



ADMINISTRATIVE REPORT

TO: PUBLIC WORKS COMMISSION

FROM: GARY HEAP, ENGINEERING MANAGER

PREPARED BY: DEPARTMENT OF PUBLIC WORKS

MEETING DATE: APRIL 13, 2016 – Regular meeting starts at 7:30 pm

SUBJECT: SUMMARY OF CURRENT CAPITAL IMPROVEMENT PROJECTS

RECOMMENDATION

Receive an update from Public Works staff on the status of a variety of City Capital Improvement Projects.

CIP OVERVIEW

The Public Works Engineering Division is comprised of two distinct sections; the Clean Water Program and Engineering. This update focuses on the significant projects under current management of the Public Works Engineering Section.

Grade Separation Project

This project includes construction to realign the railroad tracks to grade separate 25th Avenue, roadway connections for 28th and 31st Avenues, and relocating the Hillsdale Caltrain Station platform. The project is in the process of obtaining environmental clearance and proceeding with design work. In February, the designer submitted the 60% design drawings for review. This project will relocate the station platform northward between 28th Ave. and 31st Ave. The new platform, will be constructed with the project. The project has an estimated construction cost of \$180M. The City is working with High Speed Rail and the Transit Authority to finalize funding for the project. It is anticipated that design work will be complete in the next three months. Construction is expected to begin in 2017.

Hillsdale Transit Station Capital Plan

The adopted Hillsdale Station Area Plan was adopted by the City Council in April 2011. The Plan recommends the current Michael's property on El Camino Real as the future site for a multi-modal transit station to support the Hillsdale Caltrain platform that will be relocated during

construction of the Grade Separation project. The City, working in conjunction with Caltrain, has begun the planning effort to develop a Capital Plan for the improvements to support the station platform. This process will take 12 to 18 months to complete. Funding for this project, currently estimated at \$70M, has not been identified. The City anticipates pursuing grant funding to complete the project. Construction of the project will closely follow or coincide with the Grade Separation project due to the Hillsdale Caltrain Station operational needs.

SR92/HWY82 Interchange Reconstruction

This project includes reconstruction of the interchange to convert the existing layout from a full cloverleaf configuration to a partial-cloverleaf design with two new signalized intersections. The project will also include Class II bicycle lanes along El Camino Real in the vicinity of the interchange. Design is anticipated to be completed in March 2016. Construction, pending funding approval, is anticipated to begin in summer 2016 and be completed in summer 2017. The project construction cost is estimated at \$18 million.

Poplar Corridor Safety Improvements

This project will design and construct a median island on Poplar Avenue from Amphlett Boulevard through the Idaho Street intersection. It will also construct traffic calming improvements along Humboldt Street from Peninsula Avenue to East Poplar Avenue. Public Works has received the Caltrans encroachment permit for the Amphlett/US101 ramp work. The project is tentatively scheduled to be advertised in March 2016, with construction starting in May. The project construction cost is estimated at \$1,418,000 which consists of a \$1,143,000 base bid and a \$275,000 bid alternate for pedestrian lighting and an emergency vehicle preemption system.

South Bound US-101 Ramps at Peninsula

This project will create a single, full access interchange at US 101/Peninsula Avenue. This will result in an improvement to the safety and traffic operations by providing both northbound and southbound access to Peninsula Avenue from US101, and will result in the closure of the US101/Poplar ramps. Staff recently submitted the Memorandum of Understanding, project scope and schedule to the Transit Authority for the Project Approval and Environmental Document (PA&ED). This environmental phase of the project should begin this summer. Once complete, the project will be brought to the City Council for review.

20th & El Camino Right Turn Lane

Design and construct a continuation of the right-turn lane on southbound El Camino Real at 20th Avenue in order to increase capacity at the intersection by providing a dedicated turn lane for the heavy right-turn movement. The initial phase of the southbound right-turn lane was constructed with the adjacent development a number of years ago. This improvement coincides with the redevelopment of the former Shell Station. Currently, this project is in design. Construction is estimated to begin this summer pending the issuance of a Caltrans encroachment permit and coordination with the drive-through coffee project on the adjacent corner property. The project construction cost is estimated at \$350,000.

