

El Dorado County – DOT Task Order Form

Contract #	Task Order #	Amendment #
07-1435	12	NA
Project #	Index #	Contract Administrator
53124	305100	Matthew D. Smeltzer
Not-to-Exceed Amount*	Completion Date	Prepared By
\$1,110,000.00	See below	Karen Wilson
FHWA Funding	YES _____	NO <u> X </u>

Administration Use ONLY		
	Admin Staff	Date
Budget Verified:		
Contract Terms Verified (CSU):		

Consultant Name:	Quincy Engineering, Incorporated
Contract Title:	Project Planning, Design Engineering and Project Management Services in Support of Projects Associated with the U.S. 50/El Dorado Hills Boulevard Interchange Improvements Project
Task Order Name:	Prepare Plans, Specifications & Estimate for the U.S. 50 HOV Lanes Phase 0 Project
Scope of Work:	See attached pages 3 through 21.
Additional Provisions:	There are no federal provisions required with this Task Order.
List Authorized Sub-Contractors:	WRECO, Blackburn Consulting, Inc., R.E.Y. Engineers, Inc., Y&C Transportation Consultants, Inc., Bender Rosenthal, Inc.
Deliverables:	See attached pages 4 through 21
	Completion Date: The Later of Completion of Task Order or Contract Expiration
	Start Date: Effective Date

The parties indicated herein have executed this Task Order on the dates written below, the latest of which shall be deemed to be the effective date of this Task Order. No payment will be made for any work performed prior to the effective date of the Task Order. Unless otherwise indicated, receipt of this executed Task Order is your Notice to Proceed with the work specified herein.

<p>DOT Signatures:</p> <p>_____ Date _____</p> <p>Matthew D. Smeltzer, P.E. Deputy Director, Engineering Engineering Division and Contract Administrator</p> <p>_____ Date _____</p> <p>James W. Ware, P.E. Director of Transportation</p>	<p style="text-align: center;">- - Quincy Engineering, Incorporated - -</p> <p>_____ Date _____</p> <p>John S. Quincy President</p> <p>NOTES:</p> <p>1. This form is intended as a guide to identify minimum requirements of a Task Order. Task Orders must also be compliant with the provisions of the contract.</p> <p>2. Where a Task Order cannot be accommodated on this form; use as a cover (noting "See Attached" in the appropriate spaces above) to provide accounting codes, Admin authorization and signatures. Any substitute format must include all elements of this form for each item of work.</p> <p>* The not-to-exceed amount for this Task Order is based upon the attached Task Order Budget Form, which form is incorporated herein and made by reference a part hereof.</p>
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Quincy Engineering, Incorporated

Prepare Plans, Specifications & Estimate for the U.S. 50 HOV Lanes Phase 0 Project

Task Order # 07-1435-12

In accordance with ARTICLE I, Scope of Services, of Agreement for Services # AGMT 07-1435 (AGMT 07-1435), between the County of El Dorado (County) and Quincy Engineering, Incorporated (Consultant), Consultant shall accomplish the work described below in this Task Order # 07-1435-12.

TASK ORDER DESCRIPTION

Consultant shall implement the Items of Work detailed below in the Scope of Work in accordance with all of the terms and conditions, including the reporting and deliverable requirements of AGMT 07-1435.

Consultant shall provide: project management; drainage report; storm water data report; foundation report and log of test borings; geotechnical design/materials report; Phase II site assessment; appraisal mapping and right of way engineering; fact sheet for exceptions to design standards; bridge type selection; 95% Plans Specifications & Estimate (PS&E); electrical systems PS&E; independent design check and constructability review; a construction schedule; 100% PS&E; resident engineer's and surveyor's files; right of way appraisals, acquisition, and certification; and (if needed) supplemental design surveying services for the U.S. 50 HOV Lanes Phase 0 Project (Project).

If changes in the Scope of Work of this Task Order are required, an amendment to this Task Order must be approved in writing and executed by Matthew D. Smeltzer, P.E., County's Contract Administrator (CA) and Consultant.

CA's address is 2850 Fairlane Court, Placerville, CA 95667, the email address is matt.smeltzer@edcgov.us, the telephone number is 530-621-5912 and the fax number is 530-626-0387.

Consultant shall submit Task Order deliverables to the CA for review and approval with copies to Paul Hom, Senior Civil Engineer, at paul.hom@edcgov.us.

If a submittal is required to be an electronic file, Consultant shall produce the file in Microstation and submit in AutoCAD 2010, Microsoft (MS) Word 2003, MS Excel 2003, MS Project 2003, or Adobe Portable Document Format (pdf), as applicable.

PRICE / COST

Billing rates for the services performed under this Task Order shall be in accordance

with the terms and conditions of AGMT 07-1435 and Exhibit A, Fee Schedule, incorporated herein and made by reference a part hereof. The not-to-exceed amount for this Task Order is \$1,110,000.00. No payment will be made for any work performed prior to the effective date of this Task Order # 07-1435-12, or beyond the expiration date of this Task Order.

INVOICES

Invoices pertaining to the services described herein shall be submitted in accordance with the requirements of ARTICLE III, Compensation for Services of AGMT 07-1435, and shall include sufficient documentation to support Consultant's charges for the work performed and shall identify the appropriate project number, as Project # 53124, AGMT # 07-1435, Task Order # 07-1435-12, and the specific Item(s) of Work within the Task Order.

SCOPE OF WORK

Consultant is authorized to use WRECO, Blackburn Consulting, Inc., R.E.Y. Engineers, Inc., Y&C Transportation Consultants, Inc., and Bender Rosenthal, Inc., as subconsultants to provide the services in accordance with the Scope listed in the Items of Work below and with the costs listed in the Cost Estimate on page 22 of this Task Order.

ITEM OF WORK 1 – PROJECT MANAGEMENT

Project Management

This item of work provides for day-to-day Project Management of the Project including management of subconsultants, updating CA on specific issues, and managing and directing the work of designers.

Project Status Reports and Schedule

Consultant shall submit a Progress Report and Schedule each month. In addition to the requirements for Progress Reports outlined in ARTICLE VI, Progress Reports of AGMT 07-1435, the Progress Reports shall include the Items of Work showing progress, information and decisions made, problems encountered that may affect schedule, budget and work products with recommendations on mitigation. The Schedule shall be updated with each submittal to represent any changes in Items of Work, and status of completion.

