

# DC-02 & DC-03 SANITARY RELIEF PHASE II



MSD Project Clear is the Metropolitan St. Louis Sewer District's (MSD) initiative to improve water quality and alleviate many wastewater concerns throughout St. Louis City and County. MSD Project Clear is a long-term effort by MSD, undertaken as part of an agreement with the U.S. Environmental Protection Agency and the Missouri Coalition for the Environment. MSD Project Clear will invest billions of dollars over a generation in planning, designing, and building community rainscaping, system improvements, and an ambitious program of maintenance and repair. At times of heavy wet weather, the sewer system of St. Louis City and much of St. Louis County can be overwhelmed, causing overflows into area rivers and streams. Like many cities throughout the United States, this program is designed to reduce the occurrence of sewer overflows that result from older wastewater collection and treatment systems during heavy storms. MSD Project Clear has divided this multi-year, multi-billion dollar investment into numerous projects that will be designed and constructed over the next several decades.

The purpose of the DC-02 & DC-03 Sanitary Relief project is to provide additional sanitary sewer conveyance capacity in the Deer Creek watershed. Once this additional conveyance is in place, seven constructed sanitary sewer overflows, which currently exist along Deer Creek, will be removed and the discharge of sewage from these overflows into the streams will be eliminated.

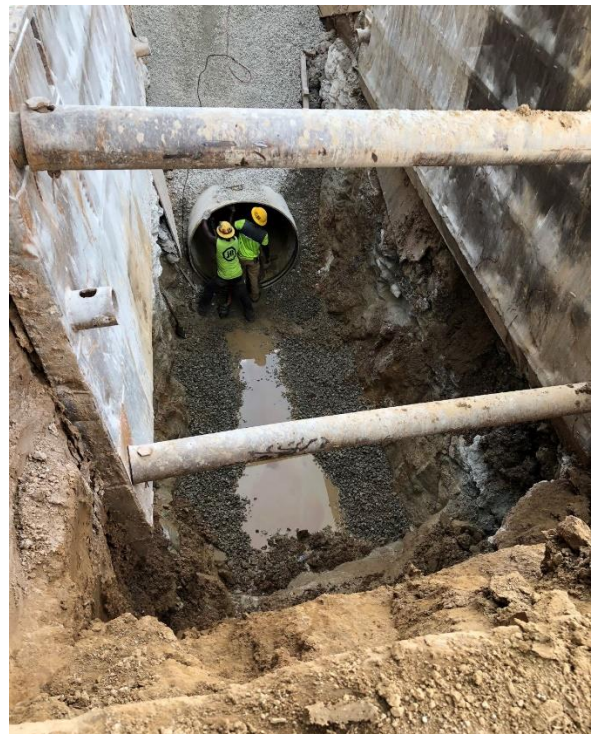
## **SANITARY SEWER OVERFLOWS (SSO) – WHAT ARE THEY?**

Sanitary sewer systems collect and transport domestic, commercial, and industrial wastewater and limited amounts of stormwater and infiltrated ground water to treatment facilities for appropriate treatment. Occasionally, sanitary sewers will release raw sewage. These types of releases are called sanitary sewer overflows (SSOs). SSOs can contaminate our waters, causing serious water quality problems, and back-up into homes, causing property damage and threatening public health.

During dry weather, the existing sanitary sewer systems serving the Deer Creek Watershed can handle the wastewater collected and carry it to the treatment plant. However, during heavy rain or significant snowmelt the stormwater and groundwater that infiltrate or flow into the sewer system may exceed the capacity of the sewer system causing the discharge of the excess sewage into an adjacent stream or other waterway.

## **DC-02 & DC-03 SANITARY RELIEF PROJECT**

This project involves construction of a new, larger diameter, trunk sewer beginning near the intersection of Brentwood Boulevard and Manchester Road in Brentwood, where the new sewer will be 78 inches in diameter. The new sewer will be installed through portions of Brentwood, Rock Hill and Ladue and will end near the intersection of Conway Road and Lindbergh Boulevard in Ladue, where the size of the sewer will be 48 inches in diameter. Due to the long length of the project, construction will be accomplished in multiple phases.



## BUILDING THE RELIEF SEWER

Phase I of the project has been completed. The Metropolitan St. Louis Sewer District (MSD) awarded the \$25.5 million construction contract for Phase II to Kolb Grading in spring 2018 and construction of Phase II began in late summer of 2018. Phase II construction will continue through late spring of 2020.

A photo depicting the route of the Phase II sewer follows:



## TUNNELING

The portions of the sewer identified by black lines in the photo will be installed by tunneling. The sewer will be installed by tunnel where it passes beneath Manchester Road and McKnight Road so there will be no disruption to traffic. The tunnel boring machine pictured below will be used to excavate the tunnels.



## OPEN CUT CONSTRUCTION

The portions of the sewer identified by blue lines in the photo will be installed by excavating a trench from the surface. The sewer pipe is located approximately 30 feet below the ground surface. In some areas, limestone bedrock is present within a few feet of the ground surface, so a trench must be excavated in the rock to accept the pipe. The construction contractor currently plans to use a trenching machine to cut a slot in the rock. To produce a trench wide enough to accept the sewer pipe, the trenching machine will have to cut three separate slots using the machine depicted below.



## WHO TO CONTACT

Questions or concerns about construction should be directed to Gary Vandelloo at (314) 802-7039 during normal business hours between 6:00 AM and 3:30 PM. If there is an emergency, please call 911!

For more information on the Project Clear Program, please visit <http://www.projectclearstl.org/>