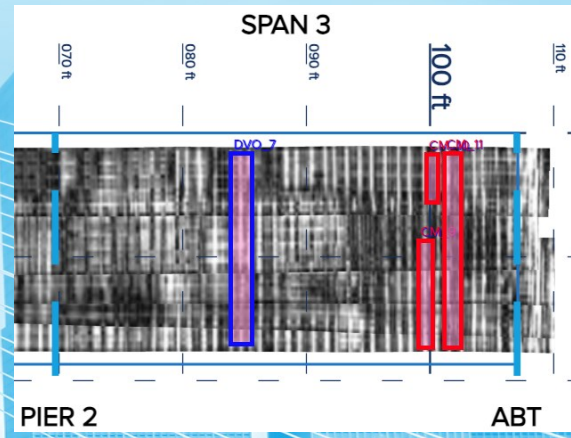# Hopewell, VA 2 Bridges and 1 Culvert

NEXCO WEST

Three target structures in close proximity were evaluated by mobile SF-GPR technology to determine rebar location and health. The data was firstly used to map the location of individual reinforcement bars, then to determine if any corrosion, high chloride content, or delamination was taking place.

When conducted at about 10mph, mobile SF-GPR acquisition yields data with very high resolution—comparable to that of push-cart type GPR sensors. This enables analysts to accurately observe rebar condition.

Project Details

Client	[Contractor in VA]
Reference	[withheld]
Surface Area	22,000 ft²
Project Period	Oct 2022 - Jan 2023

Impression

Little information about the structures' construction history was preserved, and it was therefore necessary to obtain information about the location and health of the reinforcement bars. GPR excels at confirming the condition (or on a more basic level, the existence) of subsurface features, making it a go-to technology for many structural owners who do not have a complete set of as-builts, construction notes, and so forth.