These impacts will be addressed in the EIR/EIS for the project based on significance determinations made by the Project Design Team. The field investigation, noise*

impact modeling, and report preparation will be prepared in accordance with the Caltrans Traffic Noise Analysis Protocol (Protocol).

- *An initial review of the study area indicates that land uses along the proposed alignments are primarily agricultural and commercial uses. There are however a number of isolated rural residences, several mobile home parks, a school, and a few residential subdivisions in the area. Noise impacts will be evaluated in detail at these existing noise sensitive locations.*
- *A field noise study will be conducted to quantify and assess existing noise conditions at the noise-sensitive areas in the project area. Sound-level data will be collected over a 10- to 15-minute period at selected times throughout the day at selected locations in the project area. In addition, continuous 24-hour noise monitoring will be conducted at up to six locations in the study area if secure locations can be found.*
- *We will conduct traffic noise modeling related to the project alternatives using the FHWA Traffic Noise Model (TNM) Version 2.5 and traffic data provided by the project traffic engineer. TNM will be used to assess worst noise hour noise conditions at selected receiver locations under the following conditions:*
 - *Existing*
 - *Design year under no project conditions*
 - *Design year under three build alternatives*
- *Traffic noise impacts of each alternative will be assessed by determining if implementation of the project is projected to result in traffic noise impacts as defined in the Protocol. If traffic noise impacts are projected to occur, information on the feasibility and reasonableness of noise abatement as defined in the Protocol will be evaluated and presented in the report. If appropriate the NSR also will include a preliminary noise abatement design to schematically identify the location, height, and extent of noise barriers needed to abate noise impacts. In accordance with Protocol guidance, description of the sound walls will be sufficient for environmental review, but not for final design of the walls. Construction noise impacts will be evaluated using methods recommended by the U.S. Department of Transportation.*
- *Prepare the Noise Abatement Decision Report (NADR) for the proposed project in accordance with the Protocol. The NADR will summarize noise abatement allowances for barriers determined to be acoustically feasible in the Noise Study Report. The allowances will be compared to construction cost estimates for each barrier (provided by Jacobs Engineering) to determine the cost reasonableness of each barrier. The NADR will also discuss the non-acoustic engineering feasibility of the proposed barriers and the effects of proposed barriers on other resources (i.e. cultural, biological, visual).*

EIR/EIS Section

- *Prepare the noise chapter of the EIR/EIS based on the results of the noise study described above. In the setting section of the EIR/EIS background information on noise will be discussed and the existing noise environment will be described based on noise measurements conducted in the area. Caltrans noise standards will be summarized and discussed.*
- *In the impact section of the EIR/EIS, thresholds for the significance for noise impacts will be defined based on Caltrans noise standards and guidance to be provided by the Project Design Team. Construction noise impacts identified in the noise study report will also be summarized.*
- *The significance of project-related noise impacts will be evaluated under CEQA and NEPA based on the predicted noise levels and the defined significance criteria. Where significant noise impacts are identified, mitigation to reduce impacts to a less-than-significant level (where feasible) will be identified.*

Deliverable:

Draft, revised draft, 2nd revised draft, and final Noise Study Report.

- Draft, revised draft, 2nd revised draft, and final Noise Abatement Decision Report
- EIR/EIS Section (initial draft and 1st and 2nd revised draft)

Assumptions:

- It is assumed that future proposed noise sensitive land uses (i.e., churches, residences, parks) will not be “planned, designed, and programmed” (as defined in the Protocol) prior to the signing of the record of decision for the ED. As such, assessment of potential noise impacts at these proposed land uses is not assumed to be required.
- All necessary field investigations can be conducted by three staff persons in 5 consecutive days.
- Required engineering information for the NADR includes construction cost estimates for all acoustically feasible barriers and information on the engineering feasibility of the proposed barriers.

Air Quality Study (WBS 165.10.30)

Scope of Services:

- *Prepare an Air Quality Study Report for the new roadway proposed as part of the North County Corridor project. Our analysis will be consistent with requirements established by the San Joaquin Valley Air Pollution Control District (SJVAPCD) and Caltrans. Prior to commencing work on the Air Quality Study Report, we will coordinate with Caltrans and the JPA to identify air quality issues pertinent to the proposed project to ensure these issues are addressed in the Air Quality Study Report and minimize comments from Caltrans and the JPA.*
- *In our technical analysis, we will discuss existing environmental and regulatory air quality conditions, followed by an evaluation of construction and operational impacts for the three build alternatives. The air quality analysis will re-evaluate the following conditions:*
 - *Existing Conditions*
 - *Build year No Project Conditions*
 - *Build Year With Project Conditions*
 - *Design Year No Project Conditions*
 - *Design Year With Project Conditions*
- *As part of the analysis, we will evaluate the existing air quality conditions within the project area; describing the existing environmental conditions and the current air quality regulatory environment as it applies to this project. We will collect data required for the setting section, including the most recent local, state, and federal ambient air quality standards; the region’s attainment status regarding those standards; and regional meteorological and air quality conditions within the area, using the nearest ambient air quality monitoring data collected for the project area.*
- *The air monitoring data will be based on the most recent information collected by the SJVAPCD and the California Air Resources Board (ARB). We will prepare tables showing relevant air monitoring data, ambient air quality standards, and the attainment status of the region. We will include a discussion of applicable air quality goals, policies, and attainment plans of state and local agencies, including applicable City and County air quality goals, if available. We will also discuss those aspects of the SJVAPCD’s most recent State Implementation Plan (SIP) that are applicable to the project.*

In the setting section, we will:

- *summarize meteorological and climatological data for the project area*
- *describe existing local, state, and federal air quality standards and air quality management plans*
- *discuss any relevant air quality goals and policies contained in local applicable General Plans*
- *describe the various pollutants of concern (criteria pollutants and greenhouse gases) and their effects on human health*
- *describe recent air quality conditions in the project area*
- *identify sensitive receptor locations in the area*

The impact assessment will focus on the following:

Short-Term Construction Emissions

- *Construction emissions associated with the proposed project will be quantified using the Sacramento Metropolitan Air Quality Management District's Road Construction Model (Version 6.3.2) and construction data provided by the project applicant. Construction-related emissions associated the proposed project will be evaluated based on Caltrans Standard Specification 7-1.01F, Standard Specification 8, and Standard Specification 10 to control emissions of fugitive dust from construction activities, San Joaquin Valley Air Pollution Control District Regulation VIII, and Rule 9510 (Indirect Source Review). Where appropriate, we will identify mitigation measures to reduce construction-related emissions to a less-than-significant level, where feasible.*

Long-Term Mobile and Stationary Source Emissions

- *The proposed project is expected to accommodate new vehicular traffic trips. In addition, some traffic currently using other area roadways may be influenced to use the roadway once the project has been completed. We assume that the traffic study prepared for this project will include the necessary information needed to estimate project-related changes in traffic trips and associated emissions (i.e., peak and off-peak hours vehicle miles traveled and travel speed separated into 5 mph speed bins). That traffic data will be combined with Caltrans' CT-EMFAC air quality model to estimate changes in criteria pollutants in the project vicinity related to implementation of the proposed project.*

Localized CO, PM10, and PM2.5 "Hot Spot" Impact Analysis

- *The proposed road improvements would affect traffic volumes and levels of service in the project vicinity. The analysis of localized CO impacts will be assessed following the methodology contained within the Caltrans' Transportation Project-Level Carbon Monoxide Protocol (Protocol), and the assessment of localized PM10 and PM2.5 impacts will be assessed quantitatively following new guidance to be released by the Federal Highway Administration and U.S. Environmental Protection Agency in December 2009/January 2010. We will conduct a carbon monoxide (CO) hot spot analysis using peak traffic hour volumes and levels of service at key intersections in the project vicinity. CO concentrations will be estimated for sensitive receptors located near congested intersections. We will use the CALINE4 model to conduct the CO hot spot analysis for up to three intersections for existing-, completion- (with and without project), and design-horizon-year (with and without project) conditions as modeled in the traffic analysis.*

Project Conformity Evaluation

- *If necessary, we will work with the JPA to ensure that the proposed project is included in the most recent Regional Transportation Plan (RTP) and Regional Transportation Improvement Plan (RTIP). This*

evaluation will ensure that the project's regional emissions have been included in the SJVAPCD's most recent air quality plans. In addition, the transportation conformity analysis must show that the project does not cause or contribute to one or more PM10/PM2.5 and CO hotspots in the project vicinity. The evaluation of CO violations will be addressed in the CO modeling analysis described above, while PM10/PM2.5 conformity will be evaluated quantitatively as described above.

Mobile Source Air Toxics

- *An analysis of Mobile Source Air Toxics (MSATs) will be evaluated based on interim guidance issued by the FHWA on September 30, 2009 and on the ARB's April 2005 Air Quality and Land Use Handbook: A Community Health Prospective.*

Climate Change

- *We will quantify greenhouse gas emissions of carbon dioxide (CO₂), methane (CH₄), and nitrous oxide (N₂O). Using traffic data from the transportation analysis (i.e., vehicle miles traveled and travel speed separated into 5 mph speed bins) and Caltrans' CT-EMFAC (Version 2.6) air quality model, we will estimate changes in CO₂ emissions in the project vicinity related to implementation of the proposed project. Emissions of CO₂ calculated by CT-EMFAC will then be used to estimate changes in emissions of CH₄ and N₂O expected to result from implementation of the proposed project according to the California Climate Action Registry's January 2009 General Reporting Protocol (Version 3.1).*

San Joaquin Valley Air Pollution Control District Rule 9510 Compliance.

- *We will evaluate construction impacts in conjunction with use the SJVAPCD's Indirect Source Review Guidelines (SJVAPCD Rule 9510). If project specifications exceed the limits established in Rule 9510, we will identify measures required to comply with Rule 9510.*

Air Quality Conformity Analysis

- *Following approval of the Air Quality Study Report by Caltrans, we will prepare a project-level Air Quality Conformity Analysis report for submittal to FHWA for their concurring conformity determination. For the purposes of scoping, we assume the project is included in the most recently adopted RTP and RTIP with the same design concept, scope, and schedule and the traffic study opening-day assumptions.*
- *Interagency Consultation. Interagency Consultation (IAC) is required to document whether the project is or is not considered a Project of Air Quality Concern (POAQC) for the PM10 and PM2.5 hot spot conformity analysis and to evaluate/verify the assumptions used in the PM hot spot analysis if the project is found to be a POAQC. As described above, new quantitative analyses will be required for PM hot spot analyses in December 2009/January 2010. Consequently, our scope of work assumes the project will require a quantitative analysis using guidance that will be issued by the U.S. Environmental Protection Agency and FHWA. We will prepare the documentation needed for IAC and submit it to Jacobs for Caltrans use in the IAC process.*

EIR/EIS Section

- *We will prepare the air quality and climate change chapters of the EIR/EIS based on the results of the study described above. In the setting section of the EIR/EIS background information on air quality will be discussed and the existing environment will be described based on research conducted for the area.*
- *In the impact section of the EIR/EIS, thresholds for the significance for air quality and climate change impacts will be defined based on Caltrans standards and guidance provided by the Project Design Team. Construction air quality impacts identified in the report will also be summarized.*
- *The significance of project-related impacts will be evaluated under CEQA and NEPA based on the predicted emissions and the defined significance criteria. Where significant impacts are identified, mitigation to reduce impacts to a less-than-significant level (where feasible) will be identified.*

Deliverable:

- Draft, revised draft, 2nd revised draft, and final Air Quality Study.
- Draft, revised draft, 2nd revised draft, and final Air Quality Conformity Analysis report.
- EIR/EIS Section (initial draft and 1st and 2nd revised draft).

Water Quality Studies (WBS 165.10.35)**Scope of Services:**

- *Prepare a Water Quality Assessment Report (WQAR) for the project that discusses watershed characteristics, groundwater hydrology, regulatory requirements, pollutants of concern, and receiving water conditions, objectives and beneficial uses. The report will also discuss design pollution prevention best management practices (BMPs), construction site BMPs, and treatment BMPs that are applicable to the project alternatives per Caltrans Storm Water Quality Handbooks Project Planning and Design Guide. Information from the Storm Water data report will be incorporated into the WQAR. The project's potential impact on water quality will be evaluated and mitigation measures will be recommended which are necessary to prevent adverse water quality impacts.*
- *Prepare a Floodplain Evaluation based on a Location Hydraulic Study to be prepared by the project engineer. The Location Hydraulic Study will meet the requirements of Chapter 17 of the SER and in 23 CFR 650.A, Section 650.111(b)(c). The report will discuss potential impacts for each alternative and recommend mitigation measures related to floodplain encroachment, flood-related hazards, natural or beneficial floodplain values, access interruption, and the community floodplain development plan. The summary memorandum of Location Hydraulic Study to be prepared under another task.*

Deliverable:

- Draft, revised draft, and final Water Quality

Energy Studies (WBS 165.10.40)**Scope of Services:**

- *For projects requiring an EIR/EIS, a detailed quantitative analysis of energy impacts is in most cases not needed. The following sample text and the boilerplate regulatory text from Caltrans' annotated outline can be used in the EIR/EIS as applicable: "When balancing energy used during construction and operation*

against energy saved by relieving congestion and other transportation efficiencies, the project would not have substantial energy impacts.”

- *The quantification of greenhouse gas emissions and estimated changes in emissions related to project implementation will be conducted for and included in the Air Quality Study, above.*

Optional Energy Study Task:

- *If necessary, an analysis of existing energy supply sources, projected use and demands by alternative, and any adverse impacts on supplies will be conducted.*
- *If an in depth analysis is required, we will prepare an Energy Study that analyzes energy expenditures associated with project implementation. This analysis will identify total direct and indirect energy expenditures associated with construction and operation of the proposed project based on information determined to be appropriate by Caltrans and other PDT members and provided by Jacobs. This analysis will be based Caltrans’ most recent Energy Study guidance, Energy Requirements for Transportation Systems, and consultation with Caltrans District 10 and Headquarters staff. The analysis will identify energy expenditures associated with facility construction, maintenance, and operation expenditures, as well as vehicle maintenance expenditures (if sufficient data are available). The analysis will quantify total energy expenditures associated with project implementation to the extent feasible. However, due to the uncertainty associated with key analysis data inputs, a qualitative approach comparing relative energy expenditures between project alternatives may be necessary.*

Deliverable:

- EIR/EIS Section.

Assumption:

- Submittals of initial draft and 1st and 2nd revised draft
- Based on the results of discussion with Caltrans District and Headquarters staff, the scope and budget for this work may need to be amended.

