CHITTENDEN COUNTY RPC
Communities Planning Together

McFarland Johnson

CHITTENDEN COUNTY REGIONAL PLANNING COMMISSION

Winooski/Burlington, US RTs 2 & 7 Bridge Scoping Study

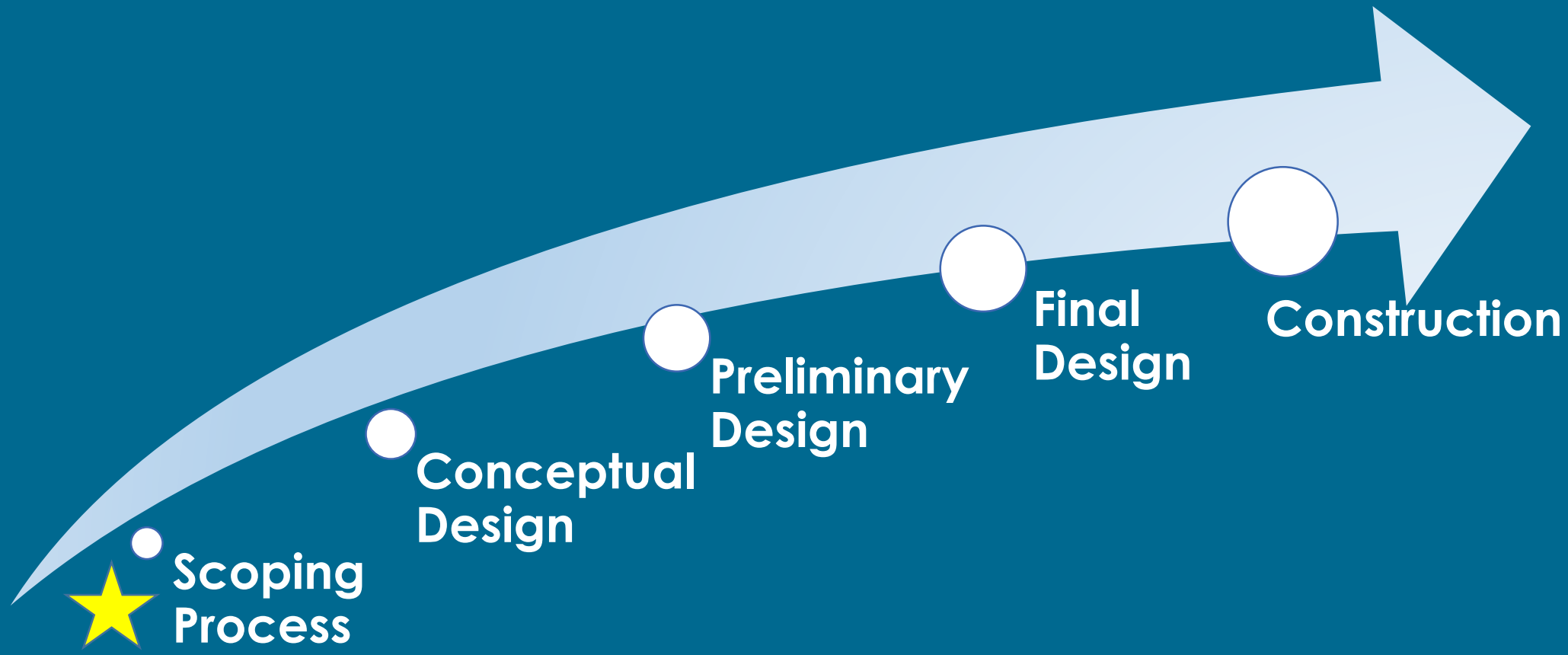
Winooski City Council

October 15, 2018

Agenda:

1. Introductions
2. Scoping in Project Context
3. Background/Review of Preferred Alternatives
4. Locally Preferred Alternative Discussion

Bridge Replacement Development Phases



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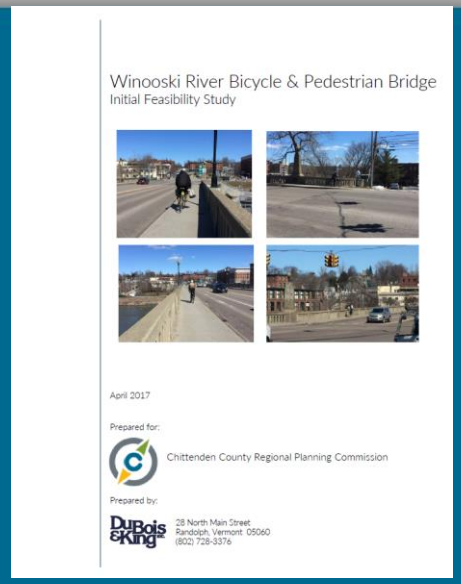
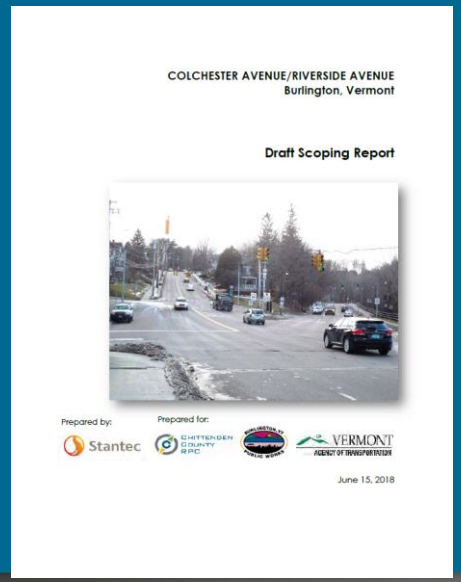
Need for a Bridge Alternative


