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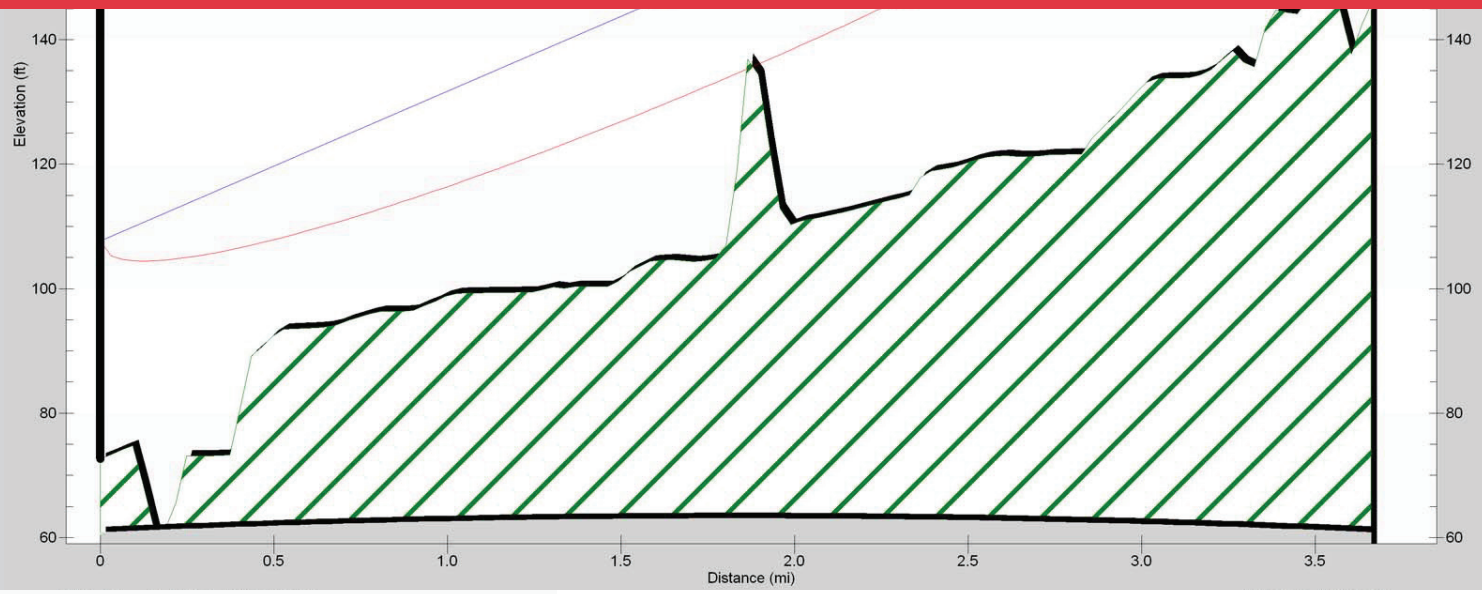
Radio Survey and Frequency Path Study



PROJECT DETAILS

Project Name
Radio Survey and Frequency Path Study

Location
Sacramento, CA

Project Type
Survey and Analysis of Radio Communications for Current and Future Integration

Installation
Data Gathering, Analysis, Recommendations

Equipment Installed
Temporary Server, Base station Mast & Radio, Various Hardware/Software Configurations

Network
Ethernet, 450MHz, 900MHz, 56Hz Radios

Total System Points
N/A

PROJECT DESCRIPTION

In our client's continuing effort to develop a more robust and advanced data control/management system, they needed an evaluation of communication methods between sites. Existing interaction between facilities has been implemented as sites have become operational with little regard to a communication scheme that will serve a complete system. Existing communication methods caused uncertainty and doubt at all locations, especially at locations that are merging data. Core performed a radio survey and frequency path study with several radio manufacturers for each site, consolidated its findings, and produced a Survey and Recommendations Report.

Core procured both hardware and the software required for the radio surveys from various radio manufacturers; configured a Local Area Network (LAN) and Data/Internet Server to allow data transfer and performance data to be visualized and recorded between radio installations; defined radio frequency behavior (ie radio/antenna placement, ancillary equipment locations, and antenna polarization/directional alignment, etc.); and validated coverage area.

Core followed up with a formal report detailing data throughput, signal strength, radio frequency path analysis, hardware/software types, quantities, and locations for each surveyed radio. The conclusion of the delivered report included detailed recommendations for implementation of a radio communication system with a long and robust future for each site.

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