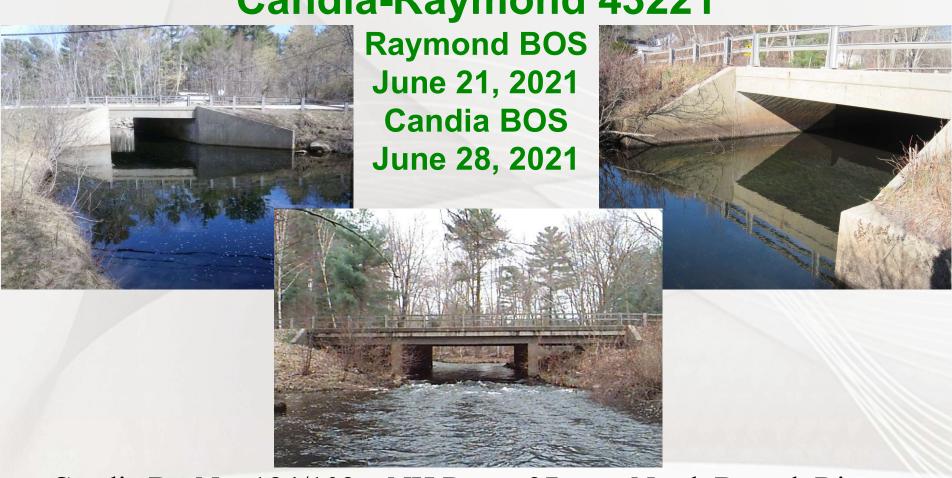
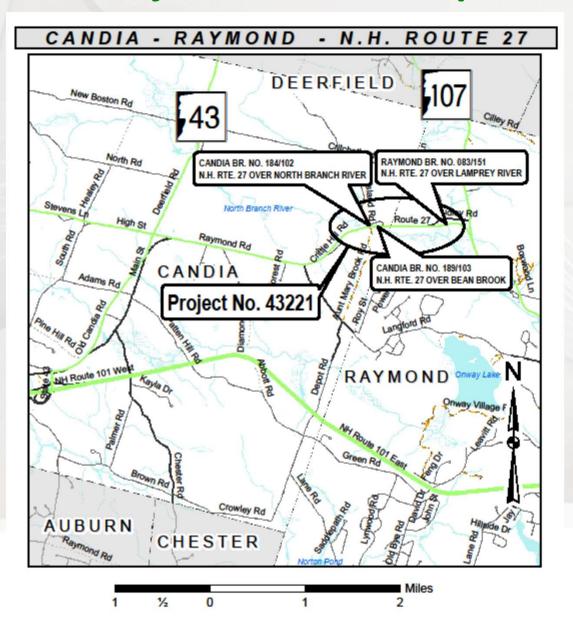
Public Officials/Public Informational Meeting Candia-Raymond 43221



Candia Br. No. 184/102 – NH Route 27 over North Branch River Candia Br. No. 189/103 – NH Route 27 over Bean Brook Raymond 083/151 – NH Route 27 over Lamprey River

Project Location Map





Candia-Raymond, 43321 – Section 106

As part of the National Environmental Policy Act (NEPA) and other state and federal regulations, the NHDOT must investigate the potential impacts that our projects will have on the surrounding natural, cultural, and social environment. Identifying key resources early in the project development process enables the Department to avoid or minimize impacts as design proceeds.

Part of our review involves historic resources. In accordance with Section 106 of the National Historic Preservation Act, the Department has reviewed the project area to determine if there are historic resources within the area that would be impacted by the construction of this project. Cultural resources can include buildings and structures fifty years or older as well as archaeological sites. In addition to age, it also must be determined if a structure is eligible for the National Register of Historic Places.

At this time, an historical evaluation has determined that the project will not impact any identified cultural resources within or immediately adjacent to the project area. Adjacent properties within the project area have structures that are older than 50 years old, however, no impacts to these property are anticipated. In complement to this review, we are asking that if anyone has concerns about historical or archaeological resources in or adjacent to the project area, they bring them to our attention tonight or contact us after this meeting.

