



Riverside Water Quality Control Plant Levee Rehabilitation Project

Public Works Department

Utility Services/Land Use/Energy Development Committee
March 13, 2017

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BACKGROUND

- A. The Riverside Water Quality Control Plant (RWQCP) has been providing wastewater treatment since 1942.
- B. Between 1965 and 1970 flood protection was provided by an earthen dike and partial levee.
- C. Late 1970's and early 1980's a full levee was constructed to protect against the 100-year storm event. The Santa Ana Recreation trail was constructed.



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BACKGROUND

- D. As a result of Hurricane Katrina in 2005, the Federal Emergency Management Agency (FEMA) modified levee design requirements.
- E. In 2011, an engineering analysis was performed on the levee which showed it does not meet the new requirements.
- F. New design requirements were included in the RWQCP permit to operate by the Santa Ana Regional Water Quality Control Board.



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PROPOSED PROJECT

- A. In January 2014, Tetra Tech was retained to assist with the design, project environmental review, permitting and bid specifications.
- B. Levee will be raised from 0 to 6 feet with a varying concrete floodwall height for about 2,050 linear feet.
- C. New asphalt paving for bike path, fencing and perimeter lighting for security of the RWQCP.



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PROPOSED PROJECT

- D. February 22, 2017, Bicycle Advisory Committee review.
- E. March 1, 2017, Transportation Board review.
- F. Permits required; City Construction Permit, California Department of Fish and Game Section 1602 Streambed Alteration Agreement, and Santa Ana Regional Water Quality Control Board State General Permit.
- G. Environmental Initial Study is being prepared by Tetra Tech.



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CONSTRUCTION

- A. Anticipate advertisement for bid in Spring.
- B. Mitigated Negative Declaration and award of a construction contract anticipated in mid-June, 2017.
- C. Project construction cost is estimated to be \$2,861,000.
- D. Project is funded in the Capital Improvement Program Budget for the 2016/2017 fiscal year.
- E. Anticipated constructed period from July to October.



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EXISTING LEVEE WITH BIKE PATH



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LIMITS OF LEVEE CONSTRUCTION



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BIKE PATH DETOUR PLAN



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RECOMMENDATION

That the Utility Services/Land Use/Energy Development Committee receive this update

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