

## **Village of Corrales Wastewater Service Installation Specifications**

***Single service connection will utilize a SCH 80 PVC 2" to 1.25" Reducer installed at connection point {Village of Corrales Valve}***

***Contractor will install a 36" deep by 24" Valve Vault with cover as close as feasibly possible to connection point with 2- 1.25" True Union Gate Valves SCH 80 Hi-Impact PVC type II per ASTM D-1785, with polypropylene paddles, 200 PSI pressure rated heavy duty Gate Valves, or SCH 80 Hi-Impact True Union Type II PVC per ASTM D-1785 Ball Valves and a 1.25" True Union Check Valve SCH 40 Hi-Impact PVC type II ASTM D-1785 with a EPDM swing gate. Check Valve shall be centered between Gate Valves. Piping from Reducer at connection point to Valve Vault will utilize 1.25" SCH 80 PVC pipe @ 3 Foot Minimum Cover.***

***If Valve Vault is to be located in Traffic areas an approved Traffic rated Vault and Cover must be installed.***

***Piping from Valve Vault to the Flex Connection @ the Effluent discharge shall be 1.25" SCH 80 PVC or SDR 7 HDPE pipe with 3- foot Minimum cover. If rock is encountered pipe shall be bedded with an approved material 6" below and 12" above and 6" either side of the pipe. If SDR 7 is used appropriate adapters must be used.***

***Connection to effluent discharge from 1.25" service line will be a 1.25" X 1" SCH 80 Reducer.***

***Pump system installed shall be an Orenco Unit {PF100511 PF series 4" Submersible Effluent pump, PB2572COV+S+12 Pump Basin. FL24G12-4B Fiberglass Gasketed Lid with Stainless Steel Bolts, PVU57-1819 Universal Biotube Pump Vault, HV125BCPR Discharge Assembly, SB4 Splice Box, Level Control Assembly, Float Stem Holders, External Flex Connection, and BioTube Filter Cartridge. An equivalent unit may be used upon approval.***

***In high ground water installations an anti-flotation base extending 6" beyond pump basin and 6" deeper than pump basin +6" of bedding material must be used.***

***Contractor shall connect The Orenco Unit to the Septic Tank Outlet Pipe with a Cleanout Assembly consisting of a 4" PVC Sanitary Tee, 4" SCH 40 PVC Pipe and 4" SCH 40 PVC cap terminated 2" above ground level.***

***The Contractor will retrofit the tank outlet pipe and install an Effluent Filter.***

***Electrical shall consist of 3/4" Electrical Conduit & 10 AWG from Pump to Control Panel and 12 AWG from floats to Control panel {See Orenco Wiring Diagram Model S1} and 10 AWG in 3/4" Electrical Conduit from Control Panel to House Electrical Panel. All electrical shall conform to all local Codes, Specifications and permitting.***

***Existing Septic Tanks must be pumped out and inspected before any installation of Pump System or piping from connection point will be allowed. All Septic Inspections must be performed by a qualified inspector. Inspector must be a Professional Engineer, NAWT Certified inspector or Licensed Contractor holding a Construction Industries Division License Classification MM-1, MM98, MS-1 or a MS-3.***

***New Septic tanks will be installed to Manufacture Specifications***



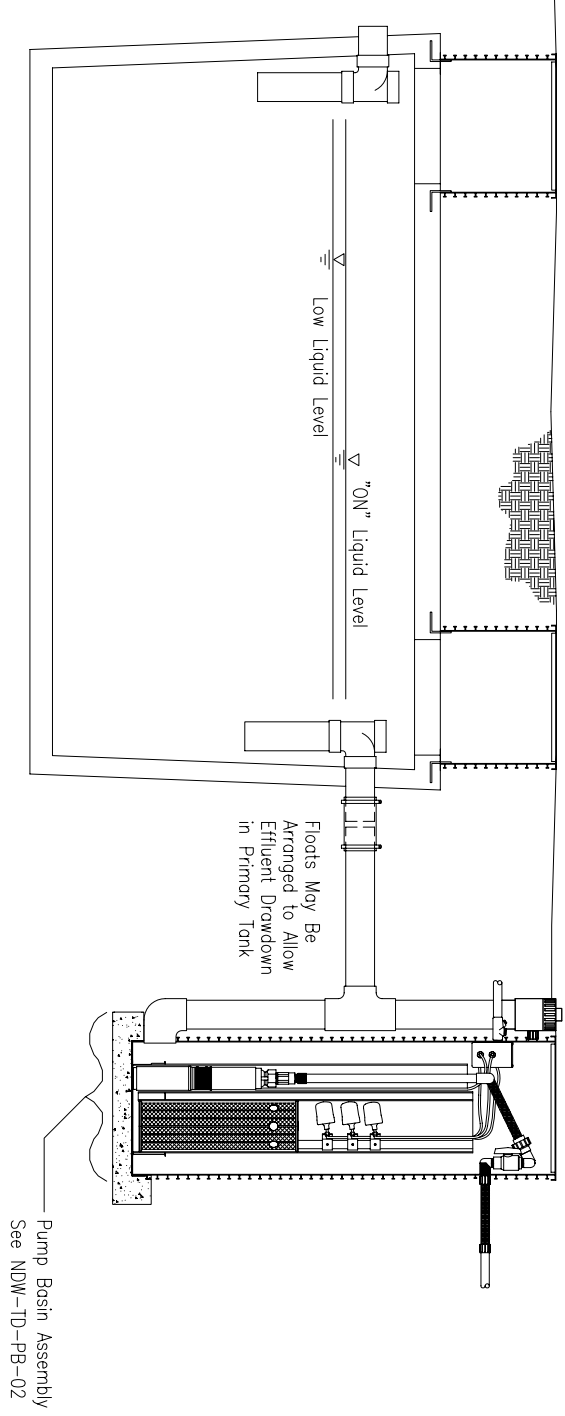
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# Basin with Effluent Pumping System