Nevertheless, Section 106 of the National Historic Preservation Act offers those individuals or organizations with a demonstrated interest in potential impacts to historic resources to have an opportunity to become Consulting Parties under Section 106 of the National Historic Preservation Act. Those interested would need to indicate so in writing to the Federal Highway Administration, who is the lead Federal Agency for this project. Consulting Party information and FHWA contact is shown on the slide. Please contact the project team after the meeting if you would like more information.

The evaluation of potential environmental resources impacts within the project limits is on-going. Environmental resource impacts being evaluated in the vicinity of the project area include those to: the North Branch and Lamprey rivers, which are NH Designated Rivers; Bean Brook; floodplains; adjacent Wetlands; state endangered Blanding's turtle; State-threatened Northern Black Racer, Spotted and Wood turtles, and Hollow Joe-Pye Weed, and; Federally-threatened Northern Long-eared Bat. The resources and impacts of the Proposed Action will be documented in an environmental document, which would be made available on request for public review.

National Historic Preservation Act Section 106 – Consulting Parties

Interested persons or organizations may request **Consulting Party** status from FHWA:

Jamie Sikora
Environmental Program Manager
Federal Highway Administration
NH Division Office
53 Pleasant Street, Suite 2200
Concord, NH 03301
Jamie.Sikora@fhwa.dot.gov









For more information on how you can become a consulting party contact:

Jamie Sikora
Environmental Program Manager
Federal Highway Administration
NH Division Office
53 Pleasant Street, Suite 2200
Concord, NH 03301
Jamie Sikora@ffwa dot gov



SECTION 106 CONSULTING PARTY PROCESS IN NEW HAMPSHIRE

In the National Historic Preservation Act (NHPA), Congress established a comprehensive program to preserve the historical and cultural foundations of the Nation as a living part of community life. Section 106 of NHPA is crucial to that program, because it requires consideration of historic preservation in the multitude of Federal actions that take place nationwide and throughout New Hampshire.

Section 106 requires Federal agencies to consider the effects of their actions on historic properties and provide the Advisory Council on Historic Preservation (ACHP) an opportunity to comment on Federal projects prior to implementation.





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More Information:

https://www.nh.gov/dot/org/projectdevelopment/environment/units/program -management/cultural.htm



Existing Bridge Details Candia Br. No. 184/102 NH 27 over North Branch River

- Constructed in 1932; Widened in 1972
- 23' single span: concrete slab
- 44'-0" bridge width (12-10 TYP)
- 32'-0" roadway width (12-4 TYP)
- 3,500 vehicles per day, 4% trucks
- #92 on 2020 Tier 3&4 M&P List
- Deck 6, Super 6, Sub 6



Site Photos – Candia Br. No. 184/102 NH 27 over North Branch River



Looking West



North Elevation



Bridge Condition – Candia Br. No. 184/102 NH 27 over North Branch River







Laitance at Widening Joint

Transverse Cracks in Pavement

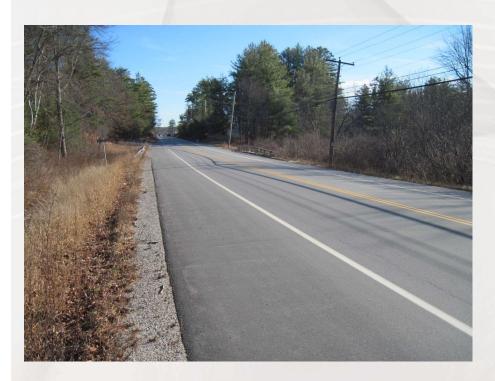


Existing Bridge Details Candia Br. No. 189/103 NH 27 over Bean Brook

- Constructed in 1937; Widened in 1972
- 23' single span: concrete box
- 44'-0" bridge width (12-10 TYP)
- 32'-0" roadway width (12-4 TYP)
- 3,500 vehicles per day, 4% trucks
- #57 on 2020 Tier 3&4 M&P List
- Deck 6, Super 6, Sub 7



