

AMENDMENT NO. 2

CITY OF CHICO - PROFESSIONAL SERVICES AGREEMENT

AGREEMENT DATED JUNE 12, 2017

BETWEEN CITY OF CHICO

AND

MARK THOMAS & COMPANY, INC.

Consultant

GUYNN AVENUE BRIDGE REPLACEMENT:
DESIGN & ENVIRONMENTAL SERVICES

Project Title

307-000-8800/50232-307-4140

Budget Account No.

THIS PROFESSIONAL SERVICES AGREEMENT AMENDMENT (Amendment) is entered into on February 13, 2024, 2024, between the City of Chico, a municipal corporation under the laws of the State of California (City), and Mark Thomas & Company, Inc., (Consultant). On June 12, 2017, City and Consultant entered into "City of Chico - Professional Services Agreement" (Agreement). The provisions of the Agreement are hereby amended as follows:

1. Exhibit B pages B1-R1 through B21-R1 is hereby superseded and replaced by revised Pages B1-R2 through B29-R2 attached hereto.
2. Exhibit C pages C1-R1 through C10-R1 is hereby superseded and replaced by revised Pages C1-R2 through C11-R2 attached hereto.
3. All other provisions of the Agreement shall remain in full force and effect.

CITY:

CONSULTANT:

Mark Sorensen
Mark Sorensen (Feb 13, 2024 15:06 PST)

Mark Sorensen, City Manager*

Matt Brogan
Matt Brogan (Feb 13, 2024 09:10 PST)

By: Matt Brogan

Title Vice President

*Authorized pursuant to Section 3.08.060
of the Chico Municipal Code

APPROVED AS TO FORM:

John W. Lam
John W. Lam (Feb 12, 2024 13:20 PST)

John Lam, City Attorney*

*Pursuant to The Charter of the
City of Chico, Section 906(D)

REVIEWED AS TO CONTENT:

Barbara Martin

Barbara Martin, Administrative Services Director*

*Reviewed by Finance and Information Systems

APPROVED AS TO CONTENT:

Bre Ott
Brendan Ottoboni (Feb 12, 2024 17:07 PST)

Brendan Ottoboni, Public Works Director,
Engineering

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AMENDED
EXHIBIT B

SCOPE OF PROFESSIONAL SERVICES - BASIC; COMPLETION SCHEDULE

Amendment No. 2 Services (in bold):

Background

The Guynn Avenue bridge over Lindo Channel is located near the western edge of the City limits and is one of only two vehicular crossings of Lindo Channel between the Esplanade and Nord Avenue. The Guynn Avenue bridge is the western, or downstream, crossing and provides connectivity between East Avenue and West Lindo Avenue.

Constructed in 1930, the Guynn Avenue bridge is one of the oldest bridges in Chico as well as one of the remaining steel pony trusses. Although not eligible for listing on the national historical register, the bridge holds a place of emotional importance to the community.

Roadway Alignment Alternatives

As the bridge is eligible for HBP funding for replacement, the approach roadway alignment can be adjusted to the current standard. This scope of services anticipates two alignment alternatives:

1. Replace the structure along its current alignment; or
2. Shift the bridge west and keep the existing bridge as a pedestrian/bicycle access connection.

The benefits of Alternative 1 include:

- The Project footprint is reduced, resulting in less environmental impact.
- The right-of-way impact on the northwest residential parcel (2409 Guynn Avenue) will be minimized.
- The relocated utilities (two-inch gas line) will remain along roughly the same alignment.

Alternative 2 provides the benefit of keeping the existing bridge in place, but the following factors must be considered:

- The intersection spacing between Guynn Avenue and Moyer Way is reduced, creating a shorter conflict zone for left-turning vehicles.
- The right-of-way impact to the northwest residential parcel will be more significant.
- The Project footprint will be larger and will impact more vegetation within Lindo Channel.

Replacement Structure

Lindo Channel flows within a well-incised, heavily vegetated channel through the Project site. The existing bridge provides sufficient freeboard, a factor of safety above flood level for the purpose of floodplain management—approximately six feet according to the Federal Emergency Management Administration (FEMA)—and no scour issues have been noted. Therefore, a replacement structure is anticipated to be similar in length to the existing structure at roughly 90 feet long.

This scope of services anticipates that the preferred replacement structure will be a precast pre-stressed wide-flanged girder design which will minimize impacts to the channel and accelerate construction.

Road Closure/Detour

It is anticipated that Guynn Avenue will be closed at the Project site to facilitate construction. The crossing of Lindo Channel provides direct access for the Cussick Avenue neighborhood to The Avenues. The potential detours for motorists traveling between these areas can easily be accommodated via Nord Avenue, East Avenue, West Lindo Avenue, and Holly Avenue and will add an additional one mile (three-minute drive time) for motorists. The road closure duration will be determined by the alternative alignment selected. If the bridge is replaced along the existing alignment (worst case in terms of construction time), the approximate closure duration is six months.

Scope of Professional Services - Basic

The Consultant shall provide overall management of the project, including approvals for preliminary engineering, and coordination with the City and other stakeholders. The professional services as follows:

TASK 1.0 PROJECT MANAGEMENT

1.1 Project Meetings

The Consultant shall coordinate a project kick-off meeting with the City and design team to discuss the project background, scope, concepts, schedule, project management and issues with stakeholders. The Consultant shall participate in a field review meeting and a Preliminary Environmental Study (PES) field review with the City, Caltrans, and design team in order to gain consensus on the project requirements necessary to comply with federal and state laws. The field meeting will allow the project team to become familiar with the project site, check for any conditions that would be affected by construction and begin discussion of environmental considerations.

Project Development Team (PDT) meetings will be held at the City offices. A total of eighteen (18) PDT meetings are proposed with this scope of work. The purpose of the PDT meetings is to provide a forum to share project information, identify critical issues, make decisions, assign project tasks, identify design criteria, or any other items critical to project delivery. The Consultant shall prepare agendas for each meeting and distribute them to the PDT prior to each meeting. The Consultant shall facilitate meetings as applicable and prepare meeting minutes with action items.

1.2 Project Management

The Consultant shall provide management of subconsultants in the performance of their work. Management activities shall also include development and maintenance of a critical path method (CPM) design schedule and progress reports to be distributed monthly. The schedule will be updated as progress is made, with critical path activities clearly shown for team review purposes. The schedule and billings shall be submitted in the form and in sufficient detail to track the project status and contract expenditures as outlined by the City at the beginning of the project.

1.3 Quality Assurance/Quality Control

The Consultant's Quality Assurance/Quality Control plan consists of established procedures for performing the work (which are reassessed with each project), including methods for design calculations, establishing appropriate levels of design development for intermediate submittals, identification of required plan checks, design checklists, and methods of project documentation.

Our QC/QA Manager will implement and maintain these quality control procedures during the preparation of plans and documents throughout design.

Task 1 Deliverables:

- Meeting Agendas and Minutes
- Project Schedule
- Quality Control Documents

TASK 2.0 PRELIMINARY ENGINEERING

2.1 Base Mapping Review and Site Reconnaissance

The Consultant shall supplement field surveys already completed. All record maps will be obtained by the Consultant and the City will provide title reports including all vesting and back up deeds, for all properties that will be impacted by acquisitions. The Consultant shall determine right of way, boundary and property lines within the project limits.

2.2 Conceptual Layout Plans

The Consultant shall prepare conceptual geometric plans (including horizontal alignment, vertical profile, and typical roadway sections) for review by the City. Two roadway alternatives are anticipated for study with selection of one alternative by the City to carry forward into design. Concurrence from Caltrans Local Assistance will be required to document approval of the roadway cross-section and approach limits for approved HBP funding. If necessary, The Consultant shall prepare a Funding Justification Fact Sheet that describes the various project components for participation in the federally funded Highway Bridge Program (HBP). This could include roadway approach limits beyond the traditional limits as well as unique bridge construction techniques for accelerated bridge construction.

2.3 Structure Type Selection Report

The Consultant shall prepare a Structure Type Selection Report to assist the City in determining the best suited structure type for the project. Two different alternatives will be presented in the report, which will include a General Plan, Foundation Plan, and General Plan Estimate for each structure type. The report will discuss the advantages and disadvantages of the alternatives and will address geotechnical, hydraulic, and environmental issues as well as costs. Approval of the Structure Type will be required from Caltrans Structure Local Assistance.

2.4 Preliminary Cost Estimate

The Consultant shall prepare a preliminary cost estimate and quantity calculations to accompany the conceptual geometric plans.

2.5 Geotechnical Analysis and Report

2.5.1 Preliminary Foundation Memorandum

CAInc will prepare a Preliminary Foundation Memorandum as part of alternatives analysis, Type Selection and preliminary cost estimates. The memoranda will be based on available subsurface data (including nearby City and/or Caltrans bridges), as-built drawings, published geologic mapping and seismicity data, aerial photographs, preliminary project data, and a site review. No subsurface exploration will be completed for this task.

The Preliminary Foundation Memoranda will summarize anticipated earth materials and conditions based on reference data and site exposures; provide seismic input parameters consistent with current Caltrans practice; discuss roadway approaches and pavement options; and discuss foundation types, channel scour, and liquefaction potential.

2.5.2 Foundation Investigations

CAInc will perform a site-specific foundation study to evaluate the subsurface conditions, assess existing foundation support, and design new structure foundations. The Foundation Reports will include two test borings – one at each abutment – extended to depths approximately 50-70 feet below channel bottom. We expect to encounter sandy clay, silty sand, and clayey sand at the project site. For approach roadway design, CAInc will collect a bulk sample from the roadway approach for laboratory testing.

Laboratory testing will likely include moisture content, unit weight, direct shear or unconfined compressive strength, sieve analysis, plasticity index, soil corrosion, and R-value for pavement design.

