

# Warm Springs Road Culvert Replacement

Client – Otis Bay Ecological Consultants

Owner – Clark County



The project is expected to consist of a culvert replacement on Warm Springs Road west of Highway 168 in Moapa, Nevada. The existing culvert is in poor condition and requires replacement, which will include the rebuilding of the roadway at the location of the culvert. The replacement culvert is expected to consist of a 3 foot by 6 foot precast concrete box culvert crossing under the existing roadway, approximately 60 feet in width. Loads associated with the proposed box culvert are expected to be relatively light, and the net bearing pressure is not expected to exceed 1500 psf. The design of the box culvert will meet the specifications set forth by the Clark County Public Works Department and the Clark County Regional Flood Control District.

The scope of services associated with this project will consist of field exploration, laboratory testing and preparation of a report to summarize the subsurface conditions encountered and present recommendations for subgrade preparation, earthwork procedures and concrete mix design criteria. The field exploration is expected to consist of 4 borings to depths of 10 and 15 feet, with bulk samples obtained at the surface and ring samples obtained at 5 foot maximum intervals. The laboratory testing is expected to consist of gradation, Atterberg limits testing, swell, dry density and moisture content, chemical tests and R-Value testing. The report will also present recommendations for an asphaltic concrete pavement section to replace paving over the new box culvert. The report will also present design criteria for the civil engineer to specify the proper type and thickness of box culvert.