

AN ADJACENT BOX BEAM BRIDGE

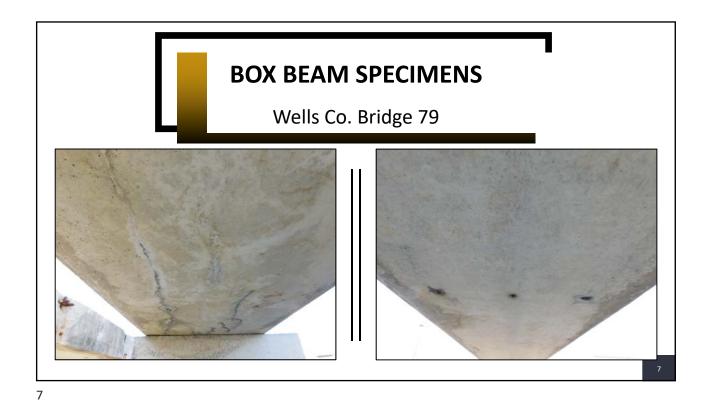
Box Girders
Shear Keys
Tie Rods
Wearing Surface

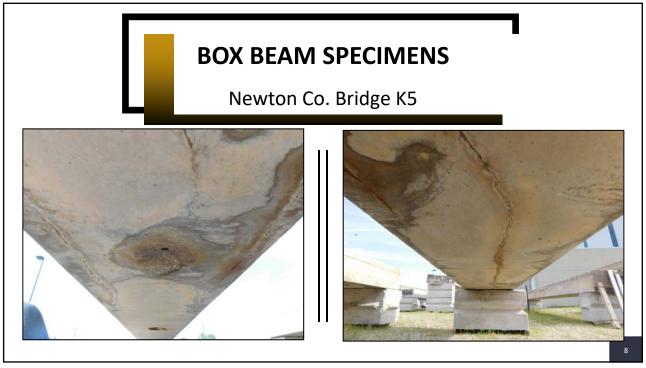


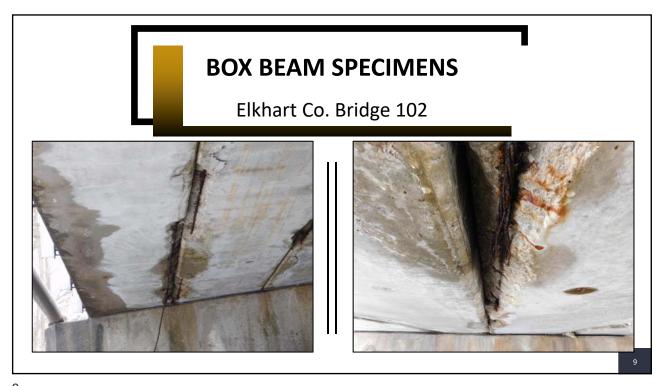














## **NON-DESTRUCTIVE EVALUATION (NDE)**



Ground Penetrating Radar (GPR)



Connectionless Electrical
Pulse Response Analysis
(CEPRA)



<u>Half-cell potential</u> <u>measurement</u>

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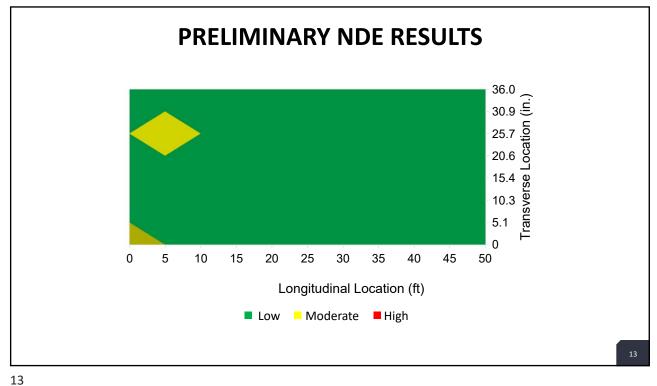
## **PRELIMINARY NDE RESULTS**

