## WHELEN BRIDGE

PROJECT DESCRIPTION

CONSTRUCT A BRIDGE OVER A CREEK
TO REPLACE AN EXISTING BRIDGE THAT
WAS DETERIORATING AND WASHING
OUT.

PROJECT LOCATION
ATASCADERO, CA

STRUCTURAL ENGINEER

MATRIX CONSULTING ENGINEERS

SAN LUIS OBISPO, CA

<u>GEOTECHNICAL ENGINEER</u> MID COAST GEOTECHNICAL ATASCADERO, CA

INSTALLATION CONTRACTOR

J.R. SPENCER CONSTRUCTION

SAN LUIS OBISPO, CA

## **PROBLEM**

THIS SOILS REPORT INDICATED
GROUND WATER AT 8 FEET BELOW
GRADE AND POOR SOILS DOWN TO 40
FEET. THE HIGH WATER TABLE AND
WEAK SOILS WOULD REQUIRE
CAISSONS TO BE SLEEVED. SPOILS
FROM DRILLING CAISSONS WERE ALSO
A CONCERN DUE TO THE STEELHEAD
TROUT IN THE CREEK. DRIVEN PILES
WERE NOT A COST EFFECTIVE
SOLUTION BECAUSE OF THE SMALL
SIZE OF THE PROJECT.

## SOLUTION

J.R. SPENCER CONSTRUCTION INSTALLED 6 MACLEAN-DIXIE 8" COMPOSITE HELICAL PIPE PILES TO A DEPTH OF 45 FEET. EACH PILE HAD A LOAD CAPACITY OF 100 KIPS.

## COMMENTS

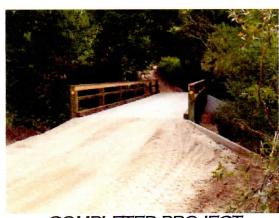
MACLEAN-DIXIE 8" COMPOSITE
HELICAL PIPE PILES WERE A COST
EFFECTIVE SOLUTION AND AN
EXCELLENT CHOICE WHEN WORKING
ON THIS ENVIRONMENTALLY SENSITIVE
PROJECT.



POSITIONING THE 8" CHPP



INSTALLATION OF THE 8" CHPP



COMPLETED PROJECT