

**Oro Loma Sanitary District
MEMORANDUM**

TO: Board of Directors

FROM: Construction Committee
Directors Becker and Dias

DATE: February 14, 2018

SUBJECT: MINUTES, MEETING FEBRUARY 14, 2018

The Construction Committee, consisting of Directors Becker and Dias, and Castro Valley Director Johnson and Castro Valley alternate, Director Sadoff, met on Wednesday, February 14, 2018, at 10:00 am. Also in attendance were Oro Loma General Manager Warner; Castro Valley General Manager Williams; District Engineer Halsted; Senior Engineer Dang; Field Engineer Decker; Field Engineer Rossman; and Junior Engineer Rivas. Members of the general public included Fred Simon of Heron Bay:

- **PUBLIC COMMENTS:** Simon introduced himself and thanked the Committee for allowing him to observe the meeting and noted that the District is performing some very interesting projects. He noted that the Collections crew was working in his neighborhood the prior week and that they were very thorough, nice, and informative when he approached them and inquired about their work.
- **SEWER LINE REPLACEMENT: (verbal)**
FY 2017/18 Budget \$6,408,000
\$ 6,158,000 Sewer Line Replacement Project, \$ 250,000 Altamont Road Easement

Halsted reported on the table below: The Hacienda (Popeye's) project is currently being advertised for bidding and staff is working with structural and geotechnical engineers to develop a plan to support the retaining wall on the Altamont Road Easement project.

SUMMARY OF PROJECTED COSTS COMPARED TO TOTAL BUDGET

Project	\$ Contract	\$ FY 17/18	\$ Overhead	Total for FY 17/18
SLR 16/17 (Trojan/Edgemoor)	\$ 2,628,470	\$ 1,168,730	\$ 40,000	\$ 1,208,730
SLR 143.08 (17/18)	\$ 3,768,000	\$ 3,768,000	\$ 170,000	\$ 3,938,000
Hacienda (Popeye's)	\$ 550,000	\$ 550,000	\$ 25,000	\$ 575,000
Design for 18/19 SLR				\$ 75,000
Altamont Rd Easement	\$ 200,000	\$ 200,000	\$ 50,000	\$ 250,000
Lomita (completed)	\$ 358,768	\$ 358,768	\$ 28,904	\$ 387,672
Glenbrook (completed)	\$ 197,600	\$ 197,600	\$ 9,200	\$ 206,800
			Total Budget	\$ 6,641,202 \$ 6,408,000

**SEWER LINE REPLACEMENT PROJECT 2018/19 (45-143.10)
FY 2018/19 Budget \$4,000,000**

Halsted reported on the scope of work that is being put together. The project currently contains 93 pipe segments equaling 4.1 miles. Approximately 25% of the project will take place on and around Corvallis Street to address the Trojan basin infiltration/inflow concerns. The project is planned for public bidding in June 2018. Director Becker asked if the private laterals on Corvallis Street would be replaced. Halsted responded that the main on Corvallis Street is currently within the water table and that the typical length of lateral replacement on a project is 6-feet. Staff will be investigating the appropriate length for lateral replacements necessary to prevent ground water infiltration into the system; it is anticipated that this would be to the face of the curb or the back of the sidewalk.

The Committee accepted the report.

SEWER LINE REPLACEMENT 45-143.08 (FY 2017/18)

Decker reported on the status of the project, which provides for the replacement of 4.4 miles of sewer pipe with high density polyethylene pipe (HDPE). Over the past month, the contractor performed work on Fairmont Drive and Via Conejo and is currently working on Via Pinale. The project is 30% complete.

The Committee accepted the report.

SEWER LINE REPLACEMENT 2016/17

Rossmann reported on the status of the project, which is 86% complete. The project provides for the trenchless replacement of 18,416 linear feet of 5- to 12-inch sewer pipe with 8- to 14-inch high density polyethylene pipe (HDPE). The contractor has remobilized to the project and will begin construction on Trojan Avenue this week. Director Becker inquired if Trojan Avenue was the last site for the project. Rossmann replied that the contractor still has to complete work at the Halsey Avenue site, along with remaining punch list and extra work items. Halsted noted that the contractor should complete the project within the next eight weeks.

The Committee accepted the report.

- **CONSTRUCTION COMMITTEE MEETING MINUTES – JANUARY 10, 2017**

Director Dias requested clarification about the minutes for the Sewer Line Replacement Project 2018/19 (45-143.10) item; he specifically asked what the score on the adjacent pipes being added to the scope of work was and if adding these pipes changed the policy set by the Board. Halsted replied that while the project scope is being developed, the upstream and downstream pipes are looked at to determine if they should be included; when they are included they are called 'adders'. These adders are included when the sum of their defects warrants replacement and when there is adequate budget to do so. While some of the adders have scores as low as 2, the adders are generally pipes on the high frequency list due to roots, sags/grease, or other maintenance related defects. Including the adders in the project meets the District's Strategic Plan in that by replacing the adders we are reducing the number of pipes on the high frequency list, and we are replacing defective pipe, thereby increasing the overall score of the collection system. Director Dias requested that this clarification be brought to the entire Board.

