



DATA CENTER

FORT LEONARD WOOD, MISSOURI

U.S. ARMY CORPS OF ENGINEERS

BUILDING STRONG



The Kansas City District was the design manager and construction administrator for a new Data Center at Fort Leonard Wood, Missouri. The project included design and construction of a 36,400 sq.ft. facility comprised of administration and data operations areas. The administration area includes an Executive Office Suite, reception area, administration work place, call center, computer drop off/repair, training room and a secure network work space. The data operations area includes a data server room, telephone switch room, uninterrupted power supply room, communications vault and backup generators. The facility incorporates several sustainable design features including the use of high efficiency mechanical systems and a dry agent fire suppression system to minimize damage to data and telecommunication equipment in the event of a fire.

Site work included integration of the existing data and communications lines, security fencing, controlled building access and relocation of a primary fiber optic and copper duct bank which is designed to protect and consolidate cables and carries 90% of the installation's communication lines. The design also incorporates several low impact development features including underground stormwater retention.

The Data Center serves as the primary switch for all data and communication transmissions and serves as the processing hub for Fort Leonard Wood. The critical nature of this facility required close coordination with the Fort Leonard Wood Network Enterprise Command, the Information Systems Engineering Command and installation security and information assurance officials. Communication outages for fiber and copper cut-over required close coordination with the installation emergency operations center.



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Key Messages	Facts & Figures
<ul style="list-style-type: none"> ● Project management of the design and construction contract administration was led by the Kansas City District ● Complex design and construction with critical coordination required for scheduled communications/data outages ● Project provided updated, secure facilities that will accommodate all installation data and telecommunications equipment and supporting staff in one location ● Incorporates several low impact development and sustainable design features 	<ul style="list-style-type: none"> ● 36,400 sq.ft. facility ● Constructed on Time ● \$15.5 M project constructed within budget ● Achieved LEED Silver rating

U.S. ARMY CORPS OF ENGINEERS – Kansas City District, Northwestern Division

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