

AVILA BEACH CIVIC CENTER

PROJECT DESCRIPTION:

CONSTRUCT AN ADA COMPLIANT ELEVATOR, A STAIR TOWER AND A SECOND FLOOR DECK.

PROJECT LOCATION:

AVILA BEACH, CA

STRUCTURAL ENGINEER

ASHLEY & VANCE ENGINEERING INC.
ATASCADERO, CA

GEOTECHNICAL ENGINEER

EARTH SYSTEMS PACIFIC
SAN LUIS OBISPO, CA

INSTALLATION CONTRACTOR

J.R. SPENCER CONSTRUCTION
SAN LUIS OBISPO, CA

PROBLEM:

THE SOILS REPORT INDICATED POTENTIALLY LIQUEFIABLE SOILS TO A DEPTH OF 40 FEET. GROUND WATER WAS ENCOUNTERED 3 FEET BELOW GRADE. THE HIGH WATER TABLE AND WEAK SOILS WOULD REQUIRE CAISSONS TO BE SLEEVED AND WOULD BE COST PROHIBITIVE. DRIVEN PILES COULD NOT BE INSTALLED BECAUSE OF THE VIBRATION THAT WOULD BE INDUCED ON THE ADJACENT BUILDING.

SOLUTION:

J.R. SPENCER CONSTRUCTION INSTALLED 8 MACLEAN-DIXIE 8" COMPOSITE HELICAL PIPE PILES TO A DEPTH OF 47 FEET. EACH PILE HAD A CAPACITY OF 45 KIPS.

COMMENTS:

MACLEAN-DIXIE 8" COMPOSITE HELICAL PIPE PILES WERE A COST EFFECTIVE SOLUTION. THEY ARE AN EXCELLENT CHOICE WHEN WORKING IN ADVERSE CONDITIONS AND SENSITIVE AREAS.



POSITIONING THE 8" CHPP



INSTALLATION OF THE 8" CHPP



COMPLETED PROJECT