Scale: 1" = 2'

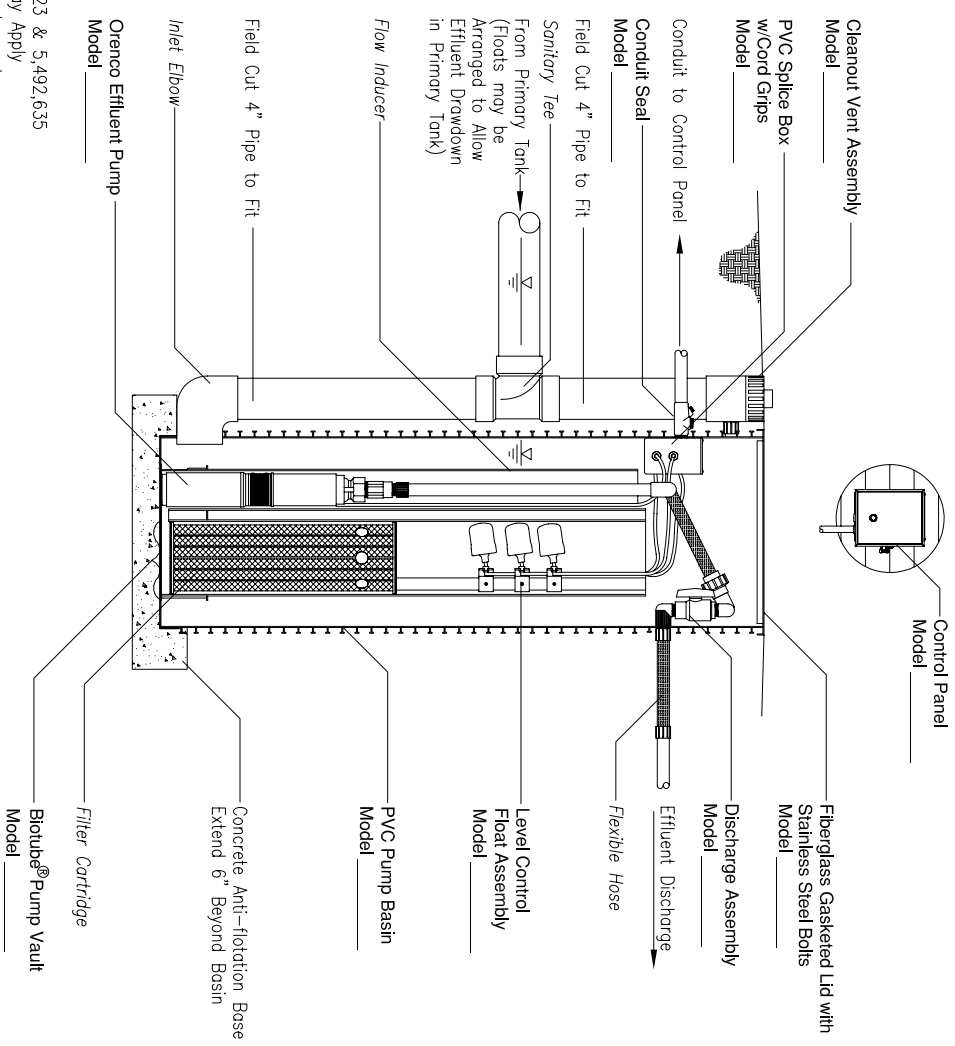


Patents # 4,439,323 & 5,492,635  
Foreign Patents May Apply  
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# Pump Basin with Effluent Pumping Assembly

Scale: 3/4" = 1'



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