

JUVENILE SERVICES CENTER

PROJECT DESCRIPTION

CONSTRUCT AN ADDITION TO THE EXISTING BUILDING INCLUDING A SALLYPORT.

PROJECT LOCATION

SAN LUIS OBISPO, CA

STRUCTURAL ENGINEER

LAMPMAN & SMITH

SAN LUIS OBISPO, CA

GEOTECHNICAL ENGINEER

GSI SOILS INC.

SAN LUIS OBISPO, CA

INSTALLATION CONTRACTOR

J.R. SPENCER CONSTRUCTION

SAN LUIS OBISPO, CA

PROBLEM

THE EXISTING BUILDING HAD TO REMAIN OPEN AND COURT SESSIONS COULD NOT BE INTERRUPTED. THE EXISTING BUILDING WAS CONSTRUCTED ON DRIVEN WOOD PILES, SO THE ADDITION HAD TO BE SUPPORTED ON A SIMILAR FOUNDATION. MULTIPLE UTILITIES AND SECURITY SYSTEMS HAD TO REMAIN IN SERVICE DURING CONSTRUCTION. THE SOILS REPORT INDICATED GROUND WATER AT A DEPTH OF 8 FEET BELOW GRADE AND GOOD BEARING SOIL AT 25 FEET. DRIVEN PILES COULD NOT BE INSTALLED BECAUSE OF THE VIBRATION THAT WOULD BE INDUCED ON THE ADJACENT BUILDING. THE HIGH WATER TABLE AND WEAK SOILS WOULD REQUIRE CAISSONS TO BE SLEEVED AND WOULD BE COST PROHIBITIVE.

SOLUTION

J.R. SPENCER CONSTRUCTION INSTALLED 40 MACLEAN-DIXIE 8" COMPOSITE HELICAL PIPE PILES TO A DEPTH OF 30 FEET. EACH PILE HAD A LOAD CAPACITY OF 50 KIPS.



POSITIONING THE 8" CHPP



INSTALLATION OF THE 8" CHPP

COMMENTS

MACLEAN-DIXIE 8" COMPOSITE HELICAL PIPE PILES WERE A COST EFFECTIVE SOLUTION. THEY ARE AN EXCELLENT CHOICE WHEN WORKING IN LIMITED ACCESS AND SENSITIVE AREAS. THE COMPOSITE HELICAL PIPE PILES WERE INSTALLED WITH NO VIBRATION, MINIMAL NOISE AND WITHOUT INTERRUPTING UTILITIES OR SECURITY SYSTEMS.



CLOSE PROXIMITY INSTALLATION



INSTALLATION AROUND UTILITIES



INSTALLED PILES



INSTALLATION AROUND UTILITIES



COMPLETED PROJECT