The Committee accepted the minutes with this clarification and requested that the method of developing the sewer line replacement project scope be brought before the entire Board on March 6, 2018.

- **TEN-YEAR R&R AND CIP PROJECTED COSTS:**

Halsted and Dang reviewed updates with the Committee and noted three changes to the Ten-Year R&R and CIP budget projected costs:

- For Paving/Roadway/Berm Maintenance, the re-occurrence interval was changed from 2 years to 1 year.
- A line item for Consolidated District Operations Building was added to the CIP budget for \$400,000 in FY 2019/20 and \$2,600,000 in FY 2020/21. Director Dias noted that this project will require significant additional discussion prior to incorporating funds into the next Budget document. Warner noted that its presence in the 10-Year plan will prompt additional discussion and consideration when evaluating our 5-Year cash flow projections.
- For the Nutrient Optimization Project, \$10,000,000 was added to CIP FY 2018/19 and \$10,000,000 for FY 2019/20.

The Committee accepted the report.

- **OUTFALL NPDES PERMITTING:
FY 2017/18 Budget \$162,700**

Dang provided an update on the NPDES permit. The final permit is scheduled for consideration by the Regional Board on March 14, 2018 at 9am at the Regional Board offices in Oakland. The Regional Board added shellfish harvesting as a protected use, which resulted in tightened pathogen limits. Staff has hired a shellfish expert recommended by EOA, Andy Cohen, to conduct a survey of our potential mixing zone to determine if conditions meet the beneficial use requirements. Andy Cohen performed approximately two thirds of the survey and determined that the habitat does not support the growth of shellfish and does not serve as a beneficial use. Of all the test pits excavated, mussels were discovered in two, but not in sufficient size or number to support harvesting efforts. Warner replied that the Regional Board would most likely not reopen the permit with this new information, and we would wait for the next permit cycle to request eliminating that requirement.

The Committee accepted the report.

- **NUTRIENT OPTIMIZATION PROJECT:
FY 2017/18 Budget \$1,100,000**

Dang presented the current status of the project. Kennedy/Jenks was awarded the design contract and the design is on target for a 60% deliverable in March. The project consists of building a new aeration basin, conversion of surface aerators to fine bubble diffusion, and facilities to allow flow splitting between EBDA and the OLSD local outfall.

Dang presented a new option of constructing a mixed liquor recycle system within each train. The system would include returning the aerated mixed liquor from the last cell to the anoxic zone. This system would be an alternate to the RAS recirculation system, which will increase the cost of the project by approximately \$720,000 but reduce power consumption with a 10.3 year pay back. The alternative would reduce flows and solids loading to the secondary clarifiers during low flows, offer higher nitrogen removal if both systems were utilized together, extend the life of the RAS pumps, and eliminate the potential of not being able to deliver RAS flow if a secondary clarifier was out of service. Staff recommended

proceeding with the option based upon the economic payback and decreased loading on the secondary clarifiers.

The design consultant also prepared a letter establishing the performance expectations of the new plant. The letter will be presented to the Committee. Director Dias inquired if the letter can be sealed and signed by the engineer. Warner replied that the letter will be sealed and signed.

Director Johnson suggested that it would be prudent to visit several treatment plants that are performing nutrient treatment. Warner mentioned that some are in the valley and that it will be arranged.

The Committee accepted the report.

- **PLANT PAVING ASSESSMENT:
FY 2017/18 Budget \$500,000**

Dang presented the findings of the planning study, which identified different levels of rehabilitation of the pavement within the treatment plant grounds. The four different levels of rehabilitation included an AC/AB full depth replacement, AC/AB dig out, crack and slurry sealing, and a seal coat. The estimated project cost is \$800k which includes staff time. The design bid documents are currently being developed based on the findings of the study and will be complete by April 2018. The project will be going into construction in the spring of 2019 after the Alameda County Bockman Canal Dredging Project is complete. The County project is scheduled to begin in May 2018 and last four months. Dang recommended that the project be completed in one phase rather than in two as the proposed budget suggests.

The Committee accepted the report and the recommendation from staff to perform the construction in one phase.

- **COLLECTION SYSTEM ASSET REPAIR & MAINTENANCE: (verbal)
FY 2017/18 Budget \$1,715,300**

POINT REPAIRS 2017/18 No. 1

Rivas reported that the project is 7% complete. The contractor has completed 7 of 102 point repairs. Rivas presented several photos of completed point repairs. The next locations the contractor will be working at are Jacobs Street, Twin Creeks Court Right of Way, and Center Street.

The Committee accepted the report.

- **ADJOURNMENT**

There being no further business to come before the Committee, the meeting adjourned at 11:47 a.m.