



**City Manager's Report**  
**February 9, 2016 City Council Meeting**  
**Prepared By: Rebecca Neves, City Engineer**

**Item#:**

**Subject:** Adopt a Resolution:

1. Approving a Consulting Services Agreement with REY Engineers, Inc. in an amount not to exceed \$263,060 for the Pardi Way/Big Cut Road/Sacramento Street/Chamberlain Street/Gilmore Street Waterline Replacement Project (CIP #41109) and authorizing the City Manager to execute the same; and
2. Authorizing staff to release contract documents for public bidding of the Pardi Way/Big Cut Road/Sacramento Street/Chamberlain Street/Gilmore Street Waterline Replacement Project (CIP #41109).

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**Background:**

The City's 2010/2011 Capital Improvement Program included the Pardi Way/Big Cut Road/Sacramento Street/Chamberlain Street/Gilmore Street Waterline Replacement Project (CIP #41109). Design work was partially funded through a cost sharing agreement with the El Dorado County Water Agency (EDCWA) and commenced on the project to the 90% stage by early 2012. In 2014 and 2015, the City applied for and was successful in obtaining funding for the project through the State Department of Water Resources (DWR) Proposition 84, Rounds 1 and 2. The corresponding Local Project Sponsor Agreements, along with a consultant contract and contract amendment with Domenichelli and Associates (D&A) were approved by Council at the regularly scheduled meetings on February 24, 2015 and October 13, 2015, allowing the project design to be completed.

**Background:**

Development of Plans, Specifications, and Estimate (PS&E) of the project has progressed and contract bid documents are now ready to be released for public bidding. The construction estimate for the project is \$1,743,000. Actual cost of construction will be identified upon receipt of construction bids. At the time of the Council's award of the construction contract, an additional budget appropriation for the City's local match towards the DWR Grant will be sought.

Due to the project size, complexities, proximity on State Route 49, and grant documentation requirements, City staff determined the project's construction management requirements exceed the available resources of City Engineering Staff. The project will require a full-time inspector and a part time Resident Engineer. The project funding does include budget for hiring a Construction Management (CM) firm to perform those duties.

With the determination of staff's recommended On-call List for Construction Management and Inspections, a scope and fee for the CM of this project was requested from REY Engineers, Inc. REY has provided similar services for the City, including CM for the Main Street Phase 1A

Waterline Replacement Project, and will already be providing CM services for the Main Street Phase 2 Pavement Rehabilitation Project, allowing for efficiencies in inspection and construction management services. REY's proposal included a detailed scope and negotiated fee amounting to \$263,060 for Construction Management, Inspection, and Staking Services, which is within the funded amount for the project. Staff is recommending executing a contract with REY Engineers, Inc. for this not to exceed amount.

**Budget Impacts:**

At its meeting held on January 25, 2011, the City Council appropriated \$90,000 for the Pardi Lane/Big Cut Road/Sacramento Street Waterline Replacement project (CIP #41109). At its meeting held on February 24, 2015, the City Council appropriated an additional \$1,375,000. An additional \$743,351 was appropriated by the City Council at its meeting held on October 13, 2015, for a total project budget of \$2,208,351.

To date, the project has encumbered the following costs:

REY Engineers, Inc. (Proposed CM Agreement)	\$ 263,060
Psomas	96,264
Domenichelli & Associates (Original Agreement)	71,190
Domenichelli & Associates (Amendment No. 1)	34,790
B&B Locating	500
El Dorado County Recorder-Clerk	50
The Sierra Fund	6,395
Engineering Staff	23,626
<b>Total</b>	<b><u><u>\$ 495,875</u></u></b>

As you can see, the \$495,875 in total project encumbrances, including the proposed \$263,060 REY Engineers, Inc. Construction Management Agreement, is well within the \$2,208,351 total project budget.