Project Development Team Meetings

Consultant with guidance from County shall facilitate the formation of a Project Development Team (PDT) to be used as needed throughout the project delivery process. The PDT shall convene project sponsors, stakeholders, and interdisciplinary technical experts at key points in the project delivery process to ensure that decision makers are provided with the information needed to make the best project decisions in a timely manner. The PDT shall include representatives from the County, El Dorado County Transportation Commission (EDCTC), Caltrans, technical personnel from the Consultant team, and other parties that County believes could provide expertise and

help expedite the decision making process. Consultant shall schedule PDT meetings on a monthly basis or as directed by CA. Consultant's Project Manager, Project Engineer, and County staff shall attend all PDT meetings. This Scope of Work provides for a total of ten (10) PDT meetings.

- Deliverables:**
- An electronic version of the monthly Progress Report in Adobe pdf format
 - An electronic version of Schedule in MS Project
 - An electronic version of PDT Meeting Agenda in MS Word
 - An electronic version of Meeting Minutes in Adobe pdf format
- Schedule:**
- Submit Progress Report and Schedule by the first Tuesday of each month
 - Submit PDT Meeting Agenda no later than one (1) business day prior to each PDT meeting
 - Submit Meeting Minutes within two (2) business days after PDT meeting.

ITEM OF WORK 2 – DRAINAGE REPORT

Consultant's subconsultant, WRECO, shall perform analysis for on-site drainage within the State's and County's right of way (ROW) and shall prepare a Draft and Final Drainage Report (DR) to address Project improvements.

WRECO shall prepare the DR in accordance with Caltrans North Region Design Directive No. 6 Drainage Reports. This study shall review anticipated rainfall and how to manage the resulting storm water within the Project area. WRECO shall determine design flows and size of drainage systems. WRECO shall determine what modifications are needed to the existing drainage facilities as a result of the proposed Project improvements. The analysis shall include WRECO's findings from review of Caltrans and County provided culvert maintenance records and WRECO interviews of Caltrans and County maintenance workers.

The Draft DR shall be submitted to CA and Caltrans North Region Hydraulics Branch for review and comment. Consultant shall incorporate appropriate comments in the Final DR and provide to CA and Caltrans a written response to all review comments in the form of a Comment Resolution Table.

- Deliverables:**
- Draft DR - two (2) hard copies and an electronic version in Adobe pdf format
 - Final DR – two (2) hard copies and an electronic version in Adobe pdf format
 - Comment Resolution Table - two (2) hard copies and an electronic version in Adobe pdf format

Schedule: Submit Draft DR concurrent with 95% PS&E
Submit Final DR and Comment Resolution Table concurrent with 100% PS&E.

ITEM OF WORK 3 – STORM WATER DATA REPORT

WRECO, shall perform analysis for storm water requirements within the State’s and County’s ROW and shall prepare a Draft and Final Storm Water Data Report (SWDR) to address Project improvements.

WRECO shall prepare the required SWDR according to the Caltrans Storm Water Quality Handbook – Project Planning and Design Guide, July 2010. The SWDR shall document the process of selecting and designing the Water Quality Best Management Practices for the Project. The Drainage Report and other technical studies shall be reviewed and referenced in the SWDR as appropriate. WRECO shall perform sizing and locations of permanent treatment Best Management Practices if required by the results of the analysis.

The Draft SWDR shall be submitted to CA and Caltrans for review and comment. Consultant shall incorporate appropriate comments in the Final SWDR and provide to CA and Caltrans a written response to all review comments in the form of a Comment Resolution Table. Consultant shall use the Final SWDR to prepare a conceptual Storm Water Pollution Prevention Plan (SWPPP) for inclusion in the PS&E.

Deliverables: Draft SWDR – two (2) hard copies and an electronic version in Adobe pdf format
Final SWDR – two (2) hard copies and an electronic version in Adobe pdf format and response to comments
Comment Resolution Table - two (2) hard copies and an electronic version in Adobe pdf format
Draft Conceptual SWPPP – two (2) hard copies and an electronic version in Adobe pdf format
Final Conceptual SWPPP – two (2) hard copies and an electronic version in Adobe pdf format

Schedule: Submit Draft SWDR concurrent with 95% PS&E
Submit Draft Conceptual SWPPP with 95% PS&E
Submit Final SWDR and Comment Resolution Table concurrent with 100% PS&E
Submit Final Conceptual SWPPP with 100% PS&E.

ITEM OF WORK 4 - PREPARE FOUNDATION REPORT

Consultant's subconsultant, Blackburn Consulting, Inc. (BCI) shall provide a Foundation Report for the Westbound Off-ramp Undercrossing (UC) structure, consisting of a new two-span precast, prestressed, concrete box girder structure (bridge). Based on project/site experience, BCI anticipates spread footings established within rock, similar to nearby bridge structures. BCI shall perform one (1) additional boring, supplemented by one (1) or two (2) test pits, to confirm depth to rock and obtain samples of soil and rock for geotechnical analysis and foundation design.

Coordination, Preliminary Review and Site Visit

BCI shall review existing Foundation Reports, Design Reports, Materials Reports and As-Built Log of Test Borings for the existing nearby bridges. Based on the review, BCI shall provide a recommended field exploration program to fill subsurface data gaps. Following the review, BCI shall visit the site to determine drill rig accessibility and mark boring locations for Underground Service Alert (USA).

Subsurface Exploration

Prior to beginning Subsurface Exploration, BCI shall obtain a No Fee County Encroachment Permit. BCI shall observe, log and sample one (1) exploratory boring to a depth between 20 to 25 feet below existing grade to obtain subsurface information and soil/rock samples for laboratory testing. The boring shall be located near the proposed west bridge abutment. BCI shall advance the boring with 4-inch-diameter, mud-rotary drilling method or diamond coring within rock. Where possible, BCI shall conduct Standard Penetration Testing or California Modified Sampling to obtain blow count information for design. A BCI Engineer or Geologist shall log the boring and direct the sampling operations in accordance with current Caltrans requirements.

The boring shall be supplemented by up to two (2) test pits excavated with a backhoe to depths of 5 to 10 feet below existing ground surface. The test pits shall be located near the proposed bridge abutments and shall also be used for the design of the westbound off-ramp.

