

Bacon Street Bridge Replacement

Wellesley, MA

Public Meeting – June 3, 2020



* Steel shown in blue for clarity, actual color will be black

Meeting With You Today

- John Doherty – *MBTA Project Manager*
- Gary Orlando – *Project Manager (Barletta)*
- Bob Penfield – *Design Manager (VHB)*
- Andrew Burkholder – *Senior Engineer (VHB)*



Meeting Outline

- Full Project Overview
- Bacon Street Bridge
 - Site Location / Existing Conditions
 - Project Needs and Goals
 - Bridge Layout and Design
 - Construction Staging
 - Traffic Impacts during Construction
 - Project Schedule
- Additional Public Outreach
- Questions

H91CN01 - MBTA Rail Bridge Replacements Design-Build Project

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Intervale Road
Weston, MA



Bacon Street
Wellesley, MA



High Line
Somerville, MA



Lynn Fells Parkway
Melrose, MA



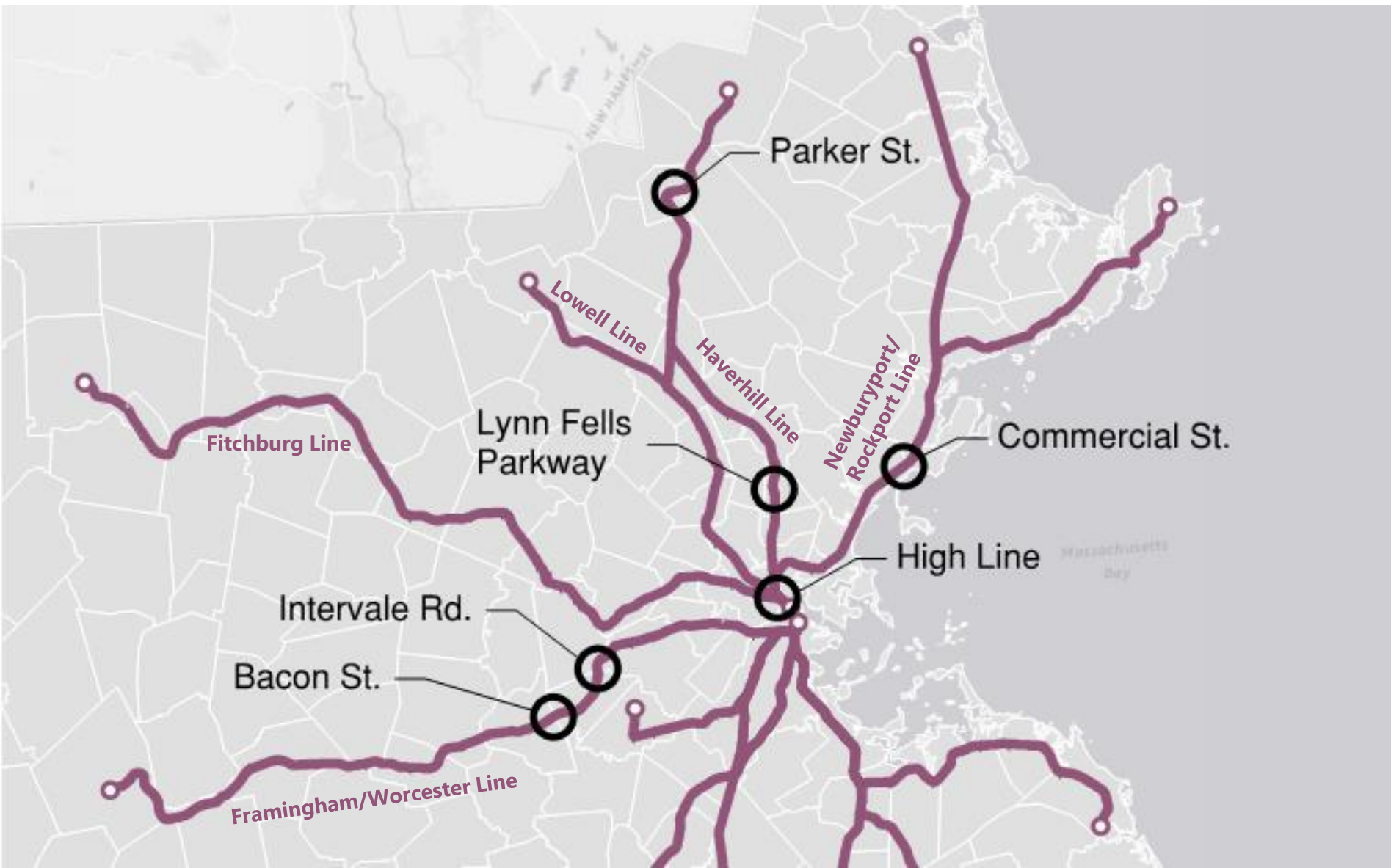
Parker Street
Lawrence, MA



Commercial Street
Lynn, MA

H91CN01 - MBTA Rail Bridge Replacements Design-Build Project

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Project Timeline

- 2016: Preliminary Design of the Bridges
- 2017: MBTA Capital Delivery – Accelerate pace of projects
 - Six individual projects combined into one
 - Use Design-Build to accelerate project and encourage more innovation
- 2018-2019: Design-Build procurement
 - 9 Teams proposed, 3 Shortlisted
 - Barletta/VHB Team was the selected “Best-Value”
 - Highest Tech Score AND Lowest Price
- 2019-2022 - Final Design and Construction
 - Specific schedule varies by bridge
 - Full Project complete August 2022



