

Project:

Date:

SECTION 5 Wastewater Pumping - Design Requirements		Comments
EPD Letters required for private systems: 1) County does not accept wastewater, 2) Landfill clearance.		
EPD Letters required for public systems: 1) County accepts wastewater, 2) Landfill clearance.		
Fees due before approval.		
1.14	DEVELOPER'S PLANS AND SPECIFICATIONS	All engineering plans shall ... include, explicitly or by reference, into the Developer's engineering design, plans and specifications, the applicable standards and specifications of Lowndes County. As a minimum, for the following types of facilities, include the indicated information:
		Force Mains
		Plan and Profile at a scale no smaller than 1 inch = 100 feet horizontal and 1 inch = 10 feet vertical.
		Locations of air release valves.
		Pump Stations
		Site Plan at scale no smaller than 1 inch = 20 feet.
		Location of wetwell, valve vault, generator, by-pass valve, access road, parking area, and fence.
5.01	GENERAL	
	A.	Sewage pumping stations shall be a duplex submersible type. Pumping station shall have an access road located between the adjacent public road and the pumping station.
	B.	The method of design and construction shall be in accordance with Standard Specifications for Wastewater System Construction and Article 5.02 below. The system shall be designed with considerations for future expansion and maintenance.
	C.	Pump manufacturers shall be in accordance with Standard Specifications for Wastewater System Construction. Selection of pump manufacturers shall be reviewed with the County and approved by the County prior to the start of project
5.02	PUMPING SYSTEM EQUIPMENT AND APPURTENANCES	
	A.	Pumps: Duplex system mounted on guide rails.
	B.	Emergency Power: On-site generator capable of sustaining operation of pumping station with automatic transfer switch.
	C.	Controls: Controls shall meet the requirements of Standard Specifications for Wastewater System Construction.
	D.	Air Release Valves: As required at high points in force main.
	E.	Force Main Marker Posts: Concrete force main marker posts are to be placed at all air valve manholes as required in the Standard Specifications for Wastewater System Construction.
	F.	Piping: Meet requirements of Standard Specifications for Wastewater System Construction.
	G.	Valves: Located outside of wetwell in a valve vault with aluminum cover. Discharge line for each pump shall have a check valve and plug valve.
	H.	Ancillary components include:
	1	Emergency by-pass valve
	2	Ultrasonic level sensor
	3	Combustible gas detector
	4	Audible alarm with silencer
	5	Telemetry system
	6	Visual alarm
	7	Gauges on discharge piping
	8	Site light
	9	Elapsed time meter, each pump
	10	Washdown water service
5.03	WETWELLS AND VALVE VAULTS	
	A.	Construction: Precast reinforced concrete in accordance with Standard Specifications for Wastewater System Construction.
	B.	Access Cover: Aluminum, lockable access hatch with stainless steel hardware.
	C.	Vent: Wetwells require a vent pipe in accordance with Standard Specifications for Wastewater Construction.
	D.	High Water Level: High water level within the wetwell shall be a minimum of five feet below the lowest floor slab of all houses, apartments, buildings, businesses, etc. being served.
	E.	Linings and Coatings: Wetwells and valve vaults shall be lined on the interior and coated on the exterior in accordance with the requirements in the Standard Specifications for Wastewater Construction.
5.04	SECURITY FENCE	Provide chain link fence in accordance with Standard Specifications for Wastewater System Construction.
5.05	PARKING FACILITY	Provide driveway and parking facility for maintenance vehicles. Driveway and parking areas shall be paved with a minimum of 1.5" of Type "E" asphalt and a minimum of 6" graded aggregate base or approved equal.
END OF SECTION		