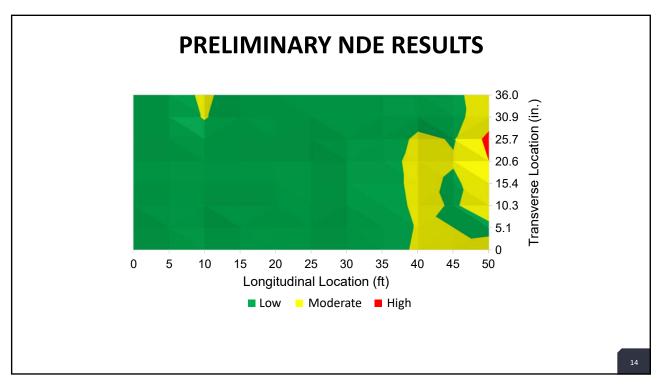


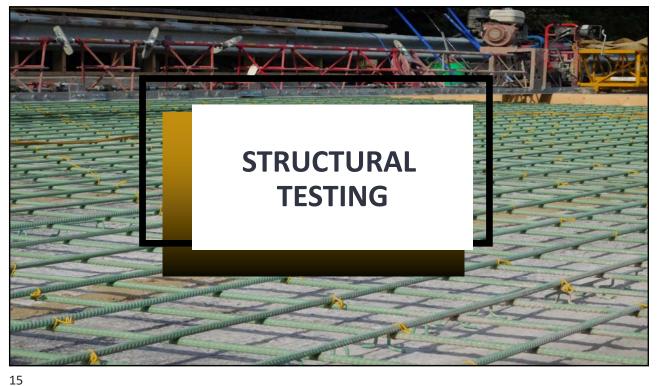


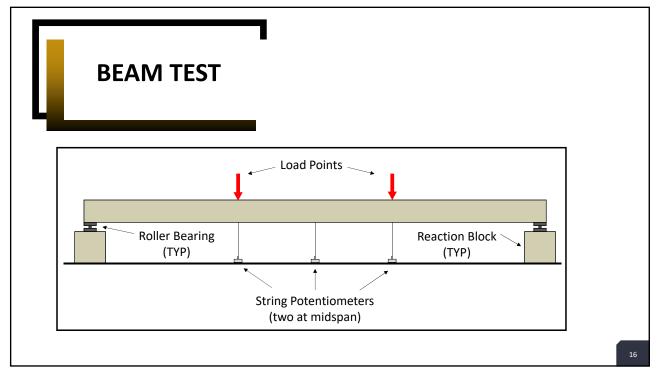
Specimen 409-1-ES

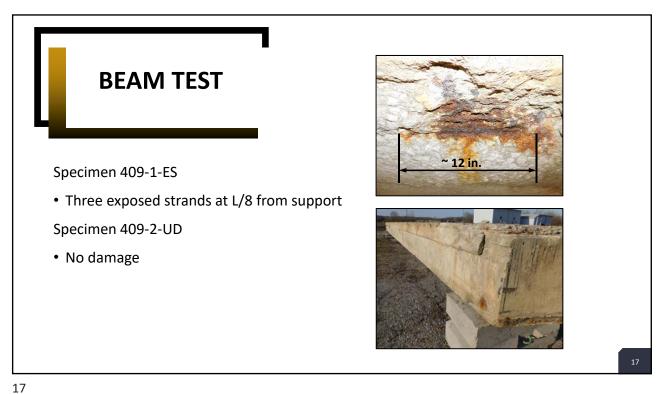
Span: 50' Depth: 29" Width: 36"