Summary of Geotechnical Report (WBS 165.10.45)

Scope of Services:

- *A summary of the Geotechnical Report will be included in the administrative draft environmental document. The geotechnical study will be adequate to prepare the setting and impact section for the Geology/ Soils/ Seismic/ Topography section of the EIR/EIS. The geotechnical study will provide the needed information to be able to describe the site geology and subsurface conditions, including topography and geology (types of soil/ rock, depths of geologic formations within the project area, depth to bedrock, groundwater depth), and identification of possible geologic hazards.*

Deliverable:

- Geotechnical Report for administrative draft environmental document

Initial Site Assessment and Preliminary Hazardous Materials Site Investigations (WBS 165.10.50a)

Scope of Services:

- *The ISA prepared for this project will attempt to identify potentially significant soil/groundwater contamination issues that could affect the constructability, feasibility, and/or cost of the proposed project. The ISA will focus on two distinct concerns:*
 1. *Construction Issues – The potential for contaminated soil/groundwater to impact the planned project*
 2. *Liability Issues – The potential of the implementing agency acquiring properties with known or suspected soil and/or groundwater contamination*

We will complete the following scope items to develop the ISA.

- *Discuss, plan, and coordinate work with the project team*
- *Review available documentation for the alignments*
- *Review copies of title documents and Assessor Parcel Numbers (APN) for parcels located within the project limits and subject to partial or complete acquisition (as made available by the project team)*
- *Review published literature regarding site geology and groundwater conditions for the area*
- *Review historical aerial photographs and topographic maps for the area including the alignments for indications of potential contamination sources*
- *Review a commercial database search of federal, state, City and County records for indications of the use, misuse, or storage of hazardous and/or potentially hazardous materials on or near the alignment*
- *Complete limited reconnaissance of the alignments where accessible. We will observe current land use and indications of potential contamination on or adjacent to the alignments. This includes documentation of areas we observe that show evidence of surface staining; dumping; handling and mixing areas for hazardous materials such as pesticides, insecticides, and fuel products; apparent locations of fuel tanks; identification of existing structures that may contain asbestos and other hazardous materials, and locations and conditions of transformers*
- *Identify areas during our reconnaissance where potentially significant levels of aerially deposited lead (ADL) may be present within the alignments*
- *Prepare a report summarizing the findings of our review, site reconnaissance, historical photograph/map evaluation, and regulatory records review. We will address identified potential hazardous materials impacts and recommend further investigation and analysis if necessary*

Deliverables:

- *Draft Initial Site Assessment*
- *Final Initial Site Assessment*

Assumptions

- *Significant contamination sites requiring additional investigation is not expected.*

Preliminary Hazardous Material Site Investigation (PSI) – (WBS 165.10.50b)

Scope of Services:

- *The Initial Site Assessment (ISA) for this project will establish general information regarding hazardous materials and their potential impact during project planning, design and construction. According to the Caltrans Project Development Manual, Chapter 18 - Environmental Contamination (Manual), hazardous material sites/issues identified in an ISA are classified as high, medium and low risk. The Manual states that the PA/ED should include a Hazardous Material Site Investigation for high and medium risk sites.*
- *We propose to perform additional research and site investigations, and development of preliminary remedial assessments for up to ten high and medium risk sites/issues identified in the ISA.*
- *For high and medium risk sites we will contact regulatory oversight personnel and review regulatory agency files for each site. We will review the files looking for information regarding the extent and location of contamination, the magnitude and type of contaminants, results of recent monitoring (if applicable), and status of investigation/remediation. The site investigation will be a limited visual inspection of the site looking for obvious evidence of hazardous materials (i.e. vent pipes from underground tanks). If we are provided with contact information we will also attempt to interview the owner/tenant about site hazardous material issues.*

Note: These findings are not intended to be exhaustive or represent the final remedial investigation. In other-words the results will not be comprehensive enough to initiate remediation, but they will be complete enough to begin to understand the level and magnitude of hazardous material impact and develop representative remedial options. These finding will be used by the project development team to move through the design and construction process and are important in selecting alignment options and negotiating property acquisition.

Deliverables:

- Draft Preliminary Hazardous Material Site Investigation
- Final Preliminary Hazardous Material Site Investigation

Assumptions:

- Ten sites is an estimate, the actual number of high and medium risk sites won't be determined until the ISA is complete. Following the completion of the ISA, we will work with Jacobs and Caltrans to determine how many sites require review during PS&ED.
- It is assumed that low risk sites/issues (i.e. asbestos and lead based paint in structures) will be addressed during the PS&E phase.
- If findings are incomplete or produce information suggesting the presence of undefined or uncharacterized contamination and is beyond the scope of this effort.

Draft Right-of-Way Relocation Impact Document (WBS 165.10.55)

Scope of Services:

- *Prepare a Draft Relocation Impact Study (DRIS) in accordance with Chapter 602, Relocation Impact Documents, of the Caltrans Relocation assistance and Housing Procedures Manual. The report will include the numbers and type of displacements (residential and non-residential), the current and anticipated availability of relocation resources; and discussion of relocation problems specific to this project and suggested solution to the problems.*

Deliverable:

- Draft, revised draft and final Draft Relocation Impact Report

Assumptions:

- No interviews will be conducted with residents or owners as part of this task.
- For estimating purposes, Geometric Plans will include three (3) alignment alternatives

Location Hydraulic and Floodplain Study Report (WBS 165.10.60)**Scope of Services:**

- A location hydraulic study will be prepared to evaluate potential impacts to the 100-year floodplain. The analysis will include a review of the current drainage patterns of storm runoff within the project site.

Deliverable:

- Draft, revised draft and final Location Hydraulic and Floodplain Study Report

Paleontology Study (WBS 165.10.65)**Scope of Services:**

- *Research and mapping recently prepared for the paleontological identification report for the project (May 2009 Paleontological Resources Technical Memorandum) will be used to prepare a paleontological evaluation report and paleontological mitigation plan. The reports will include a comparison of alternatives and provide standard discovery-based mitigation measures.*

EIR/EIS Section

- *We will prepare the paleontological resource chapter of the EIR/EIS based on the results of the study described above. In the setting section of the EIR/EIS background information on the paleontological sensitivity of the area will be discussed and the existing environment will be described based on research conducted for the area.*
- *In the impact section of the EIR/EIS, thresholds for the significance of impacts will be defined based on Caltrans standards, guidance provided by the Project Design Team, and guidance from the Society of Vertebrate Paleontology. Construction-related impacts identified in the report will be summarized.*
- *The significance of project-related impacts will be evaluated under CEQA and NEPA based on the defined significance criteria. Where significant impacts are identified, mitigation to reduce impacts to a less-than-significant level (where feasible) will be identified.*

Deliverable:

- Draft, revised draft, 2nd revised draft, and final Paleontology Evaluation Report and Paleontological Mitigation Plan
- EIR/EIS Section (initial draft and 1st and 2nd revised draft)

Biological Studies (WBS 165.15)

Scope of Services:

Natural Environment Study (WBS 165.15.20)

- *We will prepare a Natural Environment Study (NES) using the guidelines from Caltrans' Guidance for Consultant's Procedures for Completing the NES and Related Biological Reports (1997) and Caltrans' Standard Environmental Reference (SER) NES template version dated October 4, 2005, or the most up to date version available. Our effort will include coordinating with federal and state biologists at U.S. Fish and Wildlife Service (USFWS), Caltrans, and California Department of Fish and Game (DFG) to obtain information on special-status species, confirm survey methods, and discuss project effects and mitigation necessary to avoid and minimize impacts on sensitive biological resources. Prior to field surveys, biologists will review existing and available information pertaining to the project area, including documents for projects in the surrounding area provided by the JPA, records from the DFG's California Natural Diversity Database; California Native Plant Society's (CNPS's) inventory; USFWS list of sensitive species for the project area; and file information.*
- *Our biologists will conduct various levels of surveys to characterize and map biological communities and to identify and map suitable habitat for special-status plant and wildlife species that have the potential to occur within the study area (defined as a 1,000-foot-wide corridor around the three alternative alignments). Based on previous research for the proposed project, special-status plants that may occur in the study area include: beaked clarkia, dwarf downingia, legenera, Colusa grass, and Hartweg's golden sunburst. Special-status wildlife species that were identified in these studies and may occur in the study area include vernal pool fairy shrimp, vernal pool tadpole shrimp, California tiger salamander, western spadefoot, Swainson's hawk, western burrowing owl, San Joaquin kit fox, American badger, bats, and nesting birds. Suitable habitat may also be present for valley elderberry longhorn beetle and giant garter snake. For most special-status species, the study area will consist of the 400-foot-wide project corridor and a 250 foot buffer on each side of the corridor (approximately 1,000-foot-wide study area corridors). For California tiger salamander, the project corridors and 1-mile radius around the alternatives will be evaluated to determine if suitable breeding and upland habitat is present within this area. This information will be used to prepared a site assessment for California tiger salamander following USFWS guidelines. Because of the large size of the survey area for California tiger salamander, aerial photo interpretation would be used to identify potential habitat areas and no private property access would be required. To the extent possible, the aerial photograph would be ground-truthed from existing public roads.*
- *As part of the initial round of field surveys, biological communities will be mapped and assessed for their potential to support suitable habitat for listed species in the study area. This information will be used to coordinate with Caltrans, USFWS, and DFG to determine which of the following three approaches is appropriate for assessing project effects on listed species in the project study area:*
 - *Assume presence for particular species within suitable habitat (e.g., vernal pool fairy shrimp, California tiger salamander, and kit fox), based on documented occurrences (CNDDDB), species lists from USFWS, previous biological reports for the area and other clear evidence.*
 - *Assume absence if USFWS concurs that particular areas lack suitable habitat (e.g., developed areas).*
 - *Conduct protocol-level surveys in areas within the study area where suitable habitat is present and the agencies require that the surveys be conducted to confirm absence.*

- *A memorandum describing the field studies and suitable habitat for listed species will be submitted to Jacobs for review. Jacobs will submit the memorandum to Caltrans for use during early coordination and consultation with the USFWS and DFG.*
- *Our biologists have a vast amount of experience preparing NES reports and understand the requirements and preferences of Caltrans biologists. We will coordinate with Caltrans early in the process to determine specific needs and requests of their biologists so that work can proceed efficiently and the product will meet Caltrans specifications, such that only minimal revisions of the NES will be necessary. With Caltrans' permission, we will coordinate with USFWS and CDFG to determine their concerns related to biological resources and solicit their input on mitigation. Early involvement of these agencies will expedite the environmental permitting process, if needed.*

Wetland Delineation (WBS 165.15.10)

- *Wetland ecologists and soil scientists will delineate waters of the United States in the project area that may be subject to regulation by the U.S. Army Corps of Engineers (USACE) under Section 404 of the Clean Water Act (CWA). Wetlands will be delineated according to the protocol outlined in the 1987 Corps of Engineers Wetlands Delineation Manual (1987 Manual), and where applicable, the Arid West Supplement to the 1987 Manual. The delineation will involve collection of field data to ensure consistency with the USACE Sacramento District's Minimum Standards for Acceptance of Preliminary Wetlands Delineations (dated November 30, 2001). Other waters of the United States will be identified on the basis of an observable ordinary high water mark and/or other diagnostic characteristics. To the extent feasible, the boundaries of wetlands and other waters of the United States will be recorded using GPS equipment typically accurate to less than one horizontal meter, per the Sacramento District's requirements*
- *Following the field delineation, we will prepare a wetland delineation report and map suitable for submittal to the USACE in support of a CWA Section 404 permit application. The report and map will clearly delineate the area(s) subject to the delineation, the boundaries of all waters of the United States within the study area, and the acreages and/or linear feet of each feature in a format that is acceptable to the USACE. The USACE often requires a field verification visit to verify the jurisdictional features present on a project site and small changes to the wetland delineation report and/or maps are sometimes requested by the USACE after such a verification visit. Our cost estimate includes the hours necessary to attend a field meeting with the USACE, and to make small changes to the report and/or maps if requested by the USACE, in order to obtain a verified wetland delineation.*

Biological Assessment (WBS 165.15.05)

- *Depending on the suitability of habitat and results of surveys, formal consultation with USFWS may be required for project-related effects on federally listed plant and wildlife species that have the potential to occur in the study area and be affected by project actions (e.g., vernal pool plants, vernal pool branchiopods, valley elderberry longhorn beetle, California tiger salamander, giant garter snake, and San Joaquin kit fox). With direction from the JPA and Caltrans, we will participate in the consultation process with USFWS and prepare a Biological Assessment (BA) for no more than eight listed species (two plants and six wildlife species). The BA will be prepared according to Caltrans' SER BA template version dated October 4, 2005, a Central Region template provided by Caltrans staff prior to the initiation of the report, or the most up to date version available at the time the BA is initiated. Information gathered during the field surveys for the NES as well as information in the NES report will be used to prepare the BA. In addition, guidance from USFWS related to effects and mitigation during preparation of the NES will be incorporated in the BA. We will be available to attend two formal consultation meetings with USFWS. Our scope assumes*

USFWS will not require additional field studies to support analysis of potential growth-inducing effects on listed species.

Deliverables:

- Draft and final California tiger salamander site assessment
- Draft and final listed species habitat evaluation memorandum.
- Draft, revised draft, 2nd revised draft, and final Natural Environment Study (NES).
- Draft, revised draft, 2nd revised draft, and final Biological Assessment (BA).
- Draft, revised draft, 2nd revised draft, and final Wetlands Study.

Assumptions:

- We assume that the JPA will obtain and provide reports for projects in the vicinity of the study area that may be relevant to the biological resources study area and analysis.
- Because it appears that there are no perennial drainages in the project area, it is assumed that coordination with National Marine Fisheries Service (NOAA Fisheries) is not needed.
- The efficiency and timeliness of biological surveys are dependent upon the availability of access to the study area; the project proponent would be responsible for obtaining access to meet the proposed schedule.
- We assume that surveys would be conducted through a combination of windshield (driving) and walking surveys, and that only the natural areas within the proposed corridors and buffer areas would be walked in their entirety (rough estimate based on 1 inch= 2,000 feet aerials of 640 acres total for 3 build alternatives). We assume each survey corridor would take 4 days to survey (12 days total). These surveys will be conducted as part of the NES as described above under WBS 165.15.20.
- This scope assumes USFWS will not require additional field studies to support analysis of potential growth-inducing effects on listed species.
- This scope of work includes conducting general plant and wildlife habitat surveys in the study area defined above. If habitat for special status plant and wildlife species is identified in the study area, the need for additional surveys will be determined and discussed with Jacobs and the JPA. No protocol-level surveys are included in this scope of work. If protocol-level surveys for plants or wildlife are determined to be necessary, they may be conducted during the appropriate time of year under an amended scope of work and budget.
- We assume we can assess direct and indirect impacts using the current project footprint.
- EIR/EIS Section (reviews of initial draft and 1st and 2nd revised draft).

