

Marin County Flood Control &
Water Conservation District
Flood Control Zone 4
Suite 304
San Rafael, CA 94903

COVE PUMP STATION PIPE REPLACEMENTS

AUGUST 11, 2016

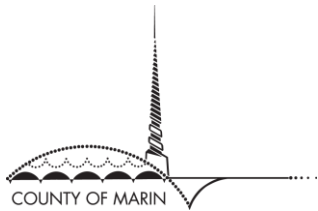


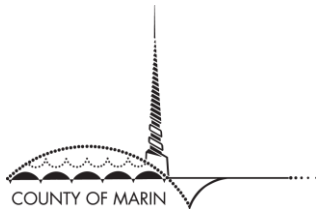
Photo Credit: Jeff Wong

THE NEED FOR PIPE REPLACEMENTS

COVE PUMP STATION

Slide 2

The CMP that poses the most risk of failing, and could lead to a complete system failure, is PIPE_390. This is a 36" CMP that flows directly into the pump station wetwell. This pipe has been in place since 1976 when the pump station was built. The invert of the pipe has completely corroded and missing which poses a significant risk of collapse and therefore failure. This pipe is critical to the entire drainage system flowing into Cove Pump Station because it carries flow from the entire drainage system north of the Cove Pump Station. PIPE_106 and PIPE_389 are both 18" CMPs that are recommended to be replaced as 18" RCPs. PIPE_390 is recommended to be upsized to a 48" RCP or equivalent.



PIPE REPLACEMENT LOCATIONS

COVE PUMP STATION

Slide 3



Figure 5-4: Corrugated Metal Pipes Replacements

PIPE REPLACEMENT DETAILS

COVE PUMP STATION

Slide 4

- PIPE_389 & PIPE_390 are both District owned pipes
- PIPE_390 is an existing 36" diameter corrugated metal pipe (CMP) that would be replaced with a 48" reinforced concrete pipe (RCP)
- PIPE_389 is an existing 18" diameter CMP that would be replaced with an 18" RCP
- Additional recommended improvements: repairing the existing trash rack and installing mechanical backup pump on/off controls (float valves)



PROJECT COST ESTIMATE

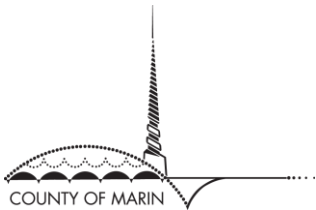
COVE PUMP STATION

Slide 5

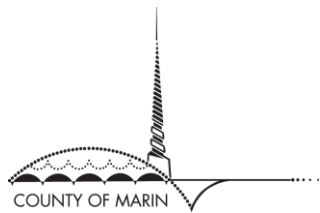
- Replace two District owned CMPs with one 48" RCP and one 18" RCP: \$100,000
- Minor Repairs to Trash Rack: \$5,000
- Install Mechanical Float Valves: \$15,000
- **Total estimated cost: \$120,000**

- **Questions?**

- **Contact:** Scott McMorrow
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THANK YOU



Photo Credit: Jeff Wong