



AGENCY: Public Works and Facilities Committee
MEETING DATE: August 8, 2018
DEPARTMENT: Public Works
PRESENTED BY: D O'Connor
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AGENDA ITEM SUMMARY

TITLE:

DISCUSS RAW WATER LINE REPLACEMENT PROJECT DESIGN ENGINEERING REQUEST FOR PROPOSALS (RFP) AND RECOMMEND CITY COUNCIL APPROVAL

ISSUE:

The City's Raw Water pipeline is critical to the secure supply of raw water from the City's best quality sources, and the existing pipeline is nearing the end of its service life. Much of this transmission line has been in place for decades, and consists of a mixture of PVC, asbestos concrete, ductile iron and steel pipe. A portion of the existing pipeline is above ground and is supported by a trestle. Flow in the pipeline is gravity-fed throughout its length from two sources to the City water treatment plant at the east end of Cedar Street. The proposed RFP is intended to secure design services for all sections needing replacement.

ANALYSIS:

Replacement of much of the City's raw water transmission pipeline is necessary for reliability. The project design shall include Phases II-V of the raw water line replacement (Figure 1 of RFP). The section of water line from the north side of Highway 20 to the Summers Lane Reservoir was constructed as Phase I in 2013 and will not be a part of this project. The Hare Creek and Noyo River crossings and the section from Waterfall Gulch intake to Road 450 are relatively new and will not need to be replaced. Construction of remaining sections will be phased as shown below:

Phase I - Complete

Phase II - from the Water Treatment Plant to the north side of the Noyo River crossing

Phase III - from the south side of the Noyo River crossing to Summers Lane Reservoir

Phase IV - from the north side of Highway 20 (replacing the current Highway 20 crossing) to the north side of the Hare Creek crossing

Phase V - from the south side of the Hare Creek crossing to the new line along Waterfall Gulch which ends at Road 450

The existing pipeline and new replacements are located in a geologically active area, characterized by steep slopes, shallow ground water, heavy forestation, and a challenging construction environment with areas of sensitive riparian habitat and difficult access. Phases II and III are partially located within the Coastal Zone (Figure 2 of RFP). The City is beginning the Environmental and Coastal Zone permitting process and will provide results of biologic and archeologic studies (under separate RFP to be issued upon appropriate timing for necessary studies) to support the optimal pipe location upon study completion. The City will need to secure a Timber Harvest Plan for the project. The proposals should anticipate providing support of the City throughout the Coastal Development and any other environmental permitting or other related processes. The RFP scope also allows for interested parties to propose additional professional services related to environmental issues and financial assistance that the City would otherwise have to perform in-house.

RECOMMENDED ACTION:

Recommend City Council approval of RFP for Raw Water Replacement Project Design Engineering.

ALTERNATIVE ACTION(S):

No action.

FISCAL IMPACT:

The 2018-2019 Annual Budget Capital Improvement Program has allotted \$400,000 for this task.

CONSISTENCY:

The proposed RFP is consistent with the 2018-2019 Budget and the City's need for design engineering services for the Pipeline Replacement Project.

IMPLEMENTATION/TIMEFRAMES:

The RFP will be released upon Council approval and will provide approximately 30 days for response. It is anticipated that the complexity of the design and planning aspects of this project will take a considerable amount of time and effort. Construction of individual phases will occur over several years.

ATTACHMENTS:

1. RFP for Raw Water Pipeline Replacement Project Design Engineering.

NOTIFICATION:

None