Cultural Resource Studies (WBS 165.2)

Scope of Services:

- *Because the project includes a federal undertaking, the cultural resource studies for this project will be performed according to the guidelines and recommended procedures outlined in Caltrans' Guidance for Consultants in accordance with Section 106 of the National Historic Preservation Act (NHPA). In addition, the cultural resource staff will follow methods outlined in the Caltrans Programmatic Agreement (PA) (January 2004) and any reasonable additional methods requested by Caltrans at the time the project is initiated. All work required for this contract will be supervised by professionals that meet the professional qualifications for work in archaeology, history, and architectural history (as appropriate), as defined in the PA. This work effort will provide compliance with Section 106 of the NHPA, and with the California Environmental Quality Act (CEQA).*

The scope of work for cultural resources includes the following:

Prepare Area of Potential Effects Map (WBS 165.20.05.05)

- *Archaeologists and architectural historians will prepare a draft Area of Potential Effects (APE) map for cultural resources in consultation with Caltrans and other project design staff. The APE will include all properties within the proposed project corridor rights-of-way, as well as some parcels immediately adjacent to the proposed project, dependent on the potential for indirect effects on cultural resources. The APE will include all ancillary project features, such as staging areas, utility relocations, and access/haul roads, if known. The APE map will consist of a series of 11x17-inch color aerial maps at a scale of 1 inch = 200 feet, depicting the project design and parcel lines. Archaeologists and architectural historians will begin conducting field work after consulting with Caltrans Professionally Qualified Staff (PQS) and the Project Manager to establish the initial draft APE map. The APE map will likely be modified depending upon alterations to the project, consultation with Caltrans, and the findings of the field survey. All changes will be reflected in the final APE which will be included in the technical documents.*

Conduct Records Search and Background Research (WBS 165.20.05.15)

- *For the Route Adoption analysis we conducted a records search at the Central California Information Center of the California Historical Resources Information System at California State University, Stanislaus. We will conduct additional research to develop a cultural context for the area. Research will be conducted at (but not limited to) the California State Library, Sacramento, Caltrans Headquarters Library in Sacramento, appropriate archival repositories and libraries located in Stanislaus and San Joaquin Counties, and the cultural staff library.*

Contact Interested Parties (WBS 165.20.05)

- *We will initiate consultation with potentially interested parties. The Native American Heritage Commission (NAHC) will be contacted and a search of the NAHC's sacred lands database and a list of potentially interested Native American representatives will be requested. A contact letter briefly explaining the project with an attached project area map will be sent to all suggested Native American representatives. Follow up telephone calls will be placed to ensure that the letters were received and the representatives have no comments or concerns.*
- *We will contact the San Joaquin County Historical Society and Museum and any other (as appropriate) museums, historical societies, and interested persons to request information regarding the types of potential cultural resources in the study area.*

Conduct Field Surveys (WBS 165.20.05.20)

- *Archaeologists will conduct a pedestrian field survey of the project-level portions of three build alternatives, wherein professionally qualified archaeologists will walk transects not to exceed 20 meters. Any areas found to have difficult access due to either dense vegetation, unstable geologic conditions, or other obstructions will be surveyed at a reconnaissance level wherein archaeologists walk wider transects of 30 meters apart or wider.*
- *Architectural historians will conduct a field survey of the proposed project area to record buildings, structures, and historic features through digital photography and written descriptions. Each architectural resource in the APE, which appears 45 years old or older, will be formally documented and evaluated for Section 106 and CEQA significance. All buildings/structures constructed within the past 45 years will be addressed according to the Caltrans 2004 Programmatic Agreement. To determine the historical significance of recorded properties, historians will conduct property specific research of each property. Property specific research will be conducted at, but not limited to, the Stanislaus and San Joaquin County Assessor's Office, Records Office, and other local repositories.*

Conduct Extended Phase I Study (WBS 165.20.10)

- *For estimating purposes, archaeologists will conduct Extended Phase I (XPI) subsurface archaeological testing for up to five prehistoric archaeological sites within the APE. The goal of XPI testing is to define the vertical and horizontal extent of the site within the APE and to assess the integrity of the deposit. As dictated in Volume 2 Chapter 5 of the Caltrans Environmental Handbook (Caltrans 2004), an XPI Proposal will be drafted prior to excavation. The XPI proposal will detail the reasons for the study, field and laboratory methods, overall goals of the excavation, and thresholds that will determine when the goals are met. It will also include plans for curation of any recovered artifacts, a timeline for excavation and analysis, and details of the arrangements for a Native American monitor to be present during excavation. Field methods to be used for XPI will be tailored to each site and can include surface collection, mechanical excavation, hand excavation, and both mechanical and hand auguring.*

Prepare Technical Reports (WBS 165.20.20)

- *Based upon resources encountered in the field, we will prepare the appropriate technical reports and the accompanying forms. Preliminary data indicates that we will prepare a Historic Property Survey Report (HPSR) and an Archaeological Survey Report (ASR) and that a Historic Resources Evaluation Report (HRER) may be likely. These technical documents and forms will be bound together along with any attached required documentation. Upon review by the JPA and Caltrans, we will produce final technical reports. If it is determined that preparation of an FOE is necessary, that work effort is discussed below. Prior to any XPI excavation, an XPI plan will be prepared that details the goals, timeline, and methods to be used for subsurface investigation and laboratory analysis. Once excavation and analysis have been completed, an XPI report will be prepared. The XPI report will detail the purpose of the study, field and lab methods used, the characteristics of the deposit including descriptions of recovered artifacts, the relationship of the site limits to the project's direct and indirect APE, and the integrity of the deposit within the direct APE.*

Team and Public/ Design Coordination Meetings (WBS 165.20.05)

- *Archaeologists and historians will maintain regular communication with Caltrans, management contacts within the PDT, and Office of Historic Preservation resource specialists to ensure that legally adequate deliverables are produced in an efficient manner. Coordination will be conducted by telephone, electronic mail, and in-person meetings, as appropriate. Emphasis will be placed on characterizing agency expectations and keeping reviewing agency personnel apprised of the project document and process schedule.*

EIR/EIS Section (WBS 165.20.05)

- *We will prepare review the cultural resources section of the EIR/EIS. This section will include a brief cultural resources setting, a description of the methods used in the analysis, a description of the findings of the investigation, and an impact analysis based on the technical reports noted above. Feasible mitigation measures will be recommended for any identified or potential impacts.*

Prepare Finding of Effect (WBS 165.20.25.20)

- *Preparation and approval of the FOE, along with completion of the tasks above, will provide the necessary information and approvals to incorporate into the cultural resources section of the draft EIR/EIS.*

Prepare Memorandum of Agreement (WBS 165.20.25.30)

- *We will work with the JPA, Caltrans, and the State Historic Preservation Officer (SHPO) to resolve (mitigate) any adverse effects identified as a result of the FOE, above. We will attend one meeting under this task. The terms of the mitigation measures will be stipulated in a memorandum of agreement (MOA). We will prepare up to two drafts and a final of the MOA. The MOA will define the terms of mitigation measures, which will then be explicated in a data recovery plan, if necessary, and an inadvertent archaeological discovery plan.*

Deliverables:

- Draft, revised draft, and final Area of Potential Effects (APE) Map
- Draft, revised draft, 2nd revised draft, Extended Phase I Survey Plan
- Draft, revised draft, 2nd revised draft, Extended Phase I Survey Report
- Draft, revised draft, 2nd revised draft, and final Historic Property Survey Report (HPSR) including appendices
- Draft, revised draft, 2nd revised draft, and final Finding of Effect
- Draft, revised draft, 2nd revised draft Memorandum of Agreement (MOA)
- EIR/EIS Section (initial draft and 1st and 2nd revised draft)

Assumptions:

- This scope of work assumes that no more than four versions of the APE map; draft for review to Caltrans, revised draft, and final.
- That all land owners will have been notified of the survey crews impending presence and that permission to access all properties will have been granted.
- For estimating purposes, this pedestrian field survey effort assumes that three alternative alignments, each 26 miles long and 400-foot wide, will be surveyed. Additionally, for purposes of cost estimating, this scope assumes approximately 10 acres of survey for ancillary project features such as staging areas, utility relocations, and access/haul roads, if known.

- This scope assumes that ten (10) prehistoric archaeological sites will be identified in the APE. It is also assumed that all sites can be fully avoided through engineering design modifications. For estimating purposes, it is assumed that five of these sites will consist of compact lithic scatters and not require subsurface investigations to determine their extent in order to avoid them. It is also assumed that the other five (5) sites can be fully avoided after the extent of the sites is determined through XPI subsurface investigations.
- The scope and cost will need to be revisited if a data recovery plan needs to be prepared.
- Two revisions to the documents will be required to address agency (Caltrans) comments with revisions. Following those revisions the final study will be submitted.
- Over the course of this project, 2 meetings will be conducted between employees of the Jacobs team, the JPA, and/or Caltrans. These meetings will serve to discuss project tasks, discuss project issues, and solicit public participation.
- Significant historic properties (assuming two significant historic properties in the historic built environment and no potential subsurface archaeological features) will be identified in the APE thus requiring the preparation of a Finding of Effect (FOE) document.
- This scope assumes that a backhoe/auger and operator will not be needed for more than 10 days for Extended Phase I excavation.
- This scope assumes that we will retain a Native American monitor to be present during XPI excavation.
- Based on a review of aerial photography and a reconnaissance survey, conducted during the route adoption phase, the only information available to prepare this scope, it is assumed that within the proposed project area 130 architectural/built environment resources (i.e. buildings or structures) are 45 years or older. These resources will need to be surveyed and evaluated under CRHR and NRHP Criteria.
- To facilitate research, assumes that a member of the JPA will contact the Stanislaus County Assessor to facilitate access to the building characteristics information from the assessor's records.
- Assumes that some buildings and/or structures located in the APE will meet the criteria for listing in the National Register of Historic Places, and thus, a Finding of Effect (FOE) Document will be necessary.

Draft Environmental Document (WBS 165.25)

Scope of Services:

- Prepare an administrative draft NEPA draft environmental impact statement (EIS) / CEQA draft environmental impact report (EIR) (or Administrative DED) using the document

outline posted on the Caltrans Central Region SER. The document will summarize the results of environmental technical studies, document the project Purpose & Need, the alternatives development and screening process, and summarize the public outreach process conducted as part of environmental compliance.

Deliverable:

- Administrative DED (50 copies)

Assumptions:

- The DED will be subject to two Caltrans Central Region, one Caltrans Quality Control, and one Caltrans Legal review.

Draft Environmental Document Analysis (WBS 165.25.05)**Scope of Services:**

- The Administrative DED will summarize the analysis of alternatives at an equal level of detail (No build plus three build alternatives) and will include additional analysis for which environmental stand-alone technical reports were not developed (e.g., construction-period effects and cumulative and growth-related, indirect impacts).

Deliverable:

- Administrative ED sections

Section 4(f) Evaluation (WBS 165.25.10)**Scope of Services:**

- Prepare a Section 4(f) evaluation based on FHWA guidance to evaluate the impacts to Section 4(f) resources (public recreational facilities, refuges, historic resources) affected by the project. Up to 10 Section 4(f) resources will be evaluated.

Deliverable:

- Purpose and Need
- Alternatives Development and Screening
- Environmental Commitments Record
- Administrative Draft and Draft Section 4(f) Evaluation

Assumptions:

- Section 4(f) evaluation will be subject to two Caltrans Central Region reviews

Environmental Quality Control and Other Reviews (WBS 165.25.20)**Scope of Services:**

- Conduct editorial and quality assurance reviews on the Administrative ED and incorporate the findings of these reviews into the Administrative ED prior to submittal to JPA.

Deliverable:

- Administrative ED

Assumptions:

- QC of environmental documents will be done in accordance with the Environmental QA/QC Plan prepared specifically for the project as outlined in earlier sections of this scope.
- The DED will be subject to two Caltrans Central Region, one Caltrans Quality Control, and one Caltrans Legal review.

NEPA Delegation (WBS 165.300)

Scope of Services:

- Provide necessary information for compliance with the NEPA Delegation Pilot Program.

Deliverable:

- Documentation

Identification of Required Permits During PA&ED Development (WBS 165.450)

Scope of Services:

- Identify the permits which will be required for the project. This information will be included in the Administrative ED.

Deliverable:

- Administrative ED

Permits During PA&ED Development (WBS 165.500)

Scope of Services:

- Scope involves obtaining the following permits which will be required for the project.
 - U.S Army Corps of Engineer Permit (404)
 - Department of Fish & Game 1600 Agreements
 - Local Agency Concurrence/permit
 - Waste Discharge (NPDES) permit
 - U.S Fish & Wildlife Service approval
 - Regional Water Quality Control Board 401 Permit

Note: The following permits are not required for this project

- U.S Forest Service Permit
- U.S Coast Guard permit
- Coastal Zone development permit

Deliverables:

- U.S Army Corps of Engineer Permit (404)
- Department of Fish & Game 1600 Agreements
- Local Agency Concurrence/permit
- Waste Discharge (NPDES) permit
- U.S Fish & Wildlife Service approval
- Regional Water Quality Control Board 401 Permit

Updated Environmental Commitments Record (WBS 165.50.50)

Scope of Services:

- Jacobs will prepare and maintain the environmental commitments record.

Deliverable:

- Environmental Commitments Record

Assumptions:

- The draft record will be subject to two Caltrans reviews

NEPA Delegation (WBS 165.50.55)

Scope of Services:

- Provide NEPA Delegation information and document readiness forms to facilitate Caltrans review of the Administrative ED.

Deliverable:

- NEPA Delegation forms

Circulate Draft Environmental Document and Select Preferred Project Alternative Identification (WBS 175)

Scope of Services:

- Prepare, publish and distribute the Draft NEPA EIS / CEQA EIR / Section 4(f) Evaluation document (Draft ED).

Deliverable:

- Draft ED (up to 200 copies for estimating purposes only)

Assumptions:

- Document length (number of pages and graphics) will be representative of other DEDs prepared for similar projects in the recent past

DED Circulation (WBS 175.05)

Scope of Services:

- Upon receipt of approval to circulate from JPA and Caltrans, print and distribute up to 200 copies of the Draft ED. The Draft ED is expected to be approximately 750-pages-long with up to 50 alignment drawings and 25 color graphics.

Deliverable:

- Draft ED

Master Distribution and Invitation Lists (WBS 175.05.05)

Scope of Services:

- Prepare a distribution list which will be included in the Draft ED. The list will include elected officials, federal, state, regional and local agency representatives, organizations and individuals. This list will service as the distribution list for the Draft ED.

