

costly in terms of traffic control and personnel. The objective of this study was to evaluate the efficient with both known and unknown compositions in close collaboration between University of Rhode Island (URI), Roger Williams University (RWU) and RIDOT researchers. The results are currently being incorporated into RIDOT's GIS-based inventory of roads. The ultimate goal of this effort is to establish a system for collecting and viewing pavement layer thickness and moisture related damage on a pavement related projects.



Figures 3a/b: Data Collected with GSSI's SIR 30 and 3, 2GHz Antennas. Note: The antennas were setup to collect data from each vehicular wheel path and the center of the lane, at a rate of 1 scan per foot.



# Transportation Infrastructure Durability Center AT THE UNIVERSITY OF MAINE

**GPR and Capturing Such in a GIS-Based Inventory** Rhode Island Advisors: Nicole Martino and Christopher D.P. Baxter





Figures 7a/b/c: Interactive Maps Showing Core Locations, Asphalt Depth, and **Composite Sections** 



# Determining Layer Thickness and Understanding Moisture Related Damage of State-Owned Roads Using Franco, Pamela H., Pariseault, Andrew J., Martino, Nicole, Baxter, Christopher D.P., Civil and Environmental Engineering, University of

Infrastructure Durability Center at the University of Maine under grant 69A3551847101 from the U.S. Department of Transportation's University Transportation Centers Program and Rhode Island Department of Transportation.

November 2022 – www.tidc-utc.or