To date, \$425,000 has been appropriated in Measure H funds to support the project local match component, leaving \$192,999 in additional appropriations that will be needed to fulfill the grant requirement. Once the construction bids have been received, staff will return to the City Council with budget recommendations for the remaining local match and award of the construction contract.

**Options:**

1. Proceed as recommended.
2. Do Nothing - The City would lose the DWR Grant and would likely not be allowed to receive the additional DWR funding described above. This approach is counter to prior resolutions with regards to this project as adopted by the City Council.

**Recommendation:**

Adopt a Resolution:

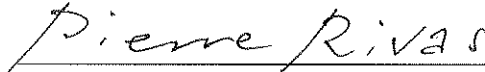
1. Approving a Consulting Services Agreement with REY Engineers, Inc. in an amount not to exceed \$263,060 for the Pardi Way/Big Cut Road/Sacramento Street/Chamberlain

Street/Gilmore Street Waterline Replacement Project (CIP #41109) and authorizing the City Manager to execute the same; and

2. Authorizing staff to release contract documents for public bidding of the Pardi Way/Big Cut Road/Sacramento Street/Chamberlain Street/Gilmore Street Waterline Replacement Project (CIP #41109).



Rebecca Neves, City Engineer



Pierre Rivas, Development Services Director



M. Cleve Morris, City Manager

Attachments:

1. Resolution
2. REY Engineers, Inc. Proposed Scope and Fee

RESOLUTION NO. \_\_\_\_\_

**A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF PLACERVILLE  
APPROVING A CONSULTING SERVICES AGREEMENT WITH REY ENGINEERS,  
INC. IN AN AMOUNT NOT TO EXCEED \$263,060 FOR CONSTRUCTION  
MANAGEMENT SERVICES FOR THE PARDI WAY/BIG CUT  
ROAD/SACRAMENTO STREET/CHAMBERLAIN STREET/GILMORE STREET  
WATERLINE REPLACEMENT PROJECT; AND AUTHORIZING STAFF TO  
RELEASE THE CONTRACT DOCUMENTS FOR PUBLIC BIDDING FOR THE  
PROJECT**

**WHEREAS**, the Pardi Way/Big Cut Road/Sacramento Street Area Waterline Replacement Project (CIP #41109) is a project to reroute and replace old and undersized pipelines in that area; and

**WHEREAS**, in 2011 the City entered into a cost sharing agreement with the El Dorado County Water Agency (EDCWA) to develop plans for the project and completed said plans through the 90% stage in order to have them in a state of readiness for future funding opportunities; and

**WHEREAS**, the City worked with the Cosumnes, American, Bear and Yuba Rivers Planning Group (CABY), adopted the Integrated Regional Water Management Plan (IRWMP), and participated in the preparation of a regional application for Proposition 84, Round 2 grant funds to fund CABY supported projects, including the Pardi Way/Big Cut Road/Sacramento Street Area Waterline Replacement Project; and

**WHEREAS**, the Department of Water Resources (DWR) has awarded additional grant funds to CABY, which funds will be administered by Nevada Irrigation District (NID), which includes grant funding to the City in the amount of \$743,351 towards the Pardi Way/Big Cut Road/Sacramento Street Area Waterline Replacement Project ; and

**WHEREAS**, NID has now entered into an agreement with DWR, and has prepared a standard agreement for execution between itself and each of the project sponsors which establishes the terms and conditions for receipt of the grant funding by the sponsors, including the City; and

**WHEREAS**, Domenichelli and Associates (D&A) was awarded a contract for consulting engineering services to finalize the plans and contract documents, assist the City in obtaining necessary permits, assist the City in determining details and preparing right-of-way documents for relocation of several water services, and provide assistance during the bidding process; and

**WHEREAS**, D&A has the necessary qualifications, expertise, and project understanding to complete the work for the additional segments on Chamberlain Street and Sacramento Street of said project following receipt of additional funding; and