Bacon Street Wellesley, MA

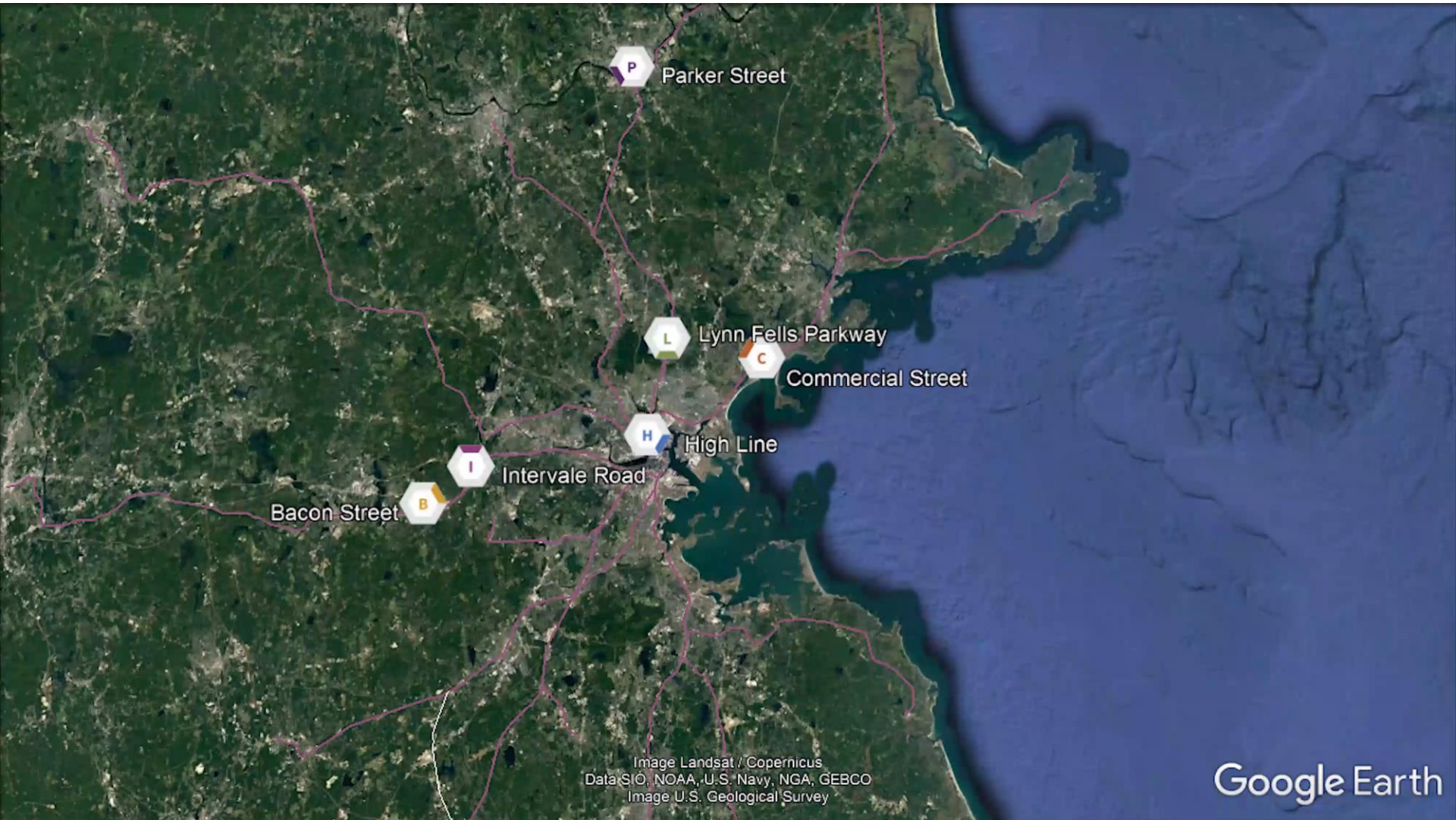
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Bacon Street – Existing Conditions

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Bacon Street – Existing Conditions

- Existing Bridge
 - Originally built in 1911
- Four track structure (2 active)
 - Steel girders with ballasted deck
 - Granite masonry abutments
- Roadway
 - 29'-6" between abutments
 - Single, 5'-6" sidewalk
- Utilities
 - Signal and fiber optic communications carried by bridge
 - PTC overhead
- Railroad Operations
 - 52 commuter trains on weekdays
 - 18 commuter trains on weekends
 - Amtrak and CSX freight as well





