

AMENDMENT NO. 1

CITY OF CHICO - PROFESSIONAL SERVICES AGREEMENT

AGREEMENT DATED MAY 1, 2018

BETWEEN CITY OF CHICO

AND

CAROLLO ENGINEERS, INC.

Consultant

STRATEGIC PLANNING AND SEWER RATE REVIEW SUPPORT

Project Title

300-000-8801/50507-300-4800

Budget Account No.

**THIS PROFESSIONAL SERVICES AGREEMENT AMENDMENT** (Amendment) is entered into on June 15, 2021, between the City of Chico, a municipal corporation under the laws of the State of California (City), and Carollo Engineers, Inc. (Consultant). On May 1, 2018, City and Consultant entered into "City of Chico - Professional Services Agreement" (Agreement). The provisions of the Agreement are hereby amended as follows:

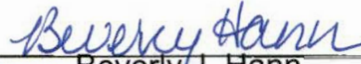
- I. The Budget Account Number has changed from 851-000-8801/50367-851-4800 to 300-000-8801/50507-300-4800.
- II. Exhibit B is hereby superseded and replaced by revised Pages B1-R1 through B14-R1 attached hereto.
- III. Exhibit C is hereby superseded and replaced by revised Pages C1-R1 through C2-R2 attached hereto.
- IV. All other provisions of the Agreement shall remain in full force and effect.

CITY:

CONSULTANT:



Mark Orme, City Manager\*



By: Beverly J. Hann

Title Vice President

\* Authorized pursuant to Section 3.08.060 of the Chico Municipal Code



By: Christopher T. Cleveland

Title Sr. Vice President

APPROVED AS TO FORM:



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Vincent C. Ewing, City Attorney\*

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

REVIEWED AS TO CONTENT:



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Scott Dowell, Administrative Services Director\*

\*Reviewed by Finance and Information Systems

APPROVED AS TO CONTENT:



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Brendan Ottoboni, Public Works Director,  
Engineering

**AMENDMENT NO. 1**

**CITY OF CHICO - PROFESSIONAL SERVICES AGREEMENT**

CAROLLO ENGINEERS, INC.

Consultant

STRATEGIC PLANNING AND SEWER RATE REVIEW SUPPORT

Project Title

400-000-8801/50507-000-4800

Budget Account No.

AMENDED

EXHIBIT B

**Amendment No. 1 services (in bold):**

**Scope of Professional Services - Basic**

The Consultant shall provide professional services as follows:

**TASK 1: PROJECT MANAGEMENT AND PROGRESS MEETINGS**

**1.1 Project Management**

Consultant will make staffing assignments, review work progress, and communicate progress to the City. Consultant will also manage the budget, schedule, and invoicing. The scope and fee associated with this item assumes an overall project duration of 13 months (8 months for facility planning efforts and 5 months of intermittent coordination with the City's rate study consultant during completion of the rate study effort).

**1.2 Progress Meetings**

Conduct periodic teleconferences with City management and staff to collect relevant information, receive guidance on the evaluation efforts, discuss issues and concerns, and report progress of the work. It is anticipated that two meetings will be held at the City's WPCP, and the other communications will occur via teleconference. The first project meeting will be a kickoff workshop to discuss planning goals and objectives, planning process, work plan, and schedule.

Whenever possible, on-site efforts required in other Tasks will be coordinated with on-

site meetings.

### Quality Management

All work will be reviewed by senior engineering or professional staff for quality and consistency.

### Task 1 Deliverables:

- *Meeting agendas and minutes*
- *Monthly progress reports*

## TASK 2: CONDUCT CONDITION ASSESSMENT OF WPCP FACILITIES

Approximately 30 percent of the current plant's rated capacity is provided by aging Plant 1 facilities that have not been operated for 15 years. Additionally, half of the Plant 2 facilities were constructed almost 20 years ago. A condition assessment will allow for the determination of remaining useful life of these facilities and/or rehabilitation options needed to maintain the WPCP's overall capacity rating. Consultant will conduct the following subtasks required for the completion of a condition assessment at the WPCP.

### 2.1 Develop Asset Database

Develop an asset inventory at the appropriate level of detail for risk analysis and capital rehabilitation and replacement planning, using City-standard asset naming conventions.