Winooski River Bicycle & Pedestrian Bridge
Initial Feasibility Study

April 2017

Prepared for:
Chittenden County Regional Planning Commission

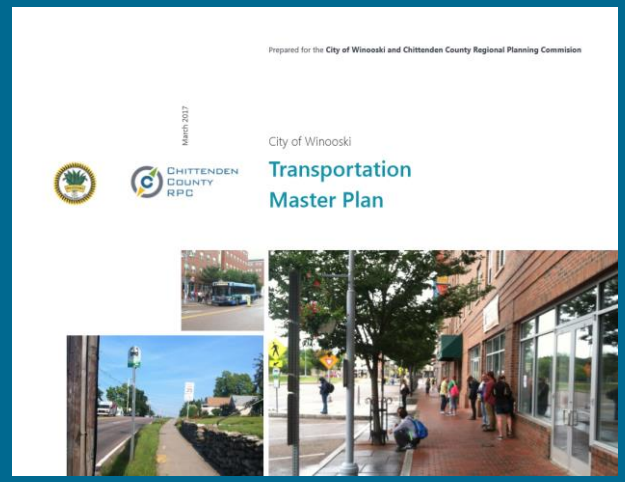
Prepared by:
DuBois & King
28 North Main Street
Randolph, Vermont 05060
(802) 728-3376


COLCHESTER AVENUE/RIVERSIDE AVENUE
Burlington, Vermont

Draft Scoping Report

Prepared by: Stantec
Prepared for: Chittenden County RPC, Vermont Agency of Transportation