Site Photos – Candia Br. No. 189/103 NH 27 over Bean Brook



Looking East



South Elevation



Bridge Condition – Candia Br. No. 189/103 NH 27 over Bean Brook





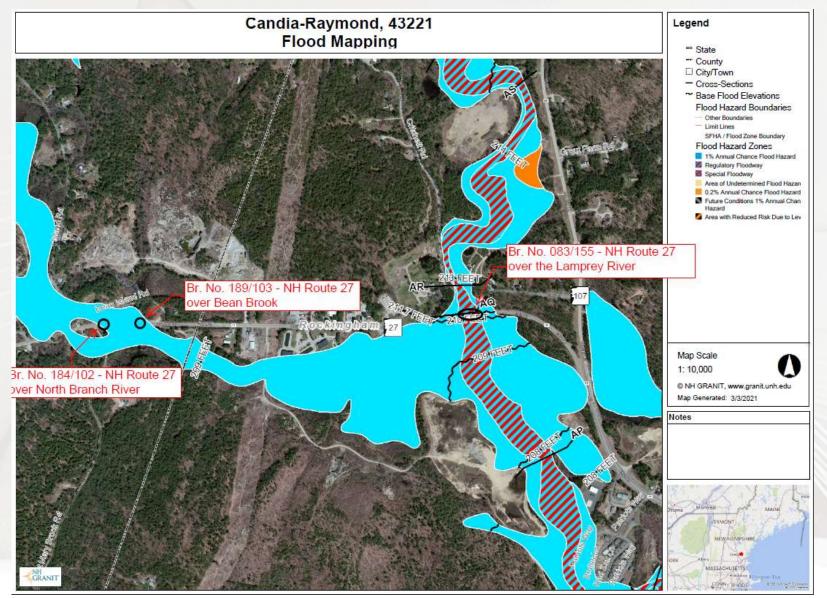
Laitance at Widening Joint

Transverse Cracks in Pavement

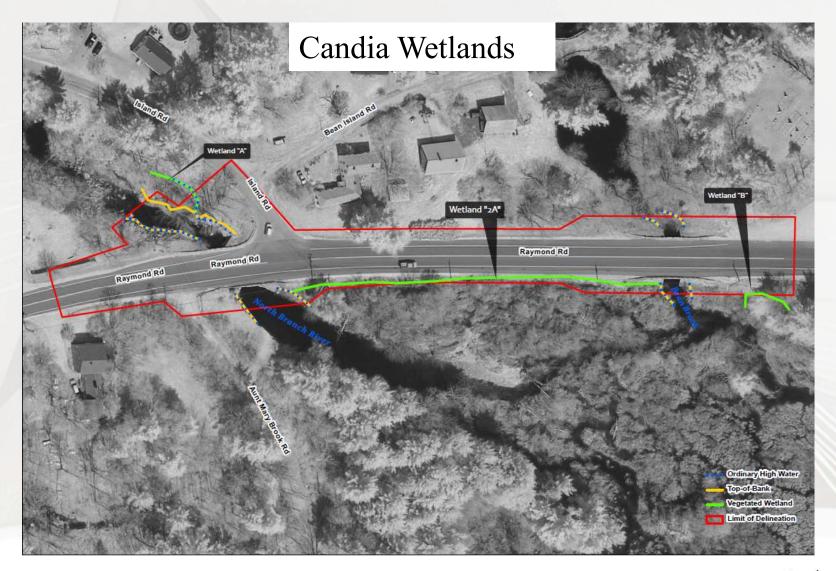


Natural Resources – Candia

- Lower Perennial -Tier 3 Streams
- North Branch River
 - Within 100 year Floodplain
 - Outstanding Resource Water Watershed
 - NH Designated Natural River
- Bean Brook
- Forested, Scrub-Shrub and Emergent Wetlands
- Adjacent to Highest Ranked and Supporting Wildlife Landscape
- Wildlife Corridors
- Endangered and Threatened Wildlife Species









