



Public Informational Vermont Route 100B Bridge 2 Replacement Moretown, VT



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Informational By:

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Bridge Site – Existing



Existing Bridge Information

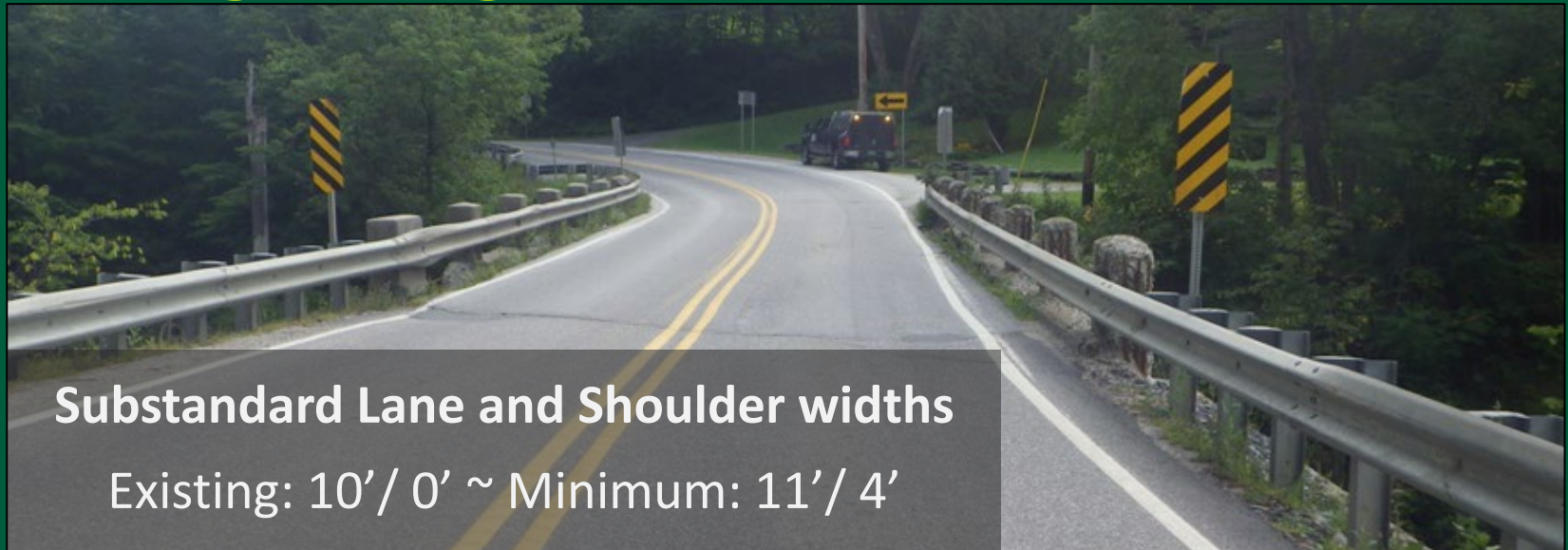
- Originally constructed in 1928
- Bridge is structurally deficient
- Narrow roadway width
- Bridge Rating
 - Bridge Deck: 5 (Fair)
 - Bridge Superstructure: 5 (Fair)
 - Bridge Substructure: 5 (Fair)
 - Overall Sufficiency Rating: 63.6 (out of 100)

08/10/2017

Proposed Bridge

- Concrete Deck on Steel Girders
- Spread Footings on Ledge
- Longer Span (92' from 59')
- Increase Bridge Width, Lane and Shoulders
- Safer Alignment
- Construct Retaining Wall

Existing Bridge Deficiencies (1/4)



Currently
1 lane

Existing Bridge Deficiencies (2/4)

Heavy spalling in curbs, fascia's, bridge railing, and T-Beams



Existing Bridge Deficiencies (3/4)

Substructure Concrete Cracking, Spalling, and Loosing Connection with Ledge



Existing Site Deficiencies (4/4)

