

## **Infrasense Performs Void Study using GPR in Lowell, Massachusetts**

*Infrasense, Inc. completed a ground penetrating radar (GPR) survey to find voids in an intersection in Lowell, MA*

Lowell, Ma ([PRWEB](#)) February 09, 2017 -- Infrasense, Inc., one of the leading subsurface detection firms in the nation, recently completed a ground penetrating radar (GPR) survey of an asphalt overlaid intersection in Lowell, Massachusetts. The objective of the survey was to locate voids and sinkholes in an area where a water line broke. GPR was the preferred method due to its ability to view the soil condition without requiring removal of the asphalt.

GPR data was collected every 2.5 feet transversely to cover the nearly 15,000 square foot survey area. Key areas were identified for further inspection.

Nondestructive evaluation (NDE) uses a number of techniques to determine potential issues with materials or structural properties, without causing damage to the structure being evaluated. Because these techniques can be applied to a wide range of structures without any adverse effects, they have become a powerful decision-making tool. The type of structure and the condition to be detected dictates what NDE techniques will be most useful in a condition assessment.

Ground penetrating radar (GPR) is an NDE technique that operates by transmitting short pulses of electromagnetic energy into the concrete, using a boxed antenna attached to a survey vehicle or rolled along the slab. These pulses are reflected back to the antenna providing a record of the properties and thicknesses of the layers within the slab. GPR has the ability to detect the depth and spacing of reinforcing steel, and the thickness of concrete slabs. It is able to detect subsurface deterioration of a slab through changes in the radar signal through the concrete. These results make GPR a useful tool in planning preventative maintenance and avoiding severe and costly structural issues down the road.

About Infrasense, Inc.

Since 1987, Infrasense, Inc. has applied state-of-the-art technologies to address the most difficult challenges in subsurface scanning. Infrasense's engineers are able to nondestructively extract critical information from a diverse range of structures. In addition to providing ongoing subsurface evaluation services to clients across the country, the firm has also conducted numerous research programs to advance the field of subsurface detection and non-destructive evaluation. To learn more about Infrasense and the services we provide, visit our website: <http://www.infrasense.com>

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