Bridge Preservation Work

- Bridge Deck Pavement Removal and Replacement
- Partial and Full Depth Deck Repairs
- Installation of Crack Control Joints



Maintenance of Traffic – Candia Bridges

One Phase

 Close NH 27 in area of bridges and detour traffic around site

Two Phases

- Phase One
- Maintain one lane of alternating two way traffic controlled by signals on NH 27
- Phase Two
- Maintain two lanes

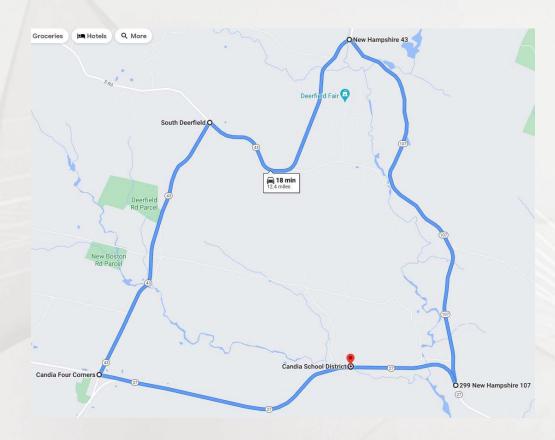


Maintenance of Traffic – Candia Bridges

- One Phase
- Approximately 26 day closure
- 5 weeks on detour
- \$525,000 for both bridges



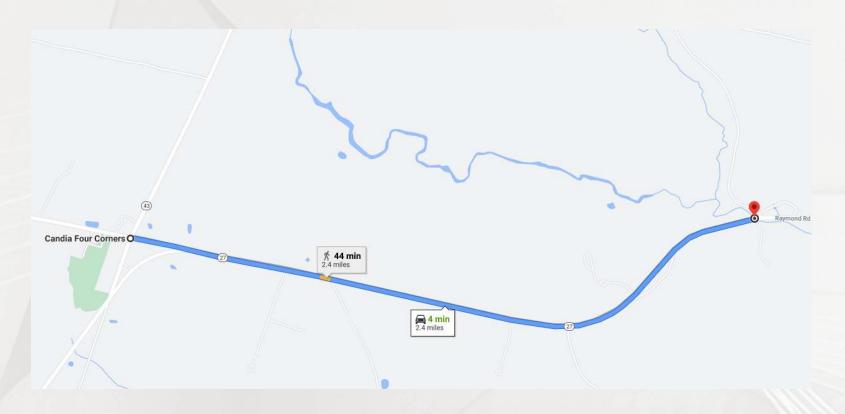
Detour



- Through traffic on NH 27 = 3.6 miles
- Detour traffic on NH 43 and NH 107 = 8.8 miles
- Additional 5.2 miles



Existing Emergency Route for Candia



2.4 miles to closure along NH 27



Emergency Route During Closure for Candia



- 3.6 miles to Bean Island Road via NH 43 and Critchett Road
- Additional 1.2 miles