Caltrain San Mateo Bridges Replacement

Caltrain, in cooperation with the City of San Mateo, is replacing the four 100-year-old rail bridges located at Tilton, Monte Diablo, Santa Inez, and Poplar Avenues, which no longer meet current seismic safety standards. The Tilton, Monte Diablo, and Santa Inez rail bridges have been replaced, with the Poplar rail bridge to follow in April. Once the new bridges are in place, the streets within the immediate bridge construction zones will be repaved. The project is expected to be complete by October 2016.

25th Ave Electric Underground & Streetscape

Convert the overhead electrical wires to underground and construct streetscape improvements on 25th Avenue between Hacienda Street and El Camino Real. Streetscape improvements include street trees, green infrastructure improvements, mid-block crosswalk enhancements, pedestrian scale street lights and resurfacing of the roadway. PG&E is the lead agency for the electrical undergrounding portion of the project and will continue to work on construction plans. Public Works engineers conducted an outreach meeting to received input from business owners along 25th on needed streetscape improvements. This feedback has been incorporated into the design of the streetscape project. The PG&E electrical undergrounding portion of the project is anticipated to start in March 2016 and be completed in winter 2016. The construction cost to underground the wires is estimated at \$4 million, and it is funded through Rule 20A funds. Construction of the streetscape project is anticipated to begin in summer 2016 and be completed in winter 2016. The streetscape project construction cost is estimated at \$1.8 million

LED Light Conversion

The City received \$3 million of low interest energy loans from the California Energy Commission (CEC) to upgrade the City's street light system with energy efficient LED street lights. Phase I is schedule to be award to Siemens, in the amount of \$1.4 million. The design for Phase II is complete and the project is currently being advertised. Phase I of the project consist of converting approximately 3,898 existing high pressure sodium (HPS) cobra head street lights to a light emitting diode (LED) source. Phase II consist of converting approximately 1,035 high intensity discharge decorative streetlights to an LED source. When completed, the City is expected to see energy savings of 45% and 55% from Phase I and II, respectively.

Safe Routes to School

The City received an ATP grant for \$2.1 million dollars for pedestrian and bicycle safety improvements around the fifteen San Mateo elementary and middle schools. Education programs are on-going and include student assemblies, bike rodeos, and other safety education programs. Enforcement by the grant funded school traffic safety officer is on-going and the police presence at school drop-off and pick-up times has been well received by the schools and the community. Infrastructure Improvements are in the final design and construction authorization phase. Construction is scheduled to begin in the summer of 2016.

2016 CDBG Concrete Improvements

This project is to utilize CDBG funds to eliminate defective sidewalk within the CDBG area. The tentative construction schedule for this project is in May this year. The project construction cost is estimated at \$275,000.

2016 Sidewalk Repair Program

In 2016, the priority neighborhoods for sidewalk improvements will be Country Club Heights and Sunnybrae. Field inspections will be completed soon, and residents will then receive initial abatement letters. The construction funds available for this project are \$650,000.

3rd and 4th Avenue over SR 101 Street Rehabilitation

This project consists of grinding and paving the 3rd and 4th Avenue overpass over US101 from S. Humboldt Street to S. Norfolk Street. Minor restriping design changes will also occur to reflect what has been established in the City's Pedestrian and Bicycle Master Plans. The project is projected to start in the summer of 2016 if all permit requirements are granted by the California Department of Transportation (Caltrans). The construction cost of these improvements is estimated at \$500,000.

North Central Pedestrian Improvement Project

The City received a CMAQ Lifeline Transportation/OBAG grant to install street lighting and intersection improvements in the North Central Neighborhood. The project will begin construction in summer 2016. Public Works is in the process of contracting with a construction manager and inspector, as well as a cultural resources monitor, to adequately meet federal funding guidelines. The construction cost of these improvements is estimated at \$1.4M.

North B Street Improvement Project

The project limits are along N. B Street between Baldwin and Tilton Avenues. Phase I of this project was completed in January 2015 and included curb extensions at the Tilton/B Street intersection with rectangular rapid flashing beacons (RRFBs). Phase II will install street trees and pedestrian scale lighting along the entire stretch from Baldwin Avenue to Tilton Avenue. Design of Phase II is being finalized and construction is scheduled to take place this summer. The project cost is estimated at \$230,000. Phase III of this project will include the construction of a mid-block crosswalk. This will be constructed following development of the proposed Mi Rancho site.