June 15, 2018



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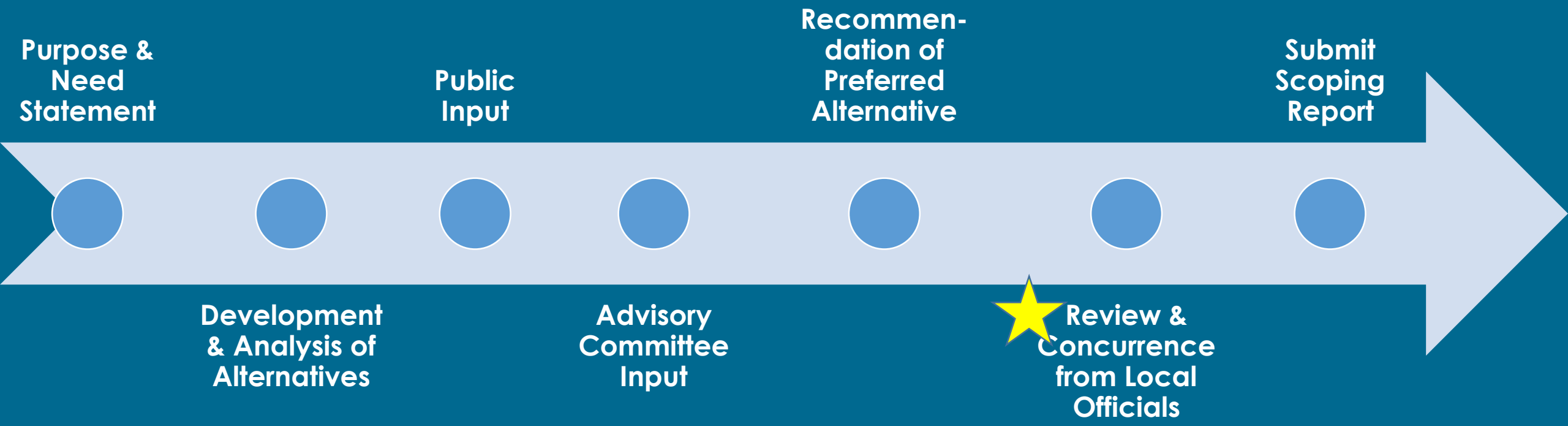
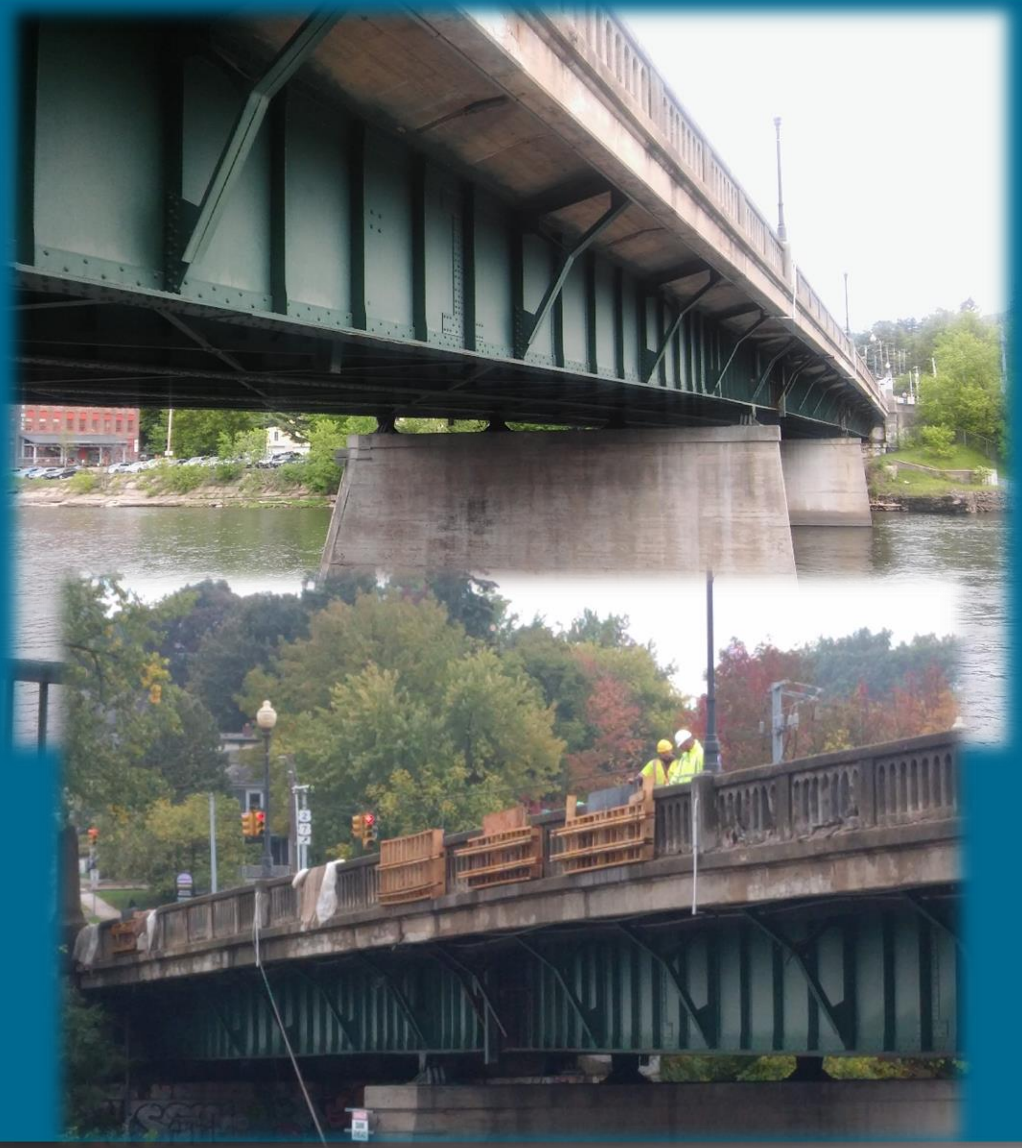
Scoping Process

