



AGENCY: City Council
MEETING DATE: February 10, 2020
DEPARTMENT: Public Works
PRESENTED BY: T. Varga
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AGENDA ITEM SUMMARY

TITLE:

Receive Report Regarding Request for Proposals (RFP) Scope of Work for Pudding Creek Water Main Relocation Project

ISSUE:

A Request For Proposals (RFP) to design the Pudding Creek Water Main Relocation Project has been prepared. The objective of this project is to relocate approximately 1000 feet of a 10-inch water main which currently crosses Pudding Creek on a dam owned by Georgia Pacific (GP) to the nearby State Route 1 Bridge over Pudding Creek owned by the California Department of Transportation (Caltrans). The draft RFP is included for reference (Attachment 1).

ANALYSIS:

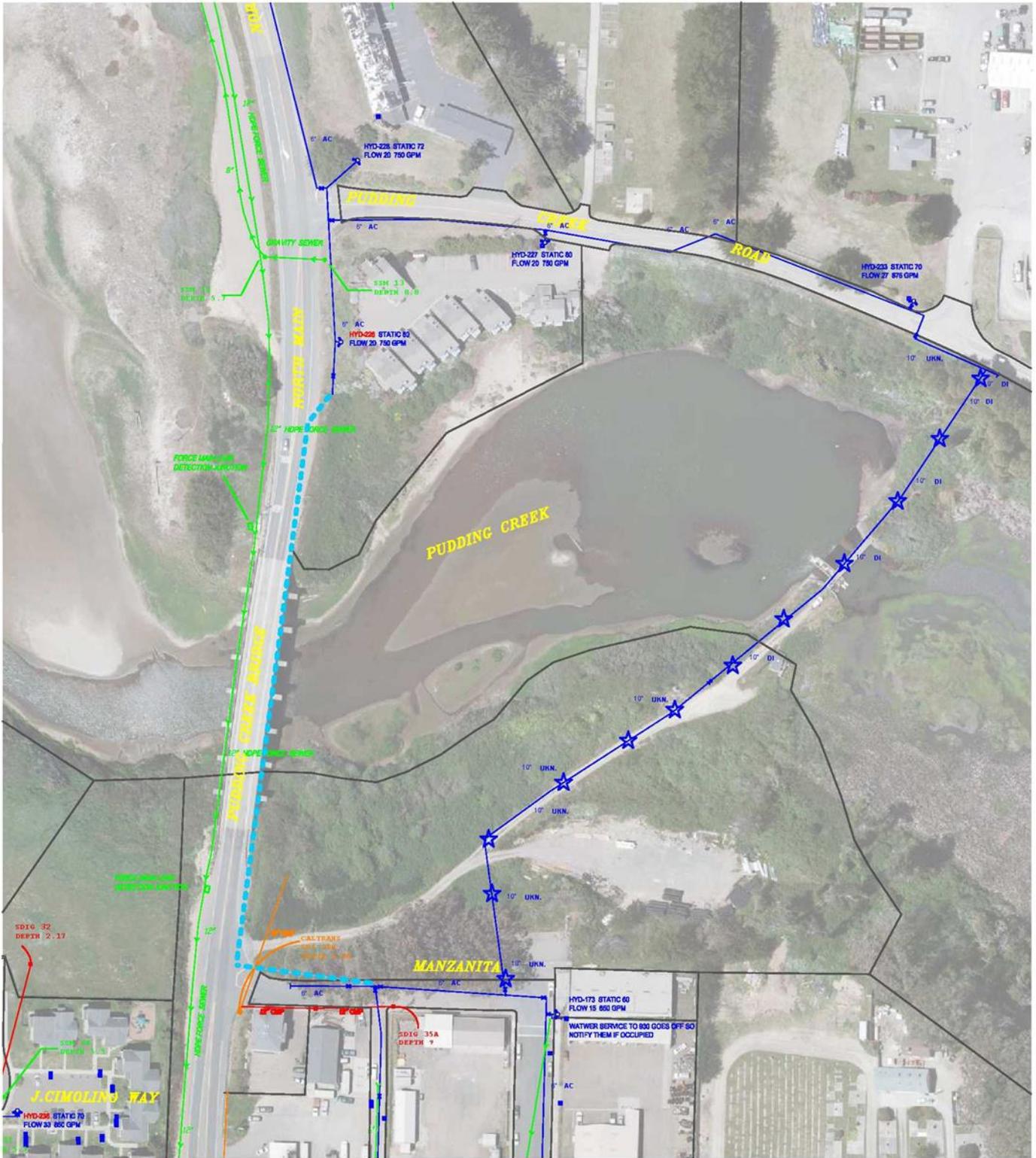
Background

The project will relocate approximately 1000 feet of a 10-inch water main currently crossing Pudding Creek on a dam owned by Georgia Pacific (GP) to the nearby State Route 1 bridge. In addition, short, new water main extensions north and south of the bridge will be needed to connect to the existing water system. One connection will be directly to the north to the existing water main in Highway 1 (Main Street). The other on the south will be to the existing main in Manzanita Street approximately 200 feet east of Highway 1 (Main Street).

In December of 2016, the water main partially lost its support when the dam was overtopped during a storm. The dam and the water main lie in the estuary and floodplain of Pudding Creek. The dam has built in 1955 by GP's predecessor, Union Lumber Company, to store water for lumber mill operations in Fort Bragg. This main was placed on the dam in 1984 and serves the health, safety, and fire protection needs of property within the City north of Pudding Creek. Measures were taken by GP and the City to support and armor the damaged areas of the dam and protect the City's main.

