



RANCHO MURIETA COMMUNITY SERVICES DISTRICT

15160 Jackson Road, Rancho Murieta, CA 95683

Office - 916-354-3700 * Fax - 916-354-2082

IMPROVEMENTS COMMITTEE




(Directors Randy Jenco and Martin Pohl)

Special Meeting

May 11, 2021 at 8:00 a.m.

This meeting will be held via ZOOM video conference only pursuant to Gov. Newsom Executive Order N-29-20. You can join the conference by (1) logging on to <https://us02web.zoom.us/j/84436515393>, entering Meeting ID no. 844 3651 5393, and using the audio on your computer, or (2) dialing into 1-669-900-9128 and entering the meeting code 844 3651 5393. Those wishing to join with audio only can simply call the telephone number above and enter the code. Participants wishing to join the call anonymously have the option of dialing *67 from their phone. Please refer to your telephone service provider for specific instructions. ***PLEASE NOTE – MOBILE DEVICE USERS MAY NEED TO INSTALL AN APP PRIOR TO USE AND MAC AND PC DESKTOP AND LAPTOP USES WILL REQUIRE YOU TO RUN A ZOOM INSTALLER APPLICATION – PLEASE FOLLOW DIRECTIONS AS PROVIDED BY ZOOM. IT IS RECOMMENDED YOU ATTEMPT TO LOGIN AT LEAST 5 MINUTES BEFORE THE START OF THE MEETING.***

AGENDA

1. **Call to Order**
2. **Comments from the Public**
3. **Review Monthly Updates**
 -  District Projects
 -  Reserve Study update
 -  Development
4. **Water Plant Drying Bed Emergency Repairs**
5. **Discuss Basin 5**
6. **Review Capital Projects**
7. **Discuss Options for Using Asphalt Grindings**
8. **Discuss Murieta Village Pipe Replacement Capital Project**
9. **Director and Staff Comments/Suggestions** *[no action]*
10. **Adjournment**



"In accordance with California Government Code Section 54957.5, any writing or document that is a public record, relates to an open session agenda item and is distributed less than 24 hours prior to a special meeting, will be made available for public inspection in the District offices during normal business hours. If, however, the document is not distributed until the regular meeting to which it relates, then the document or writing will be made available to the public at the location of the meeting."

In compliance with the Americans with Disabilities Act and Executive Order No. N-29-20, if you are an individual with a disability and you need a disability-related modification or accommodation to participate in this meeting or need assistance to participate in this teleconference meeting, please contact the District Office at 916-354-3700 or awilder@rmcsd.com. Requests must be made as soon as possible.

Note: This agenda is posted pursuant to the provisions of the Government Code commencing at Section 54950. The date of this posting is May 7, 2021. Posting locations are: 1) District Office; 2) Post Office; 3) Rancho Murieta Association; 4) Murieta Village Association.

MEMORANDUM

Date: May 7, 2021
To: Improvements Committee
From: Ron Greenfield, acting Director of Field Operations
Subject: Monthly Development Project & other Updates

General Update

Sodium Hypochlorite Conversion Project

Staff installed two additional backpressure valves as close to the chemical injection points as possible at the tertiary influent and effluent sites. Outstanding work to be done includes TESCO wiring all the new control and monitoring telemetry into the Wastewater control PLC #2 and integrating these telemetry items into the existing Rockwell SCADA system.

East & West Dissolved Air Floatation (DAF) Painting project

Redwood Painting Co. arrived May 3 and began setting up equipment to start work for the blasting off the old coating and rust in preparation for the new epoxy coating of the DAF's interiors and painting of the exteriors.

Fire Hydrant Replacement Project (CRP 20-06-1)

Utility staff is nearly complete replacing the ten dry-barrel fire hydrants they outlined for replacement. Staff is currently replacing the hydrant at the corner of Puerto and Camino Del Lago Dr.

Water Plant Drying Bed Emergency repair

The back right drying bed #4 was constructed around 1974 when plant one was built. In 1989 plant two was built. There are no records at this time if the drying bed was rehabbed at that time. The drying bed has failed and no longer does what is needed to run both plants that are necessary during the summer months. This item is addressed as a separate item in today's agenda.

Development Projects

The Retreats East & North

No update from last month. The project reports that K-Hovnanian is still in due-diligence period. They have requested that Coastland sign off on plans that had expired and have now been resubmitted. District staff has requested past due and additional deposit funding before being able to continue work.

