CITY OF SAUSALITO

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CITY OF SAUSALITO SEWER EJECTION SYSTEM TESTING REQUIREMENTS AND SPECIFICATIONS

Sewage Ejection System test results will need to be submitted to the City pursuant to Sausalito Municipal Code Section 18.12.100 which requires sewer lateral **and sewer ejection system testing** during $50,000 upgrades to a property or prior to property sale.
All sewer system construction in the City of Sausalito must be in compliance with the City of Sausalito Sewer System Construction Standard Specifications, per the City of Sausalito adoption of Resolution 5117 dated March 2, 2010.

Please make arrangements for an onsite inspection with the City of Sausalito Sewer System Coordinator (SSC) in order to test the private side sewer ejection system. The SSC suggests the ejection system inspection be done in concert with the gravity flow portion required repair already cited in this communication.

Sewer Ejection components to be tested include:

- Discharge line—If it is functioning as designed and has the appropriate utility box access point at final termination point for future maintenance and testing cited under: (SMCSD/ County of Marin Sanitary Districts Residential Sewage Pumping System SD 17 circa 1995)
- If the system is appropriately vented cited under: (SMCSD/ County of Marin Sanitary Districts Residential Sewage Pumping System SD 17 circa 1995)
- If the pump operation and sizing is appropriate for the demand
- Float operation cited under: (SMCSD/ County of Marin Sanitary Districts Residential Sewage Pumping System SD 17 circa 1995)
- If the check and gate valve operation cited under: (SMCSD/ County of Marin Sanitary Districts Residential Sewage Pumping System SD 17 circa 1995)
- If the control panel operation cited under: (SMCSD/ County of Marin Sanitary Districts Residential Sewage Pumping System SD 17 circa 1995)
- If the electrical system is hard wired in accordance with NEC Class 1, Division 2 requirements cited under: (SMCSD/ County of Marin Sanitary Districts Residential Sewage Pumping System SD 17 circa 1995)
- If the control panel and high level alarm system are functioning as designed follow the electrical work and controls section cited under: (SMCSD/ County of Marin Sanitary Districts Residential Sewage Pumping System SD 17 circa 1995)
- If the tank sizing meets minimum sizing as cited under: (SMCSD/ County of Marin Sanitary Districts Residential Sewage Pumping System SD 17 circa 1995)
- If the tank access lid and riser are appropriately installed with City of Sausalito approved materials
- If the dedicated high level alarm float activated by battery back-up power supply complies as cited under: (SMCSD/ County of Marin Sanitary Districts Residential Sewage Pumping System SD 17 circa 1995). **NOTE:** 9 volt battery backup systems are no longer allowed as of May 2, 2014. All battery backup high level alarm systems **must be** constructed to include a Class 2 battery charger fast charge / float AC 100-240V 50/60Hz plug-in charging system located inside the

weather tight NEMA 4x control panel. The battery **must be a sealed lead battery, with quick connect or solder terminals, 12 volt, 5Amp Hours, CE approved system. The battery dimension sizing is 4"High x 3.5" Wide x 2.75: Deep. Typically installation is completed by utilizing the manufacturer recommended control panel interior 12 volt battery mounting bracket.**

EXPLANATIONS OF SPECIFICATIONS CITED UNDER SMCSD/ COUNTY OF MARIN SANITARY DISTRICTS RESIDENTIAL PUMPING SYSTEMS STANDARD DRAWING circa 1995.

Per County of Marin Specifications for Single Family Dwelling Sewage Pumping Systems and Sump Pumps:

- Electrical Work and Controls:
- All electrical wiring and installed cabling, conduit and controls shall meet NEC Class 1, Division 2, Requirements and conform to the requirements of the City or County.
- The Electrical controls shall provide adequate protection for motor and equipment.
- The electrical control panel shall meet NEC and UL Standards for safety, outdoor panels shall be weather tight NEMA 4x.
- Indoor panels shall be NME 1.

National Electrical Code (NEC) Per Class I Div II

- Class 1 Div 2
- Article 500, 501, 502, 503 and 504 is quite specific regarding water tight fittings and the use of raceways. In this setting the jacketed power supply cable on the pump and the jacketed power supply cable for the battery backup system are conveyed in a water tight raceway in accordance with the above cited provisions.
- Watertight conduit, watertight fittings, Liquid Tight material is most effective

Sewer Ejection System / Sump Pump Ejection Discharge Line System

- Plumb the final termination point of the 2" discharge line in compliance with Single Family Residential Spec Sheet SD 17 Marin County Sanitary Districts circa: 1995 Discharge Line requirement to terminate as a reverse installed 2x2 wye to a 4"x2" tee on a 4" verticle gravity flow riser and both cleanouts contained in an 18" x 19 ½" precast concrete utility box. Christy B-24 Sewer Box.
  Note: When constructing sump pumps in certain instances (and with City of Sausalito Engineering Department approval 1.5" PVC SCH 80 diameter material may be used in lieu of 2" diameter for lower demand stormwater sump ejection and pool overflow sump ejection systems)
- **Special Note:** Replacement of the existing 2" discharge line with 2" SDR 80 from the discharge side of the primary tank to the final discharge point at the 2" x 2" SCH 80 wye. This will include direct burial from the structure foundation to the final discharge point at the proposed 4" x 2" sanitary T inflow portion of the 4" gravity flow lower sewer lateral cleanout in Christy B-24 utility box. Existing 2" ABS sewer ejection line to be replaced with SCH 80. Glued fittings will be allowed only with the caveat that each male and female fitting have any exterior and interior burrs removed. Additionally each male and female fitting must be sanded as to remove oil, grease, dust and debris before applying Red Hot Blue/Low VOC plastic pipe glue

The SSC has included the City of Sausalito Sewer System Standard Construction Specifications that applies to the mechanical and plumbing features of sewer ejections systems.

Thank you for your dedication to thorough field work. If at any time you or your organization has questions regarding this information, please feel free to contact me at (415) 289-4192 or via email at pguasco@ci.sausalito.ca.us if you have any questions or concerns.

Sincerely,

City of Sausalito

Patrick Guasco
Sanitary Sewer Systems Coordinator