Blocks used to Retain Roadway Approach Fill

Could Wash out in High Water



Proposed Bridge Alignment Change

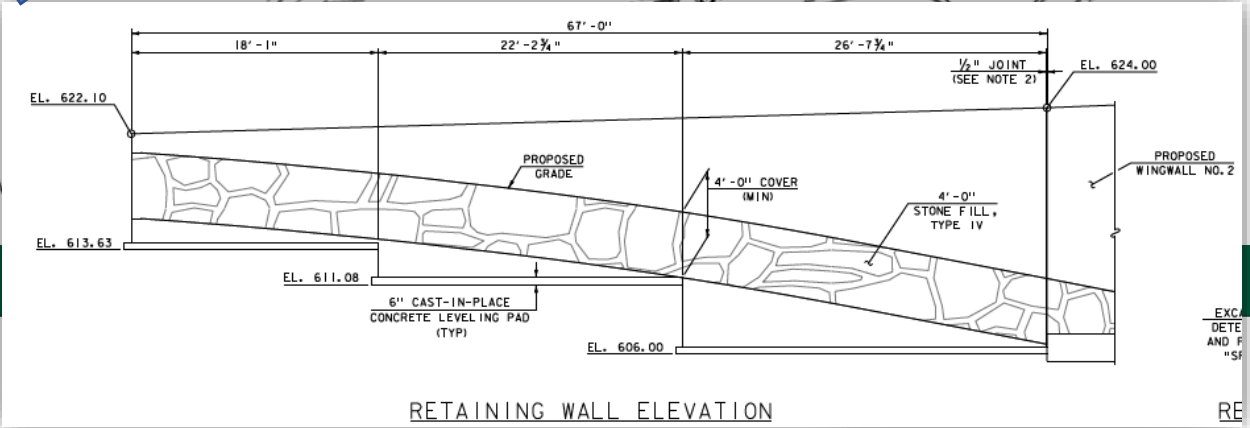
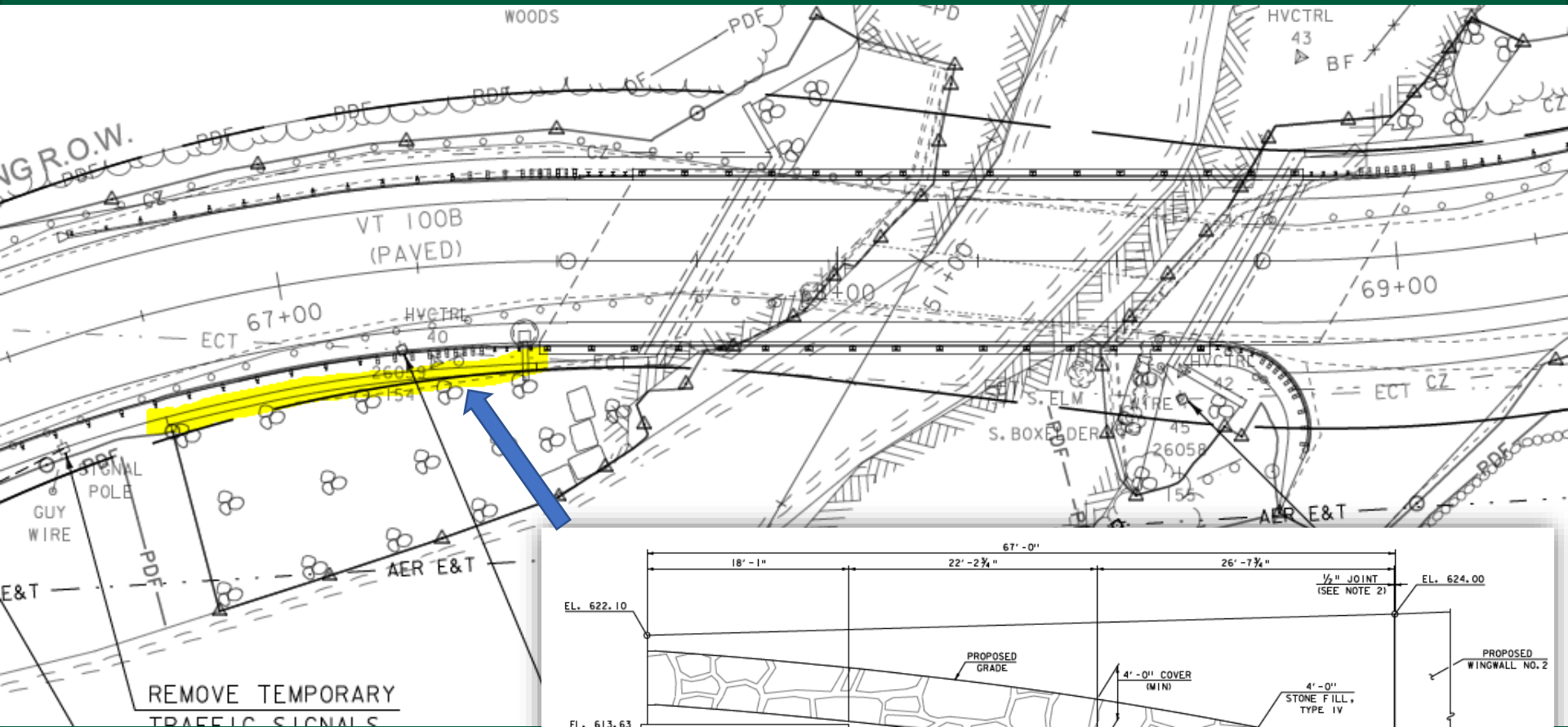
Red = Existing