Rancho Murieta North – Development Project

The project provided deposit funds to allow continued review of the project's water and sewer plans. Drainage plans had already been through a first review with comments and plan mark-ups provided back to the project.

MG - Murieta Marketplace

No update.

MG – Legacy Villas & Suites (lot 7)

No update.

The Murieta Gardens I & II – Infrastructure

No update.

MG - Murieta Marketplace

No update. The drainage basin which is a part of this project remains active as a stormwater best management practice for the development site keeping it active.

MG – Lot 9 (Taco Bell)

No update.

MG -Lot 10 (PDF Office)

No update.

MG – Lot 11 (Circle K Convenience/Carwash/Subway)

No update.

Other Development Projects:

Riverview

Coastland is continuing it's review of Riverview's three phased plan packages, including Water, Sewer and storm Drain studies. Below is the status of all three packages that are being processed. Coastland understands that Phase 2 submittal is being prepared, but it has not been submitted for review.

- Phase 1A: Coastland/CSD returned comment letter and redlines to Developer on February 3.
- Phase 1B: Coastland/CSD returned comment letter and redlines to Developer on December 21, 2020.
- Grading: Coastland/CSD returned additional comments via letter and redlines to Developer on April 14, 2021.

Murieta Business Park

No update.

The Retreats East and North

No update. Continued review is pending the project submitting deposit funding. Last update: The project had submitted improvement plans on February 19, 2021 requesting that they be re-approved and signed off by Coastland Engineering, along with Sac Metro Fire Department and Sacramento County. Coastland responded that the previous review has expired, signature date of June 9, 2017, and needs to be reviewed.

Planned Projects:

The Residences East

Tom Hennig, and Joe Dominichelli our District Engineer, met with Bob Keil to discuss this project. Mr. Keil is interested in moving forward with the original plans for this project. Mr. Keil plans to submit a developer application packet and deposit.

Conditions for both East & West projects can be viewed:

<http://www2.agendonet.saccounty.net/BoardOfSupervisors/Meetings/ViewMeeting?id=3572&doctype=1>

MEMO

Date: May 4, 2021
To: Improvements Committee
From: Ron Greenfield, Acting Director of Field Operations
Subject: Emergency Water Treatment Plant Drying Bed Rehab

BACKGROUND

The back-right drying bed located at the water treatment plant was constructed around 1974 when Plant One was constructed. In 1989 plant two was built. There are no records indicating if the drying bed was rehabbed at that time.

The drying bed had failed and no longer did what is needed to filter all the backwash water from both plants at the required rate during the summer months.

Utility staff investigated the problem and found several issues which required immediate attention. The primary issues are:

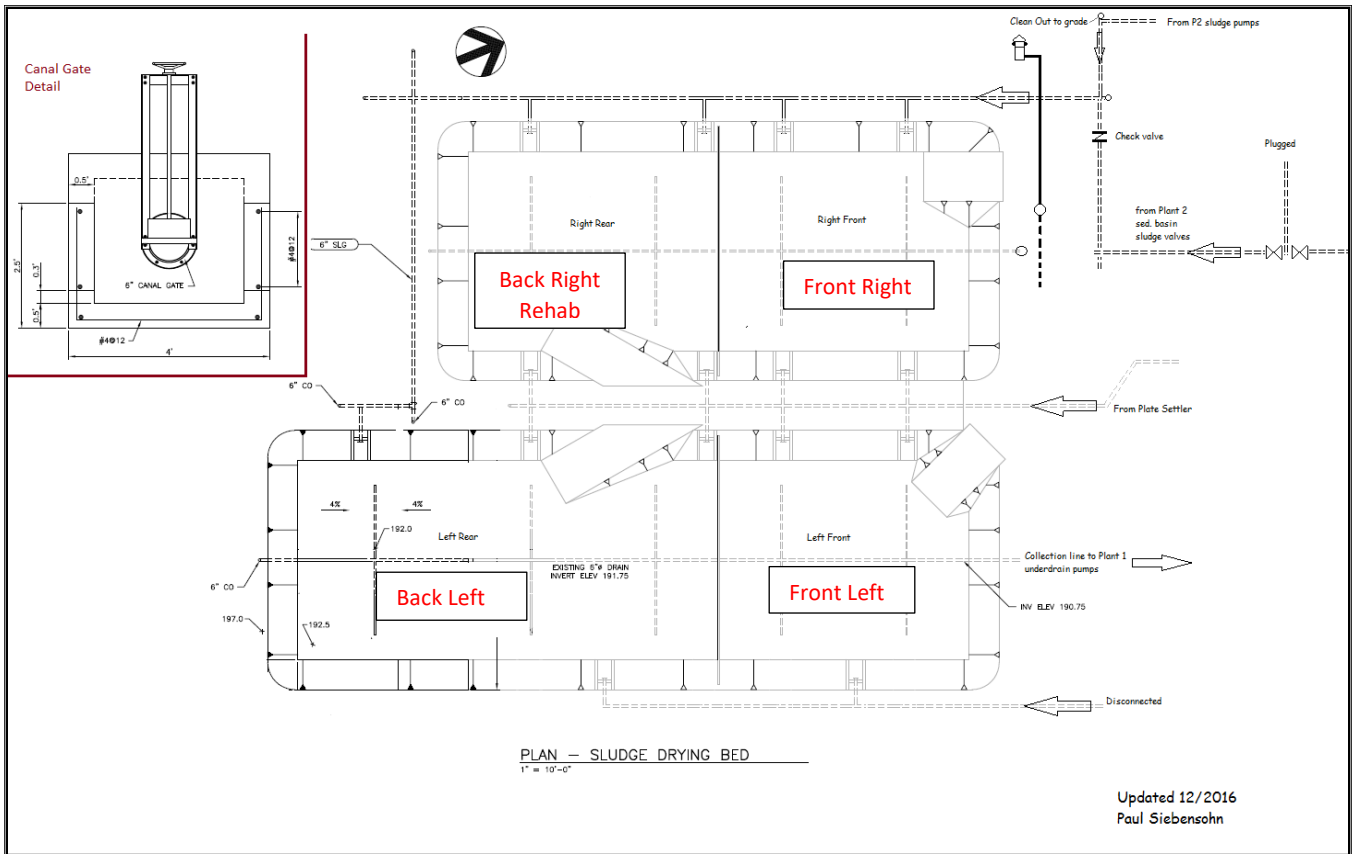
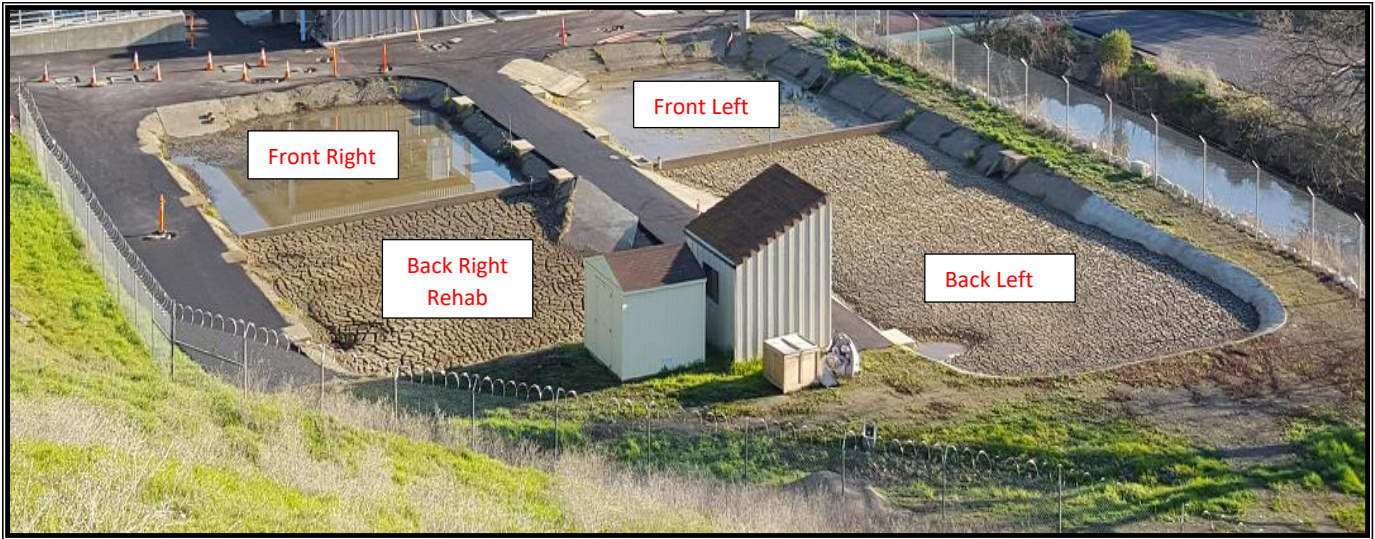
1. Filtration sand was packed and no longer allows for proper percolation
2. Gravel was packed with sludge which also prevented percolation
3. Drainpipes were cracked, and drain holes plugged

