Bridge Preservation of I-293 and NH 101 bridges over Merrimack River
Introductions

• Jason Tremblay, PE
  – NHDOT Bureau of Bridge Design
    • Senior Project Engineer

• Joseph Johnson, PE, PTOE
  – Greenman-Pedersen, Inc.
    • Project Consultant

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Bridge Preservation of I-293 and NH 101 bridges over Merrimack River
Project Purpose

• Bridge Maintenance and Preservation
  – Extend the useful life of the bridges
  – Replace bridge expansion joints
  – Replace pavement
  – Repair bridge piers
  – Patch deck

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Project Purpose

- Replace Expansion Joints

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Project Purpose

• Replace Pavement

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• Repair Piers

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Bridge Cross Section

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Phase 1 – Work Zone

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Phase 1 – West Side Ramps

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Phase 1 – Brown Avenue Ramps

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Phase 2 – Work Zone

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Phase 2 – West Side Ramps

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Brown Ave Detour

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Traffic Mitigation Efforts

• Smart Work Zone technology
  – Traffic monitoring and delay information
• Advanced signing and message boards
• Local user knowledge
  – Alternative routing
  – Waze, Google Maps, etc.
• Field adjustment of timings at Exit 1

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Project Schedule

• Advertise for bids – January 2018

• Phase 1 – Spring 2018
  – Traffic shifted right
  – 2 to 2.5 month duration

• Phase 2 – Summer 2018
  – Traffic shifted left
  – 2 to 2.5 month duration

• Completion – Fall 2018

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Thank You

Questions?