Caltrans is preparing to widen the State Route 1 Bridge over Pudding Creek (EA #01-43480) with construction tentatively scheduled to start in 2021. The City is working with Caltrans to incorporate the addition of a sleeve or hangers on the east side of the bridge for the relocation of the City's water main. This addition to the Caltrans portion of the project allows the City to take advantage of the environmental review and permitting process being undertaken for the widening. With the off-bridge work being done in existing streets, remaining environmental review and permitting is expected to be minimal. The proposed water main route is shown in Figure 1.

Figure 1: Pudding Creek Water Main Relocation Project



- Existing Water Line
- - - Proposed Water Line
- ★ Abandon in-place water
- Sewer Main



Timely relocation of the water main is also part of a larger plan to improve water service in Fort Bragg north of Pudding Creek. This is not a capacity increasing project. However, it is important to improve pressure and flow reliability for existing land uses as well as future development in north Fort Bragg. This includes the proposed Avalon Hotel and potential industrial development in the area.

Summary Scope of Work

1. Evaluation of existing conditions and constraints of the pipeline and appurtenances.
2. Technical analysis (hydraulics, seismic, etc.) of the affected water piping system.
3. Topographic and boundary survey of the project area.
4. Bid documents, including: improvement plans, technical specifications, and engineer's opinion of costs.
5. Coordination with Caltrans and Georgia Pacific.

RECOMMENDED ACTION:

After consideration of this item, it is recommended that Council authorize staff to proceed with the release of the RFP for design services for the Pudding Creek Water Main Relocation Project.

ALTERNATIVE ACTION(S):

Alternatively, Council may direct staff to modify the project scope of work. Council may also choose not to proceed further with the project at this time.

FISCAL IMPACT:

Preliminary Cost Estimate

The total estimated cost for implementing this project is \$1,645,800 as detailed in the following table. The cost of the design/environmental review/permitting portion of this contract is estimated at \$210,000. Design alone, and budget for the RFP, is \$160,000.

Pudding Creek Water Main Relocation Project Cost Estimate	
City Project #	
WTR-00014	
DESCRIPTION	COST
PRE-CONSTRUCTION	
<i>Design and Engineering</i>	<i>\$160,000.00</i>
Permits	\$20,000.00
Environmental Review	\$30,000.00
Subtotal	\$ 210,000.00
CONSTRUCTION	
SWPP	\$25,000.00
Traffic Control	\$35,000.00
Mobilization	\$60,000.00
Surveying/Construction Staking	\$40,000.00
Demolition/Site Preparation	\$50,000.00
Install buried 10-inch water pipe	\$200,000.00
Install 10-inch Water Pipe on Bridge	\$600,000.00
Subtotal	\$1,010,000.00
OTHERS	
Constr. Mgmt. (15% of Constr.)	\$151,500.00
Estimated Project Cost	\$1,371,500.00
Contingency (20% of Proj. Cost)	\$274,300.00
TOTAL BUDGET	\$1,645,800.00

Funding

The City's FY 2019/20 Capital Improvement Program (CIP) budget has an item for the Pudding Creek Water Main Relocation. \$210,000 in design and related expenses were identified for FY 2019/20 and \$1,669,000 in construction and related expenses for FY 2020/21. The total for this CIP item is presently \$1,879,000. This total can be adjusted downward to \$1,645,800. Funding for the entire project in the budget is unidentified.

An Integrated Regional Water Management (IRWM) grant through the North Coast Resource Partnership (NCRP) was applied for in March 2019. The request for funds was subsequently denied. Staff is working with GP and Caltrans to secure additional cost-sharing funding. There are also several grant programs under Proposition 1 that staff will be applying for construction funds. These applications are enhanced by having a design complete that includes a City contribution toward the overall project cost. Furthermore, timely coordination with Caltrans and their Highway 1 bridge widening is helped by starting the design process now.

Therefore, staff recommends moving forward with the design and related tasks now and to use Water Enterprise funds for the \$210,000 expense. If Council concurs, the budget amendment can be made during the mid-year budget review on March 5, 2020.

GREENHOUSE GAS EMISSIONS IMPACT:

The item being considered by the City Council is a proposed scope of work and authorization to proceed with an engineering design contract. By itself, the recommended action will not result in any changes to greenhouse gas emissions. The potential impacts during construction will be addressed in the bid documents and made available for Council's consideration when this project comes back for authorization to construct.

CONSISTENCY:

This project will be consistent with the following policies of the Inland and Coastal General Plans and implement the associated programs by enhancing the safety and reliability of the water system as well as improving the available water pressures.

Policy PF-2.2 Potable Water Capacity: Develop long-term solutions regarding the supply, storage, and distribution of potable water and develop additional supplies.

Program PF-2.2.4: Pursue all available sources of revenue to fund the maintenance and expansion of the City's water system.

Program PF-2.2.8: Improve the pressure in the water system lines to meet State standards.

Policy PF-2.4: Potable Water Quality: Maintain the safety of the water supply.

Program PF-2.4.1: Continue to maintain the water collection, treatment, and distribution system to ensure compliance with all State requirements for a public drinking water system.

IMPLEMENTATION/TIMEFRAMES:

Estimated project schedule:

Start design, environmental review and permitting	Feb. 2020
Environmental review/permits/design complete	Jul. 2020
Start construction (in coordination with Caltrans' bridge widening)	Late 2021
Water main relocation complete	2022

ATTACHMENTS:

1. RFP for Design Services, Pudding Creek Water Main Relocation Project

NOTIFICATION:

1. Avalon Hotel, c/o Ms. Amy Wynn, Wynn Coastal Planning & Biology
2. Caltrans, District 1, Mr. Frank Demling
3. Fire District, Chief Steve Orsi