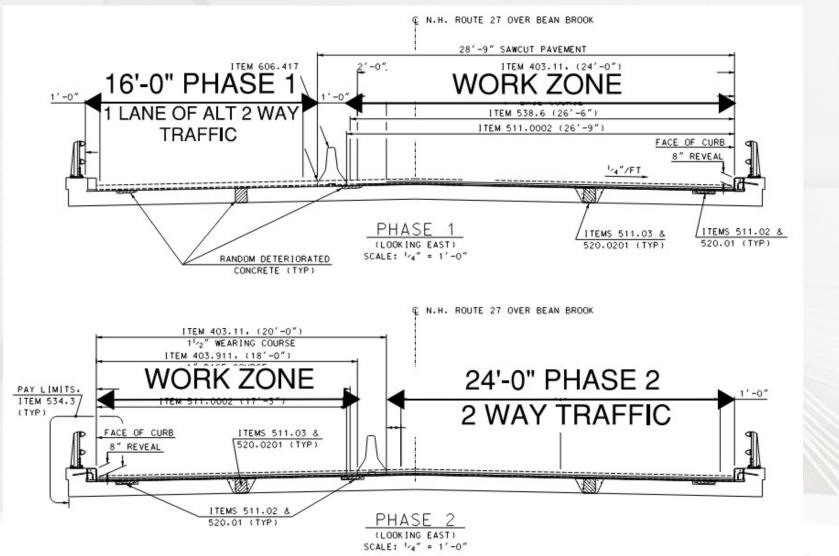


Maintenance of Traffic – Candia Bridges

- Two Phases
- Approximately 23 days per phase
- 4 to 5 weeks with alternating one way traffic
- 4 to 5 weeks with two way traffic
- \$615,000 for both bridges



Maintenance of Traffic – Candia Bridges





Existing Bridge Details Raymond Br. No. 083/151 NH 27 over Lamprey River

- Constructed in 1932; Widened in 1974
- 65' three span: concrete tee-beam
- 44'-0" bridge width (12-10 TYP)
- 32'-0" roadway width (12-4 TYP)
- 3,200 vehicles per day, 7% trucks
- #8 on 2020 Tier 3&4 M&P List
- Deck 6, Super 6, Sub 7