The Foundation Report will include a summary of the subsurface exploration; field and laboratory soils testing; "Log of Test Borings" drawings; seismic design criteria; liquefaction evaluation; corrosion evaluation; foundation recommendations per current Caltrans procedures; approach earthwork recommendations with pavement sections; and construction considerations.

2.6 Hydrology/Hydraulic Analysis and Report

2.6.1 Information Gathering and Field Review

Avila will gather and review existing information and conduct project field review including:

- Bridge maintenance records for the existing and adjacent bridges
- Survey request outlining the location and extent of cross section near the bridge necessary to create the HEC-RAS model
- Request HEC-2 information from the Federal Emergency Management Agency to be sent through the City of Chico

2.6.2 Hydrology & Hydraulic Analysis

Avila will estimate discharge at the site using streamstats to check the FEMA discharge estimates. A 200-year discharge will be estimated to allow permitting with the CVFPB.

Based on survey information obtained from the survey request noted above and boundary conditions obtained from FEMA, Avila will set up an existing conditions HEC-RAS model of the bridge reach. Calibration data will be researched to determine if any high-water elevations

were documented for the flood of record. The proposed bridge will be modeled to determine the impact to the water surface elevation and velocity. The model will also incorporate any encroachment from bridge approach fills.

The hydraulic variables (water surface elevation, velocity etc.) will be determined for the design discharge, 50-, 100-year discharges estimated above. Results from the hydraulic analysis will be provided in both tabular as well as graphical output formats.

2.6.3 Scour and Bank Protection

Avila will review maintenance records for the existing and adjacent bridges to determine if the stream has aggraded or degraded over time. Contraction and abutment scour will be estimated using the methods described in the Federal Highway Administration (FHWA) Publication HEC-18, Evaluating Scour at Bridges. It is assumed that degradation estimates will be straight line extrapolation using best available data if no numeric sediment transport models are available.

2.6.4 Draft & Final Hydraulic Report

Avila will complete a Draft and Final Hydraulic Report documenting the hydrology, hydraulics and scour. Avila will revise the Draft Hydraulic Report based on comments received by the City and the Consultant.

2.6.5 Location Hydraulic Study and Summary Floodplain Encroachment Report

Avila will complete items 3, 4, 5, 7 and 9 of the Floodplain Evaluation Report. It is assumed that the bridge will not cause a significant encroachment into the floodplain or change in the water surface elevation; if a significant encroachment into the floodplain is found, a separate task order will be necessary. Survey information for adjacent buildings will be needed to determine the potential impact of the bridge replacement on adjacent insurable structures. It is assumed that there will be no significant change to the Base Flood Elevations (BFEs) and that no Conditional Letter of Map Revision (CLOMR) will be required; if a CLOMR is required, a separate task order will be required.

2.6.6 Location Hydraulic Study and Summary Floodplain Encroachment Report

Avila will provide project management for the project. This includes attending conference calls and performing QA/QC for the project.

2.7 Utility Coordination

The Consultant shall provide utility coordination for the project. Due to the federal funding associated with the project, utility coordination services will be conducted in general conformance with Caltrans Local Assistance and Utility Relocation Manuals.

Utility “A” Letters – The Consultant shall send letters to utility companies with facilities in the area of the project, requesting copies of their existing facility maps. These maps will become the basis of the project utility mapping.

Conflict Mapping – Using the 65% plan package, The Consultant shall prepare conflict mapping (“B” Plans) and “B” Letters for City review. Two copies of the conflict mapping will be sent to each utility showing their facilities and the anticipated conflicts. The Consultant shall draft signature-ready utility notification letters to utility companies for City signatures. Utility Notification letters will identify limits of relocation and proportionate cost sharing.

Relocation Coordination – The Consultant shall follow the Caltrans process for utility relocations which includes: Record of Investigation (ROI), Claim Letters, Utility Agreements (UA), and Notice to Owners (NTO), prior to completing the Utility Certification.

The Consultant shall work with the City to finalize all utility agreements and certifications to satisfy City requirements. This task includes reviewing relocation agreements for proper charges and fees and negotiating as necessary to ensure correct advances, refunds and reimbursements. Final utility agreements will be included in the Right of Way Certification package.

When the relocation plans are received, the Consultant shall check the relocation design against the latest project plans for conflicts. The Consultant shall then send a copy of the Final Plans (“C” Plans) along with a Notice to Owner (Caltrans Exhibit 14-d in the Local Assistance Procedures Manual) directing the utility company to initiate relocation construction. It is assumed that these designs will be provided by the private utility company.

Depending on the proximity to potential physical conflicts, potholing of existing underground facilities may be necessary to positively locate the utility. If this is determined to be the case, the Consultant shall submit an amendment request to cover this additional work.

The Consultant shall coordinate schedule T2ue Utility Engineers to complete potholing for positive location of the water and gas lines within the intersection of Guynn Avenue and Guynn Bridge Court. Up to five (5) potholes shall be completed. Following the potholing, the Consultant shall survey the pothole locations for incorporation into the base mapping.

2.8 Additional Topographic Survey

The Consultant shall use the existing Project control to complete supplemental topo of improvements along W Lindo Avenue in the City of Chico. The limits shall be 50 feet west of the Guynn Avenue and W Lindo Avenue intersection to the intersection of W Lindo Avenue and Fern Avenue (approximately 550 LF). The Consultant shall collect topographic information in adherence with City survey standards that shall include sidewalk, curb and gutter, crown, grade breaks above ground surface visible utilities, drainage structures, manholes, and fence lines. Field notes (dip sheets) for manholes and

drainage structures shall be provided showing invert and flow direction and shall be accompanied by photos of the structure, showing context and inside the structure. It is assumed all access to complete this survey shall be granted by the City. This survey does not include a boundary survey or monument preservation.

2.9 Preliminary Structural Analysis

As a result of the Structure Type Selection meeting the Consultant shall investigate the feasibility of rehabilitating the existing bridge instead of replacing it. The Consultant shall prepare an initial rehabilitation cost estimate, perform an evaluation to determine the safe load carrying capacity of the structure, investigate the feasibility of upgrading the bridge and include MASH compliant barrier railings. Following this, the Consultant shall complete a preliminary structural analysis of the existing bridge, develop strengthening plans to restore the bridge to State legal load capacity, and prepare a detailed cost estimate.

2.10 Additional Roadway Geometric Alternatives

The Consultant shall prepare an additional geometric alternatives needed to determine a preferred alternative. The alternatives shall consider two alignments – one along the existing bridge and one just downstream of the existing bridge. Various lane, shoulder and sidewalk widths and configurations shall be considered in the alternatives. An additional alternative shall be included that shall replace the bridge in a similar alignment by removing the existing bridge to minimize the right of way acquisition, evaluate impacts, and determine a cost associated with the new alternative. This task covers the budget that was utilized from the 65% roadway plans task to develop the additional alternatives.

The Consultant shall use the information provided in Task 2.9 to prepare final design plans. The design shall include limits of sidewalk reconstruction and conforms within the existing right of way. Existing drainage infrastructure may need to be adjusted or modified to accommodate the proposed improvements. This scope of work does not include a drainage study or analysis of the existing drainage systems.

Task 2 Deliverables:

- Conceptual Geometric Drawings
- Structure Type Selection Report
- 30% Preliminary Cost Estimate
- Preliminary Foundation Memoranda
- Draft & Final Foundation Report
- Draft & Final Hydraulic Report
- Location Hydraulic Study and Floodplain Encroachment Report
- Utility Relocation – Utility “A”, “B” & “C” Letters, Conflict Mapping, ROI, NTO, UA’s
- **Base Mapping**

- **Preliminary Rehabilitation Estimate**
- **Preliminary Strengthening Plans**
- **Detailed Strengthening Estimate**
- **Geometric Alternative Exhibits (up to 7)**

TASK 3.0 PUBLIC OUTREACH

3.1 Project Notification Letters

The Consultant shall work with the City to develop a public outreach strategy to guide outreach activities. The Consultant shall prepare a project fact sheet outlining the reasons for the project, what the community can expect from the project process, the schedule for the project and ways to communicate to the project team via City staff.

Ahead of the first public meeting, the Consultant shall prepare a master announcement notification to be reproduced and distributed to invitees by City staff 2-3 weeks prior to the meeting date. It is assumed that the City will develop the outreach mailing list and complete the mailing. All postage and materials related to a community mailing will be the responsibility of the City.

3.2 Public Meeting Attendance

The Consultant shall work with the City to confirm public meeting objectives, finalize the meeting format and develop related materials to engage the public in conversations about the bridge replacement. The public meetings will be held at locations determined by the City and it is assumed that the City will secure the facilities for use.

The Consultant shall facilitate an open-house format public workshop. Graphics developed in the preliminary engineering phase will be presented at the workshop after a team introduction and project overview. The Consultant shall prepare the meeting exhibits, presentation and handout materials. Three public meetings are assumed.

Task 3 Deliverables:

- Project Fact Sheet and Meeting Announcement
- Materials (handouts, exhibit boards, presentations) for public meetings
- Public Meeting Attendance (3 Meetings)

TASK 4.0 ENVIRONMENTAL CLEARANCE

4.1 Preliminary Environmental Study (PES) Form

Utilizing the updated field review process as outlined in Chapter 7 of the Local Assistance Procedures manual (July 2015), Gallaway will coordinate the field review and preparation of the PES forms for the bridge project.

4.2 Technical Studies

Gallaway anticipates the need for a Natural Environment Study, Biological Assessment, Delineation of Waters of the U.S., and Cultural studies to be prepared for the bridge. If during the design process Gallaway determines that potential impacts are minimized or avoided, then we will consult with Caltrans to prepare MINES and other more appropriate technical studies.