Citywide High Visibility Crosswalks

This project will install high visibility "triple four" crosswalks at various locations citywide as recommended in the City's adopted Pedestrian Master Plan. For a number of locations, new curb ramps and curb ramp updates are required prior to installing the recommended crosswalks. The design of these crosswalks is at 30%. Curb ramp construction is scheduled for this April with installation of the high visibility crosswalks to follow thereafter. This project will also include high visibility mid-block crosswalks on Norfolk Street near the Fish Market and on Chess Drive near the Chipotle driveway. This crosswalk project is federally grant funded with an amount of \$368,000 and a City match of \$65,000.

2016 Wheelchair Ramp Installation

This project's goal is to enhance and improve pedestrian safety. Staff has identified twenty-three intersections that are eligible for new ADA curb ramps and curb ramp updates. The locations are recommended based on the survey of the citywide high visibility crosswalk locations. The project anticipates construction to begin in April with a construction cost estimate of \$350,000.

Bay to Transit Phase I

This project would construct a Class I pedestrian and bicycle path along the south bank of the 16th Avenue channel. The path would be between Delaware and the established path leading to the Hayward Park Caltrain Station. Easement acquisition is required from the two adjacent properties (post office and self-serve car wash). Environmental permits to work adjacent to the creek will follow. Design for this project is 90% complete. The remaining design, easement acquisition and environmental permit issuance is anticipated to be completed by the end of this calendar year. Construction will take place in Spring 2017. The estimated construction cost for this project is \$385,000.

Coyote & Poplar Pump Station Improvements/North Bayfront Levee Improvements

Coyote and Poplar Pump Stations need to be improved to provide sufficient pumping capacity in the event of a 100 year storm. The pump station upgrades in conjunction with raising a section of the north levee will protect residents in the North Shoreview and North Central neighborhoods from tidal flooding risks. The project design plans are at 90% , CEQA clearance is completed and applications for environmental permits have been submitted to various regulatory agencies. Acquisition of additional rights of ways needed for the reconstructed pump stations is ongoing. The current combined project cost estimate is \$23.5M. Construction is scheduled for FY17/18 if funding is identified.

Hillsdale/US101 Pedestrian Bicycle Bridge

This project will construct a new pedestrian/bicycle bridge over US 101 south of the current Hillsdale interchange. Current activities include alignment design refinements to minimize design exceptions and supporting technical studies in order to obtain environmental clearance. The City Council has indicated the need for this bridge to be of unique or distinct character and of high quality design. Preliminary estimates for this type of unique decorative bridge range from \$25M to \$35M. Grant funding will be sought for design and construction of this bridge project.

Failed Street Reconstruction

There are approximately seventeen miles of failed streets in San Mateo. These streets must be completely reconstructed to restore them to an acceptable condition. The estimated cost for the reconstruction is \$30M and will take at least five years to complete. The funding for this work would include \$2M from Measure S in the first year and bond proceeds in the second year of the FY 16-18 Business Plan. The bond proceeds would be used in the second and third year of the program. The remaining funding for the program would come from unused annual revenue during the first three years of the program, unexpected one-time funds or additional bonds, if necessary. In preparation of the City Council Measure S allocation, staff has identified two street reconstruction projects for 2016. Both projects are roughly one mile long with an

estimated cost of approximately \$1 M each. The tentative reconstruction schedules for both projects are in summer/fall 2016.

Street Rehabilitation

In accordance with the Pavement Management Program, staff has identified three street rehabilitation projects for 2016.

- The first construction project has been scheduled for award at the March 21 City Council Meeting to G. Bortolotto in the amount of \$2.25 million to rehabilitate approximately 2.75 miles of streets at various locations.
- The tentative paving schedules for the 2nd and 3rd St Rehabilitation Projects are in summer of 2016. Both projects are \$1.8 million each and each project will rehabilitate approximately 2.2 miles of city streets.

BUDGET IMPACT

There is no budget impact associated with a status update on Capital Improvement Projects.

ENVIRONMENTAL DETERMINATION

Where necessary, each project receives environmental clearance prior to construction.

NOTICE PROVIDED:

All noticing requirements have been met.

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