Bacon Street – Project Need

- Existing bridge is in poor condition
 - Steel superstructure rated as 4 (out of 10)
 - Concrete “deck” is in poor condition
- MBTA's continuing need to
 - Provide safe and efficient transportation for T riders and the public
 - Maintain and improve the state of good repair of its infrastructure





Bacon Street – Project Goals

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- Restore the State of Good Repair
- Replace the structurally deficient bridge with one that:
 - Is resilient, with a 75-yr expected service life
- Minimize impacts to:
 - Abutters
 - Commuter Rail riders
 - Users of Bacon Street
- Respect historical nature of existing granite block abutments





Bacon Street – Bridge Design

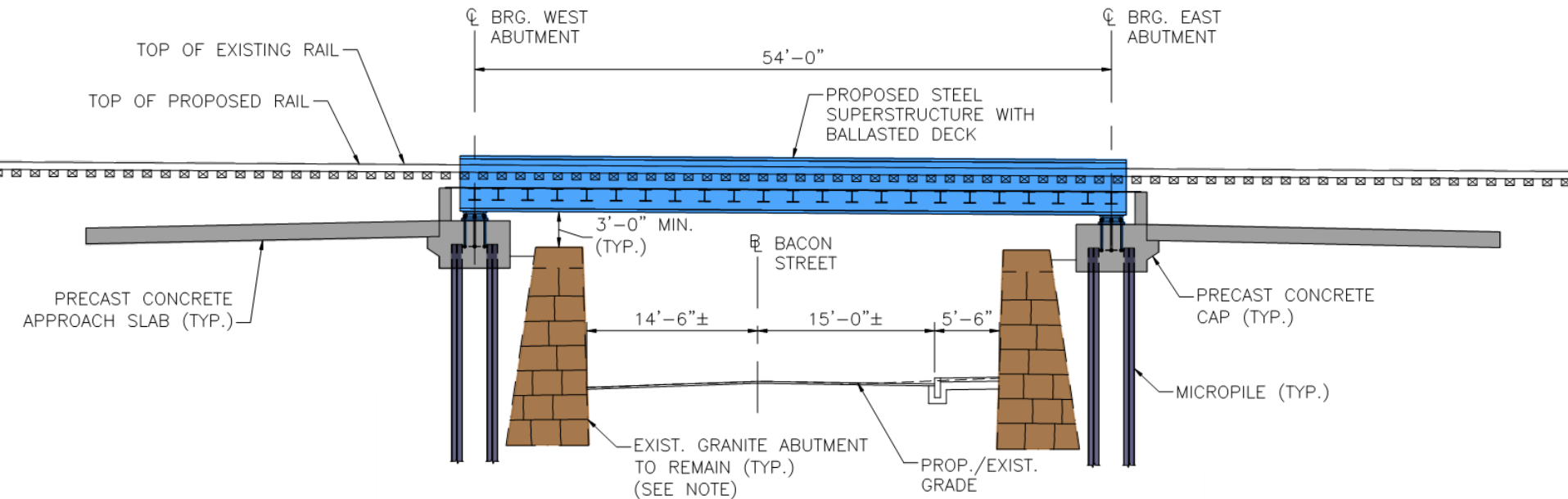
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- Complete bridge replacement
 - Track profile and alignment to match existing
 - Use accelerated construction techniques to reduce impacts
 - Design allows for future third track
- New structure
 - Single-span, built behind existing abutments
- All construction within existing Right of Way
 - No temporary easements required



Bacon Street – Bridge Design

- New precast concrete abutments behind existing granite block walls
- Vertical clearance = 13'-10" (min.)
- Micropiles socketed into rock
- Steel color = black