Gallaway will attend Project progress meetings, review Project work schedules, and confirm current Project descriptions applicability for use in all of the technical studies, CEQA/NEPA documentation, and permit applications. It is the Consultant's experience from working on similar bridge replacement or rehabilitation projects located within sensitive habitats that use of a consistent project description in all technical studies facilitates the determination of project related impacts. The delivery of technical studies with concise, yet thorough, project descriptions, defensible data analysis, and impact determinations also allows for an efficient permitting process. Gallaway requires that the City approve a final Project description including bridge type selection, as practicable, prior to finalizing technical studies.

Gallaway assumes a maximum of 12 PDT meetings.

Preliminary Environmental Study (PES) Form (Memo Update)

Utilizing the existing approved PES document Gallaway will create a memo documenting the differences in the Project description and why the prescribed range of technical documentation will still be appropriate for the new design.

Technical Studies

Based on consultation with Caltrans staff all of the technical studies shall be updated to evaluate the currently proposed project and associated impacts. Gallaway will update the Natural Environment Study, Biological Assessment, Delineation of Waters of the U.S., and Archaeological Survey Report / Historic Property Survey Report.

Natural Environmental Study (NES) (Revise, update impacts and template)

Gallaway will prepare a draft NES for the bridge following field surveys of the Biological Study Areas (BSA). The NES documents shall be prepared taking into consideration the information obtained from the respective wetland delineations, field surveys, Project specific impacts, location of staging areas, and mitigation. Due to the impacts to federally listed species, the preparation of Biological Assessments shall be necessary and is discussed further in Task 4.2.2 below.

Gallaway will conduct botanical and biological surveys, including migratory bird surveys, per California Department of Fish and Wildlife (CDFW), California Natural Plant Society (CNPS), and all other appropriate protocols. Gallaway shall document all

vegetation communities, plant species observed on-site and will report any sensitive species per CNPS and CDFW guidelines to the California Natural Diversity Database. The NES reports shall follow Caltrans' most recent guidance and document formats, currently the August 12, 2022 version. Gallaway will coordinate with the Consultant, the City, and Caltrans to ensure consistency in the Project description between all associated documents. Documents shall be submitted to the Consultant unless otherwise directed.

This scope assumes two (2) rounds of review from the Consultant, the City, and Caltrans Input.

4.2.1 Natural Environmental Study (NES)

Gallaway will prepare a draft NES following field surveys of the Biological Study Areas (BSA). The NES documents will be prepared taking into consideration the information obtained from the respective wetland delineations, field surveys, project specific impacts, location of staging areas, and mitigation. Based on our recent site visit and preliminary review of the California Natural Diversity Database (CNDDDB), it appears that elderberry bushes occur in close proximity to the bridge structure. In addition, Lindo Channel is known to support federally listed spring-run salmon. There is also suitable habitat for state species of special concern, including migratory birds and raptors at the site. Therefore, compensatory mitigation in addition to site specific avoidance and minimization measures can be expected. Due to the potential for impacts to federally listed species, the preparation of Biological Assessments will be necessary and is discussed further in Task 4.2.2 below.

Gallaway will conduct botanical and biological surveys, including migratory bird surveys, per California Department of Fish and Wildlife (CDFW), California Natural Plant Society (CNPS), and all other appropriate protocols. Gallaway Enterprises will document all vegetation communities, plant species observed on-site, and will report any sensitive species per CNPS and CDFW guidelines to the California Natural Diversity Database. The NES report will follow Caltrans' most recent guidance and document formats, currently the October 13, 2014 version. Gallaway will coordinate with the Consultant, the City, and Caltrans to ensure consistency in the project description between all associated documents.

4.2.2 Biological Assessment (BA)

Due to the presence of elderberry shrubs, the host plant for the federally listed valley elderberry longhorn beetle (VELB), and the potential for anadromous fish to occur in Lindo Channel, Gallaway will prepare a BA for the specific use in assisting the FHWA with Section 7 consultation per the Endangered Species Act. Gallaway will prepare a BA that addresses all components of each project. In situations where the project design allows, Gallaway will work with Caltrans to make an "affect" determination with regards to potential impacts to federally listed salmonids and valley elderberry longhorn beetle (VELB). Gallaway will conduct protocol level surveys to determine the presence or absence of VELB and assess the potential for

anadromous fish to be affected by the proposed project. **Gallaway will require complete Project design plans in .pdf and AutoCAD format from the Consultant to properly analyze the impacts of the proposed Projects to federally listed species.** Information contained within the BA includes species accounts, description of action area, results of our impacts analysis, incorporation of other technical studies such as drainage, hydrology, topographic, protocol level surveys, and project specific mitigation strategy. If determined necessary, Gallaway will be available to meet with the representatives of the USFWS to respond to questions and/or conduct a site visit. **The completed BA documents shall be submitted to the Consultant and Caltrans.**

This scope of work assumes two (2) rounds of review of each Biological Assessment.

4.2.3 Delineation of Waters of the United States

Delineations of Waters of the U.S. are required if jurisdictional waters occur within the project's boundaries. All waters of the United States that meet the US Army Corps of Engineers (USACE) criteria will be delineated within the APE. For the purpose of determining a delineation study area for federally funded projects, Gallaway utilizes the limits of the APE so that there is consistency Section 106 of the National Historic Preservation Act. Gallaway will obtain aerial photography of the site, using readily available resources. Topography for the project area will be supplied by the Consultant, the City or, if not available, USGS topo will be used. All wetland resources will be mapped according to USACE 2012 minimum mapping standards. A formal wetland delineation report prepared per the 1987 Wetland Delineation Manual and Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Arid West Region (2008) will be submitted. The delineations will be compliant with the Minimum Standards for Acceptance of Aquatic Resource Delineation Reports which becomes effective on January 1, 2016.

Gallaway will update the existing draft delineation of Waters of the United States to meet the current standards based on the United States Army Corps of Engineers Wetlands Delineation Manual (1987) (1987 Delineation Manual); the Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Arid West Region (2008) (Arid West Manual); the U.S. Army Corps of Engineers Jurisdictional Determination Form Instructional Guidebook (2007); the Field Guide to the Identification of the Ordinary High Water Mark (OHWM) in the Arid West Region of the Western United States (2008), and the 2020 Arid West Regional Wetland Plant List and the 2020 National Wetland Plant List. In addition, the South Pacific Division Regulatory Program Wetlands Determination and Delineation Procedures for Irrigated Lands (2012) was also used in preparing this report. Gallaway has prepared this report in compliance with the Minimum Standards for Acceptance of Aquatic Resources Delineation Reports (January 2016).

4.2.4 NHPA Section 106 Documentation

Gallaway will contract with Genesis Society to prepare the ASR and HPSR documentation. It does not appear that the bridge has been identified as a historical resource and per the Caltrans structural maintenance and investigations list from July 2015, the bridge is identified as not being eligible for the National Register of historic places. Therefore, the need for a Historical Resources Evaluation Report (HRER) is not anticipated. Genesis Society will complete the following:

- Conduct Records Searches involving County Records maintained by the Northeast Information Center (NEIC) at CSU, Chico.
- Consult with the Native American Heritage Commission regarding Sacred Land listings and with local Native American representatives for information they may provide concerning prehistoric sites and possible traditional use areas within or near the APE.
- Conduct pedestrian archaeological survey (for prehistoric and historic archaeological sites) within the APE.
- Prepare an ASR and HPSR documentation, including relevant Primary Records (State DP 523 forms) for prehistoric and historic-era archaeological sites identified during the pedestrian field survey.
- Deliver Final inventory reports to NEIC and Gallaway Enterprises.

It is assumed that no other built environmental resource other than the bridge will need to be evaluated as part of the Section 106 documentation. In the event that additional historic documentation is required, additional scoping and task identification will be required.

4.2.5 Air Quality Impact Assessment (AQIA)

The preparation of an AQIA will be necessary since the project includes the replacement of an existing 1-lane bridge with a 2-lane bridge. The Butte County Association of Governments (BCAG) included the Guynn Road Bridge in its 2012 RTP. The Guynn Road Bridge is included in the 2018 Emissions Analysis that is part of the 2012 RTP. The Environmental Impact Report for the 2012 RTP identifies several mitigation measures that are required for project level analysis, including mitigation measures (MM)3.3-1 (BCAQMD's Rule 205 Fugitive Dust Emission), MM3.3-2 CO hotspot analysis, MM3.3-3 Mobile Source Air Toxic (MSAT) analysis. These three mitigation measures from the 2012 RTP are consistent with the recommendations in the RFP.

Gallaway will include best available control measures identified in Table 1 of BCAQMD's Rule 205 Fugitive Dust Emissions; conduct a planning level screening of the local area for CO hotspot concentrations and if necessary provide recommendations to incorporate project-specific measures into the project design to reduce or alleviate CO hotspot concentrations, and consult with BCAG on appropriate tools and techniques regarding the assessment of potential health

risks posed by MSAT exposure. The assessment, consultation, best management practices and findings will be compiled into an Air Quality Impact Assessment in support of project approval and CEQA compliance.

4.2.6 Initial Site Assessment (ISA)

CAInc will perform the following tasks to provide an ISA for the bridge to evaluate the planned improvement location and adjacent properties for evidence of recognized environmental conditions (RECs) and/or potential RECs that may significantly impact the project.

- Review and discuss the projects with the design team.
- Review available project documents and reports including: existing ISA/ESA reports for nearby projects, APN parcel maps, site geology and ground water data. We will review this information for evidence of suspected or known contamination/hazardous materials issues (such as pesticide usage, industrial parks, orchards, etc.).
- Conduct a limited site reconnaissance to observe current land use and indications of potential contamination at the site, and to view publicly accessible portions of the adjacent properties.
- Review historical aerial photographs, topographic maps, and soil maps of the sites and surrounding properties for indications of site use and potential sources of contamination.
- Perform federal, state, and city records review for indications of the use, misuse, or storage of hazardous and/or potentially hazardous materials on or near the sites. The federal, state, and city database searches will be provided by a professional record check service.
- Based on the results of the database search, site review, land use and existing assessments, CAInc will determine the risk of potential hazardous materials within and adjacent to the project areas.
- Prepare a report summarizing the findings of our review, site reconnaissance, property owner interviews, historical photograph evaluation, and regulatory records review. We will address identified potential contamination and hazardous material impacts to provide recommendations and determine additional investigation and analysis, if necessary.