### 2.2 Conduct Condition Assessment

Conduct a multidiscipline, visual condition assessment of the plant. The City will provide one or two experienced plant staff members knowledgeable in maintenance and operations history relevant to the discipline engineer's observations. The condition assessment team will include mechanical, electrical/instrumentation, structural, and civil/process engineers. As needed, ultrasonic thickness measurements will be collected on exposed metal surfaces.

### 2.3 Document Assessment Findings and Calculate Remaining Useful Life Estimates

Populate the results of the condition assessment into the asset database and work with City staff to first establish useful lives for the various assets based on industry standard guidelines, Consultant's project experience, and the institutional knowledge of City staff. Consultant will then utilize these useful life expectancies and findings from the condition assessment to develop estimates of remaining useful life for all assets. These estimates will serve as initial parameters for determining the optimal replacement timing, and they will be used to calculate a vulnerability score for each asset.

#### 2.4 Establish Criticality Scores

Work with the City to establish criticality, or consequence of asset failure, scores for the WPCP assets in terms of the impact of failure to the environment, customers, and health and safety; ability to return the asset to service; and repair costs.

#### 2.5 Calculate Risk Scores for Project Prioritization

Combine the criticality scores with the vulnerability scores determined from the useful life estimates to calculate risk. Assets will be sorted by risk to verify that known areas of concern are appropriately ranked. For assets with unknown condition, a risk score will be calculated with vulnerability based on age.

These scores will be used to schedule capital replacement projects within the overall strategic planning effort included as Task 4.

### TASK3: DEVELOP REPAIR, REHABILITATION OR REPLACEMENT ALTERNATIVES

#### 3.1 Develop Repair, Rehabilitation, or Replacement Alternatives

Evaluate options for repair, rehabilitation, and/or replacement of Plant 1 facilities and those found to be in poor condition (and/or needing repair) during the condition assessment of Plant 2.

#### 3.2 Prepare Planning Level Cost Estimates

Planning level (Class 4) project cost estimates will be prepared for the identified options for inclusion into the comprehensive implementation plan developed under Task 4.

### TASK 4: WPCP STRATEGIC PLANNING

The last facility planning effort for the WPCP (completed in December 2001) provided a roadmap for achieving a buildout treatment capacity of 15 million gallons per day. Since that time, the regulatory climate has evolved, and technology has improved. While plant influent flows have been fairly constant over the past few years as housing growth has curtailed, other parameters such as wastewater strength may have changed due to water conservation and housing densification. Revised trigger dates should be established to ensure that capital improvements are properly scheduled, to best prepare the City financially for future growth-related capital expenditures. Additionally, the City recently completed its 2030 General Plan, and Consultant utilized the land-use data from this General Plan to update the Sanitary Sewer MasterPlan. An updated WPCP Facility Plan will need to be consistent with the City's needs identified in the 2030 General Plan.

Lastly, WPCP staff is in the process of completing an ammonia optimization control project that

-includes facility modifications that allow the return of centrifuge centrate to the secondary process in Plant 2 in a modified (paced) fashion with the goal of reduced energy usage through optimized blower control. The impact this has on the rated capacity at Plant 2 (and/or overall solids production at the facility) will need to be evaluated to determine how best to accommodate buildout needs at the WPCP. This maybe especially important as the City will be asked to consider the regionalization project proposed by the Town of Paradise to connect to Chico's WPCP.

The WPCP planning effort will include the following tasks, which will incorporate findings from Tasks 2 and 3, as appropriate.

#### 4.1 Flow and Loading Analysis

This task involves efforts aimed at understanding current and future influent loading for use in the development of treatment system design criteria and sizing to meet buildout needs. This effort includes the following subtasks.

##### 4.1.1 Data Review/Information Needs

Consultant maintains City data files used in previous design and permitting efforts. As such, our team already has much of the data necessary for completion of Task 4.1 (monthly operating data through December 2016). This first task will focus on the compilation of data currently available for influent quality criteria (BODS, TSS, ammonia nitrogen, and priority pollutants) and preparation of an information needs summary that WPCP staff can reference in providing any remaining information needs through the period of analysis (current).

