



UTILITY INFRASTRUCTURE REPAIRS

FORT RILEY, KANSAS

U.S. ARMY CORPS OF ENGINEERS

BUILDING STRONG



Kansas City District was construction agent for three primary utility infrastructure repair projects in 2012 at Fort Riley, Kansas. The projects included sanitary sewer system, natural gas distribution system and high voltage electrical distribution system repairs.

The utility infrastructure repair projects consisted of preparing design-build Requests for Proposal (RFPs) and awarding construction contracts for all three utility types prior to the end of fiscal year 2012.

Preparation of the sanitary sewer system RFP required an intensive investigation and evaluation of various areas of the system to identify and prioritize repair areas. The repair project consisted of point repairs, pipe lining, new sewer installation, manhole rehabilitation and replacement and lift station repair and replacement.

The Electric Line repair project focused on replacing overhead 12.47 kV and 34.5 kV lines underground and will significantly reduce maintenance costs and outages. The project also provided new manholes, switches and street lighting. Approximately four miles of overhead electric lines were replaced.

The natural gas line repairs replaced steel distribution lines with High-density polyethylene (HDPE) pipe. New pipe varied in size from 4" – 16". It allowed the segregation and metering of portions of military family housing on post and ensured adequate and safe supplies of natural gas to Custer Hill and various family housing areas on the installation.

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Key Messages	Facts & Figures
<ul style="list-style-type: none"> ● Approximately four miles of overhead electric lines replaced with underground lines ● Significant sanitary sewer infiltration and inflow problem dramatically reduced ● Natural gas line repairs and upgrades addressed shortfalls during heating months and dramatically improved efficiency and safety of the system ● Dramatically reduced maintenance requirements for the installation 	<ul style="list-style-type: none"> ● Project constructed on time ● ~ \$3M cost for sanitary sewer repairs ● ~ \$10M cost for electric line repairs ● ~ \$6M cost for natural gas line repairs

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August 2013