240-486-6734 | Specialist@ctacoredrill.com
www.ctacoredrill.com

Ground Penetrating Radar Advisory for Pan Decks

Ground-penetrating radar (GPR) utilizes radar pulses to create subsurface images, making it a crucial tool for various applications. Understanding its principles is essential, as its limitations are closely tied to scientific and technological advancements. For more information on GPR technology, visit www.ctacoredrill.com.

Pan deck slabs present challenges for conduit locating. Conduits may be obscured in low-lying troughs, making them difficult or impossible to detect with GPR. The metal pan inhibits GPR penetration, preventing the detection of steel beams, pipes, and ductwork beneath. Wire mesh and rebar within the concrete further complicate detection. Identifying PVC pipes is particularly challenging due to their non-metallic composition. Our technicians assess the pan's topography and recommend drilling in the thinnest ridge portion for optimal results. Additionally, we offer electromagnetic sensors (EM) at no extra cost for scanning pan decks, aiding in the identification of electrical currents. However, EM sensors cannot detect low-voltage pipes or conduits.

Suggestions to Minimize Risk:

- Examine electrical rooms to identify (if possible) conduits turning into the slab.
- Ask building engineers what pipes or hazards may be in the deck.
- Review structural drawings if available.

ADVISORY: Please note that all findings and interpretations are based on our technicians' expertise and the latest survey equipment. While we strive for accuracy, the nature of the technology means findings are not guaranteed, emphasizing the importance of providing as much information about the deck beforehand for optimal results.