Yellow = Proposed

Increase radius of Approach
Curves to Increase Safety



New Retaining Wall



Methods of Construction

Combination of Accelerated Bridge Construction and Conventional Construction.

- **Overall Goals:**
 - Implement Accelerated and Conventional Components Efficiently
 - Maximum Construction Duration of 61 days
- **Accelerated Elements (where feasible)**
 - Precast Deck Panels
 - Rapid Setting Concrete
- **Conventional Components (due to site complexity)**
 - Cast-in-place subfooting to ensure connection to bedrock
 - Cast-in-place deck over pour for smooth, safe ride

Accelerated Component

Precast Deck Panels





Accelerated/ Conventional Component

Deck Over Pour



Conventional Component

Cast in Place Subfooting to Bedrock



Final Bridge Will Look Similar To:





Detour

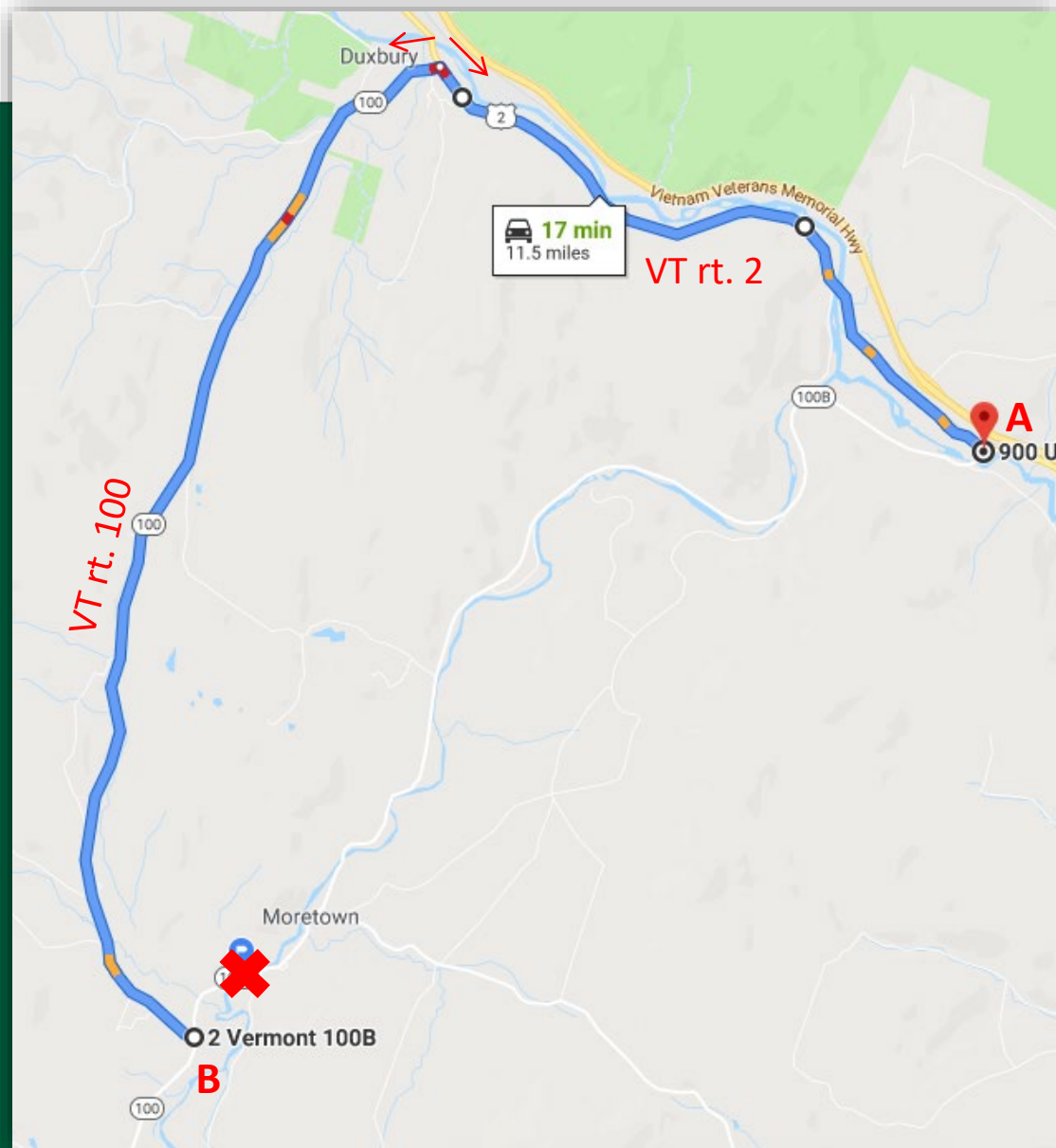
Summary