Three years have lapsed since the publication of the ISA report and the governmental records (referred to as environmental documents) summary in the report is derived from public records that are updated on a continual basis. Also, under the federal asbestos National Emission Standards for Hazardous Air Pollutants regulations (NESHAP, 40 CFR Part 61, Subpart M), a Certified Asbestos Consultant (CAC) must make definitive conclusions regarding the presence of ACCM. Finally, Crawford will screen soil adjacent to the four corners of the existing bridge for the presence of Aerially

Deposited Lead (ADL) concentrations that exceed hazardous waste limits. Samples of thermoplastic roadway striping shall also be collected and analyzed to screen for lead concentrations that exceed hazardous waste limits.

The Revised ISA will include:

- **Order and review current environmental documents to update site conditions if/as changed since 2020.**
- **Environmental sampling.**
- **Crawford with contract with National Analytical Laboratories, Inc. (NAL) to inspect the bridge for presence of asbestos, asbestos-containing construction materials, and lead-based paint.**
- **Crawford will collect soil samples at up to four locations, one at/near each corner of the bridge, to screen for the presence of ADL. At each location, soil discrete soil samples will be collected at 0-6", 12" to 18", and 24" to 30" below the ground surface. All samples will be analyzed for total lead. Samples with total lead concentrations ≥ 50 mg/kg will be further analyzed for soluble lead (WET and TCLP). Two samples will be analyzed for pH. For budgeting purposes, we assume 5 samples will be analyzed for soluble lead (both WET and TCLP).**
- **Collect and analyze samples of thermoplastic striping material to screen for lead concentrations that exceed hazardous waste limits.**
- **Conduct an updated limited site reconnaissance to observe current land use and indications of potential contamination at the site, and to view publicly accessible portions of the adjacent properties.**
- **Revise and update the ISA by incorporating the results of our environmental document review, asbestos and lead-based paint evaluation, and the ADL assessment. The revised ISA will present sample locations, copies of the analytical laboratory reports, tabular summary of the laboratory results, and our opinion as to classification of soil under State and Federal hazardous waste criteria. The updated environmental documents and asbestos report will be appended to the revised SA.**

4.3 CEQA/NEPA Compliance

Once the preferred project alternative is selected, Gallaway will prepare an Initial Study (IS) to determine project impacts and level of significance for the project. Based on the Request for Proposal, Addendum 1, the City anticipates the preparation of an Initial Study /Mitigated Negative Declaration for each project. By using the project alternative screening process and early identification of potential impacts, the project design and appropriate mitigation development may reduce project impacts to a less than significant level. If there are no significant, unmitigable environmental impacts or significant public controversy associated with the project, a Mitigated Negative Declaration (MND) will be prepared in compliance with CEQA. Gallaway will assist the City in complying with CEQA submittal and noticing responsibilities, including the preparation of CEQA public notices to be filed by the City with the

Butte County Clerk Recorder's Office and State Clearinghouse (i.e. NOI and NOC) and published in newspaper(s) in local general circulation. Payment of CEQA filing fees and costs associated with document reproductions, publishing of public notices in newspapers, internal distribution, and mailing is the responsibility of the City. Gallaway will prepare up to five (5) written responses to public inquiries/input received during the IS/MND 30-day public comment period and a Notice of Determination (NOD) for the City to file with County Clerk and State Clearinghouse.

In regards to NEPA clearance, Caltrans as the FHWA designated Lead Agency and responsible agency under the Highway Bridge Program typically handles all NEPA documentation utilizing supporting technical studies such as the NES, WD, and the ASR/HPSR. Gallaway will ensure that all technical studies comply with Caltrans and NEPA standards. The Consultant shall coordinate with Caltrans on the delivery of the NEPA document.

Utilizing the existing administrative draft Initial Study (IS), Gallaway will work with City staff to prepare an updated IS to determine Project impacts and levels of significance for the bridge project. By early identification of potential impacts, the Project design and appropriate mitigation development may reduce Project impacts to a less than significant level. If there are no significant, unmitigable environmental impacts or significant public controversy associated with the project, a Mitigated Negative Declaration (MND) will be prepared in compliance with CEQA. Gallaway shall assist the City in complying with CEQA submittal and noticing responsibilities. This scope assumes that payment of CEQA filing fees and costs associated with document reproductions, publishing of public notices in newspapers, internal distribution, and mailing is the responsibility of the City. Gallaway shall prepare up to five (5) written responses to public inquiries/input received during the IS/MND 30-day public comment period and a Notice of Determination (NOD) for the City to file with County Clerk and State Clearinghouse.

NEPA Compliance

In regards to NEPA clearance, Caltrans as the FHWA designated Lead Agency and responsible agency under the Highway bridge Program typically handles all NEPA documentation utilizing supporting technical studies such as the NES, WD, and the ASR/HPSR. Gallaway will ensure that all technical studies comply with Caltrans and NEPA standards.

4.4 Permitting

Gallaway anticipates the need for a Clean Water Act (CWA) Section 404 Nationwide Permit from the USACE, a CWA Section 401 Water Quality Certification from the Regional Water Quality Control Board, a CWA Section 1600 Streambed Alteration Agreement from the California Department of Fish and Wildlife, and an encroachment permit from the Central Valley Flood Protection Board. Each of these permitting tasks are further described below.

4.4.1 Clean Water Act (CWA) Section 404 USACE Permit Facilitation

Projects such as the Guynn Avenue Bridge Replacement are generally covered by Nationwide Permit (NWP) 14 (Linear Transportation Projects). NWP 14 applies to activities required for the construction, expansion, modification, or improvement of linear transportation project in Waters of the U.S. Currently, for linear transportation projects in non-tidal waters, the discharge cannot cause the loss of greater than ½ acre of Waters of the U.S. After bridge project plans are further refined and final project scope identified, the NWP 3 (Maintenance) or NWP 33 (Temporary Construction, Access, and Dewatering) may be the more appropriate permitting approach for bridge preventative maintenance / rehabilitation projects. Gallaway will prepare the appropriate USACE permit application based on the final design and scope of work when it becomes available.

4.4.2 Section 401 Regional Water Quality Control Board (RWQCB) Certification

Gallaway will prepare the CWA § 401 applications to obtain the Water Quality Certification from the RWQCB. **Additional efforts since the original proposal was developed for this task include the requirement to conduct a pre-application and an alternatives analysis shall be prepared as part of the application.** The application cannot be submitted until the lead agency has made a determination pursuant to CEQA and the Notice of Determination (NOD) has been filed with the State Clearinghouse.

This scope assumes that one (1) review of permit applications, payment of application fees, and signature(s) shall be required.

4.4.3 Section 1600 California Department of Fish and Wildlife (CDFW) Streambed Alteration Agreement

Gallaway will prepare the CWA § 1600 application for the Streambed Alteration Agreement for each bridge from the CDFW. Construction drawings at greater than 60% complete for improvements that result in impacts to waters within CDFW jurisdiction will be required. Upon submission of the permit application, Gallaway may conduct a site visit with CDFW to assure that all desired information is included in our submittal. The application cannot be submitted until the CEQA documentation and NOD has been filed with the California Office of Planning and Research State Clearinghouse.

This scope assumes that one (1) review of permit applications, payment of application fees, and signature(s) shall be required.

4.4.4 Central Valley Flood Protection Board Encroachment Permit

Lindo Channel is listed on the Title 23, Section 112, Table 8.1 of regulated streams and is also categorized as a Season 2 stream which means that it is subject to construction restrictions from November 1 to April 15. It is anticipated that the project will need a CVFPB encroachment

permit. Gallaway will utilize existing information, project designs, and the results of technical studies to develop the application.

This scope assumes that one (1) review of permit applications, payment of application fees, and signature(s) will be required.

4.4.5 Clean Water Act (CWA) § 401 Regional Water Quality Control Board (RWQCB) Certification Facilitation

Gallaway shall prepare the CWA § 401 application for the bridge to obtain the Water Quality Certification from the RWQCB. Additional efforts for this task include the requirement to conduct a pre-application and an alternatives analysis shall be prepared as part of the application. The application cannot be submitted until the lead agency has made a determination pursuant to CEQA and the Notice of Determination (NOD) has been filed with the State Clearinghouse.

This scope assumes that one (1) review of permit applications, payment of application fees, and signature(s) shall be required.

4.4.6 Section 106 of the National Historic Preservation Act (NHPA) Studies (Archaeological Survey Report and Historic Properties Survey Report (ASR and HPSR)) (Update and revise)

Gallaway will contract with Genesis Society to prepare the ASR and HPSR documentation for the bridge is identified as not being eligible for the National Register of Historic Places. A Historical Resources Evaluation Report (HRER) will be developed separately by a City subcontractor and integrated into the results of the ASR/HPSR. Sean Jensen, Genesis Society, will complete the following:

- **Conduct Records Searches involving County Records maintained by the Northeast Information Center (NEIC) at CSU, Chico.**
- **Consult with the Native American Heritage Commission regarding Sacred Land listings and with local Native American representatives for information they may provide concerning prehistoric sites and possible traditional use areas within or near the APEs.**
- **Conduct pedestrian archaeological survey (for prehistoric and historic archaeological sites) within the APEs.**
- **Prepare an ASR and HPSR documentation for each bridge, including relevant Primary Records (State DP 523 forms) for prehistoric and historic-era archaeological sites identified during the pedestrian field survey.**
- **Deliver Final inventory reports to NWIC and Gallaway.**

Given the early stage of Project development of the bridge rehabilitation projects and/or and limited information provided, it is not clear if Right-of-Way (ROW) acquisition shall be necessary to accommodate final bridge design.