Deliverable:

- Distribution list

Notices Regarding Public Hearing and Availability of Draft Environmental Document - DED Publication and Circulation (WBS 175.05.10)

Scope of Services:

- Prepare draft notices of publication and availability of the Draft ED (CEQA and NEPA) and prepare draft public advertisements for JPA to publish in newspapers of general circulation. Advertisements will follow the standard Caltrans ad format.

Deliverable:

- Notices and advertisements.

Public Hearing (WBS 175.100)

Scope of Services:

- *Plan and organize two(2) public hearings (held in separate locations as a set coinciding with the approval of environmental document) to update the community on the project and comply with environmental process requirements.*
- *Prepare, print, and distribute notification materials, including, but not limited to, display advertisements and placements, news releases, direct mail, Web site to key stakeholders and the general community.*
- *Prepare and transmit elected officials letters to Caltrans.*
- *Prepare and print/produce meeting materials, including up to 10 exhibit boards, PowerPoint presentations, agendas, FAQs, sign-in sheets, comment sheets, name badges, signage, and refreshments.*

- *Identify appropriate locations to host the workshops for approximately 150 to 200 attendees and make all arrangements.*
- *Arrange for, participate in, follow-up to “dry run” with Caltrans executives.*
- *Arrange for court reporter at the public hearings.*
- *Develop strategic approach to issues management.*
- *Supply light refreshments at public meetings*

Deliverables:

- Notification materials (hearing announcements, display advertisements, news releases, elected officials letters, Web site announcements, direct mail)
- Meeting materials (PowerPoint presentations/exhibit boards (10), agendas, sign-in sheets, comment sheets, name badges, signage, refreshments)
- Dry run with Caltrans executives
- Meeting arrangements
- Transcripts of public hearings by court reporter.
- Detailed meeting summary reports

Assumptions:

- It is assumed Jacobs will provide up to six staff at public meetings.
- Notifications - one to advertise the set of two public hearings
 - Advertisements (Modesto Bee; Vida en el Valle, Bilingual Weekly, or Latino Times; Oakdale Leader; Riverbank News)
 - News releases
 - Direct mail
 - Web
- Meeting Materials
 - Exhibit boards (total of 10, one review cycle with Caltrans and JPA)
 - Presentations
 - Sign-in sheets (2)
 - Comment sheets (2)
 - Name badges
 - Refreshments (cookies, coffee, tea)
 - Facilitation/attendance at all seven events
 - Summary reports/documentation (2)
 - General logistics (1): To advertise the set of two public hearings
 - Spanish-language translation of print materials and at hearings
 - Upcoming postage increases included

Project Preferred Alternative (WBS 175.2)

Scope of Services:

- Following the close of the public circulation period, we shall prepare a draft Preferred Alternative Memorandum summarizing the findings of the environmental process and the public and agency representatives input. This memorandum will be the basis for JPA's consultation with Caltrans to obtain consensus on the recommended preferred alternative.

Deliverable:

- Draft, revised draft and final Preferred Alternative Memorandum

Assumptions:

- The draft memo will be subject to two Caltrans reviews

Prepare and Approve Project Report and Final Environmental Document - EIR/EIS (WBS 180)

Updated Draft Project Report (WBS 180.05.05)

Scope of Services:

- Upon completion of the Response to Comments on the Environmental Document, the Draft Project Report will be updated to reflect any changes to the project that resulted from the public review and comment period. A Draft Final Project Report will be submitted to the JPA and Caltrans for review and comment. Following receipt of one consolidated set of comments, a comment review workshop will be held with the respondents to review their comments and provide appropriate responses. A Final Project Report will be prepared and submitted for review and approval.

Deliverable:

- Draft Final Project Report

Approved Project Report (WBS 180.05.10)

Scope of Services:

- Resolve review comments and prepare Final Project Report.
- Once the Draft Final Project Report has been submitted for review and approval, the project manager or his designee will work with JPA and Caltrans to obtain the appropriate signatures. If issues or questions arise during the approval phase, the team will work with JPA and/or Caltrans staff to answer any remaining questions, provides additional information, and obtain signatures as appropriate.
- *Deliverable:* Signed Project Report

Assumptions:

- Up to three submittals (two review cycles) of the Final Project Report are anticipated.

Updated Storm Water Data Report (WBS 180.05.15)**Scope of Services:**

- The Storm Water Data Report will be reviewed for consistency with current requirements and updated to incorporate necessary changes for the selected alternative only. Current Project Report level requirements are anticipated for this effort. Up to three submittals (two review cycles) are anticipated.

Deliverable:

- Updated Storm Water Data Report for Preferred Alternative

Geometric Approval Drawings (GAD) for Selected Alternative (WBS 180.05.20)**Scope of Services:**

- Prepare geometric approval drawings at a scale of 1" = 50' in accordance with Caltrans plan preparation criteria for GAD for the selected alternative from the Final Project Report.
- The GAD will include existing topographic and planimetric mapping, approximate right-of-way acquisition lines, center lines, calculated geometric layouts, typical sections, and a preliminary Title Sheet.
- Design roadway geometry including horizontal and vertical geometry for ramps, connectors and cross streets, including profile and superelevation diagrams. Profiles and superelevation diagrams will be provided for the areas of mainline widening based on aerial topographic mapping and record drawing information.
- Conceptual grading utilizing standard slopes will be developed to establish preliminary right-of-way limits.
- Typical cross sections will be prepared to illustrate lane and shoulders in the lane configurations and other basic cross sectional data.
- Geometric Approval Drawings will be prepared according to Caltrans guidelines. This effort provides equivalent detail to PS&E requirements for Cross Sections, Layouts, Profiles, and Superelevation Diagrams. Additional detail will be provided indicating pavement delineation, truck turning radii, and traffic volumes. Preliminary Right-of-Way requirements will also be incorporated. Approval will be obtained from Caltrans Offices of Traffic Operations and Design, and HQ Geometric Reviewer. Up to four submittals (three review cycles) of the GADs are anticipated.

Deliverable:

- Geometric Approval Drawing for Preferred Alternative

Approved Final Environmental Document & Response to Comments (WBS 180.10.05)

Scope of Services:

- Prepare an Administrative Draft Final EIS/EIR (Administrative Final Environmental Document [ED]) incorporating responses to comments received during the public circulation period and focusing on the identified preferred alternative. An Administrative Draft Final ED, revised Administrative Draft Final and Draft Final ED will be prepared for review by the JPA and Caltrans.
- The Final ED will include responses to comments received on the DED.
- The Final ED will include the revised Final Section 4(f) Evaluation which will be updated based on comments from participating agencies and any modifications to the identified preferred alternative.
- The Final ED will include records of consultations which must be concluded prior to publication of the Final ED. This will include CEQA Findings and Statement of Overriding Considerations which will be adopted by the CEQA lead agency, an approved and signed Section 106 MOA (if required), and any updated consultation to obtain a Biological Opinion from the U.S. Fish and Wildlife Service under the federal Endangered Species Act. Federal findings required under Presidential Executive Orders will be included as appendices, as needed, including Wetlands and Floodplains Only Practicable Alternatives Findings.

Note: Section 106 Consultation & MOA and Section 7 Consultation work are included in the subconsultant's work

Deliverable:

- Draft, revised draft and final draft Final ED, including Section 4(f) Evaluation, Findings and Statement of Overriding Considerations and memoranda as appendices documenting federal findings and consultations.

Assumptions:

- QC of environmental documents will be done in accordance with the Environmental QA/QC Plan prepared specifically for the project as outlined in earlier sections of this scope.
- The FED will be subject to two Caltrans Central Region, one Caltrans Quality Control, and one Caltrans Legal reviews.
- For estimating purposes, 1200 comments are anticipated. None will require any additional analyses or alternative development; such events will trigger scope and budget assessment.

Public Distribution of FED and Respond to Comments (WBS 180.10.10)

Scope of Services:

- Print and distribute up to 100 copies of the Final ED upon approval to circulate from the JPA and Caltrans.

Deliverable:

- Final ED (up to 100 copies for estimating purposes only)

Assumptions:

- Document length (number of pages and graphics) will be representative of other FEDs prepared for similar projects in the recent past

Final Right-of-Way Relocation Impact Document (WBS 180.10.15)

Scope of Services:

- Coordinate with the engineer to determine the final relocation impacts which will be documented for the preferred alternative in the Final ED.

Deliverable:

- Final ED

Completed Environmental Document (WBS 180.15)

Scope of Services:

- Work with JPA to resolve comments from agency representatives and other stakeholders regarding the final conclusions of the Final ED. Upon conclusion of discussions, the Final ED will be published and Caltrans signature obtained for the title page.
- Completion of the Final ED will include preparing a draft, revised draft and final CEQA Notice of Determination for CEQA for JPA to publish with the County Clerk and the State Clearinghouse and a draft, revised draft and final NEPA Record of Decision (ROD) for Caltrans to forward to the Federal Register.

Deliverable:

- Draft, revised draft and final ED

Assumptions:

- The JPA will be responsible for any and all permit and application fees to agencies associated with the issuance of the ED

Record of Decision (NEPA) (WBS 180.15.05)**Scope of Services:**

- Prepare a draft Record of Decision (ROD) which briefly summarizes the NEPA findings, the public process, and the reasons for selection of the preferred alternative. The ROD shall also summarize the impacts of the preferred alternative (project) and the mitigation measures which JPA and Caltrans commit to implement.

Deliverable:

- Draft, revised draft and final Record of Decision (ROD)

Assumptions:

- Document length (number of pages and graphics) will be representative of other RODs
- QC of environmental documents will be done in accordance with the Environmental QA/QC Plan prepared specifically for the project as outlined in earlier sections of this scope.
- The FED will be subject to two Caltrans Central Region, one Caltrans Quality Control, and one Caltrans Legal reviews

Notice of Determination (CEQA) (WBS 1180.15.10)**Scope of Services:**

- Prepare a CEQA Notice of Determination (NOD) form for JPA to submit to the State Clearinghouse and the County Clerk. The NOD will document the CEQA selection of the project and initiate the 30-day statute of limitations clock.

Deliverable:

- Draft, revised draft and final NOD form

Assumptions:

- QC of environmental documents will be done in accordance with the Environmental QA/QC Plan prepared specifically for the project as outlined in earlier sections of this scope.
- The FED will be subject to two Caltrans Central Region, one Caltrans Quality Control, and one Caltrans Legal reviews

ENVIRONMENTAL COMMITMENTS RECORD WBS 180.15.15**Scope of Services:**

- Prepare a environmental commitments record for Caltrans and JPA approval

Deliverable:

- Draft, revised draft and final commitment record

Assumptions:

- Two reviews and revisions by the JPA and Caltrans will occur for the record.
- Caltrans will file the commitment records in the Caltrans data base and file system

North County Corridor Joint Powers Authority



Project Manager	Dep. PM/Engineering Lead	Senior Engineer	Project Engineer I	Project Engineer II	CADD Designer	Project Admin	CADD/GIS	Environmental Lead	Sr Planner	Environmental Planning	Jr. Environmental Planning	Project Coordinator-Admin	Total Hours by Task (Jacobs)	Subconsultants - Hours*	Subconsultants - Cost*	Total \$ by Task (Doesn't include Sub cost*)
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WBS Code	Description	\$235.00	\$225.00	\$185.00	\$150.00	\$130.00	\$105.00	\$60.00	\$125.00	\$290.00	\$160.00	\$120.00	\$90.00	\$60.00			
100.100	Project Management - EIR/EIS and Buildable Segment (Project Duration 45 months)	1,494	1,182	764			36	1,202		492	169	56		88	5,483		\$ 1,016,000
100.10.05	Initiation and Planning	89	94	4			4	6		4	8	16			225		\$ 47,945
	Project Management Plan & Proposal Revisions (incl. communications plan)	35	50							4	8	16			113		\$ 23,835
	FHWA/Caltrans Meetings to resolve financial plan requirements	40													40		\$ 9,400
	Project Charter & Risk Management Plan	10	40					2							52		\$ 11,470
	Kick-Off Meeting	4	4	4			4	4							20		\$ 3,240
100.10.10	Execution and Control	125	370	75				480		24					1,074		\$ 162,260
	Scope, Schedule, Budget Oversight (45 months)	90	90												180		\$ 41,400
	Schedule Updates (15)	15	40	30						20					105		\$ 23,875
	Monthly Invoices (45)		68												68		\$ 15,300
	Monthly Progress Reports	20	90	45											155		\$ 33,275
	Project Administration (including maint of admin record)		82					480		4					566		\$ 48,410
100.10.15	Coordination and Meetings	1264	652	659			32	712		460	129			80	3,988		\$ 770,575
	Monthly Progress (PDT) Meetings (45)	336	336	336				318		235					1561		\$ 303,950
	Caltrans Management Briefings (16)	80						10		8					98		\$ 21,720
	CTC Meeting and Commissioner Coordination (6)	48	8				24	48		40					168		\$ 30,080
	TAC Mtgs/Agency Briefings/Presentations (32)	184	44	32				72		32	32				396		\$ 77,780
	General Plan Update Meetings and Presentations (10)	60						40		25	25				150		\$ 27,750
	Oakdale By-pass Right-of-Way Abandonment Coordination and Meetings (3)	15		15				3							33		\$ 6,480
	ConAgra Coordination and Meetings (3)	15		24				2		8					49		\$ 10,405
	Individual Public Meetings (6)	40		30				3							73		\$ 15,130
	Environmental Focus Meetings (20)	40	40					40		40	40				200		\$ 38,800
	Design Focus Conference Calls (20)	40		40				40							120		\$ 19,200
	Traffic Focus Conference Calls (5)	10		10				10							30		\$ 4,800
	Litigation Support	40	8				8	3		8	32			80	179		\$ 24,460
	Contingency for other Project Coordination Meetings (10)	80	20	60				40							200		\$ 36,800
	Weekly Team Leader Coordination Meetings/Calls (45 months)	112	112	112				15		32					383		\$ 82,420
	Briefing Meetings with Councils, Boards, Supervisors and Management (21)	164	84					68		32					348		\$ 70,800
100.10.20	Quality Control Program	16	66	26				4		4	32	40		8	196		\$ 35,220
	QA/QC Plan (incl specific env doc QA/QC plan)	4	8	8				4		4	8	16		8	60		\$ 9,300
	QA/QC Reviews	12	58	18							24	24			136		\$ 25,920
100.10.99	Consensus Building and Outreach - EIR/EIS	356	183	174		120	224	224	24	190	180	56	24	64	1819		\$ 309,205
	Public Meetings	262	136	148		120	224	192	24	126	92				1324		\$ 224,450
	Notification (3 workshops, 2 scoping)	4							8	6	12				30	525	\$ 33,639
	Meeting Materials (Boards/Presentations/FAQs)	40	40	20		120	160	80	16	12	8				496		\$ 66,060
	Stakeholder Meetings (Up to 15)	160	40	72			32	100		40					444	102	\$ 10,094
	Facilitation/Attendance (3 workshops, 2 Scoping) including dry runs	56	56	56			32			60	60				320		\$ 66,480
	Summary / Documentation	2								8	12				22	30	\$ 2,268
	General Logistics							12							12	27	\$ 2,328
	Agency Coordination 6002 Process	76	26	16				32		42	52	24	24	64	356		\$ 57,970
	Agency Coordination Plan (Draft and administer 6002 plan)	8	8					8		8	16	24	24	40	136		\$ 16,480
	Agency Representatives List									2	4				6		\$ 1,220
	Agency Scoping and Coordination Meetings	68	18	16				24		32	32			24	214		\$ 40,270
	Database Development and Comment Tracking									8	16	32			56		\$ 8,720
	Database for up to 7,000 Contacts														80	\$ 2,527	\$ -
	Comment Tracking Reports (4)									8	16	32			56	47	\$ 3,372
	Fact Sheets	9	12	4						2	4				31		\$ 6,775
	Fact Sheets (3)	6	12	4						2	2				24		\$ 5,170
	Develop Preliminary Outline and Layout	3								2	2				7	146	\$ 7,153
	Website Coordination	9	9	6						4					28		\$ 6,410
	Project-Specific Web Page Content	6	6	4						2					18		\$ 4,080
	Web Page Updates Including Text and Documents	3	3	2						2					10		\$ 2,330
	Media Coordination									8	16				24	309	\$ 21,275
	Maintain Media Contacts List																\$ -
	Prepare Media Kits and Press Releases									8	16				24		\$ 4,880
	Project-Related Article Tracking																\$ -