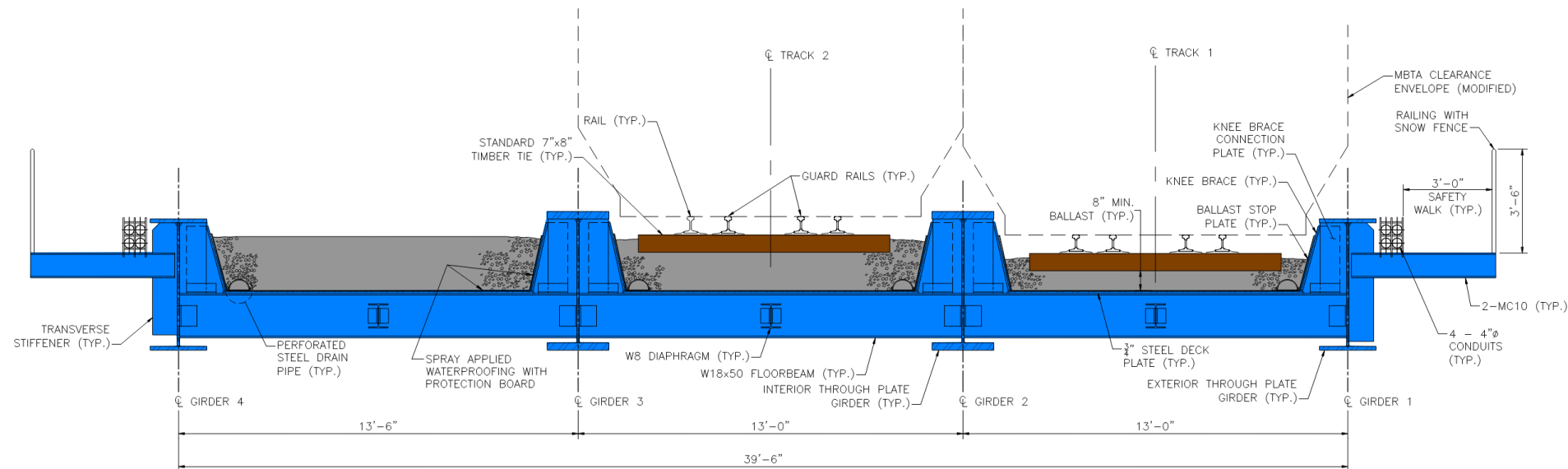
BRIDGE LONGITUDINAL SECTION



Bacon Street – Bridge Design

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- Ballasted through-girder
- Supports up to 3 tracks (2 current)
- Safety walkways on both sides





