

LEUCADIA WASTEWATER DISTRICT
Minutes of an Engineering Committee Meeting
January 6, 2021

A meeting of the Engineering Committee (EC) of Leucadia Wastewater District (LWD) was held on Wednesday, January 6, 2021 at 9:00 a.m., via video conference.

1. Call to Order

President Juliussen called the meeting to order at 9:00 a.m.

2. Roll Call

DIRECTORS PRESENT: Juliussen, Omsted

DIRECTORS ABSENT: None

OTHERS PRESENT: General Manager Paul Bushee; Technical Services Manager Robin Morishita; Field Services Superintendent Jeffery Stecker; Field Services Supervisor Marvin Gonzalez; Field Services Specialist Ian Riffel; District Engineer Dexter Wilson and Administrative Specialist Mark Brechbiel

3. Public Comment

None.

4. New Business

A. Adopt Resolution No. 2343, Lagasse Annexation

FSSpc Riffel presented this information to the EC. He began by providing information on where the proposed Lagasse Annexation (Lagasse) is located. He stated that the property is in the District's Island Area at 395 Sunset Drive in Encinitas, between Interstate 5 and Vulcan Avenue.

He stated that the annexation project is a result of a lot split to construct a new single family residence on the annexed property. FSSpc Riffel continued that the connection to the District's collection system will require the construction of approximately 800 feet of public sewer pipeline and 7 manholes to the existing 8" sewer main located on Vulcan Avenue. FSSpc Riffel stated that Lagasse would be responsible for all construction costs. As a result, he indicated that Lagasse is interested in a 10-year reimbursement agreement. The reimbursement agreement would allow for all adjacent properties along the newly constructed public sewer to connect by paying their fair share of the construction costs. FSSpc Riffel stated that the District would administer the reimbursement agreement. He explained that the cost to administer the agreement would be paid by a fee charged for each subsequent connection.

Director Juliussen asked if the potential new laterals would remain private. FSSpc Riffel replied affirmatively stating that the private laterals are not part of the reimbursement agreement.

Director Juliussen then asked if there is an option to extend the 10-year agreement once it nears expiration. FSSpc Riffel stated that 90 days prior to the agreement expiration, the property owner has the option to request an extension of the

reimbursement agreement.

President Omsted asked if LWD or the property owner would hire the contractor to perform the work. FSSpc Riffel stated that the property owner would be responsible for selecting a construction contractor but that the District's Construction Manager, who is also the Development Inspector for Dexter Wilson Engineering, would inspect the work.

TSM Morishita then stated that DE Wilson would conduct a plan check and approve the plans prior to construction to ensure the plans comply with the District's Standard Specifications and Procedures for Wastewater Facility Projects (LWD Standard Specs).

Following discussion, the EC concurred with staff to recommend to the Board of Directors to adopt Resolution No. 2343, Lagasse Annexation.

5. Information Items

A. Orchard Wood Road Sewer Rehabilitation Project Update

TSM Morishita presented an update to the Orchard Wood Road Sewer Rehabilitation project. He began by describing the location of the project. He continued that there is a significant sag in a segment of the sewer main that would require replacement to properly correct the defect. He said that this particular segment serves approximately 386 residents and that it is in an environmentally sensitive area.

TSM Morishita stated that due to the project location it was determined that the District would need to obtain permits from several governmental entities in order to construct the project using the open trench method of construction. He continued that biological and cultural impacts would require monitoring and mitigation during the project.

He stated that District staff attended a City of Encinitas Engineering Planning Meeting that resulted in changing of the original pipeline alignment to avoid impacts to trees in Scott Valley Park.

TSM Morishita continued that to lessen the environmental impact and reduce permit requirements, various trenchless methods were considered including Horizontal Directional Drill (HDD), Pilot Tube Boring and Micro Tunneling. He stated that HDD could not meet the pipeline slope requirements. He continued that the estimated construction costs for Pilot Tube Boring and Micro Tunneling ranged from \$1.1M to \$1.6M. TSM Morishita said that \$436K was budgeted for construction based on original project cost estimates. He continued that the project team determined these trenchless methods are not cost effective.