The information request will include loading data (flow, BOD, TSS, and ammonia nitrogen) due to commercial and industrial input (as appropriate based on expected loading and availability of sampling options).

##### 4.1.2 Evaluation of Current WPCP Loading

With data compiled in the previous task, Consultant will calculate annual average loadings for flow, BOD, TSS, ammonia nitrogen, appropriate WPCP peaking factors, as well as total solids at the WPCP (dry tons per day) for screenings and sludge.

##### 4.1.3 Projection of Future WPCP Loading

This task will include an evaluation to project future plant loadings from the following sources:

- Increased influent flow/loading due to population growth (in

- accordance with the 2030 General Plan).
- Growth in the commercial and/or industrial sector.
- Projected future waste loads due to the connections from the currently un-sewered population within the service boundary.
- Projected future impacts should the City agree to a regionalization plan with the Town of Paradise.

#### 4.2 WPCP Hydraulic Capacity Evaluation

Review, validate, and update the current hydraulic model to reflect current conditions and potential hydraulic limitations based on information developed in the tasks above. This hydraulic evaluation will include all subsystems impacting the hydraulic project (internal recirculation systems, etc.), providing the following findings for use in the overall strategic planning effort:

- Determination of location(s) of existing and future flow restrictions, and recommendations for corrective measures to address these flow restrictions.
- Identification of any new process flow element recommendations resulting from the alternatives analysis.

#### 4.3 Process Modeling of Existing and Future Facilities

An updated process model will be useful in determining whether possible capacity adjustments may be appropriate and will also serve as a basis for modeling alternative treatment trains for future capacity and treatment needs. Consultant's efforts will include the following subtasks.

##### 4.3.1 Process Modeling of Existing Facilities

Perform computer simulation modeling of the liquid process stream with BioWin™ software using plant operating records. This task includes the determination of firm capacity and capacities for each of the individual treatment processes (summarized in tabular format) and will include redundancy and reliability information/requirements.

##### 4.3.2. Process Modeling of Future Facilities

Use the updated process model to identify process deficiencies for the various influent load and regulatory scenarios identified in Task 4.5.

#### 4.4 Requirements of Existing NPDES Permit

The City's National Pollutant Discharge Elimination System (NPDES) permit was renewed last year by the Central Valley Regional Water Quality Control Board (RWQCB) requiring evaluation and recommendation for improvements (as necessary) to meet final effluent limitations associated with Discharge Point D-002 (discharges to the M&T pond) by May 2021.

Consultant has been contracted separately to complete the necessary studies and evaluations assigned by the permit related to this requirement. This NPDES Permit-Related Requirements project includes preparation of an interim antidegradation analysis following completion of the first 12 months of groundwater monitoring (from new groundwater wells being installed this month). This interim report will provide an assessment of facility improvements needed to meet the final compliance requirements within the allotted timeline. The schedule for this deliverable will be expedited, as appropriate, to aid the facility planning effort proposed herein.

No fee is included herein for Task 4.4 as these efforts are already contracted separately.

#### 4.5 Evaluation of Alternatives for Near-Term Regulatory Requirements and Capacity Improvements

The State Water Resources Control Board continues to successfully push surface water dischargers towards advanced nitrogen removal within the treatment process and tertiary filtration of treated flow prior to discharge. Both concepts were discussed on a conceptual basis between the RWQCB and the City during the last two NPDES permit renewal negotiations and are likely to be required within the next decade as the Sacramento River's role in addressing California's water issues continues to increase. As such, it is prudent for the City to start to plan for associated financial impacts related to these requirements in the near-term.

Additionally, an updated evaluation of capacity improvement alternatives is needed to consider the results from the capacity assessment efforts described herein, expected nitrogen removal requirements mentioned in the previous paragraph, and aging disinfection facilities that are undersized for the buildout condition. This evaluation will include the following subtasks.

##### 4.5.1 Evaluation of Treatment Trains for Buildout Capacity

Evaluate applicable treatment technologies for achieving ultimate buildout capacity based on the updated existing capacity assessment and new treatment options available since the last facility planning effort. Up to three different secondary treatment process train alternatives will be considered for evaluation. Consideration will be given to effluent nitrogen limitations and future permit requirements.