Bacon Street – Roadway Improvements

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Construction Staging





Construction Staging



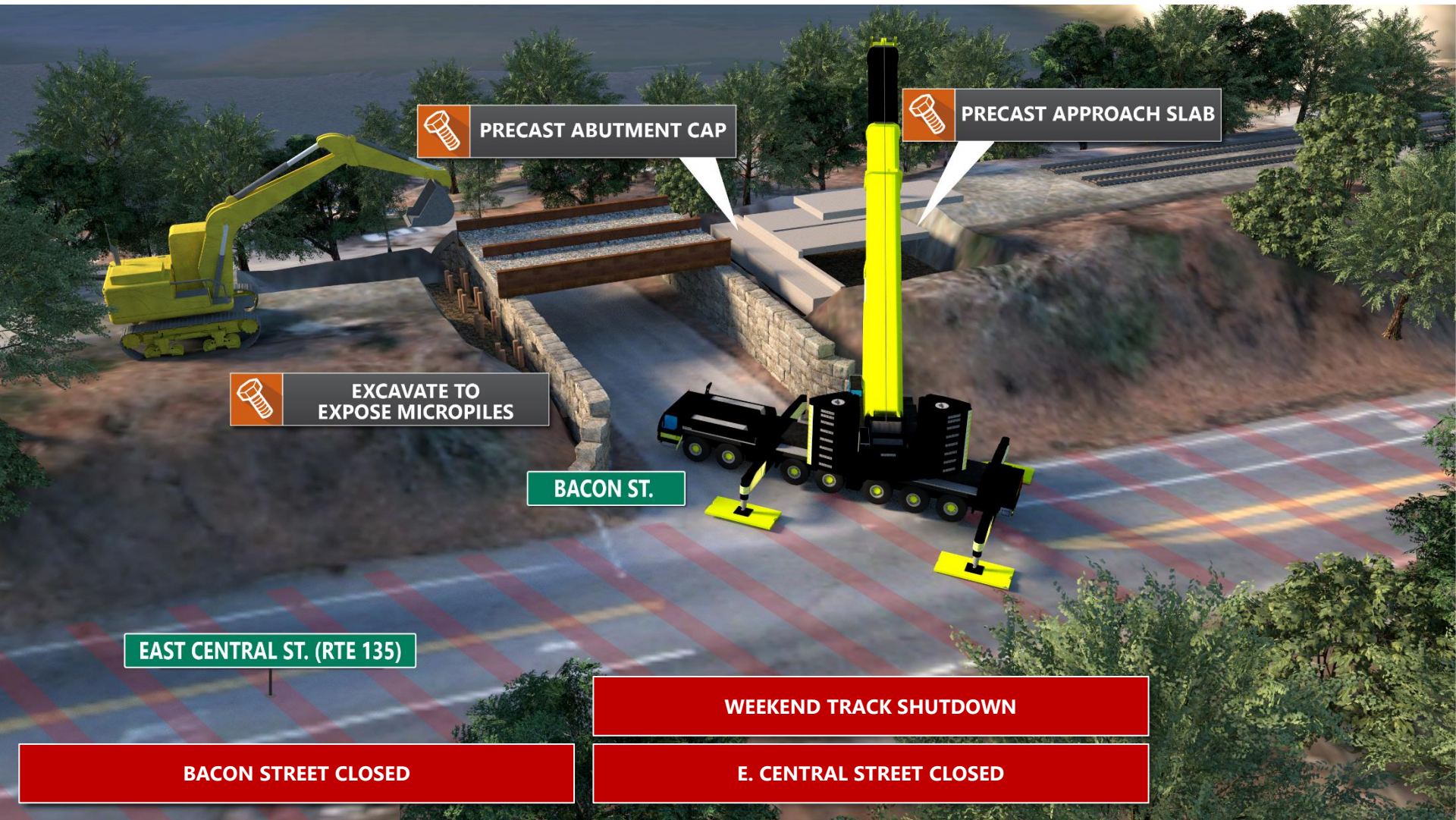


Construction Staging





Construction Staging



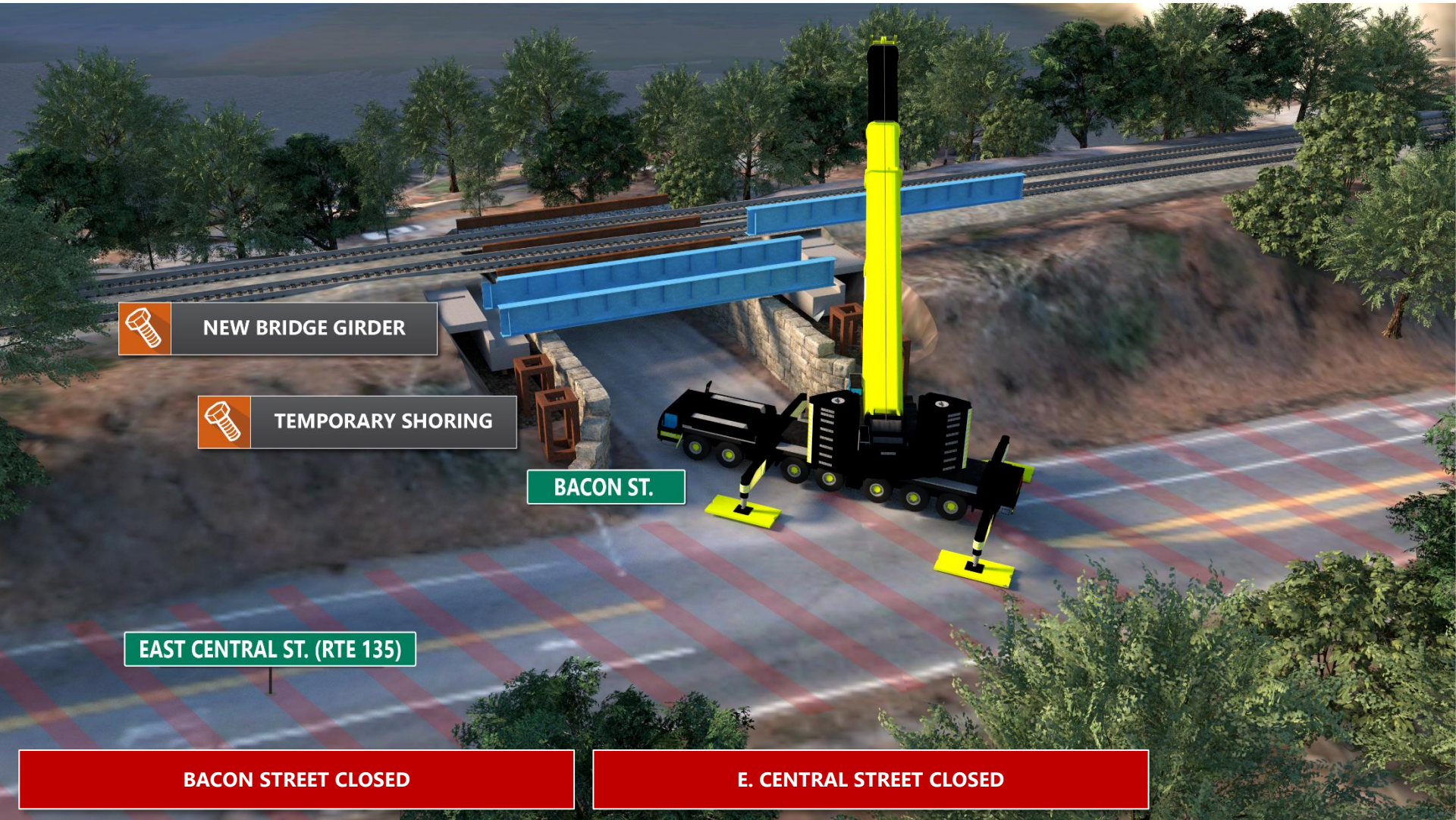


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