Infrasense Evaluates Condition of Stone Arch Bridge in Orange, Connecticut with Ground Penetrating Radar

Infrasense recently completed a non-destructive evaluation of a unique structure in Orange, CT. The objective of analyzing the 1600 s.f. stone arch bridge is to report thicknesses of all layers of pavement and rebar, and to identify and map areas of subsurface deterioration.

WOBURN, Mass. (PRWEB) January 02, 2019 -- In July of 2018, Infrasense mobilized a two-man team to perform a ground coupled GPR survey of the road surface on a stone arch bridge in Orange, CT. With the help of a traffic control unit and a local police officer, the condition survey was carried out during overnight hours with minimal disruption to traffic. The survey implemented a ground coupled 900-MHz antenna and SIR-4000 control unit manufactured by GSSI, Inc. of Nashua, NH. The antenna was maneuvered across the roadway surface of the bridge in a grid pattern and the data was taken back to the office for evaluation.

The results included tabular results of the asphalt cover thickness, rebar depth, and bottom of concrete depth by lane. Eight cores were extracted by a coring team to compare chloride content with the GPR results, which were found to correlate reasonably well. A color-coded plan view condition plot of the bridge with the concrete deterioration results found by GPR and coring was provided in the final report.

About Infrasense, Inc.
Since 1987, Infrasense, Inc. has applied advanced technologies to address the most difficult challenges in subsurface scanning. Infrasense's engineers 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 nondestructive evaluation. To learn more about Infrasense and the services we provide, visit our website, www.infrasense.com

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