



Lafayette - Barker Storm Sewer Interceptor Project

LOCATION: Michigan City, IN

OWNER: Sanitary District of Michigan City

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PROJECT PROFILE

The Lafayette-Barker Storm Sewer Interceptor Project was designed by the Sanitary District of Michigan City to allow the agency to separate storm water runoff from sewage in the Marsh Elementary School neighborhood - the last major area of the city that still used combined sewers. Separating the systems helped to minimize large fluctuations in the amount of sewage flowing through the sanitary sewer system after rain storms, and helped to prevent overflows.

Super Excavators contract entailed the microtunneling of 2,303 lineal feet of 78" Hobas Jacking Pipe. The tunnel drives were rather long so we implemented Intermediate Jacking Stations on each drive to overcome any high ground pressures throughout the drives. The fine beach sand like soils were pretty consistent throughout this project and required constant use of bentonite to prevent freezing of the line during tunneling. We also worked 24 hours a day, 7 days per week to keep the line pressures in a safe range.

Also constructed were four (4) interlocked steel sheeting and concrete ring whaler shafts used for MTBM operations: (1) Shaft A - 23' diameter, 24 vertical feet; (2) Shaft B - 32' diameter, 30 vertical feet; (3) Shaft C - 23' diameter, 32 vertical feet; and (3) Shaft D - 32' diameter, 37 vertical feet. Due to groundwater at or near the ground surface we used dewatering deep wells around shafts to draw down water during shaft construction, launching, and receiving of MTBM. The tunnel portals at the shafts were chemically grouted to prevent soil movement upon receiving of MTBM, and concrete plugs were installed at shaft bottom to prevent upheave and inflow in the shafts.

TOTAL VALUE OF CONTRACT:
\$9,429,855.86

COMPLETION TIMELINE:
APRIL 10, 2009 - MAY 23, 2011

COMPLETED AS:
PRIME CONTRACTOR

