

Sanitary Sewer Replacement and Relief Program

Phoenix, Arizona

The City of Phoenix has initiated a Sanitary Sewer Relief Program to systematically address sanitary sewer mains that exceed capacity during peak day weather flows. Dibble developed basin-wide solutions that consisted of the design of 8,200 linear feet of 8-inch through 24-inch relief/replacement sanitary sewers. Dibble completed nine design projects utilizing traditional open cut and trenchless technologies under both construction manager at risk and job order contract delivery methods.

Design methodologies employed for sanitary sewer relief/replacement included a combination of design of parallel relief sewers, redirecting flows to alternate sewers, upsizing pipeline diameters, and utilizing traditional excavation replacement techniques to replace undersized pipe. Trenchless technologies of pipe bursting and cured-in-place lining were utilized when applicable to reduce project costs and minimize disruption to the general public. Engineering services for these projects include field survey; data research and collection; basis of design report; grade and alignment plans; preliminary, pre-final, and final construction documents; technical specifications; project management; and GMP analysis/negotiations.



Client:
City of Phoenix

