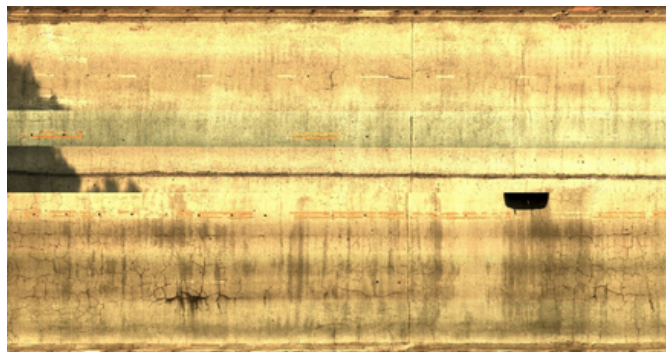


Historic Bridge Deck Replacement Evaluation

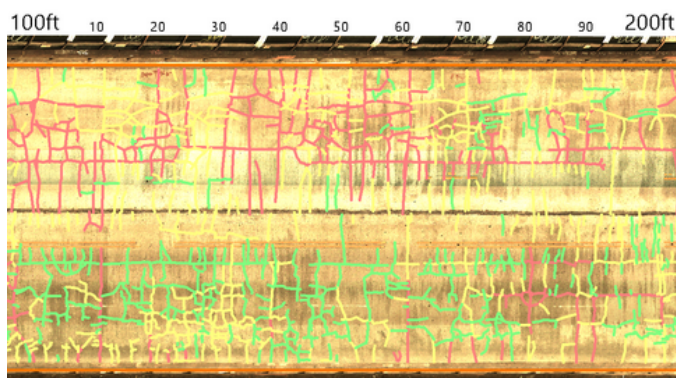
Washington D.C.

Within a half year's time, a replaced deck experienced significant cracking. Rather than quantify total crack lengths and widths by hand in the field, NEXCO was retained to scan the deck surface and perform crack mapping, as well as supplemental delamination detection via infrared.

Individual cracks were located and classified by AASHTO state condition level. Tables of findings clearly showed the total length of cracking which had progressed into CS2 and 3 levels.



Original image / HD Visual



Crack mapping result

Project Details

- Client : Engineering Contractor
- Reference : [withheld]
- Target Lengths: -
- Used Technologies: Deck Top Scanning System(Visual + Infrared)/Universal Surface Scanning System(Visual + Infrared)
- Project Period: November / 2024



Impression

The client was able to use this report and dataset to objectively report the condition of the deck to the bridge owner and justify next steps in repairs or reconstruction.

Because the bridge carried a busy route with high daily traffic, the vehicular scan helped reduce the duration of highly impactful lane closures.