BCI shall use a professional traffic control company for shoulder closure of U.S. 50 and/or El Dorado Hills Boulevard. BCI shall provide safety equipment in accordance with Caltrans requirements.

Laboratory Testing

BCI shall perform the following laboratory tests on relatively undisturbed samples or bulk samples obtained from the exploratory boring:

- Moisture Content and Unit Weight for bearing capacity, lateral capacity, settlement and liquefaction analyses
- Unconfined Compressive Strength and Direct Shear for bearing capacity and lateral pile capacity
- Sieve Analysis and Plasticity Index for engineering classification
- Resistivity, pH, Sulfate Content and Chloride Content for soil corrosivity potential

Review and Analysis

BCI shall review the existing site data and any new geotechnical, geologic and seismic information for the site including:

- Foundation Reports and Log of Test Borings for the existing bridges.
- Geologic Maps
- Fault Maps
- Seismic Hazard Maps

BCI shall perform engineering analysis (using computer software where applicable) for the following:

- Approach fill and foundation settlement
- Bearing capacity
- Site seismicity including distance to nearby faults, peak ground acceleration (ARS curve) and liquefaction potential
- Slope stability
- Soil Corrosion potential

Foundation Report

BCI shall prepare and submit a Draft Foundation Report. The report shall include recommendations for bridge design in accordance with current Caltrans guidelines including:

- Scope of Work
- Site Description
- Project Description
- Field Exploration
- Laboratory Testing
- Site Geology and Subsurface Conditions
- Seismic Data and Evaluation
- Liquefaction Evaluation
- Foundation Recommendations
- Waiting Period for Approach Fill Settlement
- Construction Considerations
- Location Map
- Log of Test Borings
- ARS Curve
- As-Built Log of Test Borings for the existing bridge
- Laboratory Test Results

The Draft Foundation Report shall be submitted to CA and Caltrans for review and comment. Consultant shall incorporate appropriate comments in the Final Foundation Report and provide to CA and Caltrans a written response to all review comments in the form of a Comment Resolution Table.

Deliverables: Draft Foundation Report – ten (10) hard copies and an electronic

version in Adobe pdf format

Final Foundation Report – ten (10) hard copies and an electronic version in Adobe pdf format

Comment Resolution Table - ten (10) hard copies and an electronic version in Adobe pdf format

Schedule: Submit Draft Foundation Report concurrent with 95% PS&E

Submit Final Foundation Report and Comment Resolution Table concurrent with 100% PS&E.

ITEM OF WORK 5 - PREPARE MATERIALS/ GEOTECHNICAL DESIGN REPORT

Consultant's subconsultant, BCI, shall provide a combined Materials/Geotechnical Design Report (M/GDR) for the pavement design of the westbound on/off ramps and design of associated westbound on-ramp retaining wall. The retaining wall is expected to be a Caltrans Type 1 wall, approximately one thousand two hundred (1,200) feet long and up to sixteen (16) feet high.

BCI shall coordinate with Consultant to review the preliminary plans and discuss the project design needs, issues and schedules. BCI shall review in-house data for the existing interchange including Geotechnical Reports, Foundation Reports, and As-Built drawings. Following the review, BCI shall visit the site to determine site accessibility and exploration locations for USA.

Subsurface Exploration

BCI shall complete the following subsurface exploration:

- Westbound On-ramp and Retaining Wall: BCI shall observe, log and sample up to six (6) borings to depths of fifteen (15) to twenty-five (25) feet using a track-mounted drill rig, supplemented by up to three (3) shallow test pits excavated with hand-tools to collect bulk samples for R-Value tests
- Westbound Loop Off-ramp: For the ramp, BCI shall observe, log and sample up to six (6) test pits to depths of five (5) to ten (10) feet using a rubber-tired backhoe. For the overhead sign, BCI shall complete one (1) boring to a depth of twenty-five (25) feet below ground surface using a truck mounted drill rig.

A BCI Engineer or Geologist shall log the borings/test pits and direct the sampling operations in accordance with current Caltrans requirements.

The ramp borings and test pits shall be located within unimproved areas or existing unpaved shoulders so that traffic control consists of safety signs/cones for shoulder closure work, without the need for night work or lane closures. The overhead sign boring shall be located within the paved shoulder area. BCI shall provide safety equipment in accordance with Caltrans requirements. BCI shall use a professional traffic control company for shoulder closure to complete the boring for the overhead sign.

Laboratory Testing

BCI shall perform the following laboratory tests on relatively undisturbed samples or bulk samples obtained from the exploratory borings:

- Moisture Content and Unit Weight
- R-Value
- Soil Corrosivity
- Sieve Analysis and Plasticity Index for classification
- Unconfined Compressive strength tests for retaining wall bearing capacity

Review and Analysis

BCI shall review aerial photographs and geotechnical, geologic and seismic information for the site including:

- Geotechnical and Materials Reports for the existing interchange
- Geologic Maps
- Fault Maps
- Seismic Hazard Maps

BCI shall perform engineering analysis for the following:

- Embankment settlement
- Excavatability
- Embankment Slope and Cut Slope Stability
- Site Seismicity
- Lateral earth pressures for retaining walls
- Allowable bearing capacity for retaining wall foundations
- Preliminary structural section, based on a Traffic Index (provided by Consultant) and data in existing reports and As-Built drawings
- Corrosivity evaluation for steel/concrete structures

Materials/Geotechnical Design Report (M/GDR)

BCI shall prepare and submit a combined Draft M/GDR. The report shall include conclusions and recommendations for the Project improvements in accordance with current Caltrans guidelines including:

- Scope of Work
- Project Description
- Existing Facilities and Proposed Improvements
- Pertinent Reports and Investigations
- Physical Setting
- Field Exploration
- Geotechnical Testing
- Geotechnical Site Conditions
- Geotechnical Analysis and Design (recommendations for cut/fill slopes, retaining wall, overhead sign, minor culverts, new pavement structural section, corrosion)
- Materials Sources

- Material Disposal
- Construction Considerations
- Geotechnical Recommendations and Specifications
- Risk Management
- Limitations
- Vicinity Map
- Project Alignment and Location of Field Tests
- Log of Test Borings (Retaining Wall and Overhead Sign)
- Test Pit Logs (Ramps)
- Laboratory Test Results

The Draft M/GDR shall be submitted to CA and Caltrans for review and comment. Consultant shall incorporate appropriate comments in the Final M/GDR and provide to CA and Caltrans a written response to all review comments in the form of a Comment Resolution Table.

