

PROJECT DESCRIPTION

ECI was employed by Sierra Pacific Power Company (SPPC) and their environmental subconsultant to perform independent assessments, technical feasibility and cost estimating for new 120 kV transmission and associated substation facilities proposed in the Reno, Nevada area. ECI's responsibility under our first engagement in 2002 involved verification of the distribution planning process performed by SPPC that resulted in the purported need for new 120 kV delivery into the Spanish Springs area. Work involved preparation of distribution load flow and voltage drop studies that



concluded transmission reinforcement was necessary.

ECI's second engagement in 2003 involved detailed cost estimating to determine the cost-benefit relationship between overhead and underground construction at 120 kV system voltage. Additionally, services were performed to evaluate the existing system load center based upon projected growth scenarios used in siting of the proposed Sugarloaf Substation. ECI prepared GIS exhibits and maps to illustrate load densities, location of transmission and substation facilities, along with evaluation of the technical feasibility and constructability of transmission in the alternate corridors as proposed.



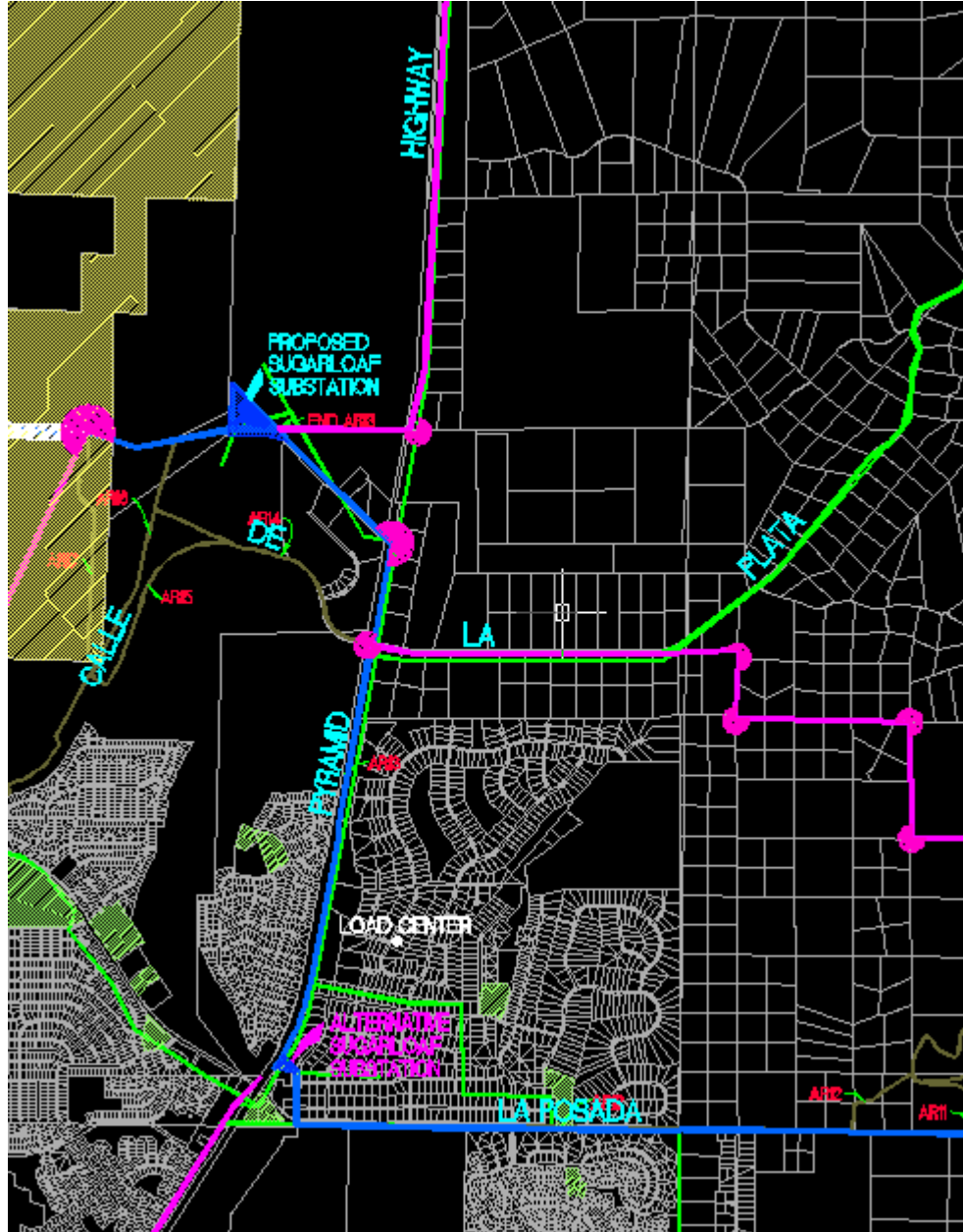
KEY FACTS & HIGHLIGHTS

- ◆ EVALUATED LOAD CENTERS USING GIS MAPPING TECHNIQUES
- ◆ DETAILED 120 kV U.G. TRANSMISSION ESTIMATES

SIERRA PACIFIC SPANISH SPRINGS EIS SUPPORT

SIERRA PACIFIC POWER COMPANY
RENO, NEVADA

PROJECT COST: \$30,000 (FEE)
COMPLETION DATE: 2003



Sugarloaf Substation