

Low Pressure Wastewater System (LPWWS) Policy and Procedures

1. NEW LPWWS ADDITIONS TO AMUD:

- 1.1. Specific Board of Directors approval is required for additional LPWWS systems to be incorporated into AMUD's present or future systems. LPWWS will be considered for approval only when conditions make a conventional gravity collection system impractical. An engineering report justifying the use of LPWWS versus a conventional gravity system shall be submitted for consideration by the Board. The report shall contain an overall system design prepared and stamped by a Civil Engineer registered in the State of Texas. The EPA's "Manual of Alternate Wastewater Collection Systems" shall be used as the basis for design.
- 1.2. AMUD reserves the right to reject any request for a new LPWWS.
- 1.3. If Board approval is obtained, detailed construction plans and specifications shall be prepared and submitted for AMUD review and approval prior to the commencement of construction.
- 1.4. Minimum main collection line size shall be two inch.

2. CONNECTION TO LPWWS:

- 2.1. Each residential and commercial unit served by a LPWWS shall be equipped with sewer grinder facilities purchased from the District.
- 2.2. A single grinder system is required for each single-family residence and each living unit of multifamily residences or complexes.
- 2.3. Sewer grinder systems for commercial units will be sized with respect to anticipated sewer flows. Cost will vary depending upon type of grinder system required. For commercial units, grease traps and pre-treatment systems may be required at the discretion of the District.
- 2.4. Sewer grinder system material charges are due and payable at the time such material is required for installation. No material will be released until the applicable charges are paid in full.
- 2.5. Initial installation of each grinder system is the responsibility of the owner/builder in accordance with the requirements of the District and applicable State and Local codes. Grinder control panels must be located exterior to any building and be accessible to District employees for service purposes. Final inspection and approval by a District employee or representative is required to obtain sewer collection service. Inspection of grinder systems will be performed by the District personnel only after required checklists are returned to District office. Additional inspections required due to systems not meeting District specifications will be charged additional inspection fees.
- 2.6. Electrical service for operating the sewer grinder shall be provided by the customer through a dedicated 240 volt 30 ampere circuit breaker which has no other connections either external or internal to the grinder control panel.

3. MAINTENANCE:

- 3.1. Maintenance and repairs for sewer grinders will be provided by the District. Grinder systems must be purchased
- 3.2. Maintenance of the yard line from the property line to the grinder is the responsibility of the property owner.
- 3.3. If the grinder system requires repair as a result of negligence or misuse by the Owner, the District will repair such sewer equipment and the Owner will be required to reimburse the District for all related costs.

4. INSTALLATION OF GRINDER PUMP BASINS AND PANELS:

- 4.1. It is the responsibility of the owner/contractor to install the grinder pump system to AMUD specifications. Installation of all components of the grinder pump system shall be done by or under the supervision of a licensed master plumber and electrician.
- 4.2. Basins – All basins shall be installed outside and buried in the existing terrain. No basin will be allowed to be installed under any structure or set on top of the ground. All basins shall be installed to a minimum of 3" above

final grade. For installations requiring an extension to meet grade requirements, contact the District office to purchase this item.

4.3. Discharge Line – Shall be no less than 1 ¼” in diameter and be schedule 40 PVC pipe. All bends shall be no greater than 45 degree. 90 degree bends are not allowed!!! Discharge line and all bends shall be left uncovered for inspection. All discharge lines that will be under any wall or driveway shall be sleeved with a minimum of 3” schedule 40 PVC pipe.

4.4. NOTE: A line inspection must be called for prior to any final inspection request. If a line inspection has not been made, and the lines are covered without approval, the District will require the lines to be uncovered for inspection.

5. **Inlets/Outlets** – All inlets and outlets shall be watertight joints. Inlet pipe shall be a minimum of 30” from the bottom of the tank to the center of the inlet pipe.
6. **Grinder Pump Control Panel 230 Volt/Single Phase** – Shall be a minimum of 4’ above final grade and installed on an outside wall or approved device, no farther than 20’ from grinder basin. Each grinder pump shall have a separate 230 volt/single phase water proof type disconnect switch box located within 5 feet of grinder pump control panel furnished by the contractor/builder or owner. Grinder pump control panel is not to be used as a junction box or altered in any way. No outside lights, irrigation timers or any other connection is allowed inside panel.
7. **Additional guidelines** are included in the attached Plumbing and Electrical Checklists, which must be completed and signed by the responsible master plumber and electrician, then returned to the AMUD office before a final inspection will be scheduled. A minimum of three (3) working days’ notice must be allowed in scheduling the final inspection. Accommodation must be made to allow final inspection to occur during normal working hours. In conjunction with final inspection, AMUD will install the pump assembly and conduct a start-up of the system.