

Why?

One hit, while cutting or coring can cost you future work, project delays and much more. **CityScan** can reduce the chance of hits by up to 90%

How?

This technology allows the contractor to precisely locate reinforcing, electrical conduit, post tension cables, PVC pipes, and measure slab thickness. The radar is much safer than x-rays and can be done in structures without disturbing the occupants.



Ground Penetrating Radar is a Valuable Tool in Commercial Construction. It's a safe, Non-Destructive Method for Detecting Hidden Elements in Concrete.



To see what lies beneath, call CityScan Corp.

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- Map Rebar
- Locate Conduits/Pipes
- Locate Tension Cables
- Measure Slab Thickness
- Inspect Walls, Floors, Slabs
- Locate Targets Up to 18" Deep
- Faster and Safer than X-Ray
- Rapid On-Site Results
- Only Single-Sided Access Needed



CityScan Corp. is a structural scanning company using the most advanced and mobile, Ground Penetrating Radar (GPR) concrete scanning technology. Unlike X-Ray equipment which requires jobsite evacuation and access to both sides of a concrete structure, GPR is a non destructive concrete inspection system that can locate rebar, post tension cables, pipes, and conduit in concrete structures, slabs, floors, and walls. This technology is much safer than X-Rays and can be performed without disturbing areas or occupants of structures. Our GPR surveys provide real time results which identify potential problem areas immediately prior to drilling or cutting into concrete structures.

Damaging structural elements such as conduit, rebar, and post tension cable can be dangerous and costly, not to mention the expense of project delays. A GPR survey performed by CityScan can isolate hazards in your concrete and reduce the risk. Our services are routinely applied in hospitals, airports, universities, and numerous retail, residential, and industrial construction sites.



CityScan provides concrete scanning services for:

- Mapping rebar patterns
- Map and identify conduits and utility cables within concrete
- Measuring slab thickness
- Locating safe areas to core drill
- Locating safe areas to sawcut slab/wall openings
- Locating safe areas to drill for anchors
- Locating post tension cable

GPR is an acronym for Ground Penetrating Radar.

GPR equipment transmits and receives electromagnetic waves into the ground subsurface or other material and detects interfaces between differing materials. The interfaces between differing materials are identified by changes which occur in the electromagnetic waves. These changes can be voids, reinforcing bars, underground utilities (metal or plastic), conduits, or various other items. The antenna transmits and receives a high-frequency electromagnetic impulse into the study material and records the travel time and amplitude of these impulses. The GPR system records these deflections and digitally process them. Data output is typically read and interpreted by the use of a color video screen. The data can also be digitally recorded and downloaded to a computer for further processing and interpretation.



Benefits of using GPR:

GPR is a real-time NDT technique that quickly locates the position of post tension cables, rebar, and electrical conduits embedded in concrete, eliminating dangers associated with cutting or drilling and the high costs required for their repair if cut or damaged.

Accurate target location within a concrete slab on-grade, wall, or supported slab can be achieved more quickly, safely, and economically with GPR instead of other existing techniques.

GPR is a safer and less disruptive than X-Raying. GPR equipment is safe to use around people without any safety constraints or setup requirements. Because of these features, interruption of operations can be eliminated or minimized.

	X-RAY	GPR
Transmission	Gamma rays	HF Radio Waves
Radiation hazard	Yes	No
Evacuate people from area	Yes	No
License required	Yes	No
Persons required	More than one	One
Access to both sides	Yes	No
Slab on grade	No	Yes
Consumables	Radiation source, film	None
Single scan (start to finish)	Approx 60 minutes	Approx 15 minutes
Real-time results	No	Yes
Depth determination	With calculations	Yes
Large scan areas	Multiple exposures	Continuous scans



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