This task will also include an evaluation of the feasibility/cost of upgrading the sodium hypochlorite disinfection systems versus the feasibility of effluent disinfection using UV, ozone, and/or other technologies.

Alternatives will be developed to a level sufficient to verify space requirements and establish order-of-magnitude costs.



#### 4.5.2 Evaluation of Options for Tertiary Filtration/Reuse

Evaluate and provide technology and cost comparisons for up to three tertiary treatment options. Alternatives will be developed to a level sufficient to verify site space requirements and establish order-of-magnitude costs.

#### 4.5.3 Preparation of Planning Level Cost Estimates

Prepare planning level capital, operations, and maintenance cost estimates for the alternatives identified in Task 4.5. Present worth analysis will be used to compare costs for the viable alternatives.

#### 4.6 Conduct Long Range Regulatory Scenario Planning

The current facility plan, as well as its predecessor, relied on addressing regulatory requirements that were either in effect or were to take effect within the near term. We understand that the City is interested in identifying possible treatment alternatives necessary to manage long-range regulatory objectives, including, but not limited to, a mandate to integrate water recycling, nutrient limits, micropollutants, and other potential constituents of concern. While Tasks 4.4 and 4.5 focus on immediate and near-term objectives, this task will serve as a long-term vision to reserve the needed footprint within the WPCP site to address future challenges as they might arise. This task includes the following efforts:

- Identification of long-range regulatory objectives of the RWQCB.
- Development of possible treatment alternatives to address the identified regulatory objectives.
- Determination of the footprint requirements for each treatment alternative.
- Preparation of preliminary figures identifying potential locations for the treatment alternatives.

Findings of these efforts will be summarized in a related chapter in the Strategic Planning Report.

Costs for the various treatment alternatives will not be developed as part of this task as the timeframe for implementation of any of the alternatives is undefined. Costs for the various treatment alternatives should be evaluated once a timeframe for implementation is known.

#### 4.7 Develop Recommendations of Proposed Projects

The Strategic Planning Report will develop a recommended CIP based on the preferred alternatives. The final document will include recommendation of a phased approach to treatment improvements throughout the planning period and will identify potential key decision points and response strategies to address alternative regulatory requirements.

All CIP items will be prioritized and tabulated, with costs, into a comprehensive

implementation plan. Planning level layout figures illustrating the phasing of unit process additions will be included.

#### 4.8 WPCP Strategic Planning Report

Summarize the results of the above tasks into one final document with an executivesummary. Consultant will perform the following subtasks:

- Prepare a draft outline of the final report and review draft with the City's personnel.
- Prepare the Draft WPCP Strategic Planning Report.
- Incorporate the City's review comments and prepare a Final WPCP Strategic Planning Report consisting of an executive summary and an appendix that contains relevant project information.

#### Task 4 Deliverables:

- *Draft WPCP Strategic Planning Report (electronic).*
- *Final WPCP Strategic Planning Report (electronic and 5 printed copies).*

#### TASK 5: WPCP STAFFING NEEDS TECHNICAL MEMORANDUM

The City has not had a WPCP staffing evaluation conducted in approximately 20 years. In that time, the capacity of the WPCP has doubled. Certain improvements at the WPCP during that timeframe, such as implementation of a plant-wide SCADA system, have reduced operations tasks; however, increasing regulatory requirements coupled with maintenance of more sophisticated treatment and control systems have increased the workload upon WPCP staff. The City will benefit from an evaluation to determine appropriate headcount and qualifications of staffing for the WPCP.

Consultant will utilize our senior operations consulting staff for the following efforts:

- Evaluate WPCP staffing requirements and impacts associated with new systems and processes that have been implemented since the last evaluation, as well as futuresystems identified to be implemented based on the results of the planning effort.
- Gain a complete understanding of the WPCP's existing maintenance and operations staffing models and explain the fundamental differences and changes that will berequired to support the new systems and processes.
- Identify opportunities for staffing efficiencies and reduced workloads on staff.
- Develop staffing plans for each five-year increment that are scheduled in such way that they are ready to be implemented at the completion of each major phase.

The findings of the staffing evaluation will be summarized in a WPCP Staffing Evaluation Technical Memorandum (TM), submitted in draft form for City review and in final form afterincorporation of City comments.

