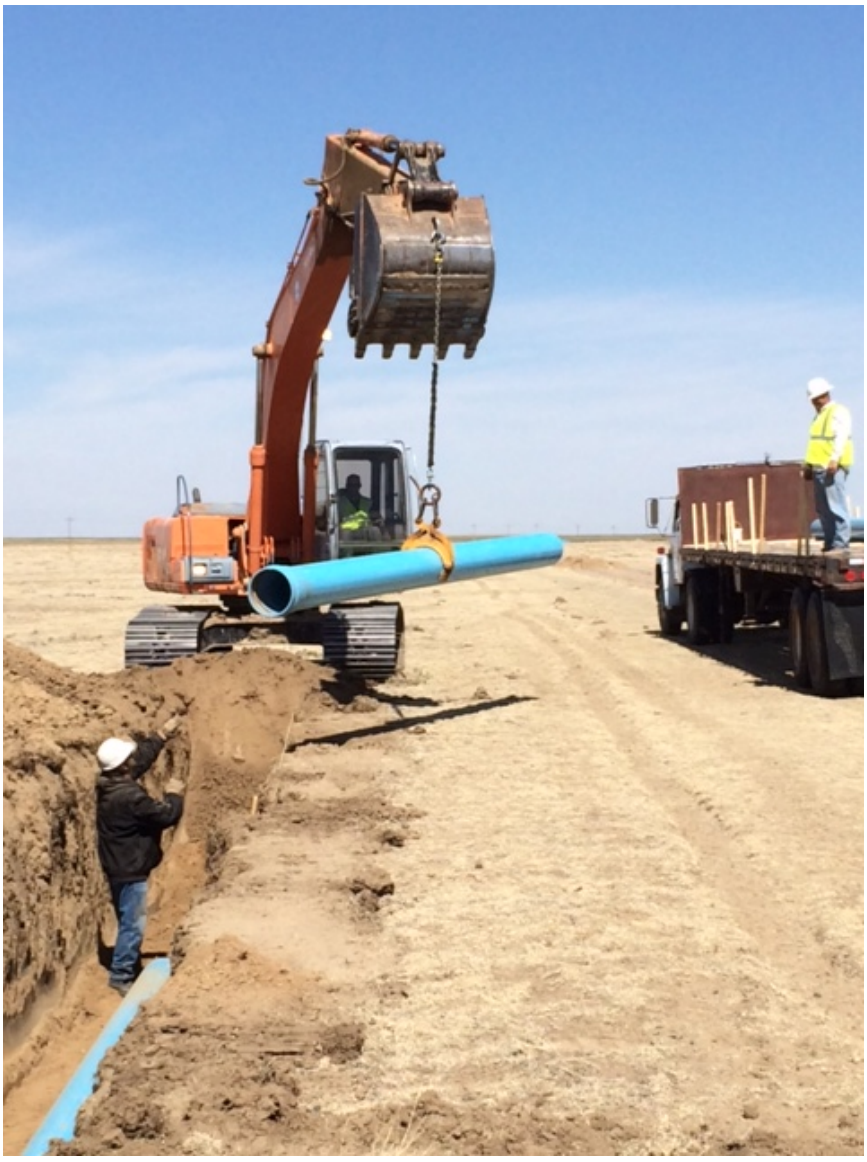
City of Lamar Transmission Line



Final Report

Introduction

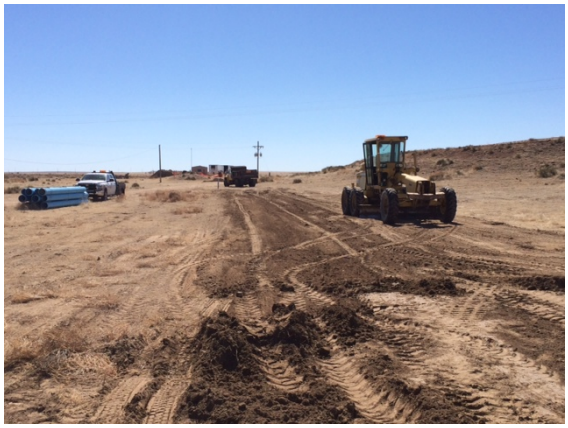
Honeywell helped the City of Lamar replace +/- 34,190 feet of 14” cast iron well transmission piping installed in the 1930’s. The pipeline has been repaired in many locations, is leaking, has tuberculation, and has outlived its service life. The existing pipeline is installed on open ranch land and crosses two county maintained dirt roads.