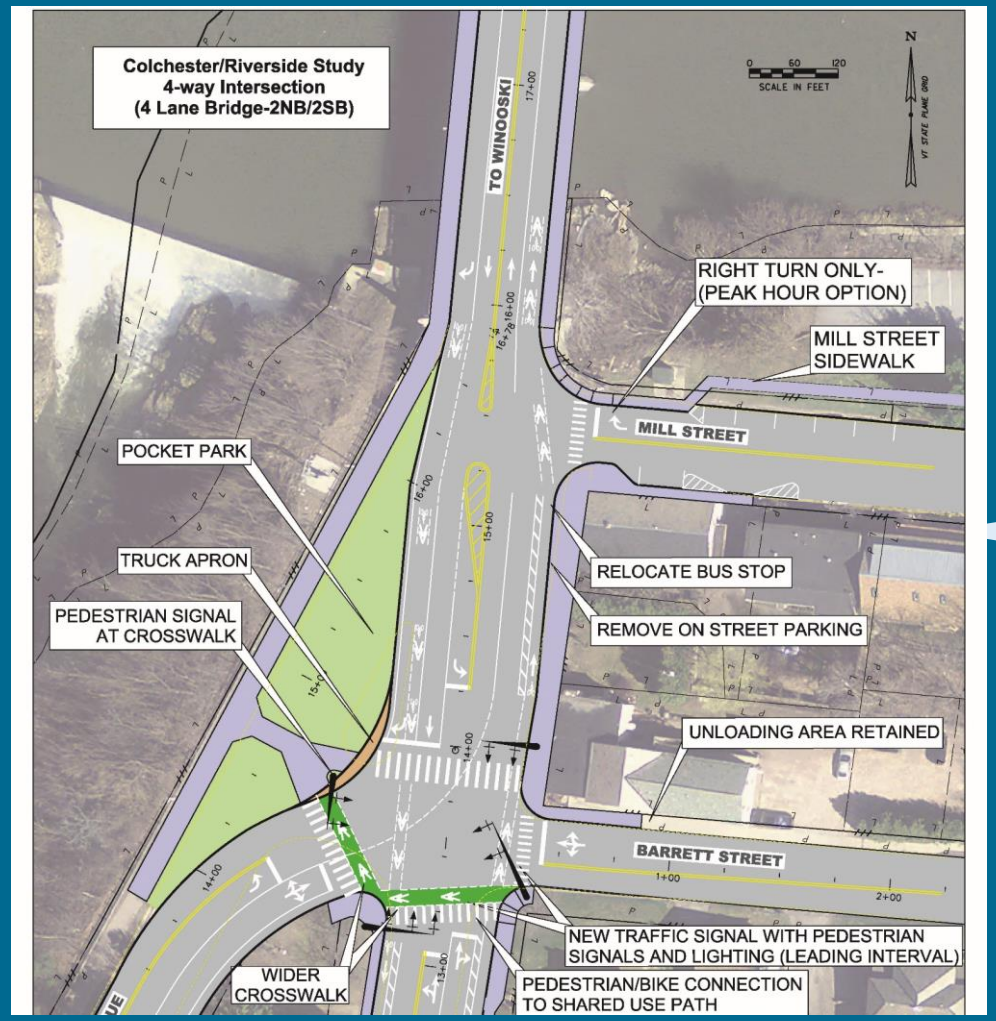




Existing Bridge

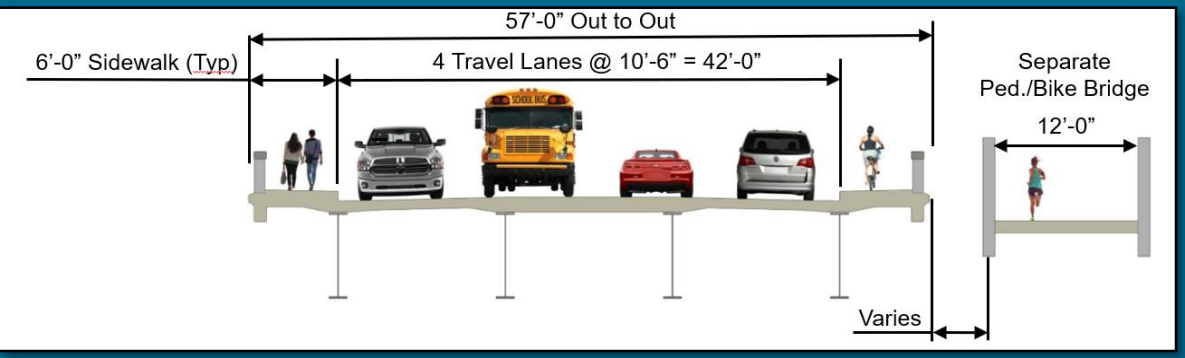
- Originally Constructed in 1929
- Rehabilitations Performed in 1961, 1975 & 1997
- Bridge Rail Rehab Currently Underway
- Bridge Currently Has Satisfactory Rating