**WHEREAS**, the City currently has contributed \$103,209 towards the project in its development of the 90% plans and appropriated \$425,000 from the Measure H fund to the project; and

**WHEREAS**, the City executed a Consulting Services Agreement Amendment No. 1 with D&A in an amount not to exceed \$34,790 for design engineering services for the Pardi/Big Cut/Sacramento Street Area Waterline Replacement Project - Waterline Replacement on Chamberlain Street and Sacramento Street (CIP #41109), approved the Local Project Sponsor Agreement with Nevada Irrigation District (NID) and approved a \$743,351 budget appropriation from the State Water Conservation Grant for the said project.

**NOW THEREFORE, BE IT RESOLVED**, that the City Council of the City of Placerville does hereby:

1. Approve a Consulting Services Agreement with REY Engineers, Inc. in an amount not to exceed \$263,060 for the Pardi Way/Big Cut Road/Sacramento Street/Chamberlain Street/Gilmore Street Waterline Replacement Project (CIP #41109) and authorizing the City Manager to execute the same; and
2. Authorize staff to release contract documents for public bidding of the Pardi Way/Big Cut Road/Sacramento Street/Chamberlain Street/Gilmore Street Waterline Replacement Project (CIP #41109).

The foregoing Resolution was introduced at a regular meeting of the City Council of the City of Placerville held on February 9, 2016, by Councilmember \_\_\_\_\_ who moved its adoption. The motion was seconded by Councilmember \_\_\_\_\_. The motion was passed by the following vote:

**AYES:**

**NOES:**

**ABSENT:**

**ABSTAIN:**

ATTEST: \_\_\_\_\_  
Kelly Witt, City Clerk

\_\_\_\_\_  
Mayor, Trisha Wilkins



## PROJECT BACKGROUND:

The Pardi/Big Cut/Sacramento St Waterline Replacement Project (Project) is a State funded project and includes five separate waterline segments that will be replaced (Lines A & AA, Line B, Line C, Line D, and Line E). The Project is scheduled to be constructed in the summer of 2016 and last 90 working days. This scope and fee is based upon plans, specifications, and estimate provided by the City on January 28<sup>th</sup>, 2016.

## I. SEISMIC REFRACTION ANALYSIS (Fee: \$10,000)

### Seismic Refraction Study

R.E.Y.'s sub consultant, WRECO, will coordinate field seismic refraction testing and analysis in order to provide an interpretation of the relative excavation characteristics of the subsurface materials along the planned waterline trench sections. The seismic refraction study will attempt to distinguish between materials that can be excavated by conventional heavy hydraulic construction equipment and material that will require rock excavation equipment (e.g. hydraulic hoe-ram). The study will compare the in situ seismic velocities of the subsurface materials to the values in Caterpillar Handbook of Ripping (current edition) to estimate the percentage of non-rippable material that may be encountered during the trench excavations. The field program will consist of up to two (2) days of seismic refraction testing.

## II. CONSTRUCTABILITY REVIEW (Fee: \$3,060)

### Constructability Review

R.E.Y. and its sub consultant, WRECO, will review and comment on the 100% Plan, Specifications, and Estimate. The review will focus on the constructability of the proposed improvements and provide input on revisions to the specifications that may benefit the City during construction. The unit prices in the estimate will be reviewed against recent construction bids in the area.

## III. POTHOLE SURVEYS (Fee: \$6,500)

### Pothole Surveys

R.E.Y. will perform pothole surveys where reference points placed by the pothole contractor will be located based on the project control and a spreadsheet of the point coordinates will be provided in PNEZD format. The surveys will be performed as the potholing is completed for each segment and a maximum of five move-ins are included.