This scope assumes that two (2) total rounds of review of the ASR and HPSR shall be completed.

4.5 Revised Preliminary Foundation Report

Crawford will prepare a revised Preliminary Foundation Report (PFR) that shall address project updates/changes and incorporate Caltrans guidelines for report preparation. The PFR shall be based on existing subsurface data, Bridge Inspection Reports, published geologic mapping and seismicity data, aerial photographs, and preliminary Project data. The Log of Test Borings sheets shall also be updated.

4.5.1 Engineering Evaluation and Analysis

Crawford will perform engineering evaluation and analysis (using computer software where applicable) for the following: bearing resistance; lateral capacity; settlement; site seismicity including procedures consistent with current Caltrans Seismic Design Criteria to determine the site acceleration response spectrum (ARS); liquefaction potential; lateral earth pressure and coefficient of friction to resist sliding; flexible pavements; and soil corrosivity.

4.5.2 Foundation Report

Crawford will prepare a Foundation Report (FR) for the bridge replacement (consistent with current Caltrans guidelines/format) for review and comment by the design team. The report will provide a site/project description, summarize site geology and geologic reconnaissance, subsurface exploration and field and laboratory soil tests, discuss scour considerations as applicable (based on Hydraulics Report prepared by others), and include a “Log of Test Borings” (LOTB) drawing. Earth materials and foundation conditions will be discussed including seismic criteria and the design ARS curve. The report will discuss structure foundation conditions/constraints, recommended type, loading of bridge foundation elements, retaining wall elements and include construction considerations. The report will also include/address approach roadway site preparation and grading.

Following receipt of all Draft FR review comments and concurrence with Caltrans, Crawford will prepare and submit a Final FR incorporating the comments as necessary. The FR will be submitted electronically as a PDF file.

4.6 Plan Review and Consultation

Crawford will provide consultation on geotechnical topics and perform a geotechnical review of the preliminary plans (30% or 90%) and final (100%) plans/specifications and provide comments to the design team.

4.7 Caltrans Comments

Crawford will respond to and incorporate Caltrans review comments into the final ISA and Foundation reports.

Task 4 Deliverables:

- Preliminary Environmental Study Form
- Technical Studies listed in 4.2
- CEQA IS/MND
- Permit Applications listed in 4.4
- **Draft PES Update memo, (Electronic Copy)**
- **Final PES Update Memo (electronic Copy)**
- **One (1) Draft NES Electronic Copy**
- **One (1) Final NES Electronic Copy**
- **One (1) Draft USFWS BA and USFWS BA Electronic Copy**
- **One (1) Final USFWS BA and USFWS BA Electronic Copy**
- **One (1) Wetland Delineation Electronic Copy**
- **Draft IS/MND with up to three (3) rounds of review and revision**
- **Final IS/MND Electronic Copy**
- **Draft 404 permit applications ready for review and signatures and Final applications**
- **Draft CWA § 401 Water Quality Certification Applications electronic copy and final application electronic copy**
- **Completed CVFPB encroachment permit application ready for review and signature.**
- **Draft ASR electronic copy**
- **Draft HPSR electronic copy**
- **Final ASR electronic copy**
- **Final HPSR electronic copy**
- **Draft and Final Foundation Report**
- **Revised ISA Report**

TASK 5.0 CONTRACT BID DOCUMENTS

5.1 65% Roadway Plans

Comments from the City on the conceptual geometric plans will be addressed and incorporated into the 65% roadway plans. Responses to comments will be prepared and submitted to the City.

The roadway design will be advanced to a 65% level that will include the following plans being updated and/or prepared: Title Sheet, Typical Sections, Horizontal Control, Layouts, Profiles, Construction Details, Drainage Plans, Utility Plans and Details, Traffic Handling and Stage

Construction, Erosion Control/Water Pollution Control Plans, Pavement Delineation and Sign Plans.

5.2 Structure Design (65% Unchecked Plans)

The bridge will be designed in accordance with current Caltrans Bridge Design manuals, including current Seismic Design Criteria. The design will be advanced to a 65% level (unchecked design) that will include the following plans being updated and/or prepared: General Plan, Deck Contours, Foundation Plan, Abutment Layout, Abutment Details, Bent Layout, Bent Details, Typical Section, Girder Layout, Miscellaneous Details, Retaining Wall Layout, Retaining Wall Details, and Log of Test Borings.

5.3 95% Roadway Plans

Comments from the City on the 65% Plans will be addressed and incorporated into the 95% design. Responses to comments will be prepared and submitted to the City.

The roadway design will be advanced to a 95% level and will include construction areas signs sheet, additional detailing for roadway and/or driveway conforms, grading, landscape, traffic signal, lighting, and drainage details.

5.4 Structure Independent Check (95% Plans)

Comments from the City on the 65% Plans will be addressed and incorporated into the 95% design. Responses to comments will be prepared and submitted to the City.

The Consultant shall perform an independent design check of the bridge plans in conformance with usual Caltrans bridge design procedures. A plan set will be marked up and provided to the bridge designer. Upon completion of the design check, discrepancies between the designer and checker will be reconciled and plans updated for preparation of final quantities, estimate and specifications.

5.5 Special Provisions

The Consultant shall develop project special provisions using Caltrans Standard Special Provisions and the City's Design and Construction Standards. The special provisions will be prepared using Microsoft Word. Special provisions will be submitted at the 95% and Final submittals. The City's boilerplate contract language will be incorporated into the specifications at the 95% submittal.

5.6 Estimate

The Consultant shall develop quantities and prepare construction cost estimates using the project geometrics and surfaces developed from survey information. Cost estimates will be calculated at the 65%, 95% and Final submittals.

Construction costs will be developed using current bid results from similar projects, Caltrans data base information and from Caltrans latest Construction Cost Manual. All estimates will be done in Caltrans BEES format using Microsoft Excel.

5.7 Final PS&E

Comments from the City on the 95% PS&E will be addressed and incorporated into the final construction documents. Any additional detailing will be included as required. Responses to comments will be prepared and submitted to the City.

Updates to the specifications and estimate will be completed. Final contract documents will be provided to the City for project advertisement.

5.8 Stormwater Pollution Prevention Plan (SWPPP)

Depending on the approved project footprint, a SWPPP may be required for this project. The SWPPP will be in compliance with the National Pollutant Discharge Elimination System (NPDES) Construction General Permit (CGP), and in accordance with the City's Storm Water Management Plan. If required, The Consultant shall prepare the SWPPP for the project, including uploading Permit Registration Documents (PRD's) to the state-wide database of construction projects (referred to as the Storm Water Multi-Application Report Tracking System or SMARTS database). The PRD's include the Notice of Intent (NOI), a risk assessment, post-construction calculations, a site map, a SWPPP, a signed certificate, and the first annual permit fee (to be paid by the City). Temporary and permanent water quality and erosion control measures will be designed using Best Management Practices (BMP), as identified on the Water Pollution Control Plans, included in the SWPPP.

5.9 RE Pending File

The Consultant shall prepare the RE Pending File for the project. The RE file will include project correspondence and memorandums that are important for the Resident Engineer to know about decisions, etc. that were made during project development, as well as quantity calculations and technical reports. Construction Staking Notes are not included within this task.

Task 5 Deliverables:

- Project Plans at 65%, 95%, and Final Submittals
- Special Provisions at 95% and Final Submittals
- Engineer's Estimate at 65%, 95%, and Final Submittals
- SWPPP
- RE Pending File

TASK 6.0 CALTRANS FUNDING ASSISTANCE

6.1 Caltrans Funding Assistance

The Consultant shall ensure compliance with Caltrans' Local Assistance Procedures Manual and work with the City to develop project approval documents for the project. The Consultant shall prepare Requests for Authorization (RFA) documents for right of way, utility relocation, and construction as the PE phase moves forward. No reimbursable work will begin on any of these subsequent phase until the City has received authorization to proceed (e76) from Caltrans. Additionally, the Consultant shall work directly with Caltrans Local Assistance on the documentation for special funding approvals when needed for the project.

Task 6 Deliverables:

- RFA Documents
- Funding Approval Documents

TASK 7.0 RIGHT OF WAY

It is assumed that there will be two (2) parcels impacted at the structure (APN 042-600-012 and 042-430-011) requiring permanent acquisitions. All R/W activities will follow Caltrans Division of Local Assistance procedures.

One (1) parcel (APN 042-600-012) impacted by the Project shall require permanent acquisition and a temporary construction easement (TCE). Two (2) parcels (APN 043-630-014 and 043-630-002) may require TCEs. Right of way services for these two parcels are included as optional tasks. The TCEs shall be acquired for a period of five years and shall be recorded. All right of way activities shall follow Caltrans Local Assistance Procedures Manual.

7.1 Right of Way Engineering

Once right-of-way needs have been identified, the Consultant shall provide right-of-way appraisal maps needed for negotiations with property owners for permanent acquisition required for the project. The Consultant shall prepare one legal description and one exhibit drawing for each of the two impacted parcels. Areas of each acquisition will be calculated as well as the areas of existing encumbrances that reside within the right of way acquisition to aid Bender Rosenthal, Inc. (BRI) in appraisals and negotiations. A draft of each legal description and exhibit drawing will be submitted to the City for review and comments.

The Consultant shall prepare up to three legal description(s) with 8-1/2" x 11" plat for TCEs. A draft of each plat and legal description shall be submitted to the City for review and comment. It is assumed the Right of Way determined from prior surveys shall be used and additional surveys shall not be required.