Task 5 Deliverables:

- *Draft WPCP Staffing Evaluation TM (electronic).*
- *Final WPCP Staffing Evaluation TM (electronic and 5 printed copies).*

**TASK 6: CITY AND RATE STUDY CONSULTANT COORDINATION**

Consultant will coordinate with the City and the City's rate study consultant during completion of the rate study effort. The fee associated with this scope item assumes allowance of engineering time to answer questions, attend meetings, and/or conduct additional analysis (as needed) in support of the rate study consultant's completion of the overall effort. For budgeting purposes, 40 hours is included for this task item, which will be billed on an as-needed basis.

**TASK 7: UPDATED FLOW AND LOAD ANALYSIS**

**Updated flow and load projections for the City's current population shall create the most useful baseline for understanding the overall impact of additional wastewater input over time.**

**7.1 Flow and Loading Analysis**

**Updated flow and load analysis projections shall be used in the development of treatment system design criteria and sizing to meet buildout needs, with and without Paradise flows. This effort includes the following subtasks.**

**7.1.1 Data Review/Information Needs**

**Consultant shall compile City data collected since the last facility planning update and shall review data projections for Paradise flow (prepared by Paradise or their hired consultant). Following the review of data/information provided by the City and Paradise, Consultant shall prepare an information/data needs request. The information request shall include any missing flow and loading data (BOD, TSS, and ammonia nitrogen) and/or Paradise projections, as well as any available priority pollutant data for either entity.**

**7.1.2 Updated Evaluation of Current WPCP Loading**

**With data compiled in the previous task, Consultant shall update the calculations from the most recent facility planning effort for current flow and loadings for BOD, TSS, ammonia nitrogen, appropriate WPCP peaking factors, as well as total solids at the WPCP (dry tons per day) for screenings and sludge.**

### **7.1.3 Projection of Future WPCP Loading**

**This task shall include an updated evaluation to project future loadings from the following sources:**

- **Increased City flow/loading due to:**
  - **Population growth (in accordance with the 2030 General Plan).**
  - **Projected growth in the commercial and/or industrial sector.**
  - **Projected future waste loads due to the connections from the currently unsewered population within the City's service boundary.**
  
- **Additional flow/loading due to possible future connection with Paradise.**

**Consultant shall update the recent flow and load analysis for influent flows to the WPCP, and shall prepare annual projection plots of average dry weather flow (ADWF), annual average flow (AAF), maximum monthly flow (MMF), maximum weekly flow (MWF), and peak flow (PF).**

**Using flow and load projections for anticipated wastewater flows from Paradise, Consultant shall prepare separate plots of all inflow projections for the WPCP, assuming the addition of Paradise flows starting in the year 2025.**

### **7.2 Updated WPCP Hydraulic Capacity Evaluation**

**Consultant shall update the most recent hydraulic modeling for the WPCP to reflect current conditions and potential hydraulic limitations based on information developed in the tasks above. This hydraulic evaluation shall include all subsystems impacting the plant hydraulics (internal recirculation systems, etc.), providing the following findings for use in this effort:**

- **Updated determination of location(s) of existing and future flow restrictions, and recommendations for corrective measures to address these flow restrictions.**
- **Identification of any new process flow element recommendations resulting from the alternative analysis.**

## **TASK 8 – PROCESS MODELING OF FUTURE FACILITIES**

**An updated process model shall be useful in determining whether possible capacity adjustments may be appropriate and shall also serve as a basis for modeling alternative treatment trains for future capacity and treatment needs, with and without Paradise flows. For this task, Consultant shall use the recent BioWin facility model to identify process deficiencies for the various influent flow and load scenarios identified in Task 7.**

## **TASK 9 – EVALUATION OF ALTERNATIVES FOR REGULATORY REQUIREMENTS AND CAPACITY IMPROVEMENTS**

Consultant prepared an alternatives analysis for capacity improvements determined necessary due to flow and load projections relative to the system's treatment and hydraulic capacity, and for projected regulatory requirements related to tertiary filtration and alternative disinfection. This alternatives analysis shall be updated as follows.