Deliverables: Draft M/GDR – ten (10) hard copies and an electronic version in Adobe pdf format
 Final M/GDR – ten (10) hard copies and an electronic version in Adobe pdf format
 Comment Resolution Table - ten (10) hard copies and an electronic version in Adobe pdf format

Schedule: Submit Draft M/GDR concurrent with 95% PS&E
 Submit Final M/GDR and Comment Resolution Table concurrent with 100% PS&E.

ITEM OF WORK 6 - PREPARE PHASE II SITE ASSESSMENT

BCI shall provide a non-invasive Phase II Site Assessment (SA), which includes two (2) parcels with active service stations:

- El Dorado Hills Union 76. 1020 Saratoga Way (APN 121-180-16)
- Shell Service Station. 1021 Saratoga Way (APN 121-180-08)

The SA includes owner (or designated most knowledgeable person) interviews, site inspections, and site records review. A summary of findings relative to past and/or present site contamination shall be documented.

The Draft SA shall be submitted to CA and Caltrans for review and comment. Consultant shall incorporate appropriate comments in the Final SA and provide to CA and Caltrans a written response to all review comments in the form of a Comment Resolution Table.

If fee title acquisition is required on one or both parcels, additional assessment may be needed to meet Caltrans acquisition requirements. Scope and fee for this additional

work is not included in this task order.

If results of the non-invasive Phase II assessment are inconclusive, additional assessment including subsurface investigation may be required by Caltrans prior to acquisition. Scope and fee for this additional work is not included in this task order.

Deliverables: Draft Phase II Assessment Report – five (5) hard copies and an electronic version in Adobe pdf format

Final Phase II Assessment Report – five (5) hard copies and an electronic version in Adobe pdf format

Comment Resolution Table - five (5) hard copies and an electronic version in Adobe pdf format

Schedule: Submit Draft Phase II Assessment Report – four (4) weeks
Consultant's receipt of this fully executed Task Order (FE Task Order)

Submit Final Phase II Assessment Report and Comment Resolution Table – one (1) week of receipt of comments.

ITEM OF WORK 7 – APPRAISAL MAPPING & RIGHT OF WAY ENGINEERING

Consultant's subconsultant, R.E.Y. Engineers, Inc. (REY) shall perform technical and management services for developing appraisal mapping and for completion of ROW engineering activities that shall conform to Caltrans and County standards.

Base Maps for Right of Way Engineering & Control

REY shall work from the completed Base Mapping, and incorporate updated and current Caltrans ROW, Subdivision and Parcel Mapping for the northerly portion of the interchange. Previous REY survey control prepared under Task Order # 07-1435-10 shall be supplemented as needed to provide primary Project and supplemental working point control for the locating of additional boundary corners. The final work product shall be digital mapping at a scale of 1"=50' in English units, additional survey control, incorporating supplemental field topography, and delineate record property boundary line mapping.

Retracement Surveys

REY survey staff shall use available Caltrans and County record mapping, which shall be incorporated into the Project drawings based on this and additional record data. The focus for this work shall be concentrated on the northeasterly two or three parcels and northwesterly signal parcel adjoining the future interchange improvements. Title Report exception documents and title vesting documents for each parcel identified as having ROW requirements shall be researched and delineated on the ROW Base Map. Title reports for each parcel will be provided by the County. REY shall field survey existing ROW and property lines within the proposed interchange footprint. Record information shall be compared to field survey information to resolve discrepancies, if any. Retracement Maps (Hard Copy Surveys) shall be prepared showing record annotation

(bearings, distances), adjusted annotation, coordinates, and recording information. These maps shall be prepared on a large format, and become the basis for Appraisal Mapping and Record Right of Way maps and Record of Survey to be prepared later. Work product shall include the Hard Copy Surveys for information purposes only, with individual copies sent to CA and Caltrans.

Appraisal Mapping

Appraisal Mapping shall be prepared using the existing ROW data from the Hard Copy Surveys, the new ROW requirements shown on the Project plans, and the utility easements (if any) requested by utility companies. The Appraisal Mapping shall show existing encumbrances as referenced in the Preliminary Title Report. Additionally, the Appraisal Mapping shall show screened topographic information, color ortho-rectified imagery and tabular data for parcel acquisitions, including Caltrans parcel numbers (for all parcels that ultimately revert to the state), owner name, areas of total ownership, acquisition remainder, and encumbrances. Street names and existing visible surface improvements shall be shown. This scope includes a total of three (3) parcel acquisitions, new ingress/egress rights lines and three (3) to four (4) temporary construction easements.

The Draft Appraisal Mapping shall be submitted to CA and Caltrans for review and comment. REY shall incorporate appropriate comments in the Final Appraisal Mapping and provide to CA and Caltrans a written response to all review comments in the form of a Comment Resolution Table.

Right of Way Acquisition Documents

Individual plats shall be prepared in addition to legal descriptions for each parcel involved with acquisition. The plats shall include the same basic information as contained in the Appraisal Mapping with respect to encumbrances and detail any access control line changes. Deeds and associated property transfer documents shall be prepared by the REY team. This scope assumes that the property rights obtained shall be conveyed to the County, and upon completion of the improvements shall be conveyed to the State.

The Draft Right of Way Acquisition Documents shall be submitted to CA and Caltrans for review and comment. REY shall incorporate appropriate comments in the Final ROW Acquisition Documents and provide to CA and Caltrans a written response to all review comments in the form of a Comment Resolution Table.

Right of Way Mapping

After ROW acquisition, the Appraisal Maps shall be modified to become Caltrans permanent ROW Maps for the area. Maps shall be prepared at a scale of 1:500.

Right of Way Acquisition

REY shall stake approximate location of ROW take and easements.

Record of Survey

REY shall set monuments along the new State ROW and at appropriate points on local roadways, and prepare a Record of Survey for said monumentation. The proposed

monument locations shall be prepared and submitted to the CA and Caltrans for approval prior to monument installations. The Record of Survey shall be processed through El Dorado County, with review and filing fees included in this Scope.