3 Lane vs. 4 Lane Structure



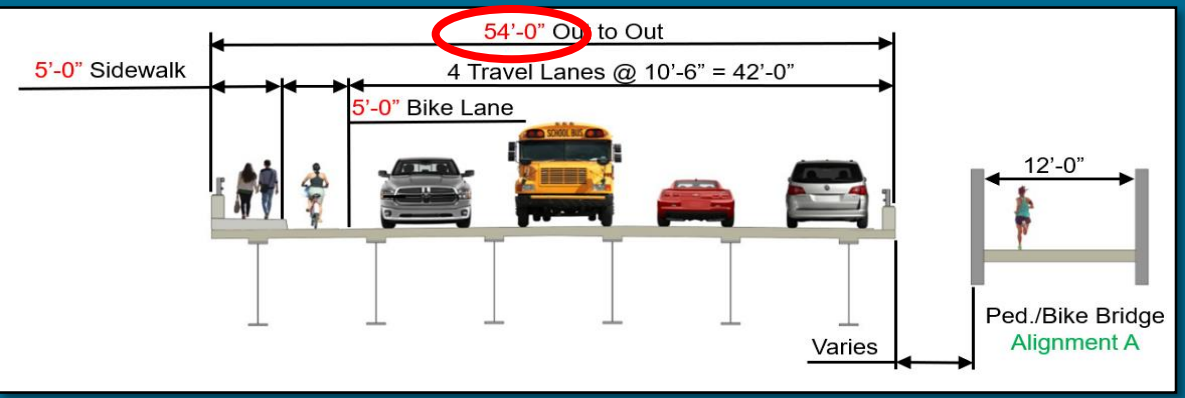
3-Lane Option Dismissed

- Level of Service Decrease
- Main Street: D to F
- West Allen St. D to F



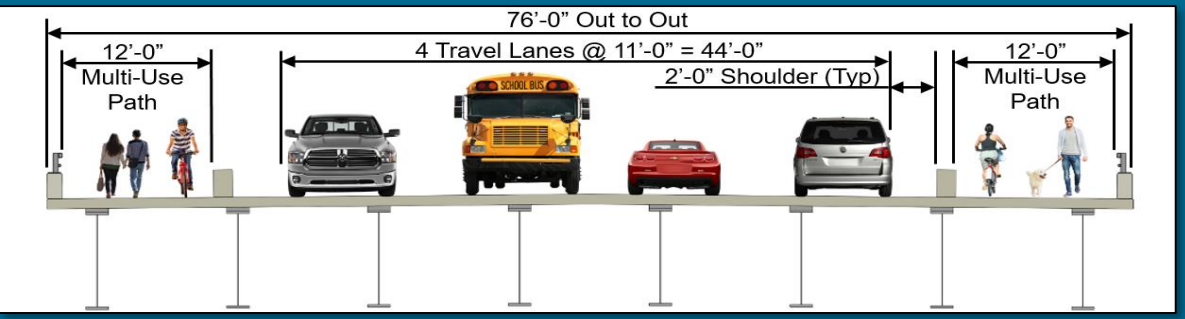
Alternative 1 – Existing Bridge Rehabilitation

- New Bike/Ped Bridge Constructed Adjacent to Bridge
- 50 – Year Design Life



Alternative 2 – Superstructure Replacement

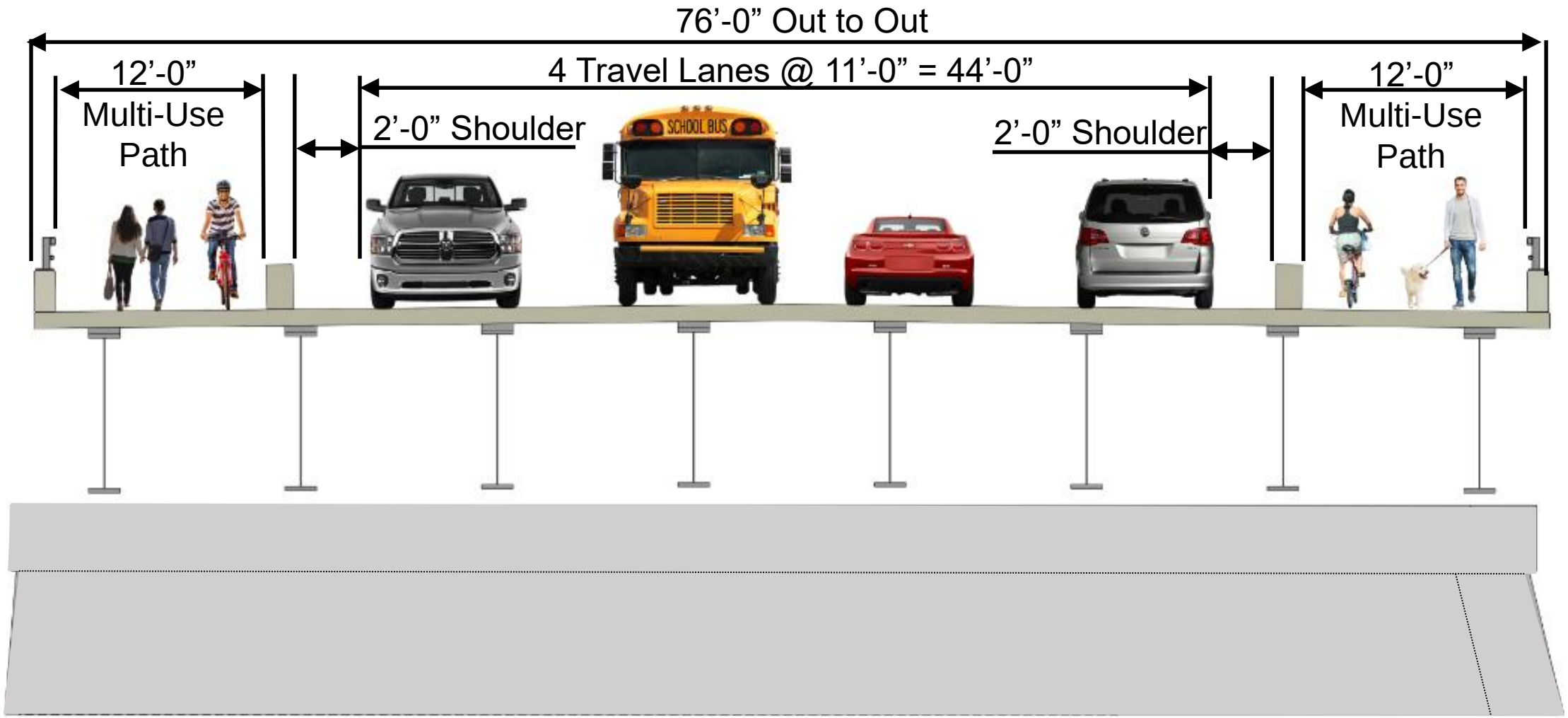
- New Bike/Ped Bridge Constructed Adjacent to Bridge
- 100 – Year Design Life