Domenichelli and Associates, Districts Engineer, have been on-site to assess the issues and give RMCS D a recommendation on what to do to move forward and get this drying bed to work as designed. The recommended scope of work to be performed is.

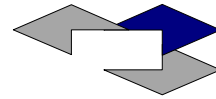
1. Clean drying bed back to the asphalt base
2. Patch and repair all asphalt on the floor of the drying bed
3. Replace drainpipe
4. Replace gravel
5. Replace sand.

Based on a request from the Chief Plant Operator, Domenichelli and Associates developed a plan sheet for the proposed solution. Due to the need for emergency repairs, District staff has received a bid for work to be completed by M3 Construction, Inc., in the amount of \$64,532. The work performed adheres to Domenichelli and Associates' recommendations. The plan sheet from Domenichelli and Associates and the quote from M3 are included with this memo.

RMCS D Water Treatment Plant Drying Beds



M-3 CONSTRUCTION, INC.



Phone (209) 245-5254

CLN 323961

DIR 1000061036

May 5, 2021

Ron Greenfield
Utilities Supervisor
Rancho Murieta CSD
15160 Jackson Road
Rancho Murieta, CA 95683

Re: IFB for Southwest Solids Drying Bed Emergency Rehabilitation
Rancho Murieta Water Treatment Plant

Dear Mr. Greenfield,

Pursuant to your invitation and our subsequent site inspection on 4/29/21, our price to perform the following work scope in accordance with the plan and specifications is:

| | |
|--------------|--------------------|
| Labor | 19,487.00 |
| Equipment | 10,935.00 |
| Materials | <u>34,110.00</u> |
| Total | \$64,532.00 |

Work Scope:

1. Install temporary plug as needed to block water intrusion from the adjacent drying bed.
2. Remove and dispose of existing 4" terra cotta drain tiles.
3. Clean surfaces of existing drying bed, inspect substrate for damage, and perform *minimal* repairs as needed. Off-haul excavated material to stockpile at RMCSO WWTP.
4. Furnish, place, and compact new 9" layer of class II aggregate base.
5. Furnish and install new 4" C900 perforated drain laterals in fabric wrapped gravel envelope.
6. Furnish and place new 12" layer of Silica Products #20 filtration sand.

We anticipate this work will require 5 working days to complete.

Thank you for this opportunity. Please advise if we can be of further service.

Respectfully,

M-3 Construction, Inc.

Ray MacClanahan
President

MEMO

Date: May 7, 2021
To: Improvements Committee
From: Ron Greenfield, Acting Director of Field Operations
Subject: Basin 5 – Lost Lake

BACKGROUND

Basin 5 is a 1.31-acre wet basin that holds water all year round. It has two direct outfalls that flow to the Cosumnes River, a low flow outlet with a flap-gate on the end of its discharge, and a high flow outlet that feeds the stormwater pump station just south of the pedestrian bridge at the Main Lift South station.

