

WEST INTERCEPTOR SHOREWOOD RELIEF PHASE 3 – SHOREWOOD SECTION

The Shorewood Section is 1,800 feet of 30-inch centrifugally cast fiber reinforced polymer mortar (FRPM) pipe. The upstream end will connect to a large rectangular junction manhole installed during phase 1 on the west side of Shorewood Boulevard. Flow from the Phase 1 pipe enters the upstream side of the junction manhole and two pipes exit. The flow will split into the West Interceptor Relief (WIR), built in 1959, and the new Phase 3 pipe. Moving east along the Phase 3 pipe, a new MH will be built in Shorewood Boulevard to pick up flow from the original West Interceptor (WI) built in 1932. Currently flow in the old WI is generally separate from the WIR. The two pipes are parallel to each other from Shorewood Boulevard to Marshall Court and there are several cross connections. The cross connections are at higher elevations than the interceptors and are typically dry, but they can carry flow from one pipe to the other during high flows. When the Phase 3 project is complete the old WI from Shorewood Boulevard to Marshall Court will be abandoned and filled with grout.

The next downstream Phase 3 manhole will also be in Shorewood Boulevard and will pick up flow from the West Interceptor Midvale Relief which was built in 1971. Currently the Midvale Relief dumps into the WIR. No cross connection is planned here and when the Phase 3 project is complete all flow from the Midvale Relief will discharge to the Shorewood Relief. Continuing east the Phase 3 pipe will run parallel to the old WI and the WIR in the Purdue Street Cycle Path and Purdue Street.

At Purdue Street and Swarthmore Court a 24-inch diameter cross connection between the Phase 3 pipe and the WIR will be constructed. This cross connection is at the same elevation as the interceptor pipes. In the future it will allow continuous equalization of flows between the two interceptors. In the short term during construction, it will direct flow in the upstream Phase 3 pipe, which includes flow from the old WI and the Midvale Relief, into the WIR until all downstream Phase 3 pipe is installed and connected.

As the new pipe approaches the pool it will jog into the concrete pool deck to go around the old oak tree. At this point the old WI will be removed and the Shorewood Relief will be installed in its place. Just west of Marshall Court the WIR jogs south and will cross the new Shorewood Relief. An 8-foot diameter junction manhole will be installed here. The Phase 3 pipe will continue across Marshall Court and into the University Station parking lot. The downstream end of the Shorewood Section will end at a large rectangular junction manhole where the WIR and the Shorewood Relief cross yet again. At this point the Phase 3 pipe will connect to the upstream end of the Phase 2 pipe.

One additional structure will be built in the Shorewood Section. A 6-foot square monitoring manhole will be built on a local Village sewer in Shorewood Boulevard. This manhole is separate from and some distance away from the District pipe in the area. The purpose of the manhole is to monitor sewage flows from the Village for billing purposes. The District bills the Village based on quantity and concentration of sewage flow. The District does not bill residential and commercial customers directly.