Deliverables:

- Base Map for ROW – an electronic version in Adobe pdf format
- Hard Copy Surveys (Internal use) - one (1) hard copy and an electronic version in Adobe pdf format
- Draft Appraisal Mapping (up to 3 parcels) – four (4) hard copies and an electronic version in Adobe pdf format
- Final Appraisal Mapping (up to 3 parcels) – four (4) hard copies and an electronic version in Adobe pdf format
- Comment Resolution Table - four (4) hard copies and an electronic version in Adobe pdf format
- Draft ROW Acquisition Documents (up to 3 parcels) — four (4) hard copies and an electronic version in Adobe pdf format
- Final ROW Acquisition Documents (up to 3 parcels) — four (4) hard copies and an electronic version in Adobe pdf format
- ROW Acquisition Staking
- ROW Mapping – four (4) hard copies and an electronic version in Adobe pdf format
- Record of Survey and Field Monumentation– an electronic version in Adobe pdf format and in AutoCAD 2010 format

Schedule:

- Base Maps – submit one (1) week from Consultant’s receipt of this FE Task Order
- Hard Copy Surveys (Internal Use) – submit two (2) weeks after receipt of Title Reports
- Draft Appraisal Mapping – submit one (1) week after completion of Hard Copy Surveys
- Final Appraisal Mapping and Comment Resolution Table – submit one (1) week after receipt of comments on Draft Appraisal Mapping
- Submit Draft ROW Acquisition Documents concurrent with submittal of Draft Appraisal Mapping
- Submit Final ROW Acquisition Documents concurrent with Final Appraisal Mapping
- ROW Acquisition Staking – conduct one (1) week after written request from CA

ROW Mapping – submit six (6) weeks after Caltrans approval of ROW Acquisition Documents

Record of Survey and Field Monumentation – submit two (2) weeks after County Board of Supervisors approves the Notice of Acceptance for the Project

ITEM OF WORK 8 - PREPARE FACT SHEETS FOR EXCEPTIONS TO DESIGN STANDARDS

Consultant shall prepare Draft and Final Fact Sheets for Exceptions to Design Standards (Fact Sheets) identified during the development of the PS&E for the Project.

The Consultant shall submit the Draft Fact Sheets for review and comment by CA and Caltrans. Consultant shall incorporate appropriate comments in the Final Fact Sheets and shall provide to CA and Caltrans a written response to all review comments in the form of a Comment Resolution Table.

Deliverables: Draft Fact Sheets - five (5) hard copies and an electronic version in Adobe pdf format

Final Fact Sheets – five (5) hard copies and an electronic version in Adobe pdf format and response to comments

Comment Resolution Table - five (5) hard copies and an electronic version in Adobe pdf format

Schedule: Submit Draft Fact Sheets concurrent with 95% PS&E

Submit Final Fact Sheets and Comment Resolution Table concurrent with 100% PS&E.

ITEM OF WORK 9 – BRIDGE TYPE SELECTION

Consultant shall develop the Bridge Site Data Submittal Form for use in developing the Draft and Final Type Selection Memorandum for the Westbound Off- Ramp UC. The memorandum shall be the basis for the final design of the bridge portion of the Project. Consultant shall develop a Draft Type Selection Memorandum and submit for review and comment by CA and Caltrans. Consultant shall incorporate appropriate comments in the Final Type Selection Memorandum and shall provide to CA and Caltrans a written response to all review comments in the form of a Comment Resolution Table.

Deliverables: Draft Type Selection Memorandum - four (4) hard copies and an electronic version in Adobe pdf format

Final Type Selection Memorandum - four (4) hard copies and an electronic version in Adobe pdf format and Comment Resolution Table on Draft Type Selection Memorandum

Schedule: Draft Type Selection Memorandum – submit one (1) week from

Consultant's receipt of this FE Task Order
 Final Type Selection Memorandum and Comment Resolution
 Table – submit two (2) weeks from receipt of comments on the
 Draft Type Selection Memorandum.

ITEM OF WORK 10 - 95% PLANS, SPECIFICATIONS AND ESTIMATE

Consultant shall prepare 95% Plans, Specifications and Estimate. It is anticipated that the types of plan sheets required for the Project are as follows:

**U. S. 50 HOV Lanes Phase 0 Project
 ESTIMATED NUMBER OF PLAN SHEETS**

SHEET TYPE	Estimated No. of Sheets	COMMENTS
Title Sheet	1	
Key Map	1	
Typical Sections	10	Caltrans required a significant number of typical sections in the Phase 1 HOV contract.
Layouts	6	
Profiles & Superelevation Diagrams	7	
Construction Details	10	Conform details required at US 50 at on ramp, off ramp, on Latrobe Road, Sartoga and El Dorado Hills Blvd.
Temporary Water Pollution Control	8	
Permanent Erosion Control	8	
Contour Grading	3	
Drainage Plans, Profiles, Details & Quantities	15	
Utility	6	
Stage Construction	4	
SHEET TYPE	Estimated No. of Sheets	COMMENTS
Traffic Handling Plans, Details & Quantities	20	
Construction Area Signs	2	
Pavement Delineation, Roadside Signs, Quantities	10	
Summary of Quantities	2	
Overhead Signs	2	
Retaining Wall Layout & Details	8	
Signal, Lighting & Electrical Systems	26	
Log of Test Borings (LOTB)	11	Includes LOTBs for the new bridge, retaining wall and the proposed OH sign at WB off ramp.
Structure Plans	20	

Consultant shall prepare and submit Contract Technical Specifications for review and comment by CA and Caltrans. The Technical Specifications will be based on the Caltrans Standard Specifications and Special Provisions and/or County requirements.

The Technical Specifications shall be submitted with the Plans according to the Caltrans submittal process. Consultant shall merge the required County's boilerplate specifications with the prepared Caltrans Technical Specifications to complete the 95% specifications.

Consultant shall prepare and submit an Engineer's Estimate for review and comment by CA and Caltrans. Quantities shall be developed in accordance with standard Caltrans pay items unless directed by CA to modify. Caltrans Construction Cost Database or other databases as directed by the CA, shall be used to estimate item prices. Project estimates shall show individual pay items, quantities, and costs as well as a project cost summary, including appropriate supplemental work items and contingencies.