North County Corridor Joint Powers Authority



Project Manager	Dep. PM/Engineering Lead	Senior Engineer	Project Engineer I	Project Engineer II	CADD Designer	Project Admin	CADD/GIS	Environmental Lead	Sr Planner	Environmental-Planning	Jr. Environmental-Planning	Project Coordinator-Admin	Total Hours by Task (Jacobs)	Subconsultants - Hours*	Subconsultants - Cost*	Total \$ by Task (Doesn't include Sub cost*)
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WBS Code	Description		\$235.00	\$225.00	\$185.00	\$150.00	\$130.00	\$105.00	\$60.00	\$125.00	\$290.00	\$160.00	\$120.00	\$90.00	\$60.00			
160.000	Perform Preliminary Engineering Studies And Draft Project Report - EIR/EIS		144	698	1780	1732	1088	1172	64	4	36	6	8		12	6744		\$ 1,061,910
160.050	Updated Project Information		16	40	160	160	40	80	20		8					524		\$ 83,480
160.05	Prepare and Approved PSR-PDS (Prepare Draft, circulated for review, update final, and process approvals)		16	40	160	160	40	80	20		8					524		\$ 83,480
160.100	Engineering Studies		104	558	1,240	1,192	908	972	4		14	2				4,994		\$ 782,910
160.05.20	Collect Traffic Count Data	Subconsultant	4	8	20											32		\$ 6,440
160.10.10	Traffic Forecasting	Subconsultant	4	8	20											32	359	\$ 50,864
160.10.15	Geometric Plans For Project Alternatives (assume 3 alignment alternatives)		32	260	440	460	460	460								2112	79	\$ 11,961
160.10.16	Construction Phasing Plans (60% Plans for 1 alignment 2-lane rwy, at-grade intersections, no ICs)		32	160	320	320	220	340								1392		\$ 215,020
160.10.20	Value Analysis	Subconsultant	16	48	48	48	20	20	4		4					208	258	\$31,522.32
160.10.25	Hydraulics/Hydrology Studies			4	80	40	40									164		\$ 26,900
160.10.25	Drainage Concept Plans			8	40	40	40	40								168		\$ 24,600
160.10.25	Storm Water Data Report			4	80	60	40									184		\$ 29,900
160.10.35	Traffic Operational Analysis	Subconsultant	4	8	16	16										44	194	\$ 25,970
160.10.40	Right Of Way Data Sheet	Subconsultant	2	2	8							2				14	210	\$ 19,950
160.10.15	Determine Right-of-Way Requirements		2	8	32	40	40	40								162		\$ 23,590
160.10.15	Utility Location Requirements	Subconsultant	2	4	20	40	40	40								144	90	\$ 14,000
160.10.50	Railroad Study		2	4	20	40	8	8			2					84		\$ 13,530
160.10.60	Park And Ride Study			4	8	16		8			2					38		\$ 6,200
160.10.70	Traffic Studies	Subconsultant	4	8	16						4					32	140	\$ 21,042
160.10.80	Geotechnical Information	Subconsultant		4	8	8										20	722	\$ 111,295
160.10.85	Structures Advance Planning Study	Subconsultant		8	32	32										72	1280	\$ 135,060
160.10.95	Preliminary Transportation Management Plan		2	8	32	32		16			2					92		\$ 15,250
160.150	Draft Project Report		24	100	380	380	140	120	40		6	4	8		4	1206		\$ 192,220
160.15.05	Cost Estimates For Alternatives		4	8	20	40	40									112		\$ 17,640
160.15.10	Fact Sheet For Exceptions To Design Standards		4	16	60	40	40	20								180		\$ 28,940
160.15.20	Draft Project Report		8	60	220	220	40	80	20		4	4	8		2	666		\$ 106,760
160.15.25	Draft Project Report Circulation, Review, And Approval		8	16	80	80	20	20	20		2				2	248		\$ 38,880
160.200	Engineering & Land Net Surveys - Lexington Alignment (See line item @ the end of this fee proposal)																	\$ -
	Existing Records																	\$ -
160.20.55	Survey Control																	\$ -
160.20.55	Aerial Topographic Mapping																	\$ -
160.20.55	Field Design Surveys																	\$ -
160.20.55	Base Mapping																	\$ -
	NEPA Delegation										4	8			8	20		\$ 3,300
																		\$ -
165.000	Perform Environmental Studies And Prepare Draft Environmental Document -EIR/EIS		46	32	44			44	38	760	514	916	828	1340	658	5220		\$ 683,110
	Environmental Study Request		16	8	24			40	32		12	20	32			184		\$ 26,640
	Surveys And Mapping For Environmental Studies										4	8	16			28		\$ 4,360
	Property Access Rights For Environmental/Engineering Studies (PTE letters)		16	8	24			40	32		8	12	16			156		\$ 22,280
165.050	Environmental Scoping Of Alternatives Identified For Studies In PID		14	10	4				2	38	20	20	28	56	8	200		\$ 29,030
165.05.05	Project Information Review		2								2	8	16	24		52		\$ 6,410
165.05.10	NOI and NOP for Public And Agency Scoping Process		8	8					2	8						26		\$ 4,800
165.05.15	Alternatives For Further Study		4	2	4					30	18	12	12	32	8	122		\$ 17,820
165.100	General Environmental Studies				2			4		440	174	288	302	564	162	1936		\$ 249,050
165.10.15	Community Impact Analysis, Land Use, And Growth Studies									80	80	60	80	120	30	450		\$ 65,000
165.10.20	Visual Impact Assessment And Scenic Resource Evaluation									180	40	18	60	90	30	418		\$ 54,080
165.10.25	Noise Study	Subconsultant									2	10				12	755	\$ 96,665
165.10.30	Air Quality Study	Subconsultant			2			4			2	10				18	254	\$ 24,805
165.10.35	Water Quality Studies									60	8	90	30	120	18	326		\$ 39,700
165.10.40	Energy Studies	Subconsultant									2	8				10	270	\$ 26,805
165.10.45	Summary Of Geotechnical Report	Subconsultant									2	8				10	15	\$ 1,650
165.10.50	Hazardous Waste Preliminary Site Investigations	Subconsultant									2	8				10	813	\$ 119,340
165.10.55	Draft Right Of Way Relocation Impact Document									30	8		60	120	30	248		\$ 25,870
165.10.60	Location Hydraulic And Floodplain Study Report									60	4	60	60	90	30	304		\$ 35,360
165.10.65	Paleontology Study	Subconsultant									2	8				10	26	\$ 3,040
165.10.70	Wild And Scenic Rivers Coordination	N/A																\$ -
165.10.75	Environmental Commitments Record									6						12	18	\$ 2,460
165.10.99	Other Environmental Studies									30	16	8	12	24	12	102		\$ 13,990

North County Corridor Joint Powers Authority



WBS Code	Description															Total Hours by Task (Jacobs)	Subconsultants - Hours*	Subconsultants - Cost*	Total \$ by Task (Doesn't include Sub cost*)					
			\$235.00	\$225.00	\$185.00	\$150.00	\$130.00	\$105.00	\$60.00	\$125.00	\$290.00	\$160.00	\$120.00	\$90.00	\$60.00									
165.150	Biological Studies										8	16	32					56		\$	10,760			
165.15.05	Biological Assessment	Subconsultant										4	4	8				16	499	\$	59,790	\$	2,940	
165.15.10	Wetlands Study	Subconsultant										4	4	8				16	1021	\$	130,830	\$	2,940	
165.15.15	Resource Agency Permit Related Coordination	Subconsultant											4	8				12	104	\$	13,880	\$	2,440	
165.15.20	Natural Environment Study Report	Subconsultant											4	8				12	1422	\$	176,155	\$	2,440	
165.200	Cultural Resource Studies										16	12	30					58		\$	10,280			
165.20.05	Archaeological Survey	Subconsultant									16	12	18					46		\$	8,360			
165.20.05.05	Area Of Potential Effects/Study Area Maps	Subconsultant																	60	\$	9,790	\$	-	
165.20.05.10	Native American Consultation	Subconsultant																	30	\$	3,240	\$	-	
165.20.05.15	Records And Literature Search	Subconsultant																	20	\$	2,320	\$	-	
165.20.05.20	Field Survey	Subconsultant																	526	\$	60,440	\$	-	
165.20.05.25	Archaeological Survey Report	Subconsultant																	298	\$	33,145	\$	-	
165.20.05.99	Other Archaeological Survey Products	Subconsultant																				\$	-	
165.20.10	Extended Phase I Archaeological Studies (No sub-surface investigations)	Subconsultant																	658	\$	74,225	\$	-	
165.20.10.05	Native American Consultation	Subconsultant																				\$	-	
165.20.10.10	Extended Phase I Proposal	Subconsultant																				\$	-	
165.20.10.15	Extended Phase I Field Investigation	Subconsultant																				\$	-	
165.20.10.20	Extended Phase I Materials Analysis	Subconsultant																				\$	-	
165.20.10.25	Extended Phase I Report	Subconsultant																				\$	-	
165.20.15	Phase II Archaeological Studies	Subconsultant																				\$	-	
165.20.15.05	Native American Consultation	Subconsultant																				\$	-	
165.20.15.10	Phase II Proposal	Subconsultant																				\$	-	
165.20.15.15	Phase II Field Investigation	Subconsultant																				\$	-	
165.20.15.20	Phase II Materials Analysis	Subconsultant																				\$	-	
165.20.15.25	Phase II Report	Subconsultant																				\$	-	
165.20.20	Historical And Architectural Resource Studies	Subconsultant																				\$	-	
165.20.20.05	Preliminary Area Of Potential Effects/Study Area Maps For Architecture	Subconsultant																		79	\$	8,980	\$	-
165.20.20.10	Historic Resources Evaluation Report - Archaeology	Subconsultant																				\$	-	
165.20.20.15	Historic Resource Evaluation Report- Architecture (HRER)	Subconsultant																		867	\$	93,170	\$	-
165.20.20.20	Bridge Evaluation	Subconsultant																				\$	-	
165.20.25	Cultural Resource Compliance Consultation Documents	Subconsultant																				\$	-	
165.20.25.05	Final Area Of Potential Effects/Study Area Maps	Subconsultant																				\$	-	
165.20.25.10	PRC 5024.5 Consultation	Subconsultant																				\$	-	
165.20.25.15	Historic Property Survey Report/Historic Resources Compliance Report	Subconsultant																		174	\$	18,420	\$	-
165.20.25.20	Finding Of Effect	Subconsultant												4					4	91	\$	11,660	\$	640
165.20.25.25	Archaeological Data Recovery Plan/Treatment Plan	Subconsultant												4					4			\$	640	
165.20.25.30	Memorandum Of Agreement	Subconsultant												4					4	125	\$	16,220	\$	640
165.250	Draft Environmental Document		16	14	14					4	258	248	492	450	720	442	2658			\$	337,950			
165.25.05	Draft Environmental Document Analysis		8	8	8						120	100	180	200	360	160	1144	800	\$	64,880	\$	143,960		
165.25.05	Develop Purpose and Need		2	2	2							16	32	40	40		134				\$	19,450		
165.25.05	Alternatives Development and Screening		2	2	2							24	40	20			90				\$	17,050		
165.25.05	Environmental Commitments Record											8			40		48				\$	5,920		
165.25.10	Section 4(F) Evaluation										30	8	80	30	120	30	298				\$	35,070		
165.25.15	Categorical Exemption/Categorical Exclusion Determination	N/A																			\$	-		
165.25.20	Environmental Quality Control And Other Reviews	Subconsultant	4	2	2					4	100	80	160	160	160	240	912	311	\$	40,060	\$	111,300		
165.25.25	Approval To Circulate Resolution	N/A																			\$	-		
165.25.30	Environmental Coordination	N/A																			\$	-		
165.300	NEPA Delegation										4	8				6	18				\$	3,180		
165.450	Identification of Required Permits During PA&ED Development										4	4				6	14				\$	2,020		
165.500	Permits During PA&ED Development											32	34	16		46	128			\$	19,400			
165.50.05	U.S. Army Corps Of Engineers Permit (404)											4				2	6				\$	1,280		
165.50.10	U.S. Forest Service Permit(s)	N/A																			\$	-		
165.50.15	U.S. Coast Guard Permit	N/A																			\$	-		
165.50.20	Department Of Fish & Game 1600 Agreement(s)											4				2	6				\$	1,280		
165.50.25	Coastal Zone Development Permit	N/A																			\$	-		
165.50.30	Local Agency Concurrence/Permit											4				2	6				\$	1,280		
165.50.35	Waste Discharge (NPDES) Permit												10			4	14				\$	1,840		
165.50.40	U.S. Fish And Wildlife Service Approval												8			2	10				\$	1,400		
165.50.45	Regional Water Quality Control Board 401 Permit												8			2	10				\$	1,400		
165.50.50	Updated Environmental Commitments Record												4	8	16	16	44				\$	5,320		
165.50.55	NEPA Delegation											16				16	32				\$	5,600		
165.50.95	Other Permits	N/A																			\$	-		