#### **9.1 Re-evaluation of Treatment Trains for Buildout Capacity**

Consultant shall update the previously prepared evaluation of applicable treatment technologies for achieving ultimate buildout capacity based on the updated capacity assessment, newly calculated City needs, and anticipated Paradise needs. In this updated analysis, consideration shall again be given to effluent nitrogen limitations and future permit requirements.

Alternatives shall be developed to a level sufficient to verify space requirements and establish order-of-magnitude costs for the (1) City-only and (2) City-plus-Paradise scenarios.

A timeline for improvements shall be prepared to inform the City regarding the projected timeline in which upgrades shall be required if Paradise connects to the City's wastewater treatment system.

#### **9.2 Preparation of Planning Level Cost Estimates**

Consultant shall update planning level capital, operations, and maintenance cost estimates prepared for the City-only alternatives identified in Task 9.1 and shall prepare new estimates for the City-plus-Paradise scenario explored in Task 9.1.

### **TASK 10 – MODIFIED WPCP FACILITY PLANNING REPORT**

Consultant shall prepare a Modified WPCP Facility Planning Report summarizing the results of Tasks 1 and 7-9.

#### **10.1 Draft Modified WPCP Facility Planning Report.**

A draft version of the modified WPCP facility planning report shall be submitted for review/approval by City management and Paradise team members.

#### **10.2 Modified WPCP Facility Planning Report Review Workshop**

Following submittal of the draft report, Consultant shall organize a WPCP Modified Facility Planning Report Review Workshop, where report findings shall be presented to all project participants, and feedback shall be collected for incorporation into a final version of the report.

### **10.3 Final Modified WPCP Facility Planning Report**

Consultant shall incorporate comments received from the City and Paradise and prepare a Final Modified WPCP Facility Planning Report.

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#### **Task 10 Deliverables:**

- *Draft WPCP Modified Facility Planning Report*
- *Workshop notes*
- *Final WPCP Modified Facility Planning Report*

### **TASK 11 – ENGINEERING ASSISTANCE WITH CITY CONNECTION FEE CALCULATIONS**

Consultant shall provide technical assistance with connection fee calculations completed by the City's rate consultant. The required effort needed to assist with this effort is unknown. As such, an allowance of sixty (60) hours shall be allocated for on-call assistance, as deemed appropriate by the City.

#### **Task 11 Deliverables:**

- *As needed*

### **TASK 12 – PHASE 2 ENGINEERING SUPPORT**

Consultant shall provide Phase 2 engineering support during the Town's completion of the pipeline design and detailing for the Paradise connection at the WPCP. Anticipated tasks include:

- Review of the regional pipeline routing
- Design of Paradise connection at the WPCP
- Review of the Environmental Impact Report

The required effort needed to assist with this effort is unknown. As such, an allowance of one hundred and twenty (120) hours is allotted herein for Phase 2 engineering support, as deemed appropriate by the City.

#### **Task 12 Deliverables:**

- *Design and report review comments*

### **TASK 13 – NEGOTIATIONS SUPPORT**

Consultant shall provide engineering support during the City's negotiation of the additional connection fee with the Town of Paradise. This shall include the estimation of necessary additional operations and maintenance efforts as required to treat the additional flow received from Paradise, along with capital needs for increased capacity to meet

projected flows. The required effort needed to assist with these tasks is currently unknown. As such, an allowance of eighty (80) hours is allotted herein for negotiations support, as deemed appropriate by the City.

**Task 13 Deliverables:**

- *As needed*

**Exclusions/Assumptions**

In addition to those included for individual task items, the following exclusions/assumptions have been used in the development of this Scope of Services:

- Inspection of underground/buried piping is excluded from this scope of work.
- Destructive materials and corrosion testing services are excluded from this scope of work.
- Feasibility analysis for alternate disposal options for solids produced at the WPCP.
- Results of WPCP stress testing are not anticipated to be available before the completion of the process modeling subtask. If the results of the stress testing appear favorable for an increased capacity rating for the existing facilities, the City can elect to amend the scope of work and extend the schedule to incorporate the results of the stress test. It is anticipated that the facility process modeling will need to be adjusted, requiring additional time and budget.
- **All deliverables shall be submitted in electronic format only, via email.**
- **All progress meetings and workshops shall be conducted via remote meeting format.**
- **Project completion shall occur within the timeline established in the schedule included.**

**Additional Services**

Should additional services be requested by the City, Consultant shall be compensated for these services pursuant to the Hourly Rate Schedule in Exhibit C of this Agreement.