The Caltrans review process as agreed to in the PDT meeting held on January 12, 2012 shall consist of a combined 95% PS&E functional unit review, 95% Constructability review, and 95% Safety Review; all three (3) reviews will be concurrent. Consultant shall schedule a PDT Meeting with County, Consultant, and Caltrans' three (3) review unit representative to be held prior to the combined review to present the proposed 95% PS&E. Consultant shall schedule a PDT Meeting one (1) week after submittal of the 95% PS&E to obtain comments from reviewers and resolve comments at the meeting.

Consultant shall prepare and submit 95% PS&E to CA and Caltrans for review and comment.

- Deliverables:**
- 95% Plans – fifty (50) hard copies and an electronic version in Adobe pdf format
 - 95% Specifications – fifty (50) hard copies and an electronic version in MS Word
 - 95% Engineer's Estimate – fifty (50) hard copies and an electronic version in MS Excel

Schedule: Submit all deliverables for this Item of Work five (5) weeks from Consultant's receipt of this FE Task Order

ITEM OF WORK 11 – PREPARE ELECTRICAL SYSTEMS PS&E

Consultant's subconsultant, Y&C Transportation Consultants Inc, (Y&C), shall prepare the 95% and 100% Electrical Systems PS&E for the following signalized intersections:

- Westbound On/Off Ramp/EI Dorado Hills Boulevard/Saratoga Way
- Existing Westbound On/Off Ramp/EI Dorado Hills Boulevard (Signal Removal)

- Ramp metering for Westbound On-Ramp.

Within the project limits the Electrical Systems PS&E shall include:

- Temporary signal modifications for construction staging
- Structure soffit lighting for the westbound off ramp bridge
- Local roadway lighting
- Overhead sign illumination for westbound off ramp
- Freeway on/off ramp lighting
- Auxiliary lane lighting.

Consultant shall submit 95% Electrical Systems PS&E to CA and Caltrans for review and comment. Y&C shall incorporate appropriate comments received from the 95% review submittal into the 100% Electrical Systems PS&E and shall provide to CA and Caltrans a written response to all review comments in the form of a Comment Resolution Table.

Deliverables:

- 95% Electrical Systems Plans – fifty (50) hard copies and an electronic version in Adobe pdf format
- 95% Electrical Systems Specifications– fifty (50) hard copies and an electronic version in MS Word
- 95% Electrical Systems Engineer’s Estimate – fifty (50) hard copies and an electronic version in MS Excel
- 100% Electrical Systems Plans – fifty (50) hard copies and an electronic version in Adobe pdf format
- 100% Electrical Systems Specifications– fifty (50) hard copies and an electronic version in MS Word
- 100% Electrical Systems Engineer’s Estimate – fifty (50) hard copies and an electronic version in MS Excel
- Comment Resolution Table - two (2) hard copies and an electronic version in Adobe pdf format

Schedule:

- Submit 95% Electrical Systems PS&E Deliverables to Consultant one (1) week prior to 95% PS&E Submittal
- Submit 100% Electrical Systems PS&E Deliverables and Comment Resolution Table to Consultant one (1) week prior to 100% PS&E Submittal.

ITEM OF WORK 12 - INDEPENDENT DESIGN CHECK, CONSTRUCTABILITY, AND CONSISTENCY REVIEW

Consultant shall perform an independent design check of the 95% PS&E during CA and Caltrans review. Consultant shall review the 95% PS&E for completeness,

constructability, and conformance to design criteria. Consultant shall assign an independent checker to perform a review of the Project using the 95% PS&E. The independent checker shall be a registered engineer that has not been directly involved in the design. Comments generated by the independent design check shall be considered by the designer and appropriate revisions, if any, shall be incorporated into the 100% PS&E and shall provide to CA and Caltrans a written response to all review comments in the form of a Comment Resolution Table.

Consultant shall perform a Constructability Review of the 95% PS&E. The reviewer shall be a senior level engineer and the review shall consist of a check for uniformity, compatibility, and constructability and shall provide to CA and Caltrans a written response to all review comments in the form of a Comment Resolution Table.

Consultant consistency reviews shall include, comparing plans for conflicts or inconsistencies, and assuring that the final design is in accordance with all environmental documents, project report, permit requirements, hydraulics reports, and foundation recommendations. The specifications and estimate shall be reviewed for consistency with the plans, and to assure that each construction item has been covered. A meeting shall be held with the reviewers, Project Manager, and Project Engineer to resolve comments. Consultant shall incorporate changes into the 100% PS&E as appropriate.

Deliverables: Independent Design Check Reviewer Comments and Comment Resolution Table for roadway and structure design – two (2) hard copies and electronic version in Adobe pdf format

Constructability Reviewer Comments and Comment Resolution Table – two (2) hard copies and electronic version in Adobe pdf format

Schedule: Submit all deliverables for this Item of Work concurrent with 100% PS&E Submittal.

ITEM OF WORK 13 - PREPARE CONSTRUCTION SCHEDULE

Consultant shall prepare a Construction Schedule to estimate the number of working days to be included in the construction contract. The Schedule shall be created using MS Project.

Deliverables: An electronic version of Construction Schedule in MS Project.

Schedule: Submit Construction Schedule with 95% PS&E.

ITEM OF WORK 14 - 100% PLANS, SPECIFICATIONS, AND ESTIMATE SUBMITTAL

Consultant shall incorporate comments from the 95% PS&E submittal from the CA, Caltrans, independent design check and constructability review into the 100% PS&E. Consultant shall incorporate appropriate comments into the 100% PS&E and provide to

CA and Caltrans a written response to all review comments in the form of a Comment Resolution Table.

This task order does not include addressing additional comments that may arise after the 100% PS&E submittal. If additional comments are required to be addressed, additional scope and budget will be required.

Deliverables: 100% Plans – fifty (50) hard copies and an electronic version in Adobe pdf format
100% Specifications– fifty (50) hard copies and an electronic copy in MS Word
100% Engineer's Estimate – fifty (50) hard copies and an electronic copy in MS Excel
Comment Resolution Table - Two (2) hard copies and an electronic version in Adobe pdf format

Schedule: Submit all deliverables for this Item of Work three (3) weeks from receipt of comments on 95% PS&E.