A to B current: 7.9 Miles

A to B detour: 11.5 Miles

Added: 3.6 miles

End to End 19.4 miles



Project Process

Project Funded

Project Defined

Contract
Awarded
Dec 2019

Construction!

Financial Incentives and Disincentives included in Contract to encourage early completion

Anticipated Construction Schedule

August 3rd

- Begin Pre-Closure Work on Site

August 17th

- Anticipated Bridge Closure

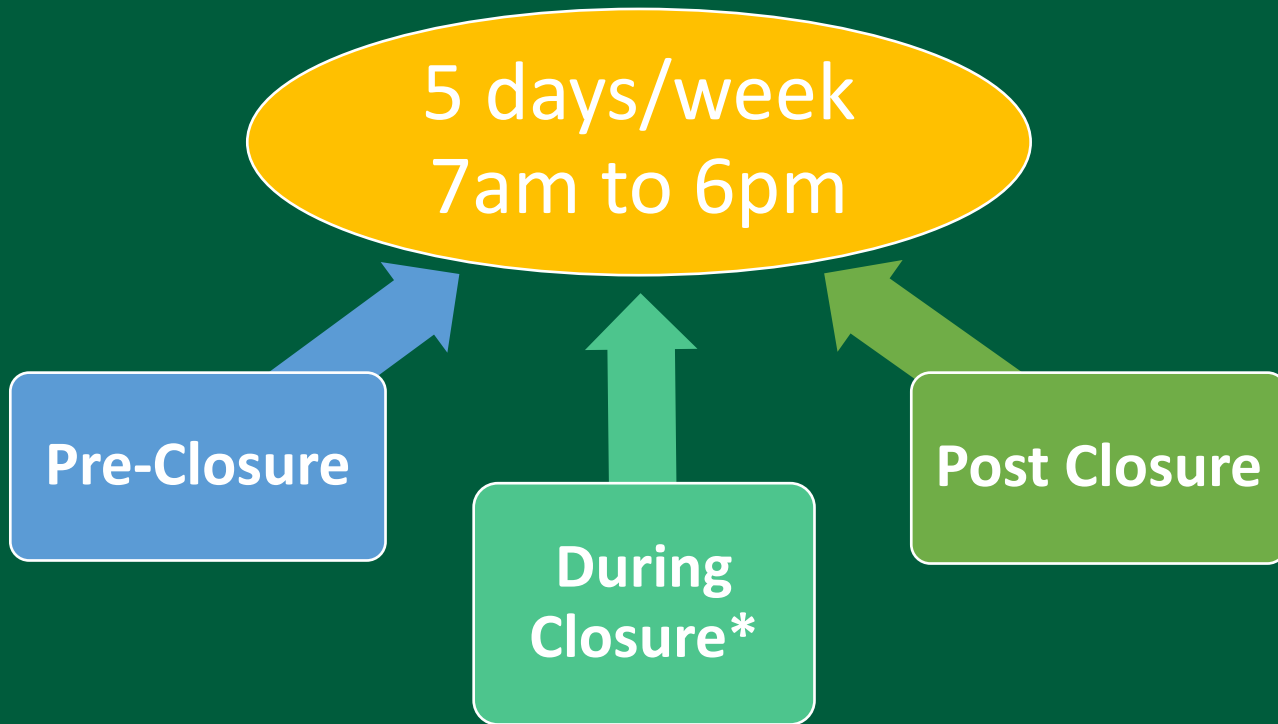
October 17th

- Anticipated Bridge Opening

November

- Project Completion

Contractor Planned Work Hours



*weekend daytime work will occur if behind schedule



Public Outreach

Public Information Consultant - **Jennifer Zorn**

To Sign up for emails with project updates – send an email to jzorn@mjinc.com

Jennifer's Contact information

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Questions and Comments?