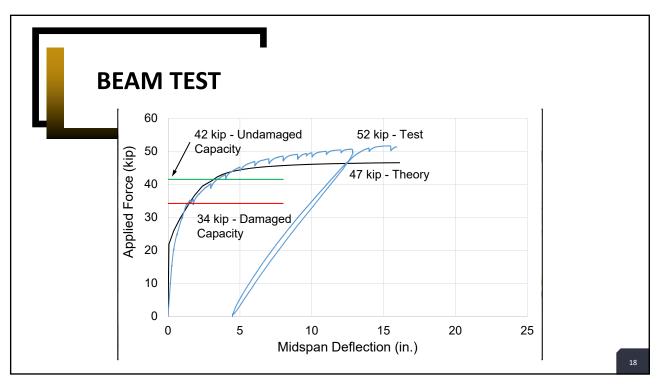


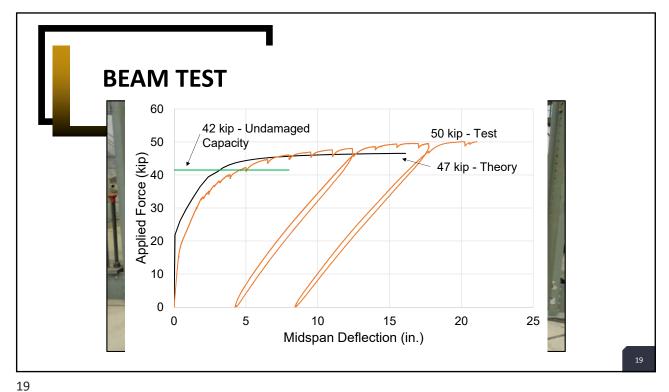


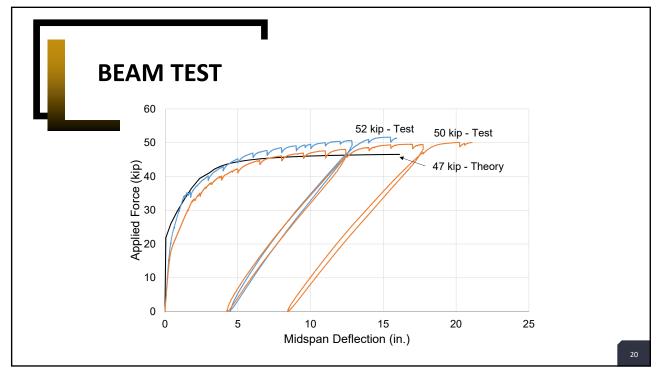


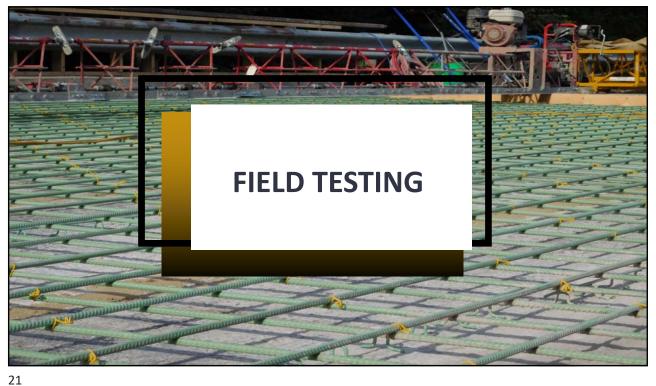








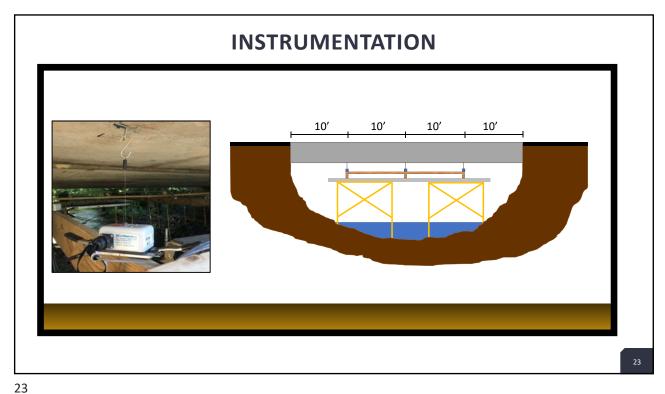




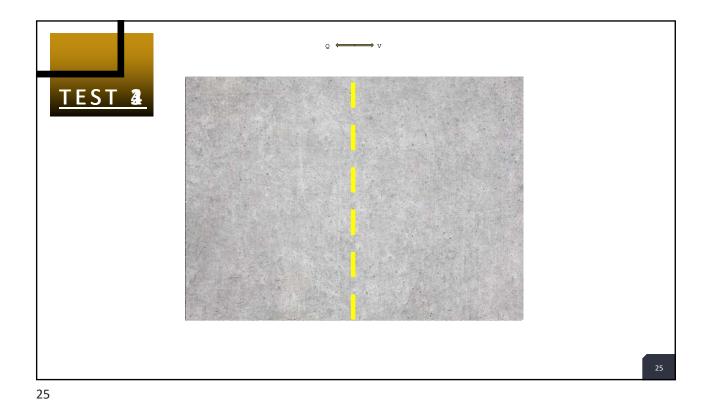




- Built: 1957
- Rehabilitated: 1993
- Span: 40 ft
- Beam Depth: 21 in.
- Beam Width: 45 in.
- 7 Beams









Bridge Deck Modifications

- Milling
- Shear Key Cutting
- Surface Preparation
- Bridge Deck Cast



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