ITEM OF WORK 15 – PREPARE RESIDENT ENGINEER'S FILE AND SURVEYOR'S FILES

Consultant shall prepare the Resident Engineer's File (RE File). The RE File shall include copies of the environmental document and any notes from the designer regarding unusual or unique items and any other information that the Resident Engineer should be made aware of. Consultant shall prepare the Surveyor's File including copies of all survey staking notes generated by Consultant's design software for both finished sub-grade and final roadway grade, and copies of alignments and calculations.

Deliverables: RE File – two (2) hard copies
Surveyor's File – two (2) hard copies

Schedule: RE and Surveyor's Files – submit four (4)-weeks from 100% PS&E submittal.

ITEM OF WORK 16 - RIGHT-OF-WAY APPRAISALS, ACQUISITION & CERTIFICATION

Consultant and its subconsultant, Bender Rosenthal, Inc. (BRI) shall perform appraisal, acquisition and ROW Certification for the Project.

A change in Scope of Work may be warranted due to the following:

- Comments received after completion of appraisal review.

- A change in engineering after property has been inspected by appraiser, requiring a new inspection.
- A change in engineering after completion of the appraisal/appraisal review.
- Addition of a parcel, easements, or other property rights.
- An increase in the number of damage analyses required.
- An appraisal requiring additional expertise, such as an arborist, or fixture appraiser.
- Need for condemnation support, escrow services, utility relocation coordination, and Relocation Assistance Program Services.

Nominal Valuations

BRI shall develop a Waiver Valuation in Lieu of an Appraisal (“Nominal Valuation”) for the property interests of each referenced property in accordance with the Code of Federal Regulations [49 CFRs 24.102 (c)2]. Nominal Valuations shall be in compliance with Chapter 7 of the Caltrans Right of Way Manual which does not require an appraisal review.

Since ROW involvements are anticipated to be minimal, Nominal Valuations will be performed. Nominal Valuations do not meet the requirements of an appraisal and are only intended for use by the County in negotiations with property owners. Nominal Valuations are used when an appraisal is not required because the valuation problem is uncomplicated and the fair market value is estimated at \$10,000 or less based on a review of available data. The \$10,000 amount includes severance damages, but excludes an insignificant construction contract work.

Land Rights Acquisitions

The Offer Package to be presented to the property owners shall include the following:

- Appraisal Summary Statement (from Nominal Valuation)
- Summary Statement Relating to the Purchase of Real Property or Interest therein
- Purchase and Sale Agreement or Easement Acquisition Agreement for Public Purposes, as applicable
- Grant Deed or Grant of Easement, as applicable
- Temporary Construction Easement, if applicable

BRI shall prepare and submit the Appraisal Summary Statements and Summary Statements Relating to the Purchase of Real Property or Interest therein (Appraisal Information Docs) for up to three (3) parcels for review and comment by the CA. BRI shall revise the Appraisal Information Docs incorporating or addressing County’s comments, if any. Upon including and/or responding to all of County’s comments in writing, BRI shall submit the Appraisal Information Docs to CA. County will incorporate the County Counsel-approved Acquisition Documents in with the Appraisal Information Docs to complete the Offer Packages. Upon BRI’s receipt of the Offer Packages from CA, and in accordance with Section 8.01.11.00 et seq. of the Caltrans ROW Manual, BRI shall present in person the Offer Package to the individual property owners that live within a seventy-five (75) mile radius of BRI’s business location at 4400 Auburn

Boulevard, Suite 102, Sacramento, California 95841. BRI shall document all property owners' correspondence in an appropriate file format as determined by CA. BRI has included a total of three (3) property owner contacts to accomplish owner acceptance of the offer.

When the property owners accept the offers, BRI shall notify the CA and obtain the property owners' signatures, notarized as required, on the appropriate County Counsel-approved Acquisition Documents. In accordance with the protocols listed in Attachment A, if property owners request changes to the Offer Package, BRI shall submit requested changes to CA, and once changes are reviewed and approved by County Counsel, BRI shall obtain property owners' signatures on necessary Acquisition Documents at no additional cost to County.

If property owner expresses concerns, BRI shall relay concerns/issues to CA and the County's ROW Unit and shall assist County's ROW Unit with a suitable resolution to be presented to owner by BRI for acceptance. The cost of resolution of concerns/issues is included in this Task Order budget.

Title Reports

BRI shall obtain preliminary title reports for up to eight (8) parcels.

Right of Way Certification

BRI shall prepare a Right of Way Certificate to Caltrans Standards per Caltrans Right of Way Manual, Chapter 14

This task order assumes County will pay for all title and escrow fees and will coordinate all title and escrow tasks.

Deliverables:

Nominal Valuations for three (3) Temporary Construction Easements (TCE) and three (3) Fee Acquisitions

BRI shall prepare the Nominal Valuation Information Docs for CA review for each parcel submitting one (1) hard copy and an electronic version in pdf format

BRI shall prepare the Nominal Valuation Information Docs revised in accordance with CA comments for each parcel submitting one (1) hard copy and an electronic version in pdf format

BRI shall submit the original signed and notarized Acquisition Documents to CA

BRI shall submit one (1) hard copy and an electronic version in pdf format of all property owners' correspondence, including parcel diaries

Complete Acquisition Documents of up to three (3) parcels

Preliminary Title Reports for up to eight (8) parcels

Attendance at one (1) PDT Meeting

Right of Way Certification for up to three (3) parcels and one (1) utility

Schedule: Nominal Valuations – submit within one (1) week of receipt of appraisal mapping

Acquisition documents - submit prior to County advertisement of construction contract

Preliminary Title Reports – submit one (1) week from Consultant's receipt of this FE Task Order

Right of Way Certification – submit concurrent with 100% PS&E.

SUPPLEMENTAL WORK – SUPPLEMENTAL DESIGN SURVEYING

Based on communications with Caltrans, additional supplemental surveying may be necessary. In this event, Consultant's subconsultant, REY shall perform supplemental Design Level Surveys in support of the Project on an as-requested basis.

The amount of effort required cannot be estimated prior to the immediate need, therefore Work Orders will be issued by CA before the work is commenced. The Work Orders shall reference the Item of Work number, a description of the work to be completed, deliverables, an estimate of REY staff hours required, and a not-to-exceed amount for the Work Order. No payment will be made for work performed prior to the date the Work Order is approved by CA.