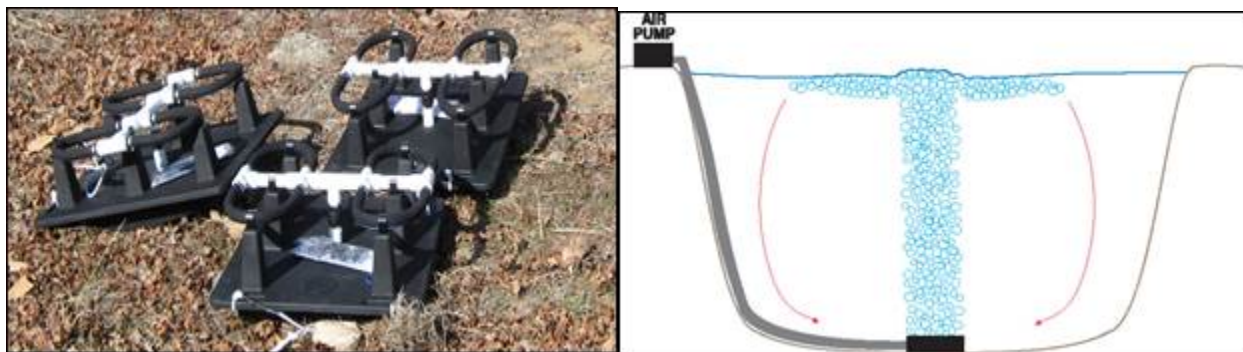
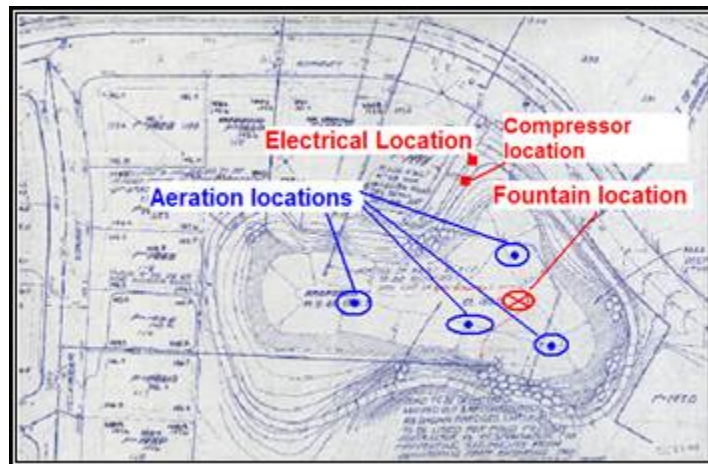


photo of the inlet to Low Flow outlet & High Flow Outlet

This basin has functioned very well for stormwater control releasing relatively clear water; however, some nearby residents have issues with its appearance and sometimes odor. The original aesthetic and functional design of Basin 5 included the planting of cattails or tule (*Typha*) and primrose along the shorelines with various native trees around the outer perimeter, effectively hiding it, thus, giving it the nickname *Lost Lake*. *Typha*, *Azolla* (water fern), and primrose are throughout the state in drainage basins. They effectively help clean the basin water by nutrient uptake before the water releases to receiving waters such as the Cosumnes. However, around 1998, due to residential complaints about aesthetics, they were removed. The shoreline was excavated at a sharp incline at that time to help prevent the re-growth of cattails.

To deal with aquatic vegetation aesthetic concerns, a permit was obtained, and sterile grass carp were planted in the basin to eat the vegetation, permit TCG 2-00085. The District pays an annual stocking fee to the Department of Fish and Wildlife for these fish. Their effect is sometimes minimal as the surface vegetation grows at a high rate.

On September 23, 2010, the District met with concerned residents surrounding the basin to discuss what had been done in the past to address their concerns for the basin's aesthetics and odor. Through multiple meetings with the residents, the District Board, and RMA, developed a solution of aeration and fountain system. The District purchased and installed the system for about \$10,000. At that time, it was verbally agreed upon with the residents at a meeting held by them at the basin, that should this system fail to meet the 80% overall reduction in algae and aquatic vegetation, the District would no longer continue to maintain its operation. So far, it appears to be meeting that goal on an annual basis. As per a Statement of Mutual Understanding signed by both the District and RMA Board president at the time, the District is responsible for the operation of the aeration system and RMA for the fountains.



System Operation is as follows:

Fountain: The RMA will operate the fountain and control access to the timer. The hours of operation may be subject to RMA discretion, although the intention is to run the fountain during daylight hours. Control

of the fountain is from an irrigation-type timer, locked by a District 3207 Master Lock. The red pins turn the fountain off, and the green pins turn the fountain timer on. If the fountain is not operating during its scheduled run time, a ground fault interrupter (GFI) may be tripped either on the timer or where it is plugged into an outlet. Push in GFI reset to restart.

Aerators: The RMCSD will operate the aeration system as per the supplier's recommendation, which is slightly before the pond becomes biologically active at a temperature of 63 degrees or above, typically between spring-fall. Periodic testing of the temperature should be done to determine when to turn on the aeration system. Control of the fountain is from an irrigation-type timer with on/off toggle pins, locked by a District 3207 Master Lock. When in operation, District staff periodically check the operation of the system to ensure its functionality.