7.2 Right of Way Appraisals and Acquisitions

7.2.1 Waiver Valuation

BRI will provide Waiver Valuations for the two impacted parcels in lieu of appraisal reports. The proposed acquisitions are estimated to be valued under \$10,000 each. As the acquisitions will be valued under \$10,000 each and the property owners are deemed willing participants in the process, BRI recommends that Waiver Valuations be completed in lieu of full appraisal reports. Per Caltrans right of way manual chapter 7.02.13, if the value of a given right of way acquisition is less than \$10,000, a Waiver Valuation can be completed. A Waiver Valuation is a 2 to 3-page document outlining how the value of the acquisition was developed. A full appraisal is roughly 50 pages with a detailed analysis of the market, comparables, and must follow stringent state and federal standards. Waiver Valuations also do not require an independent review. As Waiver Valuations may not be used in court proceedings, the criteria for completing a waiver valuation are:

- A. There is no serious question as to highest and best use.
- B. Adequate market data is available.
- C. Substantial damages and benefits are not involved.
- D. There is no substantial decrease in market value due to the presence of hazardous material/waste.

BRI presumes that a waiver valuation will be prepared for all of the acquisitions on the impacted parcels. The waiver valuations will provide sufficient information for the City to determine the just compensation for the acquisitions for a fee and with a schedule duration shorter than that of full appraisal reports.

If direction is received from the City that a parcel owner is not a willing participant in the right of way process, acquisitions will require condemnation proceedings, or just compensation will exceed \$10,000, BRI will submit an amendment request to complete a full appraisal for the parcel.

7.2.2 Acquisitions

BRI proposes to develop all necessary contracts, conveyance documents and escrow instructions necessary to make offers based on client's process. BRI will prepare the offer letter based on the "Just Compensation" value determined by the City's staff. If directed, BRI will meet with the owners and convey documents until acceptance or impasse is reached regarding necessary acquisitions and easements.

Steps within the acquisition process are outlined below and will be tailored to the City's need for services:

1. Review the project concept and design with staff and other consultants.
2. Review appraisal (Waiver), title report, maps and descriptions of the required parcel.
3. Conduct field review of the project area.
4. Prepare right-of-way contract and other acquisition documents.
5. Meet with the property owners to discuss the project in general; review of maps and legal descriptions; confirm information about occupants/owners and make the official First Written Offer to owner. Acquire tenant consent if required.
6. The acquisition task assumes a settlement by the third contact either in person or by telephone. A recommendation to client will be made after impasse has been reached. To reach *impasse*:
 - A. Go through the acquisition steps outlined; plus
 - B. Make at least three contacts with owner (personal call, letter or phone call) in any combination; plus
 - C. Spend up to eight hours working on the parcel acquisition.
 - D. Respond to property owner inquiries verbally and in writing within two business days.

The acquisition steps when offering compensation to the property owner include:

- A. Owner accepts offer. (Close)
- B. Owner rejects offer.
 1. Owner refuses to counter. (Impasse)
 2. Owner makes counter proposal.
 - a. Client accepts counter. (Close)
 - b. Client rejects counter. (Impasse)
 - c. Client makes new offer.
 1. Owner accepts new offer. (Close)
 2. Owner does not accept new offer. (Impasse)
7. Deliver signed right-of-way contract and signed and acknowledged grant deed for closed transaction or deliver a memorandum explaining impasse.
8. Prepare a final report, including transfer of all pertinent correspondence and files to client.

BRI will develop and maintain the escrow schedule, deliver documents and checks to escrow companies, review all documents for submission to escrow companies, review title and escrow

documents, and apply extensive acquisition experience so that the project acquires good title and property rights necessary for the completion of the project. BRI will coordinate escrow closings and file all applicable forms and documents with the County Assessor's office. BRI will work with all parties to encourage acquisition within 30 days of the approval of the appraisal. BRI's acquisition agents will maintain a parcel diary to document all interactions with property owners and their tenants.

Upon review of the appraisal and establishment of just compensation, BRI will develop the contracts and conveyance documents necessary to make the offer(s) and acquire the necessary rights. The offer packages shall be reviewed internally for quality measures. BRI will then contact or attempt to contact the property owners at least six (6) times within the first sixty (60) days of approval to proceed and shall make additional contacts by phone, e-mail, or through the postal service. Finally, BRI will prepare a final file for each parcel, ensuring that it has been quality checked and meets State and Federal reporting requirements.

BRI will deliver documents and checks to the escrow company, review title and escrow documents, and apply extensive acquisition experience so that the Project acquires good titles and property rights necessary for completion. BRI will coordinate the escrow closing and fill all applicable forms and documents with the County Assessor's office if needed.

7.2.3 Right of Way Certification

Upon completion of the acquisitions, BRI will assist the City with the Right of Way Certification, as needed. Key Staff, Brenda, Tom, and Mike, are former Caltrans right of way agents, and are extremely knowledgeable about the Caltrans right of way certification process and, if requested, will work with the Caltrans staff to expedite the approval process.

7.2.4 Appraisals and Independent Appraisal Reviews

BRI will prepare up to three (3) appraisal reports. As part of the appraisal, BRI will prepare the Notice of Decision to Appraiser letter for each property, advise each property owner of the proposed Project, and answer questions and concerns. Appraisal reports shall comply with laws that are applicable to the specific appraisal assignment and the Uniform Standards of Professional Appraisal Practice (USPAP). Independent appraisal reviews shall be completed by Sierra West Valuation, Inc. as a subconsultant to BRI. Appraisal Reports and Independent Review Appraisals shall be submitted to the City for establishment of just compensation prior to preparation of offers to acquire the proposed land rights for the Project.

Task 7 Deliverables:

- ~~Plats & Legal Descriptions~~ (2 parcels)

- Waiver Valuations – (2 parcels)
- Negotiation Services – (2 parcels)
- ~~Permanent Acquisitions – (2 parcels)~~
- Right of Way Certification
- **Signed and Stamped Plat and Legal Descriptions – (Total 3)**
- **Appraisal Report and Independent Appraisal Review – (Total 3)**
- **Acquisition of one (1) Permanent right of way and three (3) TCEs**
- **Preliminary Title Report (Total 3)**

TASK 8.0 BIDDING ASSISTANCE AND CONSTRUCTION SUPPORT

8.1 Bidding Assistance and Construction Support

The Consultant’s team will provide assistance to the City during the bidding process and during construction of the project. The work may include answering bid inquiries from prospective bidders, attending pre-bid meetings, and preparing addenda to the PS&E documents during the advertisement period. During construction, the work may include responding to Requests for Information (RFIs) by the contractor, providing consultation and interpretation of the contract documents, preparing Contract Change Orders (CCOs), reviewing shop drawings, and attending construction meetings and field visits. We have assumed that a total of 150 hours is needed for this effort. The Consultant has provided a “budget” amount to be used on a time and materials basis as requested by the City. Any time spent beyond this budget will require a contract amendment.

PROJECT ASSUMPTIONS

This scope of work has been prepared using the following assumptions:

- The project will be advertised, awarded, and administered by the City and the City will coordinate reproductions of the bid package.
- No Design Exceptions will be required.
- Project duration through final PS&E is 24 months.
- Title reports will be provided by the City.
- Utilization of an offsite detour or stage construction will be determined during preliminary design. Only two alternatives will be considered during the conceptual state.
- City required permits acquired by City.
- Temporarily closure of the bridge during field exploration is acceptable if necessary.

- The City will waive all fees related to encroachment permits.
- Geotechnical field crews will be allowed to work at least during the hours of 8AM and 5PM.
- The subsurface exploration can be performed within City right-of-way.
- Geotechnical fieldwork will be combined with the bridge projects at Pomona Avenue and Salem Street so one drill mobilization can be accomplished for all three bridges.
- A formal Structure Type Selection Meeting with Caltrans is not required.
- City will prepare “front-end” (boiler plate) documentation for the specifications and assemble the technical specifications with the “front-end” documentation.
- One project design alternative is assessed through environmental review.
- The Consultant’s team prepares regulatory agency permit applications, but all application fees required by regulatory and resource agencies are the responsibility of the City.
- The project will run concurrent with the bridge projects at Pomona Avenue and Salem Street so efficiencies in project management, report preparation and design development can be realized.

Crawford assumes the following:

- **A separate retaining wall report is not required for the project and the retaining wall structures can be addressed in the Preliminary Foundation Report and the Foundation Report. Additional fieldwork may be required to characterize near surface soil conditions at retaining wall locations if a separate retaining wall report is required for the project.**
- **The loading at the bridge will not increase significantly for the new tip elevations to extend below the existing borings, therefore no additional borings for the bridge foundations are required.**
- **No infiltration testing is required.**
- **A borrow site evaluation is not included.**
- **Assessor’s parcel maps and draft improvement plans showing the Project site, stationing, and Project limits will be available for use.**
- **Chain of title research and/or review is not included.**

- **Crawford will obtain an encroachment for the sample collection. Crawford assumes the City will waive the permit fee.**
- **Soil sampling for ISA can be completed using hand tools.**

Completion Schedule

The Consultant shall complete all services outlined herein by **December 31, 2022 2025 2026**.

~~Preliminary Engineering and Design shall be completed within 24 months of Agreement date.~~

AMENDMENT NO. 2

CITY OF CHICO - PROFESSIONAL SERVICES AGREEMENT

MARK THOMAS & COMPANY, INC.

Consultant

GUYNN AVENUE BRIDGE REPLACEMENT:
DESIGN & ENVIRONMENTAL SERVICES

Project Title

307-000-8800/50232-307-4140


Budget Account No.

AMENDED
EXHIBIT C

Compensation for the services shall be in accordance with the following schedule of hourly rates attached as pages ~~C2-R1 through C10-R1~~ **C2-R2 through C11-R2**. Total maximum compensation for the services outlined herein shall not exceed ~~\$503,427.00~~ **\$786,108.00** for ~~services outlined in the cost proposal attached as page(s) C-9.~~

Monthly progress payment shall be paid based on actual work completed.

