

LOCUST STREET PUMP STATION IMPROVEMENTS – SUMMER 2011 SAUSALITO-MARIN CITY SANITARY DISTRICT



The Locust Street pump station was built in 1953 and is located approximately mid way along the District's interceptor sewer. It pumps sewage from Sausalito, Marin City and Tamalpais Community Services District to the gravity sewer on Bridgeway, upstream of the Main St. pump station. In wet weather some flows are diverted to Scotty's pump station, which pumps the sewage directly into the Locust Street pump station force main.

The Locust Street pump station is a wet pit dry pit type containing two Fairbanks-Morse sewage pumps, equipped with 20 hp and 50 hp motors. A third 35 hp submersible Flygt pump is located in a manhole in front of the pump station. This pump station does not lack capacity to move wet weather flows, to the point of sending too much flow to the treatment plant, which can overload it.

The pump station needs to be rehabilitated for several reasons. The electric controls and pump motors on the two dry pit sewage pumps are located in a control room below the sidewalk. This below grade location makes these facilities subject to flooding in the event a pipe breaks. The pump station does not have a connection to the discharge force main for an emergency pump. The pump station is located in the City right of way, and the entryway and fenced standby engine generator set partially block the City's sidewalk and bicycle path, shown in the above photograph.

Maggiora & Ghilotti, Inc is the general contractor. The station will be equipped with three submersible 35 hp pumps in a new pump pit ahead of the existing pump station. The existing station will remain in operation until construction of the new pump station is completed, and then it will be demolished and abandoned.

The new pump pit location will require relocation of electric, gas, and water utilities. The electrical controls and transfer switch will be placed under a two-walled canopy structure for weather protection, and the engine generator set will be located in an adjacent outdoor enclosure. This will allow all electrical equipment to be located above grade where it will not be subject to flooding. In addition the District's pump station facilities will no longer block the sidewalk. Hatches will be used to access the new pump pit and new valve pit, and two manholes will provide access to the new flow meter.

The new flow meter on the discharge force main will monitor the flow being pumped to the treatment plant. SCADA controls will be used to manage the flow pumped to the treatment plant

to maximize treatment efficiency. Additionally, the upstream manhole will be equipped with its own small force main and be able to house a future jockey pump to allow steadier low-flow pumping during midnight hours to benefit the treatment plant processes.

In addition to the modernization of the pump station and utility relocation, the project includes several conditions of approval from the City of Sausalito to manage drainage around the new above-ground structure and to provide new grading, paving and curb/gutter facilities for Locust Street and Bridgeway. These project elements include several catch basins, a new storm drain manhole, storm drain pipes, concrete flatwork on the sidewalk, two sidewalk handicap ramps, and over 2,200 square feet of asphalt concrete pavement.

For questions about the project please contact the Sausalito-Marin City Sanitary District:

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