



UTILITY PROJECT

CIP12-033 WILLOW CREEK WATER MAIN REPLACEMENT AND SCOUR PROTECTION PROJECT

The construction project was awarded to Fann Contracting on February 24, 2015 and a notice to proceed for the construction of the Water Main and Scour Protection Project was issued on April 6, 2015. This project generally consists of the replacement of two existing water mains, a 14-inch and 18-inch water main that are at grade and susceptible to scour damage. Abandonment of 305 LF of 14-inch Water Main and 290 LF of 18-inch Water Main; installation of 267 LF of 24-inch Water Main with 246 LF of concrete encasement, 32 LF of 18-inch Water Main; and 168 LF of 14-inch Water Main. Replacement of 12 LF of 12-inch DIP Sewer Line and 61 LF of concrete encasement. Downstream of the Water Main install a sheet pile scour protection structure, from existing wash grade to roughly 9 feet below grade, in Willow Creek to provide additional long-term scour protection to the new and existing water main crossing. The sheet pile wall will be 380 LF with 380 LF concrete cap.

Background

In 2005, a flood event occurred in Willow Creek that exposed the City's 14-inch and 18-inch water transmission lines. This caused severe bank erosion in Willow Creek east of Clearwater Drive. The City subsequently worked with the U.S. Army Corps of Engineers to perform flood damage repairs in four areas of Willow Creek. Since then, these transmission facilities have again become exposed. On October 23, 2012, Council awarded a contract to JE Fuller Hydrology & Geomorphology (JE Fuller) to complete a FEMA flood study of Willow Creek from upstream of Willow Creek Road to downstream of Jack Drive. In addition to the flood study, JE Fuller's scope of work included design of scour protection for the existing water transmission mains. The three water transmission mains crossing Willow Creek in this vicinity are 30-inch, 18-inch and 14-inch in diameter. The 18-inch and 14-inch water lines, currently exposed at the surface, will be combined into one 24-inch diameter ductile iron pipe. The new pipe will be encased in concrete and constructed a minimum of eight feet below grade. The existing 30-inch diameter transmission main, already encased in concrete 7-8 feet below grade, will remain

in place during construction.

MONTHLY PRGRESS

Construction for the project is ongoing, the contractor should be finishing connections of the new water main next week (June 8th); the overall project should be completed by July. Construction traffic should be minimal with impacts to Crossing Drive, Clearwater Drive, Reflection Court, and Robin Drive.

Any questions or comments regarding the project may be emailed to the project Manager, Jeff Low at jeff.low@Prescott-az.gov



Visit: www.prescottroadconstruction.com for additional project information.

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