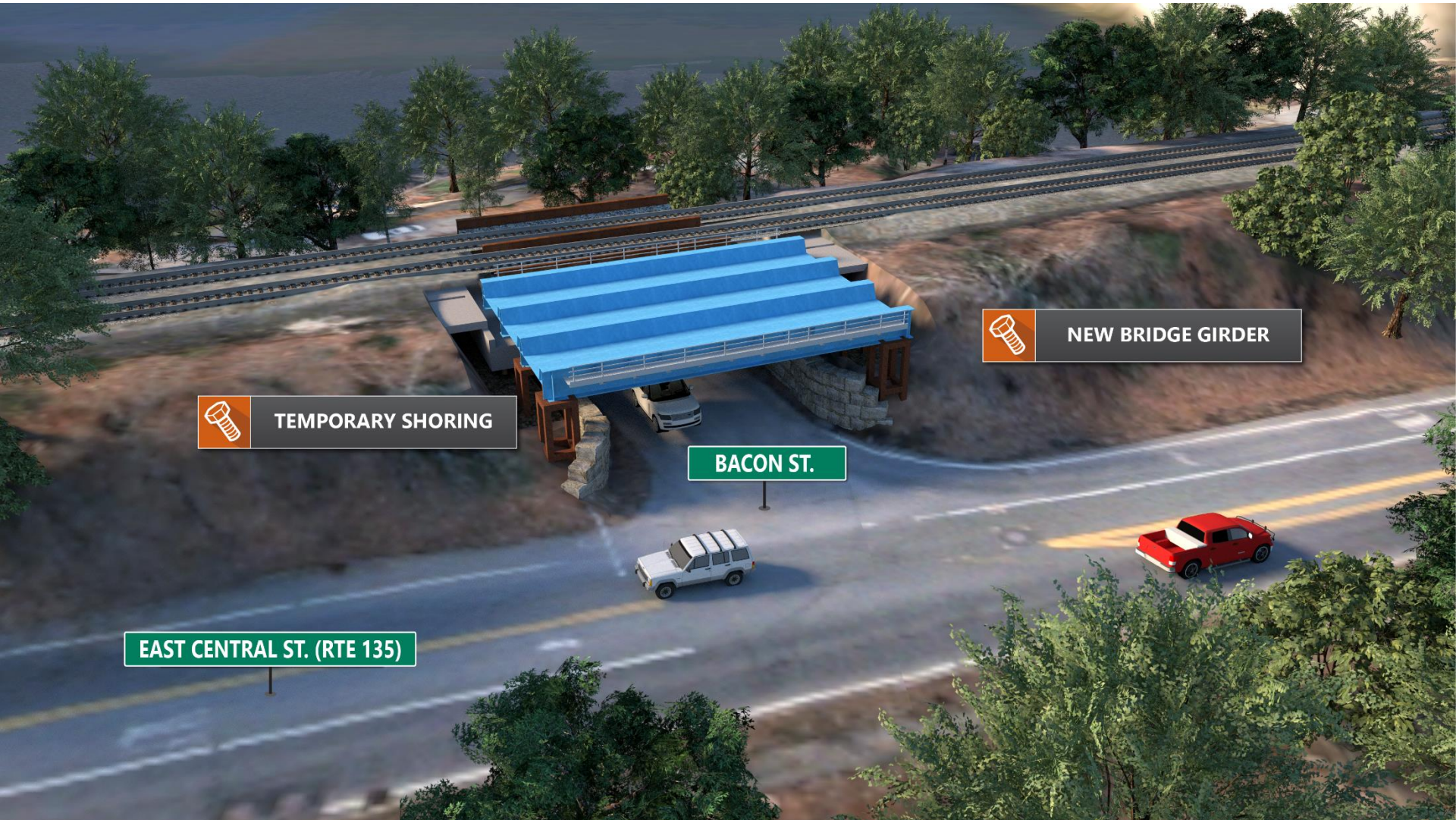


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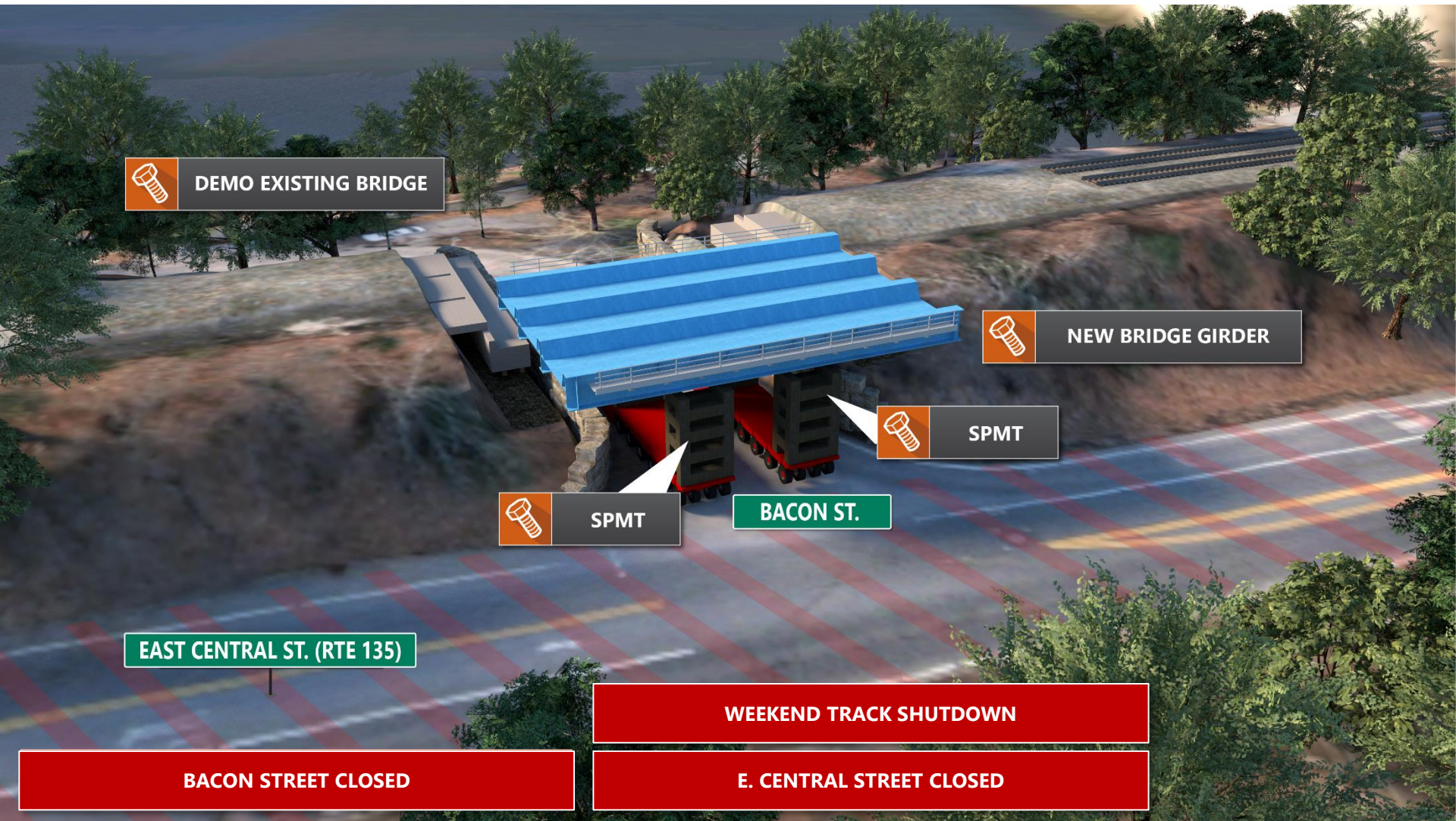