TSM Morishita said that the project team decided to cancel the project and maintain the line as a Special Maintenance Activity on a 3-month hydro-cleaning cycle. He then stated that it would be beneficial to Field Services staff to purchase an Easement Crawler to better serve such hard to service areas at an estimated cost of \$60,000.

GM Bushee stated that in the near future staff would request a transfer of funds from the CIP Budget to the Capital Acquisition Budget in order to purchase the Easement Crawler.

President Omsted questioned the cancellation of the project. He was wondering if it would be put off for a period of time and re-evaluated at a later date; possibly 10-15 years down the road.

GM Bushee stated that the line is in good shape with the exception of the sag which can be maintained. He replied affirmatively that it would be re-evaluated at a later date.

B. Leucadia Pump Station Rehabilitation Project Update

TSM Morishita presented an update to the Leucadia Pump Station Rehabilitation Project. He began by showing project location and what has already taken place.

He showed the EC images of where the ECO₂ Super-Oxygenation (ECO₂) pad is located as well as where a trench is being dug to construct the concrete block wall footing around the ECO₂ facility. In addition, he showed images of a new concrete pad constructed for the super-oxygenation cone for the ECO₂ equipment.

TSM Morishita showed the EC the continued work on the ECO₂ side stream pipe line and where the electrical conduit for the permanent Emergency Basin submersible pump was installed. He then showed an image of reddish colored concrete covering where the electrical conduit was laid. This is to indicate to potential future construction crews that electrical conduit is buried there.

TSM Morishita proceeded to discuss the Surge Tank & Emergency Basin Submersible Pump Line construction. He showed the installation of the Emergency Pump Suction Connection and the installation of the standby bypass pumping system being installed by Stanek.

Director Juliussen asked about the piping being rated for earthquakes. DE Wilson stated that the High Density Polyethylene (HDPE) pipe is designed to flex to mitigate the impact of minor earthquakes.

C. FY20 Gravity Sewer Repair / Quebrada Realignment Project Update

FSSpc Riffel presented an update to the FY20 Gravity Sewer repair list. He stated that 12 bid items have been completed, one has been removed and 8 remain.

He then went on to provide information on one of the repairs that has taken place in the Marbella Condominium Complex just east of the District offices. This project item was to locate and raise a missing manhole. The manhole was located between two condominium buildings buried at a depth of approximately 5-6 feet. The manhole was subsequently exposed and raised to grade.

FSSpc Riffel described another project item called the Quebrada Easement. This project is to replace approximately 600' of 8" sewer line. He explained that a line parallel to the existing line will be constructed to simplify construction and reduce bypassing. He indicated that there was a large amount of vegetation that needed to be removed along the path in order to accommodate construction equipment, such as a large excavator and dump trucks.

6. Directors' Comments

Director Juliussen asked the EC about new development projects that he has seen starting up in the Encinitas area and whether or not they would be new additions to the District's system and if our existing system would be able to handle the potential new flow.

DE Wilson described this from a Master Plan standpoint and stated that the master plan would be reevaluated to ensure proper capacity is available for these new additions.

Director Juliussen then asked if the topic of "new plans" or "new developments" could be added to the EC Agenda, as they arise, to keep the EC aware of these projects and their possible impact to District infrastructure. GM Bushee agreed and stated that this would definitely be added.

President Omsted stated that Director Hanson would like to visit the various projects and/or pump stations to maintain awareness of the District's infrastructure and CIP Projects. GM Bushee stated that this would be arranged at the request and convenience of any Director.

Director Juliussen commended staff on all their hard work during the difficult year of 2020 and expressed his appreciation.

7. General Manager's Comments

GM Bushee announced to the EC that Field Services Technician James Hoyett will be retiring in the month of February 2021 after 31 years of service.

8. Adjournment

President Juliussen adjourned the meeting at approximately 10:10am.



Paul J. Bushee,
Secretary/Manager
(Seal)