**Services to be Provided by City**

The City will provide Consultant with access to the property as well as any site plans, legal description or other relevant information regarding the properties.

**Completion Schedule**

The Consultant shall complete all services outlined herein ~~within three years of the City's Notice to Proceed~~: **by February 25, 2022.**



**AMENDMENT NO. 1**

**CITY OF CHICO - PROFESSIONAL SERVICES AGREEMENT**

CAROLLO ENGINEERS, INC.

Consultant

STRATEGIC PLANNING AND SEWER RATE REVIEW SUPPORT

Project Title

400-000-8801/50507-000-4800

Budget Account No.

AMENDED

EXHIBIT C

**Amendment No. 1 services (in bold):**

COMPENSATION

Compensation for the services shall be in accordance with the hourly rates provided below in the Hourly Rates Schedule. Total maximum compensation for the services outlined herein shall not exceed ~~\$475,000.00~~ **\$695,000.00**

Compensation shall be based upon actual invoices received and shall be paid in accordance with the completion of each Task as follows:

TASK 1 – PROJECT MANAGEMENT AND PROGRESS MEETINGS	\$16,700.00 <b>\$21,100.00</b>
TASK 2 – CONDUCT CONDITION ASSESSMENT OF WPCP FACILITIES	\$54,000.00
TASK 3 – DEVELOP REPAIR, REHABILITATION OR REPLACEMENT ALTERNATIVES	\$17,400.00
TASK 4 – WPCP STRATEGIC PLANNING	\$192,400.00
TASK 5 – WPCP STAFFING NEEDS TECHNICAL MEMORANDUM	\$34,800.00
TASK 6 – CITY AND RATE STUDY CONSULTANT COORDINATION	\$10,300.00

<b>TASK 7 – UPDATED FLOW AND LOAD ANALYSIS</b>	<b>\$23,700.00</b>
<b>TASK 8 – PROCESS MODELING OF FUTURE FACILITIES</b>	<b>\$22,100.00</b>
<b>TASK 9 – EVAL. OF ALTERNATIVES FOR REGULATORY REQUIREMENTS AND CAPACITY IMPROVEMENTS</b>	<b>\$36,700.00</b>
<b>TASK 10 – MODIFIED WPCP FACILITY PLANNING REPORT</b>	<b>\$41,800.00</b>
<b>TASK 11 – ENGINEERING ASSISTANCE WITH CITY CONNECTION FEE CALCULATIONS</b>	<b>\$16,200.00</b>
<b>TASK 12 – PHASE 2 ENGINEERING SUPPORT</b>	<b>\$34,400.00</b>
<b>TASK 13 – NEGOTIATIONS SUPPORT</b>	<b>\$23,900.00</b>

Consultant's  
Hourly Rate Schedule

Principal in Charge	<del>\$293.00</del> <b>\$298.61</b>
Project Manager	<del>\$250.00</del> <b>\$255.49</b>
Project Engineer	<del>\$211.00</del> <b>\$215.54</b>
Asset Management Lead	\$250.00
Senior Process Engineer	<del>\$270.00</del> <b>\$275.47</b>
Junior Process Engineer	<del>\$173.00</del> <b>\$176.53</b>
Senior Electrical/Instrument Control Engineer	\$270.00
<b>Infrastructure Engineer</b>	<b>\$255.49</b>
<b>Rate Analyst</b>	<b>\$275.47</b>
<b>Modeling</b>	<b>\$275.47</b>
Senior Structural Engineer	\$270.00
Process Modeling Engineer	\$270.00
Operations Specialist	\$250.00
Quality Assurance/Quality Control Engineer	<del>\$293.00</del> <b>\$298.61</b>
CAD	<del>\$156.00</del> <b>\$158.76</b>
Senior Tech Designer	\$174.00
Word Processing Clerk	<del>\$114.00</del> <b>\$116.70</b>

Reimbursable Expenses

Mileage	\$0.54/mile
Printing	\$11.70/hr