## IV. CONSTRUCTION STAKING (Fee: \$25,000)

### Assumptions:

- Primary project control will be provided by the City
- Only one set of stakes will be provided for each item noted below
- Staking will be performed within two working days of a request
- R.E.Y. Engineers will be provided with digital AutoCAD files for calculation and staking purposes
- One Kickoff Meeting

### Project Coordination

All reports and submittals will be stamped and signed by a California State Licensed Land Surveyor. R.E.Y. to provide copies of the survey notes (cutsheets, point plots, slope stake listings, etc.) to the



contractor at the end of each task. The City will provide project control to R.E.Y. and R.E.Y. will verify and densify the control as necessary prior to construction staking.

#### **Waterline and Appurtenances Staking**

Offset reference stakes will be set at approximate 50 foot intervals, at noted storm drain and sewer crossings and at angle points for the items listed below. Line stakes will be set to accompany the offset stakes as appropriate. Where multiple pipes share the same trench, one set of offset stakes will be set referencing the center of the larger pipe:

- Main lines
- Points of connection
- Hydrants
- ARV's
- New Services

#### **Sewer Staking**

Offset stakes with an accompanying line stake will be set for the new sewer services.

#### **Design Revision Construction Staking**

R.E.Y. will provide additional construction staking per the water and sewer staking guidelines listed above as a result of design/plan set changes.

#### **Exclusions:**

- Boundary Surveys
- Quantity / Design / As-Built Surveys
- Construction Easements
- Traffic Control
- Standby
- Re-Staking

## **V. CONSTRUCTION MANAGEMENT, INSPECTION, AND MATERIALS TESTING (Fee: \$218,500)**

#### **Assumptions:**

- City to prepare majority of reports required by funding source
- Minimal claims management

#### **Contract Administration**

R.E.Y. will work on behalf of the City to administer the construction contract. The anticipated construction management tasks include:

- Coordinate and administer project kickoff meeting, preconstruction meeting, and weekly meetings during construction
- Review contractor submittals and RFI's
  - Coordinate construction document revisions and change orders with Design Engineer (prepared by others)
- Review and respond to extra work bills
- Track working days and contract time



- Support the City with reports required by the funding source including providing photos, assisting with annual reports, etc.
- Manage progress payments
- Ensure labor compliance
- Quality assurance
- Prepare and maintain project construction binder
- Coordinate project acceptance and record drawings (prepared by others)
- Furnish project files and records to City upon completion of project

### **Construction Inspection**

R.E.Y. will provide a full-time inspector to observe construction activities. The inspector will prepare Daily Reports, observe and photograph construction activities, and track quantities. The inspector will not direct the contractor on which means and methods to use during construction; instead, he/she will monitor compliance with the construction documents (plans and specifications). The inspector will also ensure that only appropriate, approved materials are on site and being used during construction. In addition, the inspector will mark up and keep an up to date set of plans onsite indicating any deviations from design drawings. These drawings will be turned over to the Engineer at the end of the project to assist in the record drawing process.

### **Materials Inspection**

R.E.Y.'s sub consultant, WRECO, will provide periodic materials inspections on an as-needed basis. Based on the project plans and specifications, the anticipated materials inspection tasks include:

- Verification of trench subgrade conditions and rock excavation
- Field nuclear density testing of trench backfill materials, aggregate base and asphalt concrete
- Field testing of CLSM and preparation of CLSM cylinder molds for trench backfill material
- Field concrete testing and preparation of concrete cylinder molds for miscellaneous concrete structures

### **Materials Testing**

R.E.Y.'s sub consultant, WRECO, will provide materials testing in accordance with the project plans and specifications. The anticipated materials testing services include:

- Trench bedding material: compaction, material conformance
- Trench backfill: compaction, material conformance
- Aggregate base: compaction, material conformance
- Asphalt concrete: material conformance, density, and asphalt content
- Controlled low strength material (CLSM): material conformance and compression testing
- Portland cement concrete: material conformance, compression testing

### **Exclusions:**

- Extended claims management
- Construction inspection during a private service line failure
- Construction document revisions
- Record drawings
- Structural inspections
- Electrical inspections