

## RoadScan™

Gannett Fleming's Quantum Geophysics Division (Quantum) uses RoadScan to quickly determine pavement layer thickness and perform sub-base evaluations with data densities not obtainable by other labor-intensive methods. RoadScan is the most state-of-the-art and cutting-edge pavement analysis system available.

RoadScan is a non-destructive, high-speed ground penetrating radar (GPR) system that can continuously profile pavement and sub-base layer thicknesses at highway speeds. This eliminates the need for lane closures, providing a safe working environment.

The new two GHz horn antenna provides superior resolution allowing measurement of layers as thin as one inch. RoadScan can be integrated with commercially available truck-mounted Falling Weight Deflectometer (FWD) systems to collect and store pavement thickness at each FWD test location.

### RoadScan Benefits:

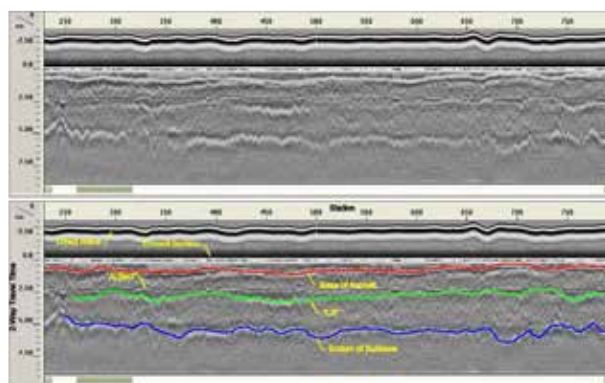
- Highway speed data collection eliminates the need or expense of traffic control
- GPR provides an effective tool for quickly determining pavement layer thickness
- Multi-channel data collection allows multiple antennas to be used simultaneously
- ASCII output files allow simple data transfer to other software programs
- Two GHz antenna provides superior data resolution for measuring lifts as thin as one inch.

Two GHz "Horn" Antenna



### Other Applications:

- Pavement thickness measurements
- Base and sub-base evaluations
- Bridge condition assessment
- Asphalt measurement available prior to milling operations
- Geo-textile performance testing
- Railroad substructure assessment
- Concrete cover assessment on new structures
- Concrete condition assessment, including asphalt overlaid concrete
- Balcony and parking structure assessment.



GPR Profile