North County Corridor Joint Powers Authority



Project Manager	Dep. PM/Engineering Lead	Senior Engineer	Project Engineer I	Project Engineer II	CADD Designer	Project Admin	CADD/GIS	Environmental Lead	Sr Planner	Environmental Planning	Jr. Environmental Planning	Project Coordinator-Admin	Total Hours by Task (Jacobs)	Subconsultants - Hours*	Subconsultants - Cost*	Total \$ by Task (Doesn't include Sub cost)
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WBS Code	Description		\$235.00	\$225.00	\$185.00	\$150.00	\$130.00	\$105.00	\$60.00	\$125.00	\$290.00	\$160.00	\$120.00	\$90.00	\$60.00				
175.000	Circulate Draft Environmental Document And Select Preferred Project Alternative - EIR/EIS		32	26	14			16	8	206	90	92	62	60	174	780			\$ 107,970
175.050	DED Circulation									24	18	12	16	48	48	166			\$ 19,260
175.05.05	Master Distribution And Invitation Lists										4		8		16	28			\$ 3,080
175.05.10	Notices Regarding Public Hearing And Availability Of Draft Environmental Document									16	6	4	4	24	16	70			\$ 7,980
175.05.15	DED Publication And Circulation									8	8	8	4	24	16	68			\$ 8,200
175.05.20	Federal Consistency Determination (Coastal Zone)	N/A																	\$ -
175.100	Public Hearing Under Consensus Building		32	26	14			16	8	174	52	72	40		114	548			\$ 78,110
175.10.05	Need For Public Hearing Determination																		\$ -
175.10.10	Public Hearing Logistics	Subconsultant	4						8	8	8	8			12	48			\$ 6,740
175.10.15	Displays For Public Hearing	Subconsultant	2		4			8		90	6	8			18	136			\$ 17,400
175.10.20	Second Notices Of Public Hearing And Availability Of DED	Subconsultant								12	2				16	30			\$ 3,040
175.10.25	Map Display And Public Hearing Plan	Subconsultant								32	8	8			10	58			\$ 8,200
175.10.30	Display Public Hearing Maps	Subconsultant			4			8		6	2				4	24			\$ 3,150
175.10.35	Public Hearing	Subconsultant	20	20						12	12	12			18	94			\$ 17,180
175.10.40	Record Of Public Hearing	Subconsultant		2						6	6	24			30	68			\$ 8,580
175.150	Public Comment Responses And Correspondence		6	4	6					8	8	12	40		6	90			\$ 13,820
175.200	Project Preferred Alternative									8	12	8	6	12	4	50			\$ 7,800
175.250	NEPA Delegation										8				8	16			\$ 2,800
180.000	Prepare And Approve Project Report And Final Environmental Document - EIR/EIS		54	136	294	296	140	316	62	294	388	504	638	1042	452	4616			\$ 624,550
180.050	Final Project Report		36	128	280	296	140	316	12							1208			\$ 185,560
180.05.05	Updated Draft Project Report (prepared Project Report)		16	60	120	120	20	80	4							420			\$ 68,700
180.05.10	Approved Project Report(includes CT review of Draft & final PR and updates)		16	32	40	16	16	16								136			\$ 24,520
180.05.15	Updated Storm Water Data Report			4	40		24		8							76			\$ 11,900
180.05.20	Geometric Approval Drawings (GAD) for Selected Alternative		4	32	80	160	80	220								576			\$ 80,440
180.100	Final Environmental Document		18	8	14				50	278	340	490	624	938	396	3156			\$ 406,430
180.10.05	Approved Final Environmental Document	Subconsultant															422	\$ 34,260	\$ -
180.10.05.05	Draft Final Environmental Document									40	60	100	100	240	160	700			\$ 81,600
	Environmental Quality Control And Other Reviews for FED									40	60	100	100	160	60	520			\$ 68,400
	Prepare Response to Comments		12	8	12				50	40	60	80	100	160	80	602			\$ 76,240
	Environmental Quality Control And Other Reviews for Responses		2							40	60	100	160	240	60	662			\$ 83,270
180.10.05.15	Section 4(f) Evaluation									12	6	18	24	12	4	76			\$ 10,320
180.10.05.20	Findings										4	4	4	4	4	20			\$ 2,880
180.10.05.25	Statement Of Overriding Considerations		2								4	8	16	8	4	42			\$ 5,790
180.10.05.30	CEQA Certification										2			2	4	8			\$ 1,000
180.10.05.35	FHWA Approval										6	4	4	8	4	26			\$ 3,820
180.10.05.40	Section 106 Consultation And MOA	Subconsultant								6	12	18	6	8		50			\$ 8,550
180.10.05.45	Section 7 Consultation	Subconsultant								12	16	18	6	8		60			\$ 10,460
180.10.05.50	Final Section 4(f) Statement									12	12	12	6	8		50			\$ 8,340
180.10.05.55	Floodplain Only Practicable Alternative Finding									12	4	4	12	8		40			\$ 5,460
180.10.05.60	Wetlands Only Practicable Alternative Finding									12	4	4	12	8		40			\$ 5,460
180.10.05.65	Section 404 Compliance									12	4	4	12	8		40			\$ 5,460
180.10.05.70	Mitigation Measures (Environmental Commitment List)		2		2					4	6	4	24	32		74			\$ 9,480
180.10.10	Public Distribution Of FED And Respond To Comments									12	16	12	8	8	4	60			\$ 9,980
180.10.15	Final Right Of Way Relocation Impact Document									24	4		30	16	12	86			\$ 9,920
180.150	Completed Environmental Document									16	32	14	14	104	48	228			\$ 27,440
180.15.05	Record Of Decision (NEPA)									4	16	4	4	40	4	72			\$ 10,100
180.15.10	Notice Of Determination (CEQA)									4	4	2	2	24	4	40			\$ 4,620
180.15.15	Environmental Commitments Record									8	12	8	8	40	40	116			\$ 12,720
180.200	NEPA Delegation										16				8	24			\$ 5,120
																			\$ -
		Total	2,126	2,257	3,070	2,028	1,348	1,808	1,598	1,288	1,710	1,867	1,648	2,466	1,448	24,662			\$ 3,802,745

950,686.25

North County Corridor Joint Powers Authority



			Project Manager	Dep. PM/Engineering Lead	Senior Engineer	Project Engineer I	Project Engineer II	CADD Designer	Project Admin	CADD/GIS	Environmental Lead	Sr Planner	Environmental Planning	Jr. Environmental Planning	Project Coordinator-Admin	Total Hours by Task (Jacobs)	Subconsultants - Hours*	Subconsultants - Cost*	Total \$ by Task (Doesn't include Sub cost...)
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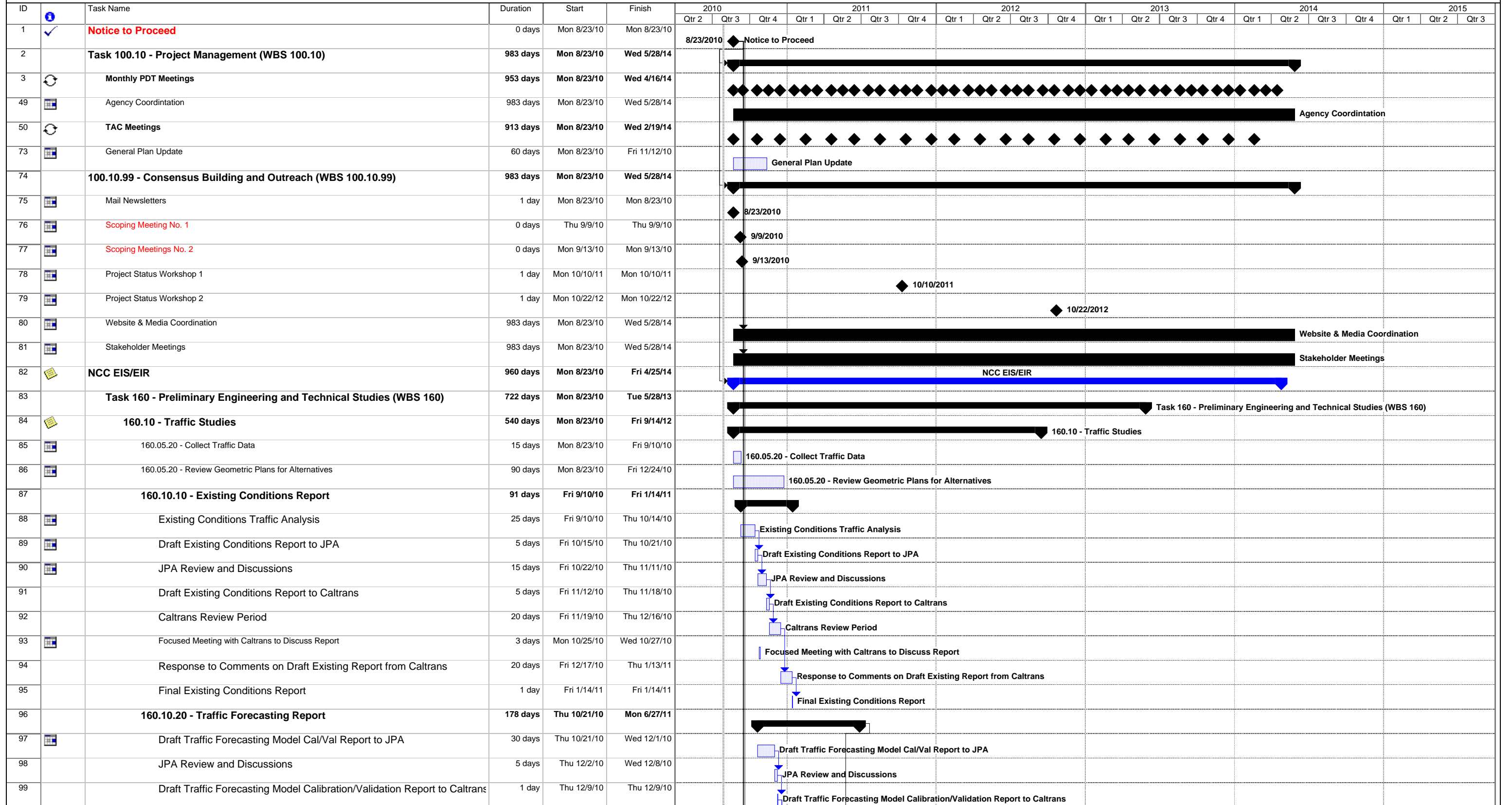
WBS Code	Description	\$235.00	\$225.00	\$185.00	\$150.00	\$130.00	\$105.00	\$60.00	\$125.00	\$290.00	\$160.00	\$120.00	\$90.00	\$60.00				
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Salary Escalation		No.	Rate/Yr	
	Years	4	4%	
				\$ 234,309.94
Direct and Outside Expenses				
Postage and Deliveries			\$7,110.65	
Project Controls 2 hrs per week @ \$150 per hr			\$80,640.00	
Travel 2 Trips per week \$0.58 per Mile 168 Miles			\$43,653.12	
Reproduction Services			\$87,000.00	
Equipment and Miscellaneous			\$10,800.00	
Total			\$229,203.77	\$ 229,203.77
Subconsultant				
	Task No			
Bridge APS	106.05.20		\$ 147,778.00	
Public Outreach - EIR/EIS	100.10.99		\$ 206,750.00	
Env Study and Technical Support	165.10		\$ 1,120,831.00	
Value Analysis - EIR/EIS	160		\$ 36,072.00	
Traffic Studies - EIR/EIS	160		\$ 431,936.00	
Geotechnical & ISA Reports	160 & 165.10.50		\$ 350,000.00	
Strategic Public Outreach	100.10.99		\$ 21,888.00	
Right of Way Data Sheets	160		\$ 20,450.00	
Utility Location/Coordination	160		\$ 14,415.00	
Total			\$ 2,350,120.00	\$ 2,350,120.00
* NOTE: Subconsultant hours and cost shown in the columns above are for budget management purposes. It does not reflect ODC's and other PM work. Some subtask have been rolled into other work				
Subconsultant and Project Controls Mark-up				
	5%		\$ 117,506.00	\$ 117,506.00
Surveys Lexington			\$ 43,432.00	\$ 43,432.00
Total Jacobs				\$4,427,196.71
Subtotal Cost (Jacobs + Subs)				\$6,777,316.71
10% Reduction for Jacobs, ICF, CildePoint & F & P				\$597,996.37
Total Cost				\$6,179,320.34