Statement of Mutual Understanding

The RMA Board of Directors understand that RMA Maintenance personnel met with CSD Maintenance personnel and residents that live near Drainage Basin 5 ("Basin 5") for the purpose of investigating possible solutions that would mitigate the problems of the unsightly appearance of Basin 5 and emission of unpleasant odors from Basin 5.

RMA and CSD Maintenance Department personnel and the subject residents agreed on the following solution with their respective Board approvals:

CSD will purchase and install all of the required equipment.

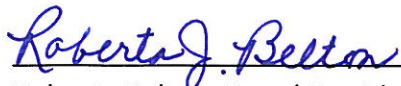
RMA will allow CSD to connect the equipment to an RMA power source.

After the equipment is installed the RMA maintenance department will assume maintenance responsibility for the fountain (only).

RMA will pay for 50% of the power requirements each month for the fountain operation.

All parties enter into this freely, so there is no reason to bring in legal resources to prepare hold harmless or release of liability documents and add to our expenses.

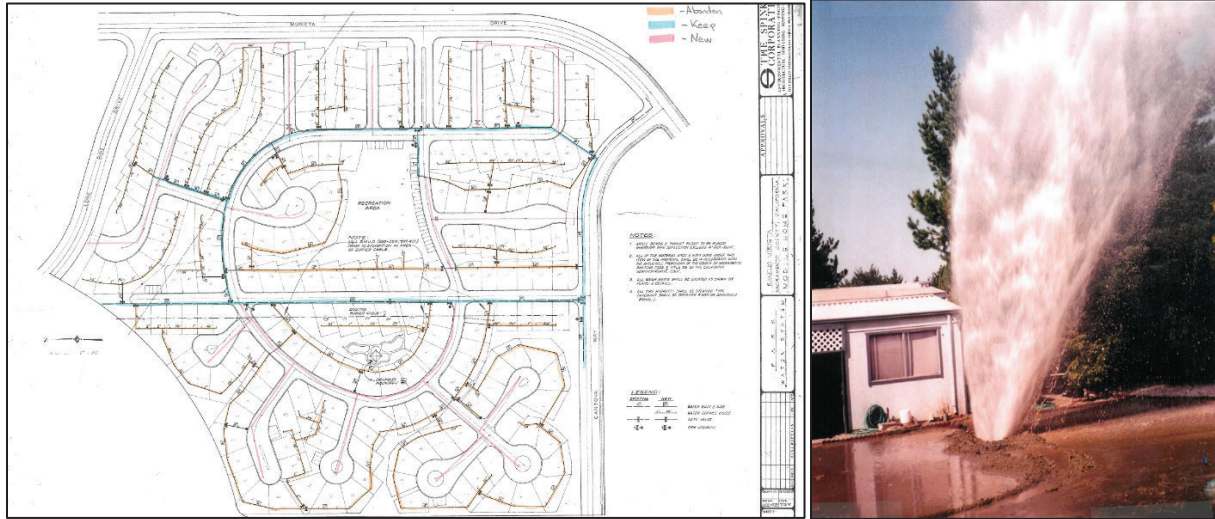
We agree to the above principles so as to continue our mutual respect and goodwill for one another and their organizations.


Roberta Belton, Board President
Rancho Murieta CSD


Jim Moore, Board President
Rancho Murieta Association

6. Capital Projects - Pending

PROJECT TITLE: MURIETA VILLAGE DISTRIBUTION SYSTEM – REPLACEMENT



CAPITAL PLAN

Water – Replacement Reserves

CRP #

21-01-1

PROJECT BASIS:

Replace aging schedule 40 PVC water infrastructure running under Murieta Village residential units.

DESCRIPTION:

Route new water distribution system within streets and Murieta Village right of ways that avoid running under the units within the Murieta Village. Provide new piping system for long term viability of water supply to the Murieta village and an increased level of safety for the residents of the Village by abandoning nearly 50 year old PVC water mains that run under residential units. Project aims to avoid potential liability to the District and its rate payers from potential claims should distribution system break under residential units within the Murieta Village.

ENVIRONMENTAL OR REGULATORY ISSUES:

This project would require a filing of a Notice of Exemption- public right-of-way.

RISK ASSESSMENT:

High.

PROJECT BUDGET:

\$877,000

BASIS OF COST EST:

Estimates for engineering design, bidding, contractor, material, project management, and outreach.