

LOADTEST, Inc.  
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*"Providing confidence in foundations through load testing around the world"*

LOADTEST • FALL 2002

**June 3rd-5th:**

*DFI 9th International Conference on Piling and Deep Foundations*, Nice, France  
 Jack Hayes and Tony Simmonds presenting paper co-authored with Tony Simmonds of Geokon, Inc.:  
**"Interpreting Strain Gage Measurements from Load Tests in Bored Piles"**

**July 24th-27th:**

*ADSC Summer Meeting*, Monterey, CA

**October 4th:**

*ASCE Colorado Regional 2002 Geotechnical Seminar*, Denver, Colorado  
 Dr. Jorj Osterberg presenting: **"Drilled Shaft Load Tests for T-REX Project"**

**October 9th-11th:**

*DFI Annual Meeting*, San Diego, CA  
 Dr. Jorj Osterberg presenting: **"Load Testing of High Capacity Drilled Shafts"**

NEW DOWNLOADS AVAILABLE:  
[WWW.LOADTEST.COM](http://WWW.LOADTEST.COM)

- Jack Hayes and Tony Simmonds: **"Interpreting Strain Gage Measurements from Load Tests in Bored Piles"**
- Jack Hayes article featured in May 2002 issue of *Foundation Drilling* magazine: **"ADSC - An Association of 'Drillers' or 'Manufacturers?'"**

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FALL 2002

# TELLTALES

## HAWAII - ALOHA!

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From highways to beachfronts, Loadtest Inc. and our patented O-cell™ technology is providing engineers, designers and contractors an economical method of testing drilled shafts throughout the Hawaiian islands.

Recent analysis of the **Hana** highway bridges has concluded that replacement of a number of bridges is in order. Engineers on replacement projects at **Uaoa Stream Bridge** and **Kaupakulua Stream Bridge**, used O-cell™ technology to confirm design values.

**Mr. Jung Kim** of **EHA** chose the O-cell™ test for testing his **1072 kip** design load shaft. **Malcolm Drilling** constructed the 48-inch diameter, 80-foot shaft. Mr. Kim was on site to observe as the O-cell™ applied a total load of **3752 kips** with a displacement of only 0.07 inches.

Engineers **Robin Lim** and **Gerald Sekii** of **Geolabs Hawaii** also turned to O-cell™ technology for their testing needs at the **Kaupakulua Stream Bridge**, a mere 2 miles away from Uaoa. Again the professionals from **Malcolm Drilling** were chosen to construct the 70-foot deep, 60-inch diameter test shaft for the west abutment. Staff Geologist **Nick Mitchell** observed as LTI applied a state record **10,658 kips** equivalent top load to the test shaft, indicating a unit side shear value of over **30 ksf** in the underlying basalt formation.

To the beach, and none better than **Waikiki Beach**, where **Jim Prentice** and the crew at **Hawaiian Dredging and Construction Company** installed an 80-foot dedicated test shaft for

a proposed low rise commercial building, literally a stones throw from the beach on **Kalakaua Ave.** **Robin Lim** and **Gerald Seki** from **Geolabs Hawaii** designed the test shaft to confirm design values for proposed 24-inch and 36-inch diameter production shafts. We loaded the test shaft to a combined top load capacity exceeding **1400 kips**. **Value engineering provided cost savings for the client** (using O-cell™ technology) as the shafts were shortened using data provided by the O-cell™ test.

Loadtest Inc. then headed to Windward Oahu, **Castle Medical Plaza** in Kailua. Drilling subcontractor **CMZ Hawaii** constructed a 38-inch diameter, 32-foot long test shaft, and representatives of the general contractor **Dick Pacific, Inc.**, as well as **Glen Barut** of **Geolabs Hawaii**, were on hand to observe the test. A 13-inch diameter O-cell™ was used to apply **438 kips** in a combined side shear and end-bearing load. Thanks also go out to **Mr. Ed Minkel** of **CMZ of Hawaii, Inc.**, and **Gary Moura** of **Dick Pacific Construction Co.** for their support on this project.



www.loadtest.com

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**JOB**



**STATS**

- Shaft Length
- Dimension
- Type (Drilled, etc)
- Type of O-cell method (single, multi, etc)
- Design load of shaft
- Misc.

Load Curve Chart

**KEY PERSONNEL**

- Contractor
- Client
- LT personnel
- Designers
- Misc.



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