\$ 988,713.70
 \$ 1,028,262.25
 \$ 1,069,392.74

NORTH COUNTY CORRIDOR

State Route 99 to SR 108/120 East of Oakdale



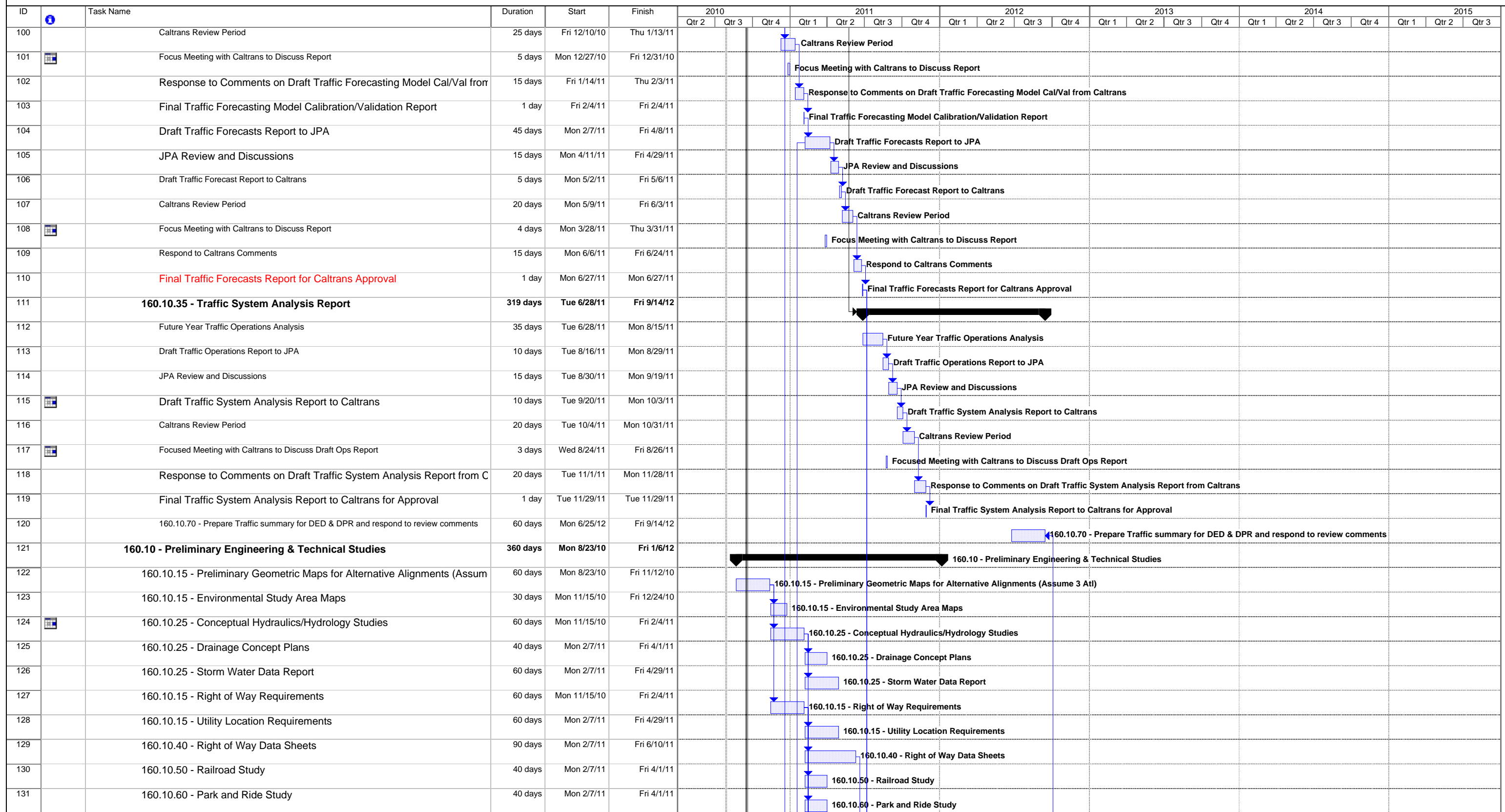
NORTH COUNTY CORRIDOR
State Route 99 to SR 108/120 East of Oakdale

Task: [Blue Box] Progress: [Black Bar] Summary: [Black Bar] Rolled Up Critical Task: [Red Box] Rolled Up Progress: [Black Bar] External Tasks: [Grey Bar] Group By SummTask: [Black Bar]

Critical Task: [Red Box] Milestone: [Black Diamond] Rolled Up Task: [Black Diamond] Rolled Up Milestone: [White Diamond] Split: [Dotted Line] Project Summary: [Grey Bar]

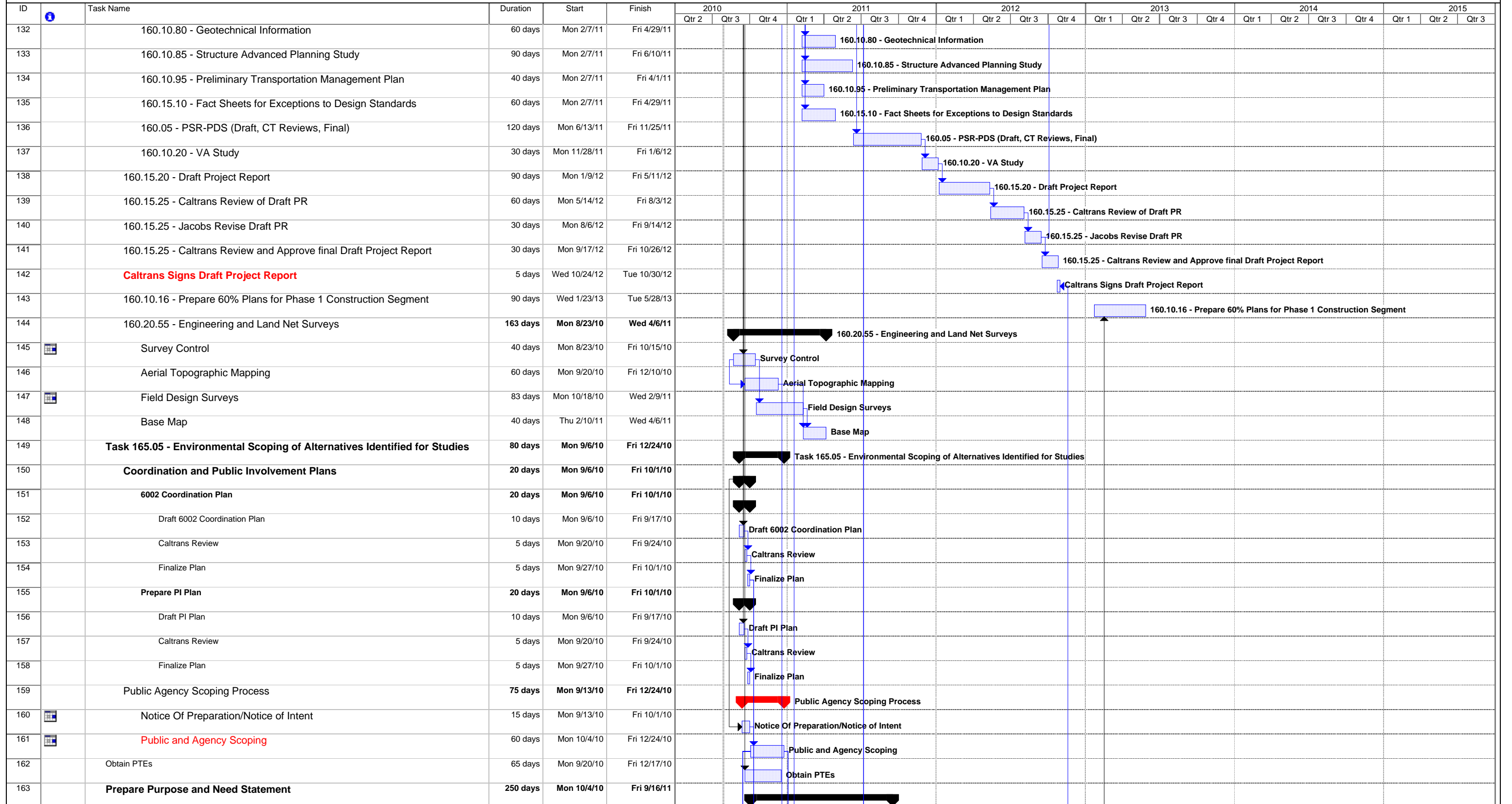
NORTH COUNTY CORRIDOR

State Route 99 to SR 108/120 East of Oakdale



Task Progress Critical Task
 Milestone Summary Rolled Up Task Rolled Up Milestone Rolled Up Critical Task Split External Tasks Project Summary Group By SummTask

NORTH COUNTY CORRIDOR State Route 99 to SR 108/120 East of Oakdale



NORTH COUNTY CORRIDOR
State Route 99 to SR 108/120
East of Oakdale

Task Progress
Critical Task Milestone

Summary
Rolloled Up Task

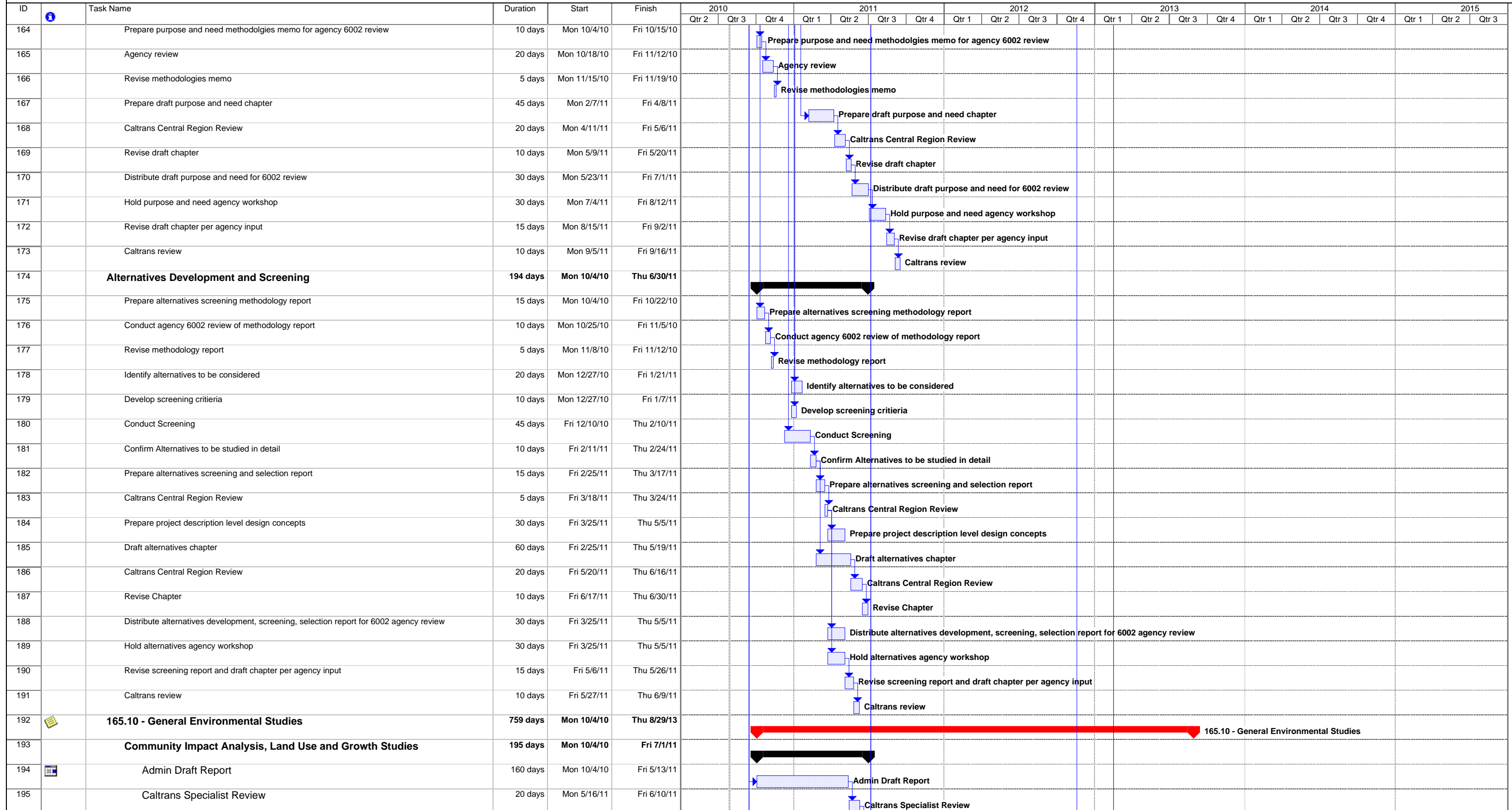
Rolloled Up Critical Task
Rolloled Up Milestone

Rolloled Up Progress
Split

External Tasks
Project Summary
Group By SummTask

NORTH COUNTY CORRIDOR

State Route 99 to SR 108/120 East of Oakdale



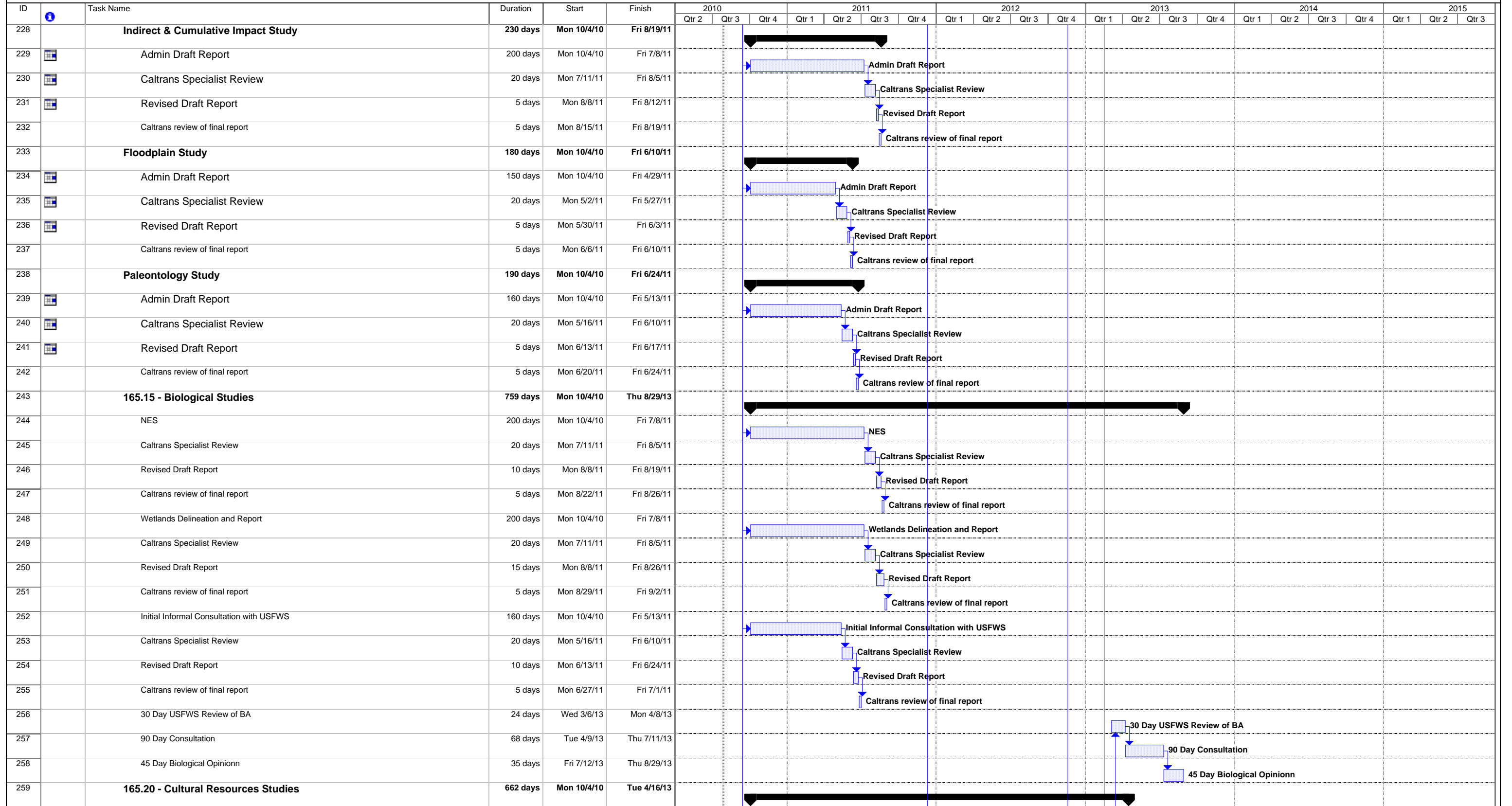
NORTH COUNTY CORRIDOR
State Route 99 to SR 108/120
East of Oakdale