COST PROPOSAL FOR PROJECT SCOPE: Chico-Guynn Ave Bridge Replacement (AM #2)

											Subconsultants				TOTAL COST	
	Engineering Manager	Sr. Technical Lead	Project Manager	Design Engineer II	Sr. Technician	Survey Manager	Project Surveyor	Sr. Survey Technician	2 Person Field Crew	Sr. Project Coordinator	Total Hours	Total MT Cost	Bender Rosenthal	Gallaway		Crawford & Associates
	\$319	\$265	\$214	\$142	\$145	\$217	\$192	\$136	\$328	\$145		Non-DBE	DBE	Non-DBE		
1.0 PRELIMINARY ENGINEERING																
1.1 Additional Topographic Survey						2	4	8	16	4	34	\$8,118	-	-	-	\$8,118
1.2 Preliminary Structural Analysis	26	80								4	110	\$30,074	-	-	-	\$30,074
1.3 Additional Roadway Geometric Alternatives			80	140	80						300	\$48,600	-	-	-	\$48,600
1.4 Utility Coordination			8								8	\$1,712	-	-	-	\$1,712
Subtotal Phase 1	26	80	88	140	80	2	4	8	16	8	452	\$88,504	\$0	\$0	\$0	\$88,504
2.0 RIGHT OF WAY SERVICES																
2.1 Right of Way Engineering			16				48	30			94	\$16,720	-	-	-	\$16,720
2.2 Right of Way Appraisals & Acquisitions	20										20	\$6,380	28,900	-	-	\$35,280
Subtotal Phase 2	20	0	16	0	0	0	48	30	0	0	114	\$23,100	\$28,900	\$0	\$0	\$52,000
3.0 TECHNICAL STUDIES																
3.1 PES / NES / BA / WD / AQIA	20										20	\$6,380	-	21,403	-	\$27,783
Subtotal Phase 3	20	0	0	0	0	0	0	0	0	0	20	\$6,380	\$0	\$21,403	\$0	\$27,783
4.0 CEQA/NEPA																
4.1 CEQA											0	\$0	-	6,410	-	\$6,410
Subtotal Phase 4	0	0	0	0	0	0	0	0	0	0	0	\$0	\$0	\$6,410	\$0	\$6,410
5.0 PERMITTING																
5.1 404 / 401 / 1600 / CVPPP-EP / section 106	20										20	\$6,380	-	22,406	-	\$28,786
Subtotal Phase 5	20	0	0	0	0	0	0	0	0	0	20	\$6,380	\$0	\$22,406	\$0	\$28,786
6.0 GEOTECHNICAL & ENVIRONMENTAL SERVICES																
6.1 Revised Preliminary Foundation Report	8										8	\$2,552	-	-	6,427	\$8,979
6.2 Foundation Report	12										12	\$3,828	-	-	14,935	\$18,763
6.3 Revised Initial Site Assessment	8										8	\$2,552	-	-	12,057	\$14,609
6.4 Plan Review & Consultation											0	\$0	-	-	3,403	\$3,403
6.5 Caltrans Review Comments											0	\$0	-	-	7,964	\$7,964
Subtotal Phase 6	28	0	0	0	0	0	0	0	0	0	28	\$8,932	\$0	\$44,786	\$0	\$53,718
TOTAL HOURS	114	80	104	140	80	2	52	38	16	8	634					
OTHER DIRECT COSTS												\$8,700	\$8,830	\$3,900	\$4,050	\$25,480
TOTAL COST	\$36,366	\$21,200	\$22,256	\$19,880	\$11,600	\$434	\$9,984	\$5,168	\$5,248	\$1,160		\$141,996	\$37,730	\$54,119	\$48,836	\$282,681

Note: Mark-ups are Not Allowed

Prime Consultant

Subconsultant

2nd Tier Subconsultant

Consultant: **Mark Thomas & Company, Inc.**

Project No. **300-000-8800/50232-300-4140** Contract No. _____

Date **5/17/2022**

DIRECT LABOR

Classification/Title	Name	Range	Hours	Actual Hourly Rate	Total
Principal		\$120 - \$150		\$ 138.47	\$ -
Sr. Engineering Manager		\$99 - \$131		\$ 116.38	\$ -
Engineering Manager		\$89 - \$115		\$ 100.61	\$ -
Practice Area Leader		\$89 - \$115		\$ 100.61	\$ -
Sr. Project Manager		\$69 - \$99		\$ 83.78	\$ -
Sr. Technical Lead		\$69 - \$99		\$ 82.03	\$ -
Project Manager		\$60 - \$81		\$ 68.36	\$ -
Technical Lead		\$60 - \$81		\$ 68.36	\$ -
Sr. Project Engineer		\$51 - \$71		\$ 58.89	\$ -
Sr. Technical Engineer		\$51 - \$71		\$ 58.89	\$ -
Project Engineer		\$46 - \$65		\$ 51.53	\$ -
Design Engineer II		\$39 - \$58		\$ 44.87	\$ -
Design Engineer I		\$30 - \$51		\$ 36.81	\$ -
Planner II		\$30 - \$50		\$ 37.16	\$ -
Sr. Technician		\$36 - \$57		\$ 45.57	\$ -
Technician		\$24 - \$46		\$ 30.85	\$ -
Planner I		\$22 - \$38		\$ 29.80	\$ -
Intern		\$15 - \$35		\$ 21.03	\$ -
Survey Division Manager		\$90 - \$115		\$ 103.41	\$ -
Sr. Survey Manager		\$66 - \$90		\$ 78.17	\$ -
Survey Manager		\$57 - \$78		\$ 69.76	\$ -
Sr. Project Surveyor		\$54 - \$73		\$ 62.05	\$ -
Project Surveyor		\$49 - \$68		\$ 56.79	\$ -
Sr. Surveyor		\$40 - \$62		\$ 48.73	\$ -
Surveyor		\$35 - \$53		\$ 41.72	\$ -
Lead Survey Technician		\$46 - \$65		\$ 51.53	\$ -
Sr. Survey Technician		\$29 - \$57		\$ 41.37	\$ -
Survey Technician		\$25 - \$43		\$ 31.55	\$ -
Survey Intern		\$15 - \$35		\$ 25.94	\$ -
Single Chief*		\$47 - \$66		\$ 56.44	\$ -
Single Instrumentman*		\$43 - \$61		\$ 51.53	\$ -
Single Chainman*		\$41 - \$60		\$ 51.53	\$ -
Apprentice*		\$20 - \$55		\$ 34.00	\$ -
1 Person Field Crew*		\$47 - \$66		\$ 56.44	\$ -
2 Person Field Crew*		\$88 - \$117		\$ 103.41	\$ -
3 Person Field Crew*		\$108 - \$160		\$ 138.47	\$ -
Sr. LAUD Division Manager		\$80 - \$100		\$ 87.99	\$ -
LAUD Division Manager		\$72 - \$94		\$ 80.98	\$ -
Sr. LAUD Project Manager		\$61 - \$84		\$ 76.42	\$ -
LAUD Project Manager		\$57 - \$76		\$ 66.25	\$ -
Landscape Architect		\$35 - \$67		\$ 46.62	\$ -
Landscape Designer II		\$25 - \$55		\$ 37.16	\$ -
Landscape Designer I		\$20 - \$40		\$ 29.80	\$ -
Landscape Intern		\$15 - \$35		\$ 20.68	\$ -
District Manager-Engineer		\$95 - \$115		\$ 104.47	\$ -
Deputy District Manager		\$85 - \$110		\$ 96.05	\$ -
Operations Manager		\$75 - \$99		\$ 83.78	\$ -
Sr. Sanitary Project Engineer		\$65 - \$90		\$ 74.32	\$ -
Sanitary Project Engineer		\$61 - \$87		\$ 66.61	\$ -
Associate Sanitary Engineer		\$48 - \$70		\$ 56.44	\$ -
Assistant Sanitary Engineer		\$44 - \$62		\$ 49.08	\$ -

Sr. Inspector*		\$38 - \$57		\$ 43.82	\$ -
Inspector*		\$30 - \$50		\$ 36.11	\$ -
Inspector - Apprentice*		\$20 - \$44		\$ 25.94	\$ -
Area Manager - CM		\$102 - \$130		\$ 117.79	\$ -
Division Manager - CM		\$88 - \$112		\$ 98.16	\$ -
Sr. Project Manager - CM		\$78 - \$99		\$ 87.99	\$ -
Project Manager - CM		\$72 - \$93		\$ 79.93	\$ -
RE/Structural Representative		\$76 - \$95		\$ 78.52	\$ -
Asst. Resident Engineer*		\$57 - \$76		\$ 68.36	\$ -
Inspector - CM*		\$57 - \$76		\$ 68.36	\$ -
Office Engineer		\$40 - \$62		\$ 49.08	\$ -
Office Technician		\$20 - \$39		\$ 25.94	\$ -
Expert Witness		\$130 - \$168		\$ 154.24	\$ -
Strategic Consulting		\$130 - \$168		\$ 154.24	\$ -
Sr. Funding Specialist		\$50 - \$73		\$ 59.59	\$ -
Funding Specialist		\$40 - \$62		\$ 49.08	\$ -
Sr. Project Accountant		\$40 - \$69		\$ 57.84	\$ -
Project Accountant		\$32 - \$52		\$ 39.61	\$ -
Sr. Project Coordinator		\$36 - \$58		\$ 45.57	\$ -
Project Coordinator		\$28 - \$48		\$ 36.11	\$ -
Sr. Project Assistant		\$28 - \$48		\$ 35.76	\$ -
Project Assistant		\$20 - \$39		\$ 26.99	\$ -
Sr. Technical Writer		\$29 - \$52		\$ 41.72	\$ -
Technical Writer		\$20 - \$40		\$ 27.34	\$ -
Sr. Graphic Manager		\$47 - \$65		\$ 54.34	\$ -
Sr. Graphic Designer		\$36 - \$58		\$ 46.97	\$ -
Graphic Designer		\$31 - \$50		\$ 39.61	\$ -

LABOR COSTS

a) Subtotal Direct Labor Costs	\$ -
b) Anticipated Salary Increases (see page 2 for calculation)	\$ -
c) TOTAL DIRECT LABOR COSTS [(a) + (b)]	\$ -

