

Sewer Line Upgrades at 56th Street

Project:
Sewer Line Upgrades at 56th Street

Dates:
February 7, 2008 to September 18, 2008

Location:
North of the 101 Freeway between 56th and 64th Streets, Phoenix, AZ

Owner:
Meritage Homes Construction, Inc.

Contractor:
DCS Contracting

Kimley Horn & Associates

Description:
SSC provided consulting services to Kimley Horn & Assoc. for the design of on-site and off-site waterline infrastructures associated with a 270 acre mixed use development in north Phoenix. SSC provided pre-design potholing services to expose existing 42-in and 24-in waterlines. In addition to consulting and potholing services SSC was also awarded the sub-contract to install a 78-in casing for a diverted sewer line and a 36-in steel casing for a 12-n air jumper.

Challenges:
Complex existing utility conflicts, that could not be taken out of service, made this one of the most unusual and technically challenging projects that SSC, DCS and Kimley-Horn had ever encountered.

Method:
Auger Boring, Hand Tunnel

Results:
Through close collaboration with the City of Phoenix Water Services Department, Arizona Department of Transportation (ADOT) and Specialized Services Company (SSC), Kimley-Horn designed an atypical but highly effective solution that split a 36-in sewer line into three 18-in lines at the point of conflict to allow for the transfer of flow below the existing 42-in & 24-in waterlines (with only 4-inches of separation). Two custom junction structures were also designed complete with internal diversion benches and air jumper.

