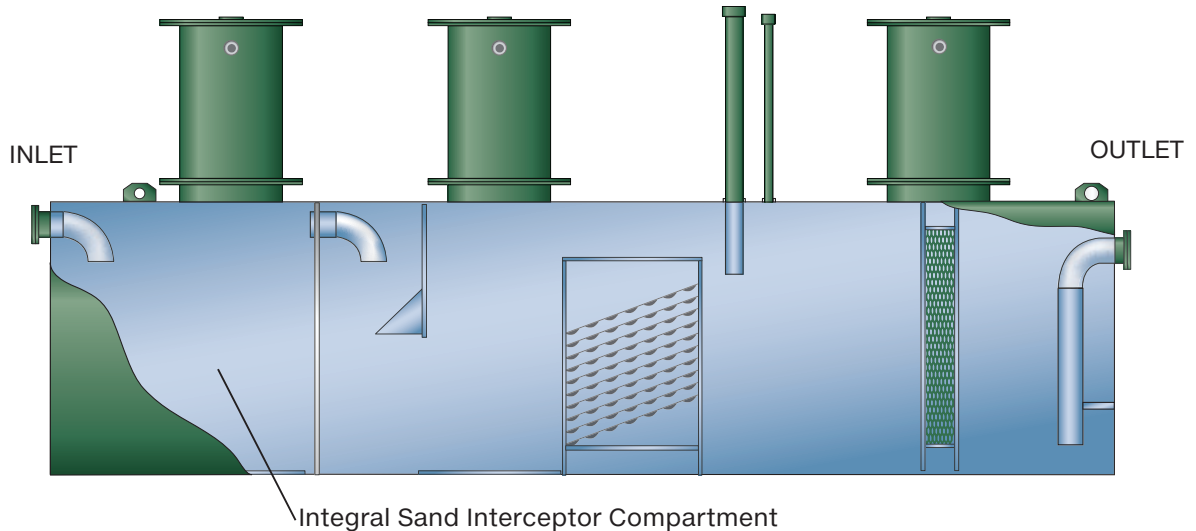




Series – G Oil/Water Separators

These oil/water separators feature an integral sand interceptor compartment to permit sand and gravel to settle out before the wastewater enters the separation chamber.



The design of a new highway maintenance facility project was completed by a Pittsburgh-based building design and consulting firm, AE Works. The project design includes the development of 10 acres and all necessary buildings and infrastructure to provide a fully functional and efficient highway and vehicle maintenance facility. The \$20.3 million construction contract for this project was awarded as a multi-prime contract, and the new buildings are expected to be fully completed by fall of 2020.

The project engineer selected Highland Tank's HTC-G-3,000 gallon double wall UL SU2215 Oil/Water Separator having a 0-300 GPM treatment flow rate. The oil/water separator was 5'4" diameter by 21'4" long and was supplied with an interior coating, a NEMA 4X control panel with high and high-high oil alarm sensors, a differential water/hydrocarbon leak sensor, large EZ Access™ manways to allow for convenient access for inspection and maintenance , and a 30-year warranty.

The specified model also includes the Series G which features an integral sand interceptor compartment on the inlet of the oil/water separator to permit sand and gravel to settle out before the wastewater enters the separation chamber. Once in the separation chamber, inlet flow is directed against the velocity head diffusion baffle to reduce flow turbulence and distribute the flow evenly over the separator's cross-sectional area. The oily water then passes through the Corella® Coalescer, an inclined arrangement of stacked, corrugated plates. The corrugated underside of the Corella® plates causes the oil to coalesce into sheets. The oil globules then rise to the surface of the separation chamber where the separated oil accumulates. Any remaining solids sink to the top of the plates and slide off the plates to the solids collection area. The effluent flows down toward the outlet and is discharged by gravity displacement. An encased bundle of layered, oil-attracting fibers (petro-screen) is used to intercept droplets of oil that are too small to be removed by the Corella® Coalescer,

The project specifications included all of the necessary accessories for a proper oil/water separator installation. These include grade level manway covers rated for vehicle traffic loading, and buoyancy calculations for a proper anchoring system which included hold-down straps and concrete deadmen. To learn more about Highland Tank's Series G Oil/Water Separators, please [visit our website](#). We also have [typical installation drawings](#) available on the web.

Call 814-893-5701 today or visit us at www.highlandtank.com for more information on wastewater treatment systems.

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