INDIRECT COSTS

d) Fringe Benefits (Rate: <u>72.27%</u>)	e) Total Fringe Benefits [(c) x (d)]	\$ -
f) Overhead & G&A (Rate: <u>87.06%</u>)	g) Overhead [(c) x (f)]	\$ -
h) General & Admin (Rate: <u> </u>)	i) Gen & Admin [(c) x (h)]	\$ -
	j) TOTAL INDIRECT COSTS [(e) + (g) + (i)]	\$ -
FIXED FEE	k) TOTAL FIXED FEE [(c) + (j)] x fixed fee: 10%	\$ -

I) CONSULTANT'S OTHER DIRECT COSTS (ODC) - ITEMIZE (Add additional pages if necessary)

Description of Item	Quantity	Unit	Unit Cost	Total
				\$ -
				\$ -
				\$ -
I) TOTAL OTHER DIRECT COSTS				\$ -

m) SUBCONSULTANTS' COSTS (Add additional pages if necessary)

Subconsultant 1:	_____
Subconsultant 2:	_____
Subconsultant 3:	_____
Subconsultant 4:	_____
m) TOTAL SUBCONSULTANTS' COSTS	\$ -

n) TOTAL OTHER DIRECT COSTS INCLUDING SUBCONSULTANTS [(l) + (m)]	\$ -
TOTAL COST [(c) + (j) + (k) + (n)]	\$ -

NOTES:

1. Key personnel must be marked with an asterisk (*) and employees that are subject to prevailing wage requirements must be marked with two asterisks (**). All costs must comply with the Federal cost principles. Subconsultants will provide their own cost proposals.
2. The cost proposal format shall not be amended. Indirect cost rates shall be updated on an annual basis in accordance with the consultant's annual accounting period and established by a cognizant agency or accepted by Caltrans.
3. Anticipated salary increases calculation (page 2) must accompany.

Certification of Direct Costs:

I, the undersigned, certify to the best of my knowledge and belief that all direct costs identified on the cost proposal(s) in this contract are actual, reasonable, allowable, and allocable to the contract in accordance with the contract terms and the following requirements:

1. Generally Accepted Accounting Principles (GAAP)
2. Terms and conditions of the contract
3. Title 23 United States Code Section 112 - Letting of Contracts
4. 48 Code of Federal Regulations Part 31 - Contract Cost Principles and Procedures
5. 23 Code of Federal Regulations Part 172 - Procurement, Management and Administration of Engineering and Design Related Service
6. 48 Ccode of Federal Regulations Part 9904 - Cost Accounting Standards Board (when applicable)

All costs must be applied consistently and fairly to all contracts. All documentation of compliance must be retained in the project files and be in compliance with applicable federal and state requirements. Costs that are noncompliant with the federal and state requirements are not eligible for reimbursement.

Local governments are responsible for applying only cognizant agency or Caltrans accepted Indirect Cost Rate(s).

Prime Consultant or Subconsultant Certifying:

Name: R. Matt Brogan

Title *: Vice President

Signature: 

Date of Certification: 05/17/2022

Email: mbrogan@markthomas.com

Phone number: (916) 381-9100

Address: 701 University Avenue, Suite 200, Sacramento, CA 95825

* An individual executive or financial officer of the consultant's or subconsultant's organization at a level no lower than a Vice President or a Chief Financial Officer, or equivalent, who has authority to represent the financial information utilized to establish the cost proposal for the contract.

List services the consultant is providing under the proposed contract:

COST PROPOSAL

CONTRACT No. City of Chico: Guynn Avenue Bridge
 CONSULTANT Bender Rosenthal, Inc.

Date 28-Apr-17

DIRECT LABOR

Classification	Name	Task	Hours	Actual/Average		Total
				Hourly	Rate	
ROW Project Manager	Brenda Schimpf	PM	8.0 @	\$ 76.92	\$	615.36
Appraisal Manager	Mike Lahadny	Waivers	8.0 @	\$ 65.10	\$	520.80
Appraiser	TBD	Waivers	36.0 @	\$ 42.26	\$	1,521.36
Acquisition Manger	Tom Ganyon	Acquisitions	6.0 @	\$ 69.00	\$	414.00
Acquisition Agents	TBD	Acquisitions	50.0 @	\$ 54.00	\$	2,700.00
Researchers	TBD	Waivers/Support	28.0 @	\$ 26.83	\$	751.24
Administrator / Clerical	TBD	Support	18.0 @	\$ 24.86	\$	447.48

Subtotal Direct Labor Costs \$ 6,970.24

Total Direct Labor Costs \$ 6,970.24

FRINGE BENEFITS

Fringe Benefits	Rate	Total
	65.20%	\$ 4,544.60
Total Fringe Benefits		\$ 4,544.60

INDIRECT COSTS

Overhead/General and Administrative	Rate	Total
	43.18%	\$ 3,009.75
Total Indirect Costs		\$ 3,009.75

FEE @ 10%

\$ 1,452.46

OTHER COSTS

Travel & Per Diem		\$ 440.00
Preliminary Title Reports	2 at	\$ 750.00
Shipping		\$ 83.95
Total Other Costs		\$ 2,023.95

TOTAL COSTS

\$ 18,001.00

COST PROPOSAL

CONTRACT No. _____
 CONSULTANT Gallaway Enterprises, Inc

Date 27-Apr-17

DIRECT LABOR

Classification	Name	Range	Hours	Initial Hourly Rate	Total
Sr. Biologist	<u>Jody Gallaway</u>		<u>56.0</u> @	\$ <u>55.00</u>	\$ <u>3,080.00</u>
Sr. Planner/Project Manager	<u>Kevin Sevier</u>		<u>184.0</u> @	\$ <u>45.00</u>	\$ <u>8,280.00</u>
Sr. Botanist	<u>Elena Gregg</u>		<u>64.0</u> @	\$ <u>42.00</u>	\$ <u>2,688.00</u>
Biologist	<u>Staff</u>	<u>24-28</u>	<u>162.0</u> @	\$ <u>28.00</u>	\$ <u>4,536.00</u>
GIS Analyst 1	<u>Cate Davis</u>		<u>84.0</u> @	\$ <u>28.00</u>	\$ <u>2,352.00</u>
Administrator / Clerical	<u>Ganna Kleppe</u>		<u>14.0</u> @	\$ <u>18.00</u>	\$ <u>252.00</u>

Subtotal Direct Labor Costs \$ 21,188.00

Total Direct Labor Costs \$ 21,188.00

FRINGE BENEFITS

Fringe Benefits Rate 34.00% Total \$ 7,203.92
 Total Fringe Benefits \$ 7,203.92

INDIRECT COSTS

Overhead/General and Administrative Rate 87.00% Total \$ 18,433.56
 Total Indirect Costs \$ 18,433.56

FEE @ 10% \$ 4,682.55

OTHER COSTS

Travel & Per Diem \$ 140.00
 Office Misc. & Reproductions \$ _____
SUBCONTRACTORS
 Bollard-Noise study \$ 4,000.00
 Genesis \$ 3,900.00
 Total Other Costs \$ 8,040.00
 Subcontractor Cost \$ _____

TOTAL COSTS \$ 59,548.03

COST PROPOSAL FOR PROJECT SCOPE: GYNN AVENUE BRIDGE OVER LINDO CHANNEL

MARK THOMAS & COMPANY INC. HOURS															
	Principal	Engineering Manager	Project Manager	Sr. Project Engineer	Project Engineer	Design Engineer II	Design Engineer I	Technician	Intern	Project Surveyor	Survey Technician	Project Coordinator	Project Assistant	MTCO HOURS	
														45.00	Project Surveyor
														85.00	Survey Technician
														86.00	Project Coordinator
														57.00	Project Assistant
1.0 PROJECT MANAGEMENT															
1.1 Project Meetings	4	20	20		10										
1.2 Project Management	4	60	40		10										
1.3 Quality Assurance/Quality Control			40			40									
Subtotal Task 1	8	120	60		20	40									
2.0 PRELIMINARY ENGINEERING															
2.1 Base Mapping Review and Site Reconnaissance		6	8		16		16								
2.2 Conceptual Layout Plans			8		40		100	40							
2.3 Structure Type Selection Report		8		16	40										
2.4 Preliminary Cost Estimate		2	2		48		30								
2.5 Geotechnical Analysis and Report		4		8	16										
2.6 Hydrology/Hydraulic Analysis and Report		4		8	16										
2.7 Utility Coordination		2	4		16										
Subtotal Task 2	26	22	32	19	183,502	\$6,718	\$4,124	\$4,124	\$9,454	\$20,228	\$12,200	\$6,654	\$53,664	\$10,872	\$28,672
															MTCO SUBTOTAL
3.0 PUBLIC OUTREACH															
3.1 Project Notification Letters		16	16												
3.2 Public Meeting Attendance		20	20												
Subtotal Task 3	36														
															Bender Rosenthal
4.0 ENVIRONMENTAL CLEARANCE															
4.1 Preliminary Environmental Study (PES) Form															
4.2 Technical Studies															
4.3 CEQA/NEPA Compliance															
4.4 Permitting															
Subtotal Task 4															
															Galloway Enterprises
															Crawford & Associates
5.0 CONTRACT BID DOCUMENTS															
5.1 65% Roadway Plans															
5.2 Structure Design (65% Unchecked P															
5.3 95% Roadway Plans															
5.4 Structure Independent Check (f															
5.5 Special Provisions															
5.6 Estimate															
5.7 Final PS&E															
5.8 Storm Water Pollut															
5.9 RE Pending Filr															
Subtotal Task 5															
															Avila & Associates
															SUBCONSULTANT SUBTOTAL
6.0 CALT															
6.1 Cal															
Sub															
															TOTAL FEE

MARK THOMAS & COMPANY INC. FEE

SUBCONSULTANT FEES