Task		Progress		Summary		Rolled Up Critical Task		Rolled Up Progress		External Tasks		Group By SummTask	
Critical Task		Milestone		Rolled Up Task		Rolled Up Milestone		Split		Project Summary			

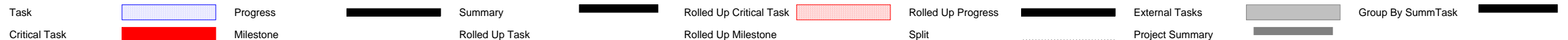


NORTH COUNTY CORRIDOR

State Route 99 to SR 108/120 East of Oakdale



NORTH COUNTY CORRIDOR
State Route 99 to SR 108/120
East of Oakdale



NORTH COUNTY CORRIDOR

State Route 99 to SR 108/120 East of Oakdale

ID	Task Name	Duration	Start	Finish	2010				2011				2012				2013				2014				2015													
					Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3												
260	APE	40 days	Mon 10/4/10	Fri 11/26/10																																		
261	Caltrans Specialist Review	10 days	Mon 11/29/10	Fri 12/10/10																																		
262	Revised Draft Report	5 days	Mon 12/13/10	Fri 12/17/10																																		
263	Caltrans review of final report	5 days	Mon 12/20/10	Fri 12/24/10																																		
264	Extended Phase 1 Survey Plan	20 days	Mon 12/13/10	Fri 1/7/11																																		
265	Caltrans Specialist Review	20 days	Mon 1/10/11	Fri 2/4/11																																		
266	Revised Draft Report	15 days	Mon 2/7/11	Fri 2/25/11																																		
267	Caltrans review of final report	5 days	Mon 2/28/11	Fri 3/4/11																																		
268	Extended Phase 1 Survey Report (ASR)	80 days	Mon 2/7/11	Fri 5/27/11																																		
269	Caltrans Specialist Review	10 days	Mon 5/30/11	Fri 6/10/11																																		
270	Revised Draft Report	5 days	Mon 6/13/11	Fri 6/17/11																																		
271	Caltrans review of final report	5 days	Mon 6/20/11	Fri 6/24/11																																		
272	HRER	80 days	Mon 2/7/11	Fri 5/27/11																																		
273	Caltrans Specialist Review	20 days	Mon 5/30/11	Fri 6/24/11																																		
274	Revised Draft Report	5 days	Mon 6/27/11	Fri 7/1/11																																		
275	Caltrans review of final report	5 days	Mon 7/4/11	Fri 7/8/11																																		
276	HPSR	40 days	Mon 7/11/11	Fri 9/2/11																																		
277	Caltrans Specialist Review	10 days	Mon 9/5/11	Fri 9/16/11																																		
278	Revised Draft Report	10 days	Mon 9/19/11	Fri 9/30/11																																		
279	Caltrans review of final report	5 days	Mon 10/3/11	Fri 10/7/11																																		
280	FOE	30 days	Mon 6/27/11	Fri 8/5/11																																		
281	Caltrans Specialist Review	10 days	Mon 8/8/11	Fri 8/19/11																																		
282	Revised Draft Report	5 days	Mon 8/22/11	Fri 8/26/11																																		
283	Caltrans review of final report	5 days	Mon 8/29/11	Fri 9/2/11																																		
284	MOA	20 days	Wed 3/6/13	Tue 4/2/13																																		
285	Caltrans Specialist Review	5 days	Wed 4/3/13	Tue 4/9/13																																		
286	Revised Draft Report	3 days	Wed 4/10/13	Fri 4/12/13																																		
287	Caltrans review of final report	2 days	Mon 4/15/13	Tue 4/16/13																																		
288	165.25 - Draft Environmental Document	272 days	Fri 12/2/11	Mon 12/17/12																																		
289	Prepare Admin DEIS/DEIR	20 days	Fri 12/2/11	Thu 12/29/11																																		
290	PEER Review (Jacobs)	5 days	Fri 12/30/11	Thu 1/5/12																																		
291	Technical Editing (Jones and Stokes)	15 days	Fri 1/6/12	Thu 1/26/12																																		

NORTH COUNTY CORRIDOR
State Route 99 to SR 108/120 East of Oakdale

Task		Progress		Summary		Rolloled Up Critical Task		Rolloled Up Progress		External Tasks		Group By SummTask	
Critical Task		Milestone		Rolloled Up Task		Rolloled Up Milestone		Split		Project Summary			

NORTH COUNTY CORRIDOR
State Route 99 to SR 108/120 East of Oakdale

ID	Task Name	Duration	Start	Finish	2010				2011				2012				2013				2014				2015		
					Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	
292	Senior Review (Jacobs)	10 days	Fri 1/27/12	Thu 2/9/12																							
293	Final proof and production (Jacobs)	5 days	Fri 2/10/12	Thu 2/16/12																							
294	Submit to Caltrans	1 day	Fri 2/17/12	Fri 2/17/12																							
295	Caltrans Central Region and Authority review	30 days	Mon 2/20/12	Fri 3/30/12																							
296	Revisions (Jacobs)	15 days	Mon 4/2/12	Fri 4/20/12																							
297	Caltrans Central Region and Authority Review	20 days	Mon 4/23/12	Fri 5/18/12																							
298	Final proof and production (Jacobs)	5 days	Mon 5/21/12	Fri 5/25/12																							
299	Caltrans QC Review	23 days	Mon 5/28/12	Wed 6/27/12																							
300	Comment Resolution and Revision	20 days	Thu 6/28/12	Wed 7/25/12																							
301	Caltrans Central Region Review	5 days	Thu 7/26/12	Wed 8/1/12																							
302	Caltrans Legal Review	23 days	Thu 8/2/12	Mon 9/3/12																							
303	Comment Resolution and Revision	15 days	Tue 9/4/12	Mon 9/24/12																							
304	Caltrans Legal and Central Region Review	10 days	Tue 9/25/12	Mon 10/8/12																							
305	Document Signature	5 days	Tue 10/9/12	Mon 10/15/12																							
306	Production	10 days	Tue 10/16/12	Mon 10/29/12																							
307	Caltrans approval to Circulate DED	1 day	Tue 10/30/12	Tue 10/30/12																							
308	JPA select LPA	20 days	Fri 12/2/11	Thu 12/29/11																							
309	Final Right of Way Relocation Impact Document	15 days	Fri 12/30/11	Thu 1/19/12																							
310	Updated Environmental Commitment Record	34 days	Wed 10/31/12	Mon 12/17/12																							
311	Task 175 - Circulate Draft Env Doc and Select Preferred Project Alternative	60 days	Wed 10/31/12	Tue 1/22/13																							
312	DED Circulation	60 days	Wed 10/31/12	Tue 1/22/13																							
313	Public Hearings	2 days	Wed 11/21/12	Thu 11/22/12																							
314	Local Agency Resolutions	20 days	Wed 10/31/12	Tue 11/27/12																							
315	StanCOG	20 days	Wed 10/31/12	Tue 11/27/12																							
316	City of Riverbank	20 days	Wed 10/31/12	Tue 11/27/12																							
317	City of Modesto	20 days	Wed 10/31/12	Tue 11/27/12																							
318	City of Oakdale	20 days	Wed 10/31/12	Tue 11/27/12																							
319	Stanislaus County	20 days	Wed 10/31/12	Tue 11/27/12																							
320	Task 180 - Prepare and Approve Project Report and Final EIR/EIS	297 days	Wed 1/23/13	Thu 3/13/14																							
321	Prepare draft Final Project Report	90 days	Wed 1/23/13	Tue 5/28/13																							
322	Geometric Approval Drawings for Selected Alternative	90 days	Wed 1/23/13	Tue 5/28/13																							
323	Update Storm Water Data Report	60 days	Wed 1/23/13	Tue 4/16/13																							

NORTH COUNTY CORRIDOR
State Route 99 to SR 108/120
East of Oakdale

Task Progress Summary Rolled Up Critical Task Rolled Up Progress External Tasks Group By SummTask
Critical Task Milestone Rolled Up Task Rolled Up Milestone Split Project Summary

NORTH COUNTY CORRIDOR

State Route 99 to SR 108/120 East of Oakdale

ID	Task Name	Duration	Start	Finish	2010			2011			2012			2013			2014			2015			
					Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	
324	Caltrans Review draft Final Project Report	60 days	Wed 5/29/13	Tue 8/20/13																			
325	Jacobs updates Final Project Report	30 days	Wed 8/21/13	Tue 10/1/13																			
326	Caltrans Review and Approves Final Project Report	30 days	Wed 10/2/13	Tue 11/12/13																			
327	Caltrans Signs Final Project Report	5 days	Fri 1/31/14	Thu 2/6/14																			
328	Draft Final EIR/EIS	267 days	Wed 1/23/13	Thu 1/30/14																			
329	Caltrans identifies Preferred Alternative	30 days	Wed 1/23/13	Tue 3/5/13																			
330	Prepare Draft Final EIS/EIR	30 days	Wed 1/23/13	Tue 3/5/13																			
331	PEER Review	10 days	Wed 3/6/13	Tue 3/19/13																			
332	Technical Editing (Jones and Stokes)	20 days	Wed 3/20/13	Tue 4/16/13																			
333	Senior Review (Jacobs)	10 days	Wed 4/17/13	Tue 4/30/13																			
334	Final proof and production (Jacobs)	5 days	Wed 5/1/13	Tue 5/7/13																			
335	Submit to Caltrans	1 day	Wed 5/8/13	Wed 5/8/13																			
336	Caltrans Central Region and Authority review	30 days	Thu 5/9/13	Wed 6/19/13																			
337	Revisions (Jacobs)	20 days	Thu 6/20/13	Wed 7/17/13																			
338	Caltrans Central Region and Authority Review and Approval of DED	20 days	Thu 7/18/13	Wed 8/14/13																			
339	Final proof and production (Jacobs)	15 days	Thu 8/15/13	Wed 9/4/13																			
340	Caltrans QC Review	23 days	Thu 9/5/13	Mon 10/7/13																			
341	Cooperating and Participating Agency 6002 Review	23 days	Thu 9/5/13	Mon 10/7/13																			
342	Comment Resolution and Revision	20 days	Tue 10/8/13	Mon 11/4/13																			
343	Caltrans Central Region Review	10 days	Tue 11/5/13	Mon 11/18/13																			
344	Caltrans Legal Review	23 days	Tue 11/19/13	Thu 12/19/13																			
345	Comment Resolution and Revision	15 days	Fri 12/20/13	Thu 1/9/14																			
346	Caltrans Legal and Central Region Review	10 days	Fri 1/10/14	Thu 1/23/14																			
347	Document Signature	5 days	Fri 1/24/14	Thu 1/30/14																			
348	Response to Comments	237 days	Wed 1/23/13	Thu 12/19/13																			
349	Prepare Response to Comments (Jacobs)	30 days	Wed 1/23/13	Tue 3/5/13																			
350	PEER Review	10 days	Wed 3/6/13	Tue 3/19/13																			
351	Technical Editing (Jones and Stokes)	20 days	Wed 3/20/13	Tue 4/16/13																			
352	Senior Review (Jacobs)	10 days	Wed 4/17/13	Tue 4/30/13																			
353	Final proof and production (Jacobs)	5 days	Wed 5/1/13	Tue 5/7/13																			
354	Submit to Caltrans	1 day	Wed 5/8/13	Wed 5/8/13																			
355	Caltrans Central Region and Authority review	20 days	Thu 5/9/13	Wed 6/5/13																			

NORTH COUNTY CORRIDOR
State Route 99 to SR 108/120
East of Oakdale

Task		Progress		Summary		Rolled Up Critical Task		Rolled Up Progress		External Tasks		Group By SummTask	
Critical Task		Milestone		Rolled Up Task		Rolled Up Milestone		Split		Project Summary			

NCC JOINT POWERS AUTHORITY
Stanislaus County, Modesto, Riverbank, Oakdale, Stanislaus Council of Governments, & Caltrans District 10



NORTH COUNTY CORRIDOR

State Route 99 to SR 108/120 East of Oakdale

ID	Task Name	Duration	Start	Finish	2010				2011				2012				2013				2014				2015		
					Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	
356	Revisions (Jacobs)	15 days	Thu 6/6/13	Wed 6/26/13																							
357	Caltrans Central Region and Authority Review and Approval of DED	20 days	Thu 6/27/13	Wed 7/24/13																							
358	Final proof and production (Jacobs)	10 days	Thu 7/25/13	Wed 8/7/13																							
359	Caltrans QC Review	23 days	Thu 8/8/13	Mon 9/9/13																							
360	Comment Resolution and Revision	20 days	Tue 9/10/13	Mon 10/7/13																							
361	Caltrans Central Region Review	5 days	Tue 10/8/13	Mon 10/14/13																							
362	Caltrans Legal Review	23 days	Tue 10/15/13	Thu 11/14/13																							
363	Comment Resolution and Revision	15 days	Fri 11/15/13	Thu 12/5/13																							
364	Caltrans Legal and Central Region Review	10 days	Fri 12/6/13	Thu 12/19/13																							
365	Final production (Jacobs)	10 days	Fri 1/31/14	Thu 2/13/14																							
366	Final EIS/EIR Circulation	20 days	Fri 2/14/14	Thu 3/13/14																							
367	180.15.05 - Certification and Record of Decision	31 days	Fri 3/14/14	Fri 4/25/14																							
368	Prepare ROD	31 days	Fri 3/14/14	Fri 4/25/14																							
369	Prepare Draft ROD	10 days	Fri 3/14/14	Thu 3/27/14																							
370	Caltrans Central Review	10 days	Fri 3/28/14	Thu 4/10/14																							
371	Revise ROD	5 days	Fri 4/11/14	Thu 4/17/14																							
372	Caltrans Review	5 days	Fri 4/18/14	Thu 4/24/14																							
373	ROD signature	1 day	Fri 4/25/14	Fri 4/25/14																							
374	EIR Certification	25 days	Fri 3/14/14	Thu 4/17/14																							
375	EIR Certification	15 days	Fri 3/14/14	Thu 4/3/14																							
376	CTC Action	10 days	Fri 4/4/14	Thu 4/17/14																							

NORTH COUNTY CORRIDOR
State Route 99 to SR 108/120
East of Oakdale

Task		Progress		Summary		Rollo Up Critical Task		Rollo Up Progress		External Tasks		Group By SummTask	
Critical Task		Milestone		Rollo Up Task		Rollo Up Milestone		Split		Project Summary			