



**GROUND
PENETRATING
RADAR
SYSTEMS, INC.**

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New Scope for GPR Application

Ground Penetrating Radar Systems was recently hired by Willow Creek Concrete Leveling, out of Wooster, Ohio, to help them determine the locations of voids underneath the city of Wooster's concrete streets. There is a recurring problem with sections of its streets collapsing and creating "potholes." Many of these streets are relatively new.

Willow Creek Concrete Leveling works with the city of Wooster to fix these potholes by pumping grout underneath the slabs once the slab begins to show signs of collapse. The problem that Willow Creek has is that there is no way of knowing what slabs are bad until there are signs of collapse.

It was the idea of Willow Creek's owners, Nathan Murphy and Ryan Snyder, to use GPRS to locate these voids underneath the slabs before the streets began to deteriorate.

GPRS scanned over the area of concern and the voids were located very easily. All of the streets were one lane in each direction, and the scans ran down the middle of each lane. This way, potential voids were detected on each side of the street. GPRS was able to perform scans several hundred feet long on 6 different streets in one day.

Ryan Snyder said, "We called GPRS with the idea of helping us provide a more cost-effective solution to the City of Wooster. The results were phenomenal as they were able to locate these voids very quickly, and it gave a very clear definition to the task ahead of us."

The greatest advantage GPRS is able to offer the City of Wooster and Willow Creek Concrete Leveling is the ability to be proactive and to fix their streets in advance before they become a problem.

GPRS is often hired to locate reinforcing and existing utilities inside of and underneath concrete slabs before saw cutting or core drilling. We now have the capability of imaging areas that we scan into a 3-D format for our customers.

GPRS has recently expanded as John Kessinger will be working out of Akron, Ohio. John can be reached at:

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Should You Add This New Technology to Your Specifications?

What is Ground Penetrating Radar?

Ground Penetrating Radar is a technology developed by geophysicists to help them locate valuable natural resources. By transmitting ultra wide band radio frequencies into the ground, geophysicists are able to detect anomalies that may represent oil, natural gas and other resources without the expense of drilling. Archaeologists use ground penetrating radar to explore historical sites. Use of ground penetrating radar gives them the ability to excavate areas that show the greatest promise.

Ground Penetrating Radar is proving to be a valuable tool in commercial construction. **This technology allows the contractor to precisely locate reinforcing, electrical conduit, water and sewer lines and voids in and below a concrete slab.** The radar is much safer than x-rays and can be done in structures without disturbing the occupants.

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