



RAM JACK

CASE STUDY

EMERGENCY CALL BOX SUPPORTED WITH **HELICAL PILES**

Ram Jack Hastens Installation of Emergency Call Boxes on
the University of California San Diego Campus

PLUS

INSTALLATION OVERVIEW

Get more info on the ins-and-outs of Ram Jack products used.

ENGINEER RESOURCES

Find the back page of this case study for more information on engineer resources.

RAM JACK PACIFIC

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El Cajon, CA



Emergency Call Boxes Supported

San Diego, California

The University of California San Diego contacted CASE Systems, Inc., to install emergency call box systems in strategic places on their sprawling campus near the Pacific Ocean. Due to the considerable size of the campus and the high foot traffic, CASE needed an accelerated and more conducive way of installing these boxes, rather than the traditional installation of caisson footings. CASE previously worked with Ram Jack Texas. Ram Jack Texas consulted with Ram Jack Pacific to find a solution for the installations in San Diego.

PROBLEM

CASE Systems Inc., a wireless emergency call box manufacturer, produces emergency call box systems for university campuses, public roads, and transit stations. The University of California San Diego requested a system of call boxes in various locations on their considerable campus. The UCSD campus occupies 2,141 acres of land near the coast of the Pacific Ocean, with the sprawling main campus resting on approximately 1,152 acres. Due to the substantial size of the campus, CASE decided it would be prudent to forgo the traditional installation

of caisson footings and to find a more expedient alternative to the installation of the call boxes.

PROPOSED SOLUTION

Case Systems Inc. and Ram Jack engineers worked together and proposed to design a custom helical mount. This mount could be driven rapidly into soil to provide a sturdy base for the call system. The mount is four feet long with a single helical disc on the bottom. Additionally, the helical mount has a square transfer plate on the top with a mounting plate attached for leveling, as well as a free-spinning three-



fin collar just below the transfer plate. This will be pulled into the soil by the helical plate to provide lateral stability.

OUTCOME

Ram Jack Pacific installed eight helical mounts in segmented sections across the university campus. The helical mount proved to be an excellent solution for the logistics and abbreviated timeline of the project. Ram Jack's solution of the helical mount allowed CASE to quickly install the emergency call boxes without the need to wait for concrete to dry and reduced trip hazards during the construction phase. Ram Jack and CASE were able to install each mount, then install and program each call box in a maximum of 45 minutes per station. Ram Jack Pacific allowed UCSD to receive their wireless emergency call boxes in an expedient manner.



INSTALLATION OVERVIEW

Commercial Installation

Ram Jack Pacific

Products Used

2 7/8" Helical Piles

Product Type

New Construction - Helical

Typical Applications

Ram Jack's helical lead sections can be used in either tension or compression



Custom Engineered Solutions Rooted in Quality.



CCMC RECOGNIZED

ISO
9001:2015
CERTIFIED



ICC-ES RECOGNIZED

At Ram Jack®, we are focused on providing custom-engineered solutions that meet the unique needs of our commercial clients. You can move forward with confidence knowing we maintain code compliance, providing piles and brackets that reach the highest rating among competitors' products recognized by ESR-1854. Our company has the most products recognized by the ICC and boast an ISO 9001:2015 certified manufacturing facility.

We have the facility to design and fabricate custom products—we are the one-stop solution for engineers and even offer our own in-house engineers for assistance with your project. If you need assistance with foundation designs, we also provide engineer tools and resources and our engineers can work with the project's EOR to develop a custom-designed solution.

Everything an Engineer Needs

The Ram Jack Technical Manual provides engineers with the information that you will need to understand, design, and specify Ram Jack's helical and driven piles. It also provides information verifying compliance with current building codes and ICC-approved acceptance criteria.

Everything an engineer could ever want and need to know about Ram Jack Helicals and Driven Piles in one book. If you or your firm would be interested in a Ram Jack Technical Manual, please contact your local Ram Jack dealer by emailing info@ramjack.com.

**DON'T DO IT TWICE.
DO IT RIGHT.**

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