TRIMBLE ANNOUNCES LAND-BASED
3D PILING APPLICATION

Piling contractors can now realize increased productivity
with Trimble 3D machine control

It was announced from Sunnyvale, California on 23rd July that Trimble had
introduced its DPS900 piling system, a dedicated, land-based 3D machine
control system for a variety of piling applications. Accuracy of the system is
said to allow piling contractors to increase operational efficiency and reduce
costs in the construction of building foundations, retaining walls, coffer dams,
and solar or wind farm installations.

Said Alan Sharp, business area director for Trimble Heavy Civil Construction,
“The DPS900 Piling System can transform the way piling contractors work.
Without it the process is manual and often error prone. With the DPS900
system, contractors can take advantage of accurate positioning and automated
reporting to ensure machines are being utilized efficiently.”

Safety, quality and control
The DPS900 piling system is said to reduce surveying costs associated with
staking and “as built” checks. In addition, the system is understood to be able to
increase on-site safety by reducing the number of people around machines,
pilings and foundations. Accurate positioning using the DPS900 system is
claimed to ensure navigation time between piles is reduced, resulting in
increased piling time to maximize production and revenue per day.

Built-in, automated quality assurance and quality control reporting includes
capture of start and end positions, time and elevation as well as actual
embedment depth, blow count reporting, and inclination and orientation control.
In addition, system logins allow managers to filter reports by operator for better
accountability, production and forecasting.

Business Center - HCE office software by Trimble is used to create pile plans in
the office, and allows for integration with data preparation, estimating and
reporting functions. Piling machines can be connected to the office using
Trimble’s Connected Site® programme for wireless data transfer and GNSS
corrections. In addition, machines can be tracked and monitored using the
company’s VisionLink® for pile driver location, hours operated and utilization
information.

The DPS900 piling system is supported and serviced by local SITECH®
technology dealers (currently representing the company in Australia, Europe,
North America, Chile and South Africa) whose expertise with Trimble 3D
machine control systems allows piling contractors to make a smooth transition to machine control such that downtime can be minimized.

About Trimble
Trimble’s Heavy Civil Construction Division employs a variety of technologies, including GPS, construction lasers, total stations, wireless data communications, the Internet and application software. Its applications concern positioning or location finding for the surveying, construction, agriculture, fleet and asset management, public safety and mapping industries. In addition to utilizing positioning technologies, such as GPS, lasers and optics Trimble, founded in 1978, provides software and wireless technologies.

Picture captions

1 - Trimble Piling Plan
2 - Trimble DPS 900 screenshot
3 - Trimble site tablet that runs the DPS 900 software in the piledriver’s cab
4 - Trimble Zephyr Model 2 rugged antenna