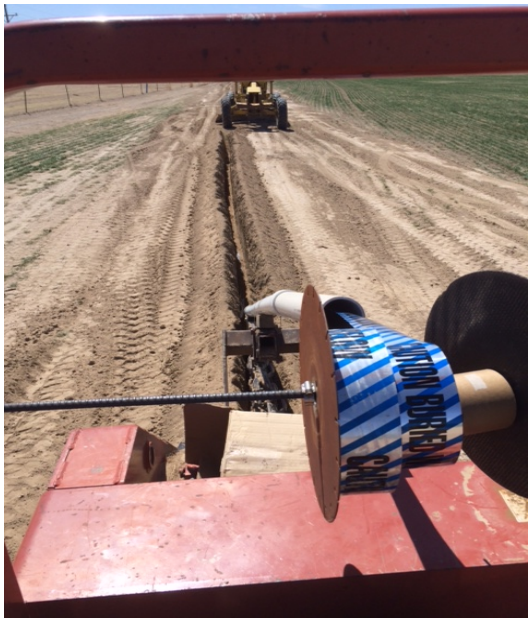
Construction

The project was completed on time, totaling 6 months from ground breaking to the completion of the punch list. Carrigan Excavating, the subcontractor, was able to keep the project on schedule even with dealing with wind/sand storms without sacrificing their quality of work.

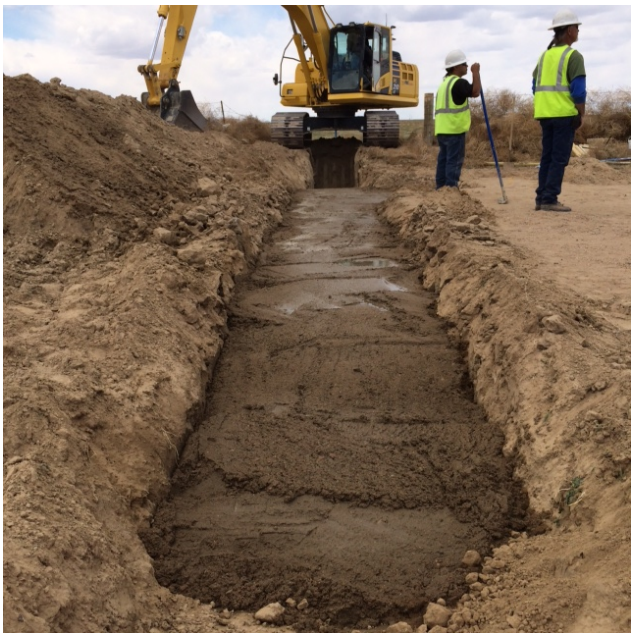
Carrigan Excavating completed the 12” DR25 PVC pipe installation and 16” DR25 PVC pipe. The subcontractor needed to install 550’ of 12” DR18 PVC pipe due to a fatal tractor-trailer accident that compromised an order of 12” DR25 pipe. Justin Rundle (Honeywell’s Engineer), Andrew Sparn (JVA’s Engineer), Josh Cichocki (Lamar’s Water/Waste Water Director) and John Sutherland (Lamar Mayor) all agreed with the substitution of DR18 pipe to complete project.

All Compaction tests have met the design specifications. Before any compaction tests were performed, tracer tape was trench in above the pipeline. Carrigan Excavating properly coordinated with a geological surveyor throughout the installation to insure we keep accurate GPS coordinates of the pipeline.

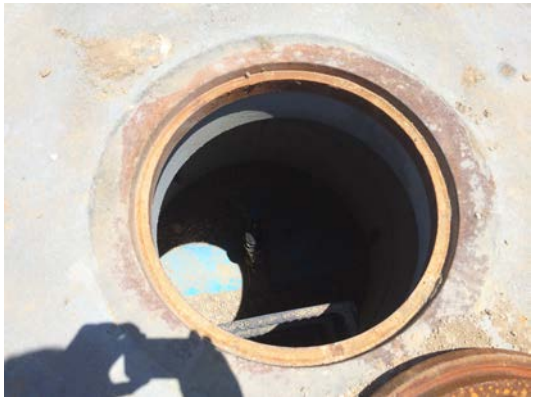




All road crossings that Carrigan Excavating has crossed has been secured with flow fill, per CDOT standards. Once the flow fill had time to set and cure, CDOT road base was installed and compact tests were performed.



Carrigan Excavating has tied into both pump stations (1 and 2), performed a pipeline pressure test, disinfected per AWWA standards, flushed the line and pulled/passed the bacteriological test. A flow meter was installed and wired into pump station 2's SCADA panel. This information is monitored by the front end SCADA network located in the Water Department.



The As-Built drawings, additional photos and the savings calculations can be found at the following dropbox link:

https://www.dropbox.com/sh/b1o3s8kgmzbe9on/AAC2UZaeAcuugFHMQRMgViCra?dl=0