Construction Staging





Construction Staging





Construction Staging



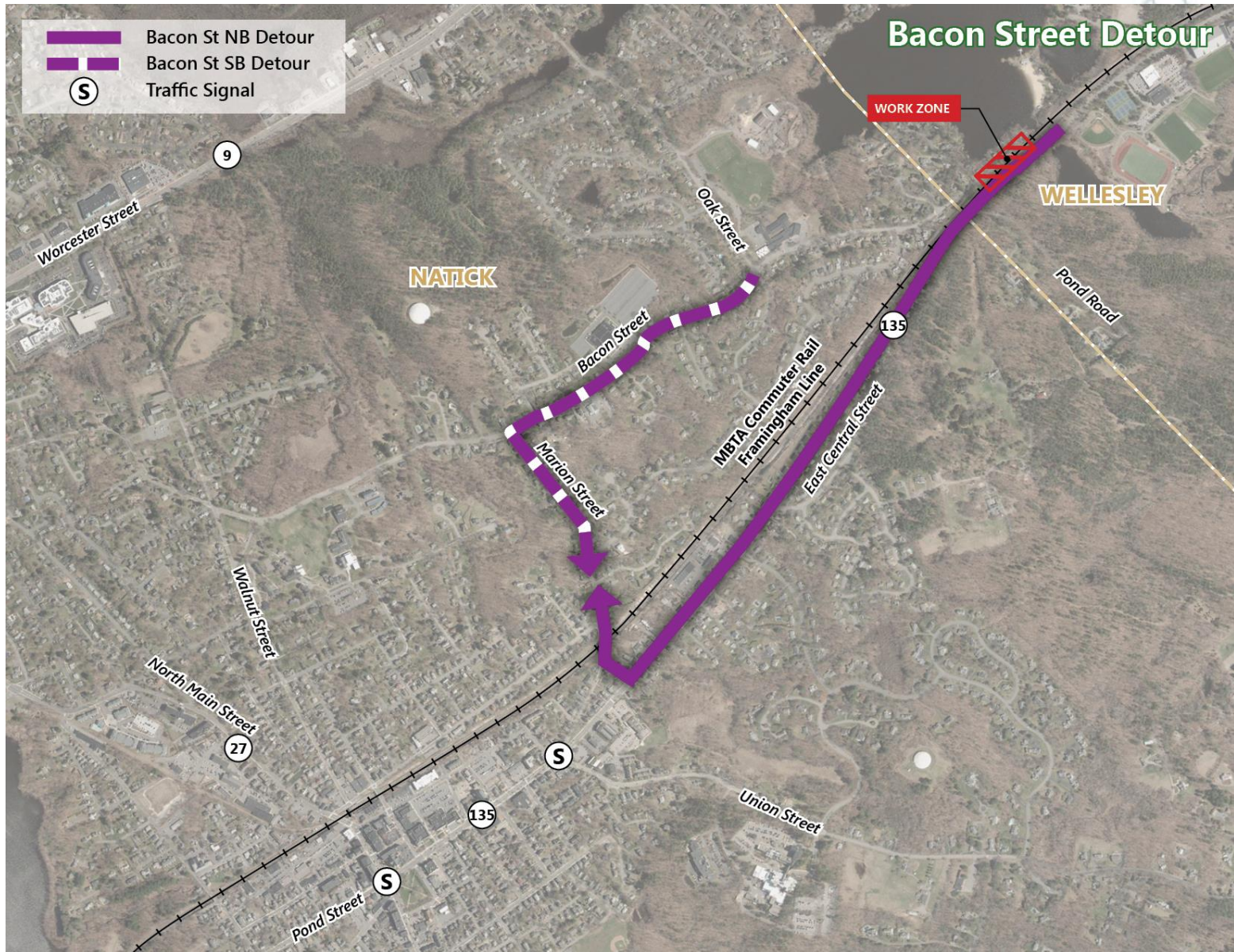


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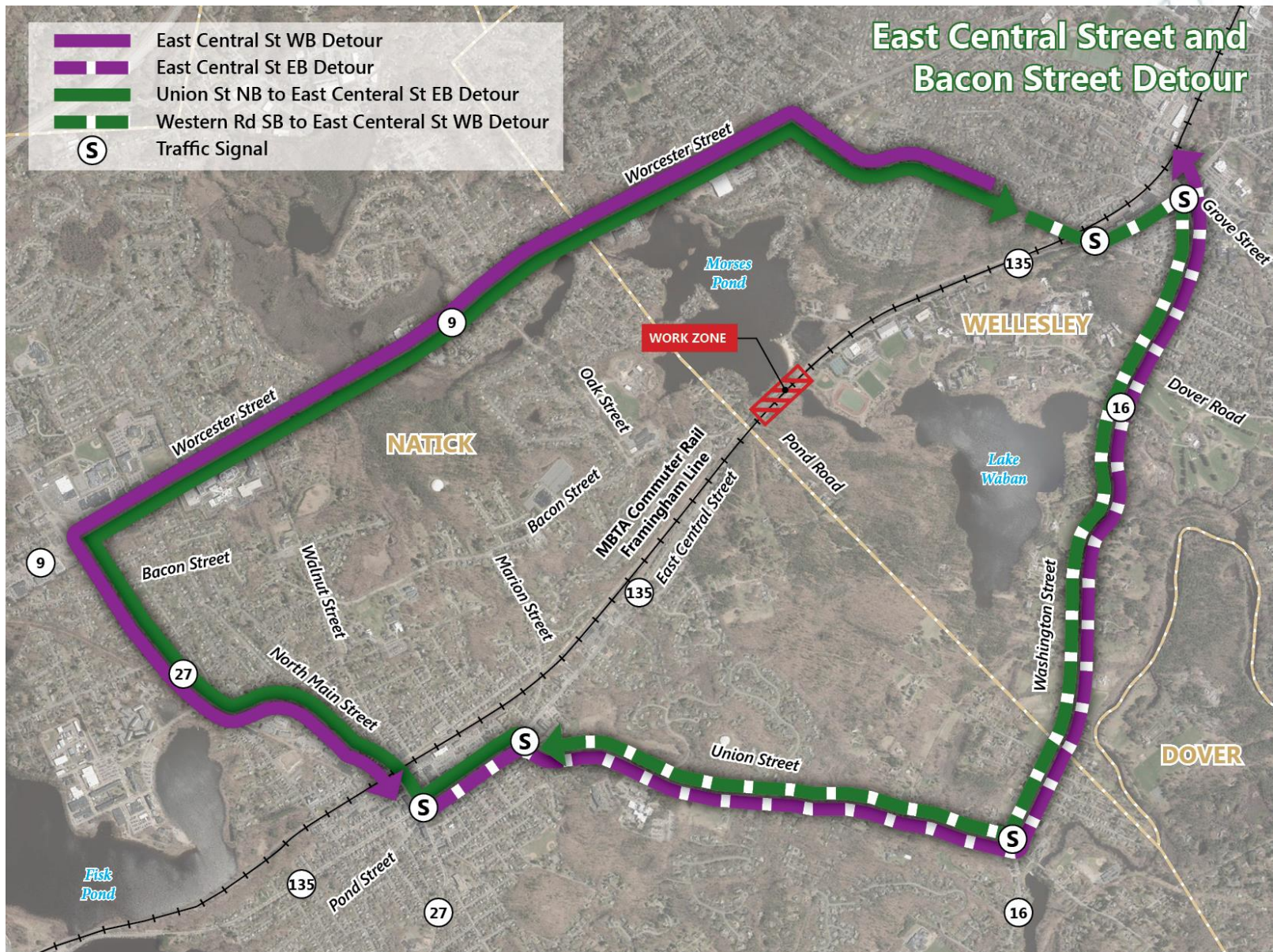


Traffic Detours





Traffic Detours





Project Status and Schedule

- Construction
 - Site Clearing – Fall 2019
 - Site Prep - Spring 2020
 - Foundation Work – Spring / Summer 2020
 - Partial Demo of Existing Bridge – Fall 2020 / Spring 2021
 - Construct New Bridge – Spring / Summer 2021
 - Move New Bridge Into Place – Summer / Fall 2021
 - Site Cleanup – Fall 2021
- Follow-up Public Meeting – Fall 2020





How Can You Reach Us?

- Project Website:
www.MBTA.com/BaconStBridge
- Email:
BaconStBridge@MBTA.com
- 24-Hour Hotline:
(617) 571-7878

Questions?

