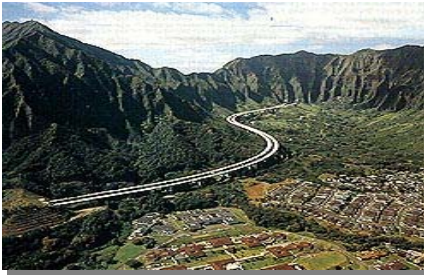


LOADTEST

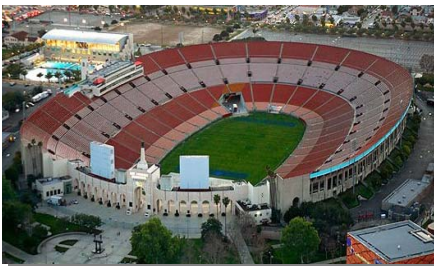
Mega Project Foundations Using O-Cell® Technology



Interstate H-3, Hawaii
source: www.tfhr.gov



The Big Dig, Boston, MA



Los Angeles Memorial Coliseum
source: worldstadiums.com



Miller Park
Source: panoramio.com



Athabasca Tar Sands – Syncrude Project

INTRODUCTION

The O-cell method for testing the foundation capacity of large capacity foundations provides numerous advantages over conventional top-loading tests. As the technology for drilled shafts/piles develops and larger loads are demanded from each foundation element, the need to verify these design capacities is increased.

These photos represent some of the world class “mega-projects” that have successfully used our O-cell technology to test their foundation elements.

ADVANTAGES

A key benefit of using bi-directional testing is the elimination of additional anchor piles or reaction systems. The O-cell method allows one portion of the pile to react against the other during loading. In ground conditions where the end bearing may be comparable or greater than the friction, the O-cell may be located at the bottom of the pile and the test will measure end bearing and friction, directly and independently. The O-cell method is particularly advantageous in congested areas or over water. The O-cell method allows for test piles to be subsequently integrated into the structure as a working pile.

APPLICATIONS

The O-cell method is well suited for any size and capacity drilled shaft, pile, or barrette. Typical test loads applied with the O-cell method often exceed 50 MN and have reached levels greater than 200 MN for some structures.

1. **LA Coliseum**, Los Angeles CA
2. **Heathrow – Terminal 5**, London UK
3. **Athabasca Tar Sands**, Edmonton Alberta CAN
4. **“The Big Dig”**, Boston MA
5. **T-Rex**, Denver CO
6. **Interstate H-3**, Hawaii
7. **Singapore Supreme Court House**, Singapore
8. **Hyundai Plant**, Montgomery AL
9. **High Speed Rail**, Milan Italy
10. **MRT**, Singapore
11. **Central London Wharf Project**, London UK
12. **Newark Airport**, Newark NJ
13. **Miami International Airport**, Miami FL
14. **Cincinnati Airport**, Cincinnati OH
15. **Taiwan High Speed Rail**, Taiwan
16. **Miller Park Baseball Stadium**, Milwaukee, WI
17. **Capital Visitors Center**, Washington D.C.