Invoices shall clearly indicate the personnel classifications, hours, and charges for each individual Work Order. Receipt of a signed Work Order shall serve as the Notice to Proceed with the work specified therein. The level of effort identified for this Supplemental Work is a maximum estimate for budgetary purposes.

Deliverables: Deliverables will be identified in the individual Work Order

Schedule: Schedule will be identified in the individual Work Order.

Quincy Engineering, Incorporated

Exhibit A

Fee Schedule

Year 2012 Hourly Rates

Effective January 1, 2012 through December 31, 2012

Labor by Classification	Hourly Rate
Principal Engineer/ Project Manager	\$50-72
Senior Engineer / Project Engineer	
Resident Engineer	\$37-70
Senior Engineer	\$50-70
Associate Engineer / Bridge Representative	\$33-63
Assistant Engineer*	\$25-45
Engineering Assistant/Technician*	\$15-30
Engineering Detailer/ Draftsman*	\$20-40
Drafting Technician*	\$15-30
Administrative Assistant*	\$15-37
Office Support Staff*	\$10-25
Overhead	166.4%

Other Direct Costs	Rate
Office Computer & Software	Included in Overhead
Office Phone/Cell/Fax	Included in Overhead
Reproduction In Office: Black & White/Color	Included in Overhead
Reproduction Vendor	Cost
Delivery	Cost
Travel/Car Mileage	See below
Subconsultants	5%
Prevailing Wage Differential**	Cost Plus Payroll Taxes
Misc.	Cost

Fee

Labor + Overhead	10-12%
Other Direct Costs	0-10%

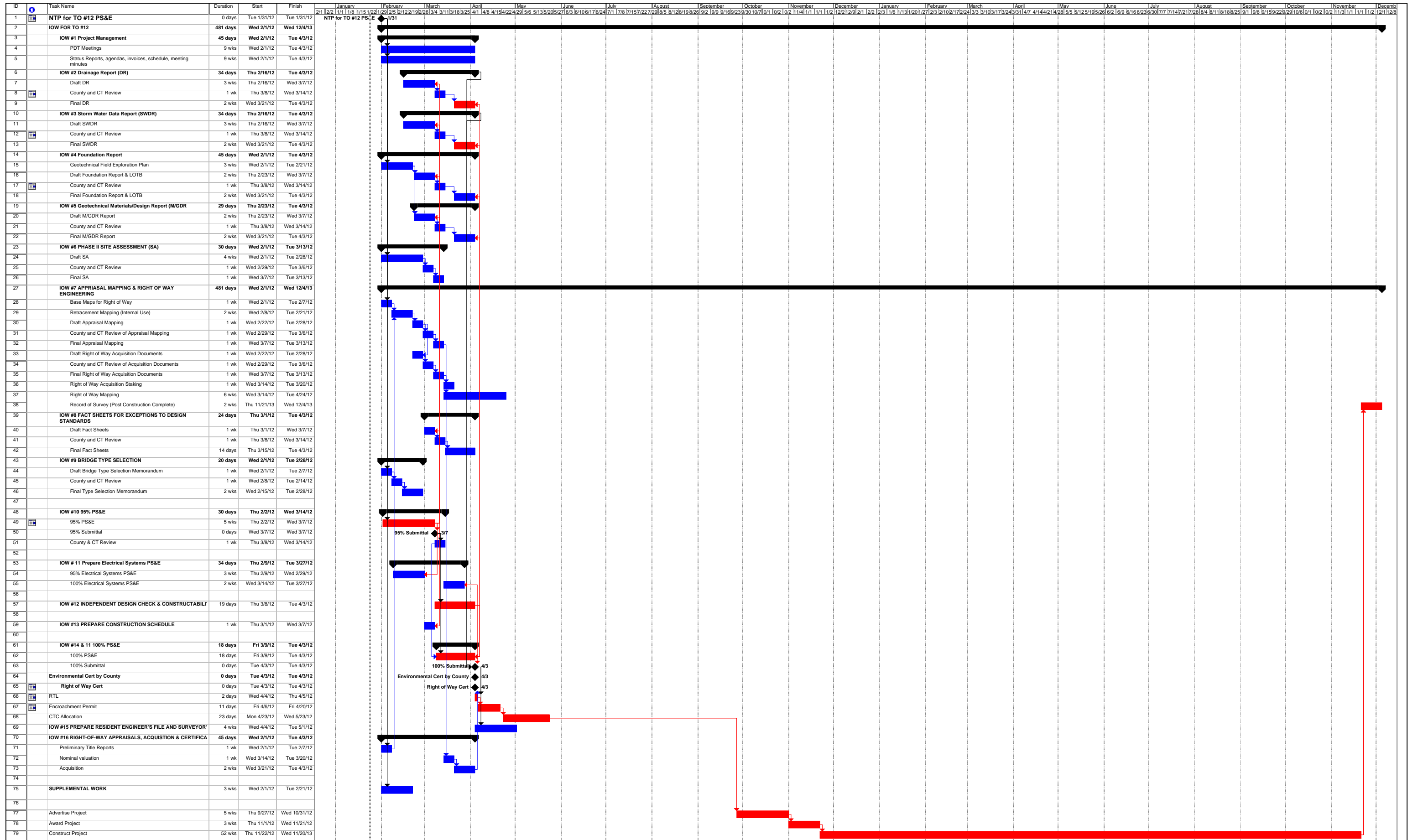
Notes:

Labor Costs to be invoiced based on actual hourly rate plus overhead plus fee. Other Direct Costs to be invoiced at actual cost plus fee (except for Travel and Car Mileage expenses, which will be invoiced without fee).

*Overtime rates apply to these classifications and will be charged at 1.5 times the hourly rate.

**Prevailing Wage Differentials may apply for Construction Inspection Services.

Reimbursement for travel and mileage expenses, if applicable, shall not exceed the lesser of (1) the rates to be paid to County employees under the current Board of Supervisors Travel Policy at the time the mileage expenses are incurred; or (2) the rates authorized to be paid to rank and file state employees under the then current State Department of Personnel Administration rules. Travel and mileage reimbursement rates apply to Consultant and to any sub-consultants authorized under this Agreement.



Date: Tue 1/24/12

Task: █ Progress █ Milestone █ Summary █ Rolled Up Task █ Rolled Up Milestone █ Rolled Up Progress █ Split █ External Tasks █ Project Summary █ Group By Summary █ Deadline █

Page 1