Site Photos – Raymond Br. No. 083/151 NH 27 over Lamprey River





Looking East

South Elevation



Bridge Condition – Raymond Br. No. 083/151 NH 27 over Lamprey River





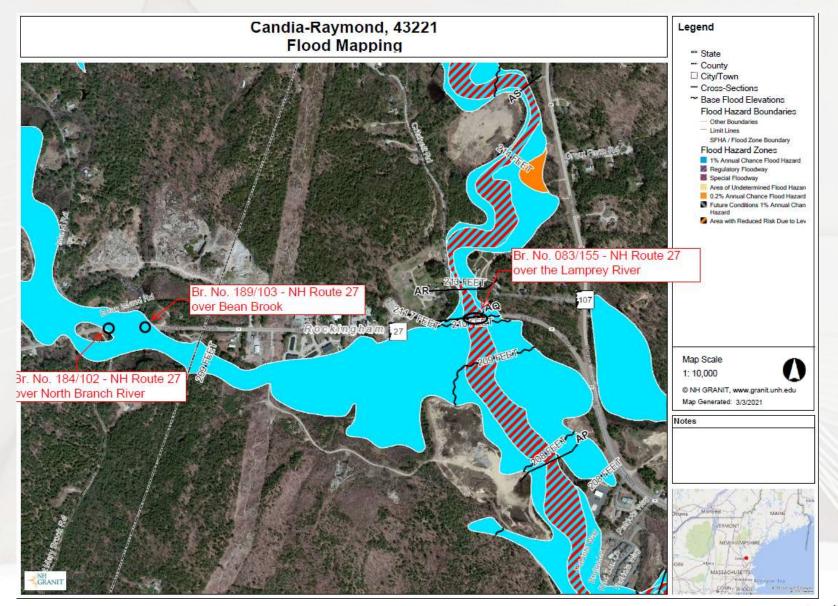
Laitance at Widening Joint



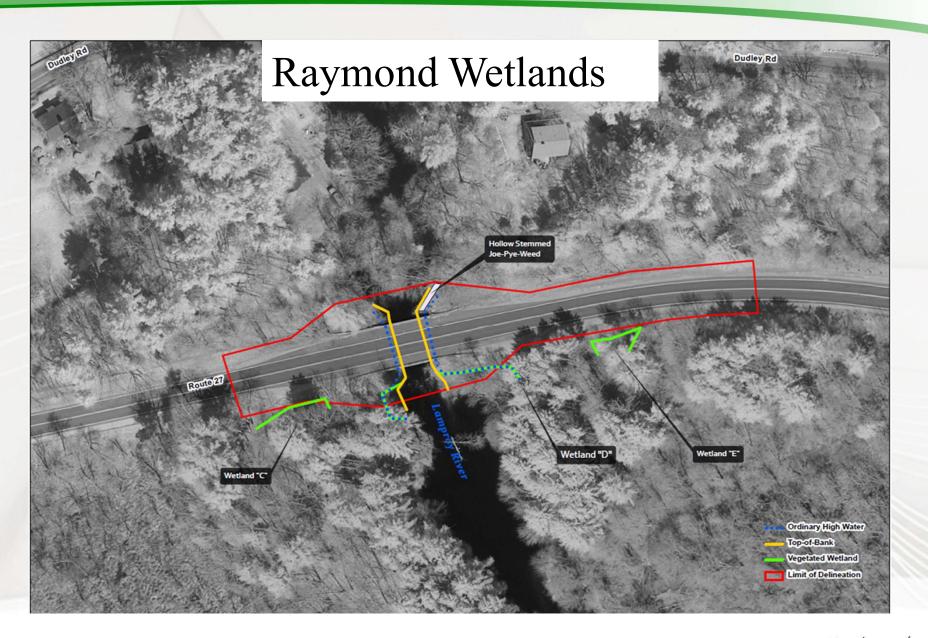
Natural Resources – Raymond

- Lower Perennial -Tier 3 Stream
- Lamprey River
 - Within 100 year Floodplain/Floodway
 - Shoreland Protection
 - NH Designated Rural River
- Forested and Emergent Wetlands
- Within Highest Ranked Wildlife Habitat
- Wildlife Corridor
- Endangered and Threatened Wildlife and Plant Species











Bridge Preservation Work

- Bridge Deck Pavement Removal and Replacement
- Partial and Full Depth Deck Repairs
- Installation of Crack Control Joints

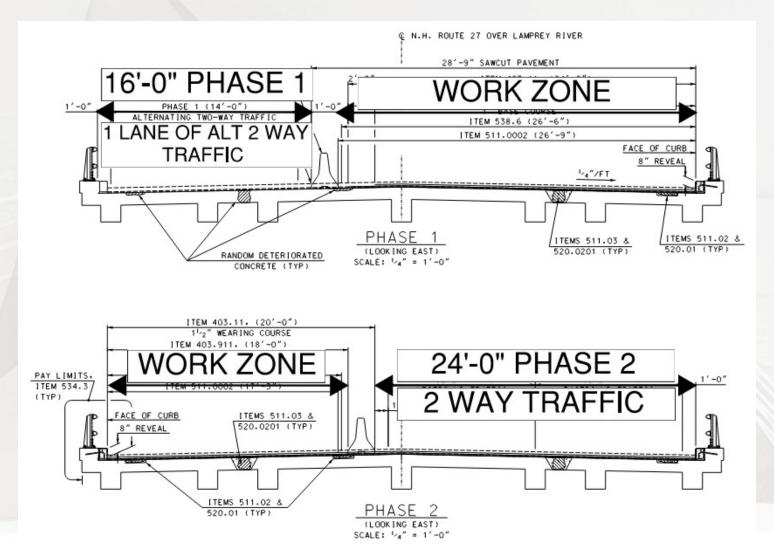


Maintenance of Traffic – Raymond Bridge

- Two Phases
- Approximately 20 days per phase
- 4 weeks with alternating one way traffic
- 4 weeks with two way traffic
- \$425,000



Maintenance of Traffic – Raymond Bridge





Your Input is Needed

- Preferred Closure Time
- Emergency Response Routes
- Mutual Aid
- School Bus Routes
- Bicycle and Pedestrian Concerns
- Other Concerns



Next Steps

- Ad Date August 31, 2021
- Construction Summer 2022



Questions?











WB-62 Turning Radius

Existing NH107/NH27 Turning Maneuvers



S-BUS-36 Conventional School Bus Turning Radius



Passenger Car Turning Radius





