

# COTTONWOOD STREET 138 kV UG TRANSMISSION

MURRAY CITY POWER  
MURRAY CITY, UTAH  
MR. CHARLES CRUTCHER

PROJECT COST: \$600,000  
COMPLETION DATE: 2004  
PHONE: (801) 264-2721

## PROJECT DESCRIPTION

ECI was retained by Murray City Power & Light to provide Owner's Representative Services for a new 138 kV underground transmission cable project in a busy municipal suburb of Salt Lake City, Utah. Placement of approximately 2000 feet of 138 kV double circuit transmission and double circuit 25 kV distribution underground was required as a consequence of a new interchange project plan by the Utah State of Department of Transportation.



After considering alternatives for traditional design versus Owner's Representative Services, Murray City determined that this underground project was well suited to a turn-key specification, and charged ECI with these duties. The work scope entailed development of a basic design for a small 138 kV switchstation containing overhead 138 kV air disconnect switches used to transfer between 138 kV transmission circuits, as well as complete underground specifications. ECI developed complete contract documents, technical specifications for materials, specifications and quality control standards for cable placement, general requirements for duct bank, requirements for cable pulling, as well as a myriad of other technical standards to protect the interest of Murray City Power. Services also included complete GPS survey grade plan and profile documents to insure accurate construction specifications were provided to design-build contractors.



Owner's Representative Services furnished by ECI insured that only high quality, long-life solid dielectric cable systems installed by experienced providers would be considered.

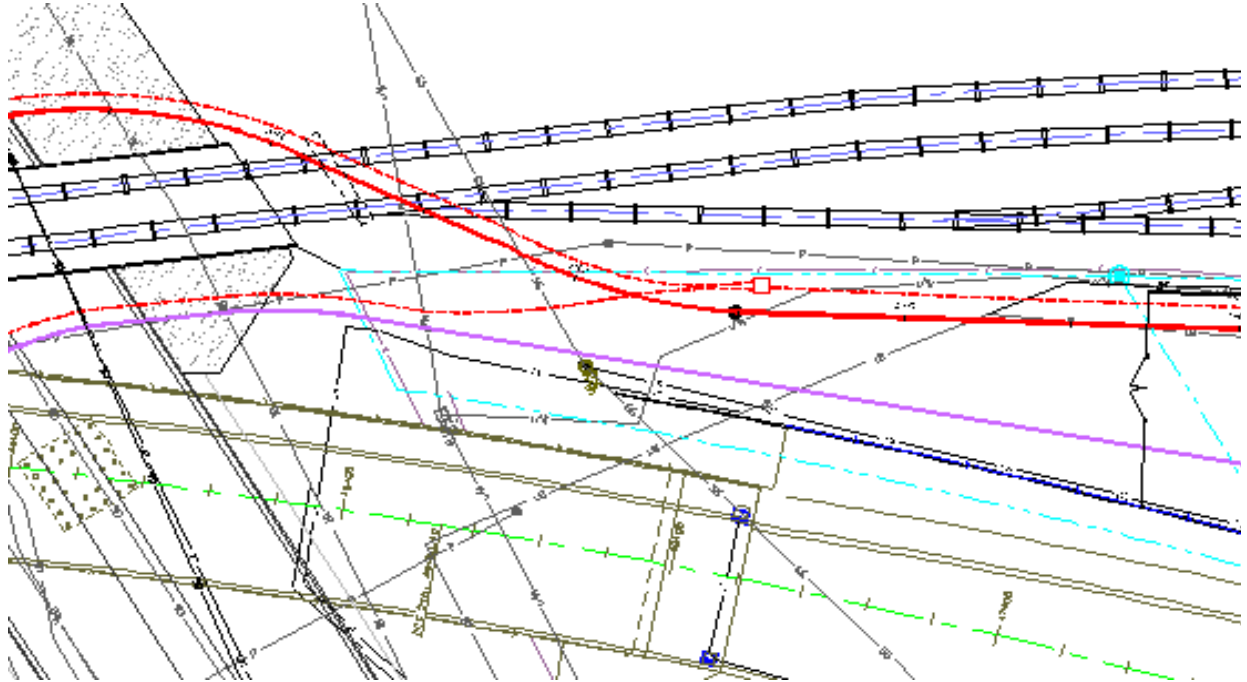
Work was completed in an exceptionally short 8-week time frame in order to meet the requirements of the DOT for bidding.

◆ *Engineering With Distinction* ◆

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## KEY FACTS & HIGHLIGHTS

- ◆ COMPLETE FIELD SURVEY AND PROJECT LAYOUT
- ◆ DUCT BANK SPECIFICATION
- ◆ DOUBLE CIRCUIT 138 kV CABLE SPECIFICATION
- ◆ OEM SUPPLIER AND TURN-KEY CONTRACTOR SPECIFICATIONS
- ◆ QUALITY CONTROL STANDARDS