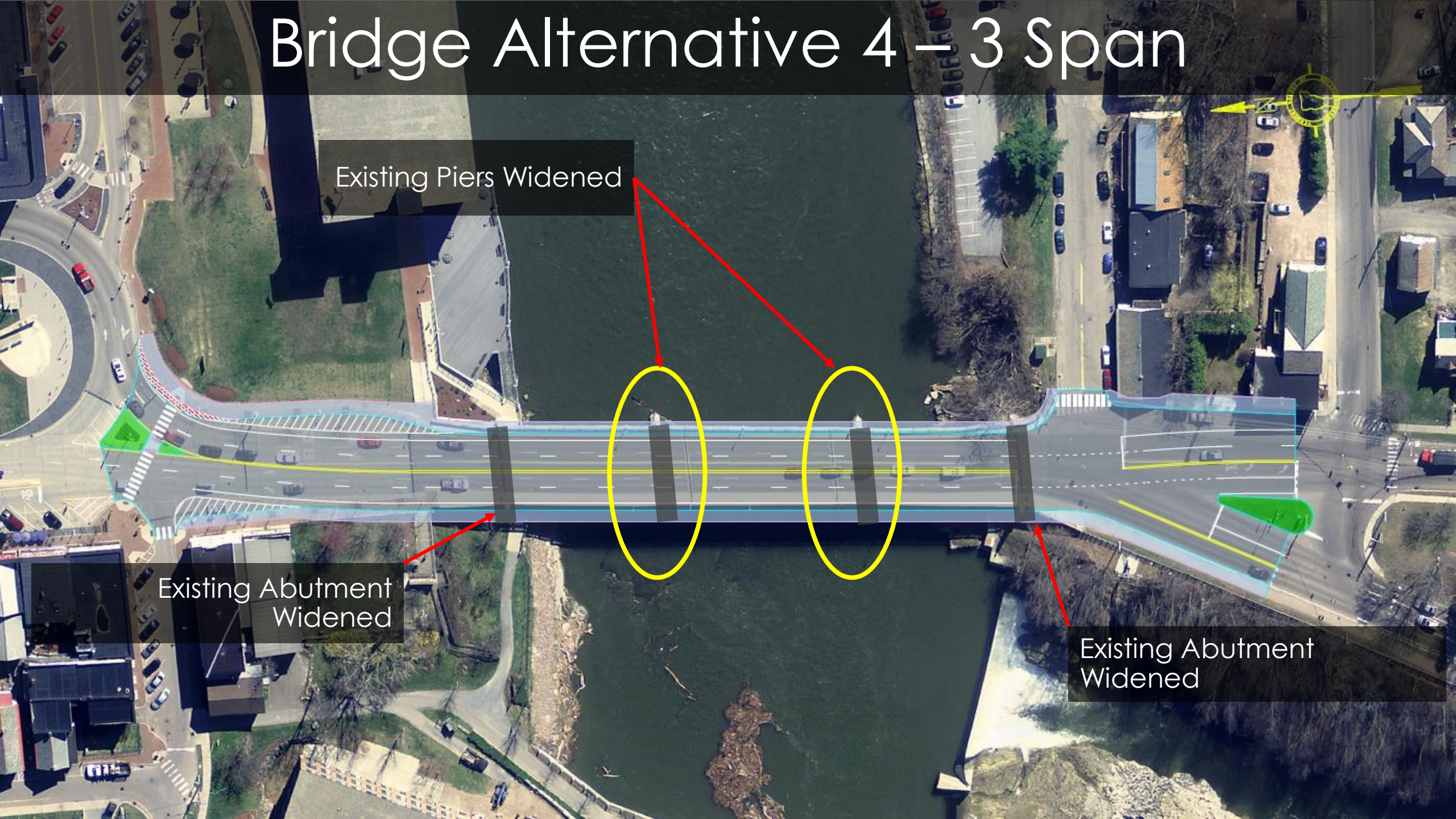
Alternative 3 – Superstructure Replacement

