

County of Ventura

Telegraph Road Bridge Replacement



CLIENT CONTACT

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PROJECT STATISTICS

Owner County of Ventura

Dates 2007-2010

Value of Services \$375k

Construction Costs \$2.5M

SERVICES PROVIDED

Civil Engineering

- Preliminary and Final PS&Es

Land Surveying

- ROW Engineering
- Topographic Mapping

PROJECT ELEMENTS

- bridge
- Caltrans
- concrete box girder
- drainage
- environmental issues
- hydraulics
- hydrology
- multi-beam
- permitting
- pre-cast
- pre-stressed
- single span
- widening

PROJECT OVERVIEW

This \$2.5M project consisted of replacing an existing scour-critical bridge with a new pre-cast, pre-stressed concrete box girder bridge. MNS established the Right of Way (ROW) along the existing road and bridge by researching existing record documents and locating record monuments in the field.

MNS provided topographic locations of all existing improvements in the zone of influence for the design effort. We compiled the field data and provided a surface that was used in the design effort. Work also included analysis of barranca flows for drainage and bridge design impact.

MNS design services, including hydraulic analysis, preparation of all environmental documents necessary for CEQA/NEPA clearance and permits

from regulatory agencies, PS&E for bridge design, and traffic control plans, as well as geotechnical investigation.

Design was based on the Caltrans Highway Design Manual, Bridge Design Specifications, Seismic Design Criteria, and other engineering service manuals. The drainage design included the regrading of the barranca and the use of rock slope protection (RSP) for creek bank protection.

MNS also provided additional ROW engineering to identify additional ROW that the city would need to acquire for the construction of the bridge replacement. County standards and details were incorporated into the project as appropriate.

Bridge construction was completed in December 2011, one month ahead of schedule.