- Existing Piers & Abutment Widened Upstream
- 100 – Year Design Life

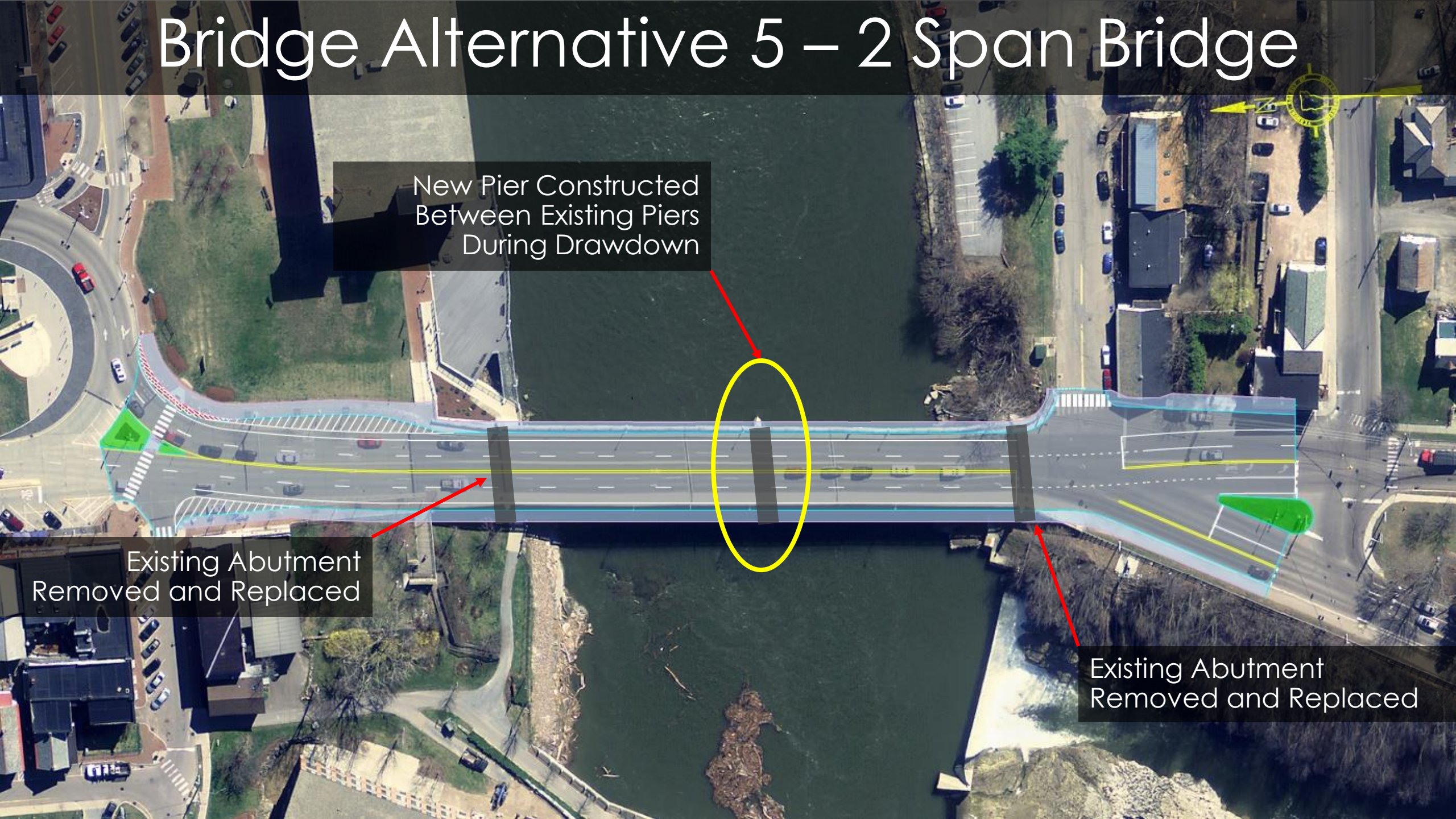
Proposed Structure



Bridge Alternative 4 – 3 Span

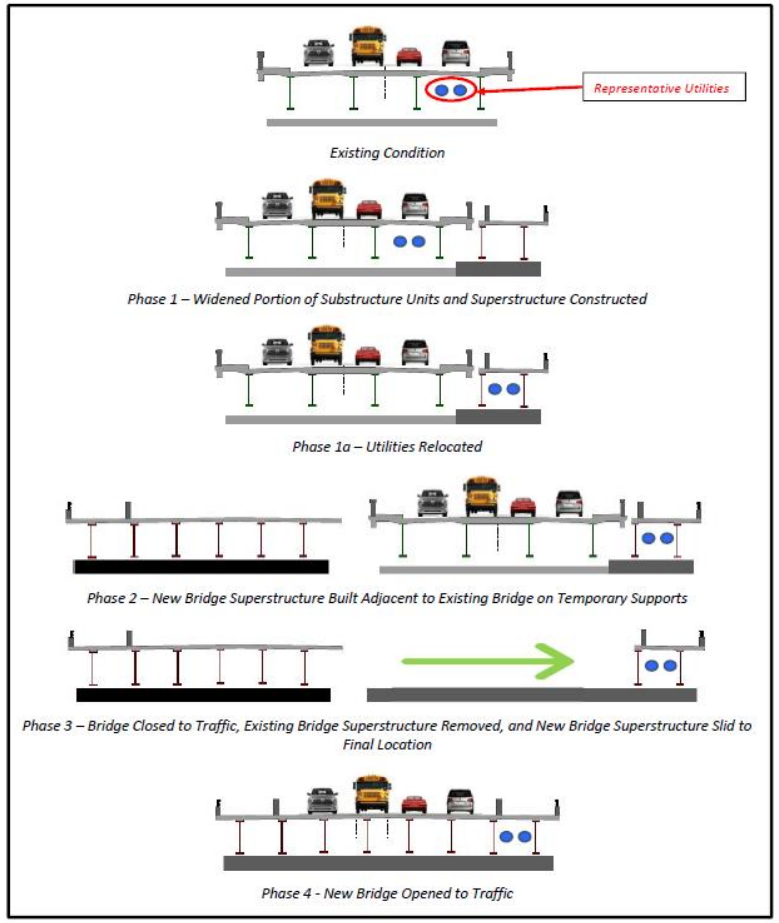


Bridge Alternative 5 – 2 Span Bridge

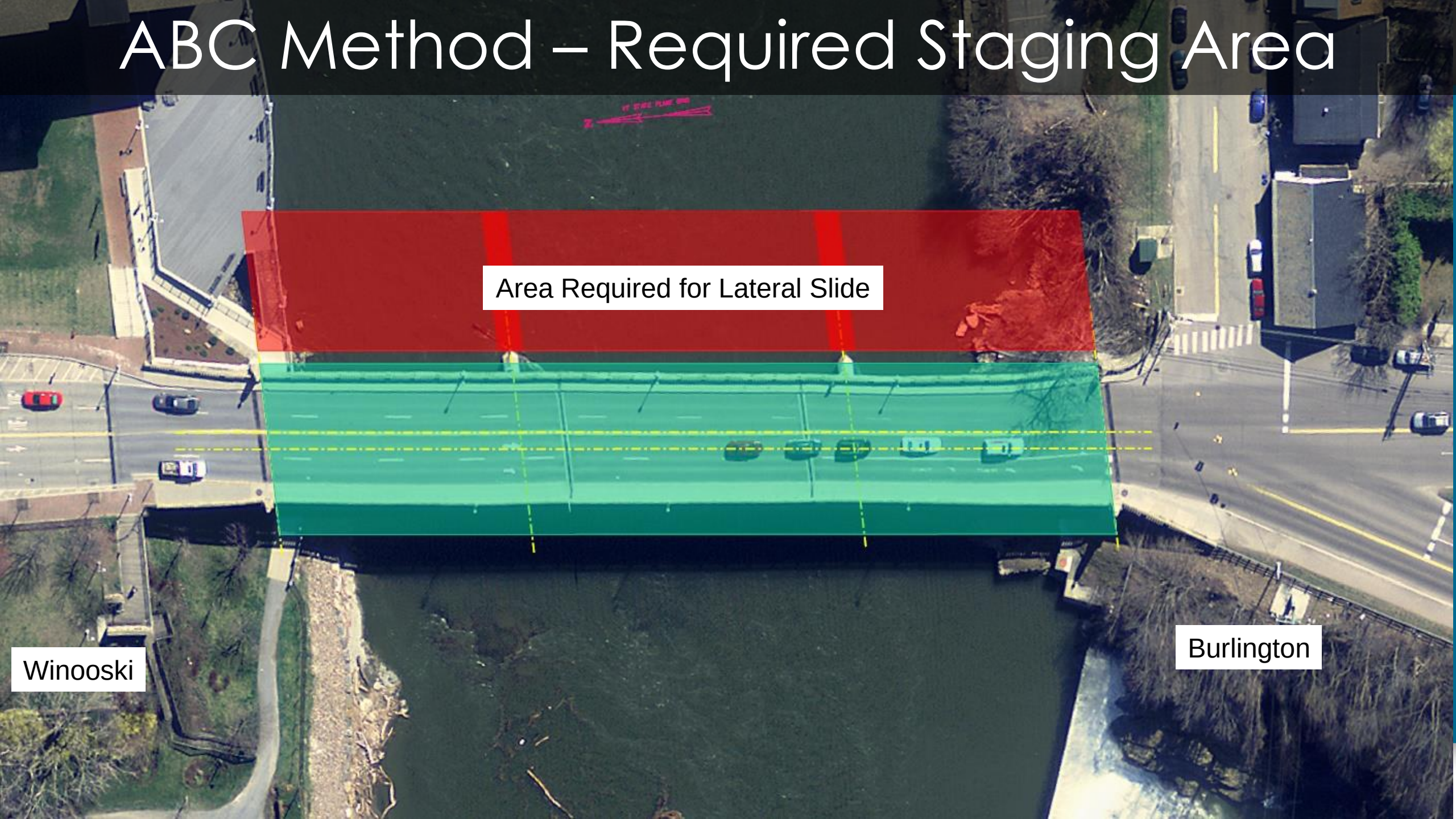


Bridge Construction Phasing: Accelerated Bridge Construction

Figure 20 - Alternative 4 ABC Phasing



ABC Method – Required Staging Area



Decision Matrix

Figure 26 - Evaluation Matrix Executive Summary

Criteria	Alternative 1	Alternative 2	Alternative 3	Alternative 4	Alternative 5
Improve Traffic Safety					
Maintain/Improve Structural Integrity					
Improve Bike & Pedestrian Travel Connectivity					
Maintain/Improve Resource Impacts					
Provide Designated Lanes for Bicyclists					
Maintain 2 Lanes Traffic in Each Dir.					
Improve Pedestrian Safety					
Traffic Control During Construction					
Total Project Costs	$10.7 Million	$12.8 Million	$17.4 Million	$18.3 Million	$22.7 Million

Alternative 4 – **$18.3 Million**

Alternative 5 – **$22.7 Million**

Locally Preferred Alternative

Advisory Committee Recommendation:

Following considerable discussion, the Advisory Committee unanimously selected both **Alternatives 4 and 5** to move forward as locally recommended alternatives and that the bridge should be constructed using an accelerated bridge construction approach.

Questions?

Next Steps:

- **Burlington City Council Meeting**
- **Publish Final Report**
- **Deliver & Present Report To VTrans**