House Transportation Committee

Burlington-Winooski BF RAIZ(2)
Burlington STP 5000(29)

May 28, 2025

BURLINGTON
WINOOSKI
BRIDGE

VERMONT
AGENCY OF TRANSPORTATION

THE CITY OF BURLINGTON

CITY OF WINOOSKI VERMONT

CHITTENDEN COUNTY RPC
Communities Planning Together

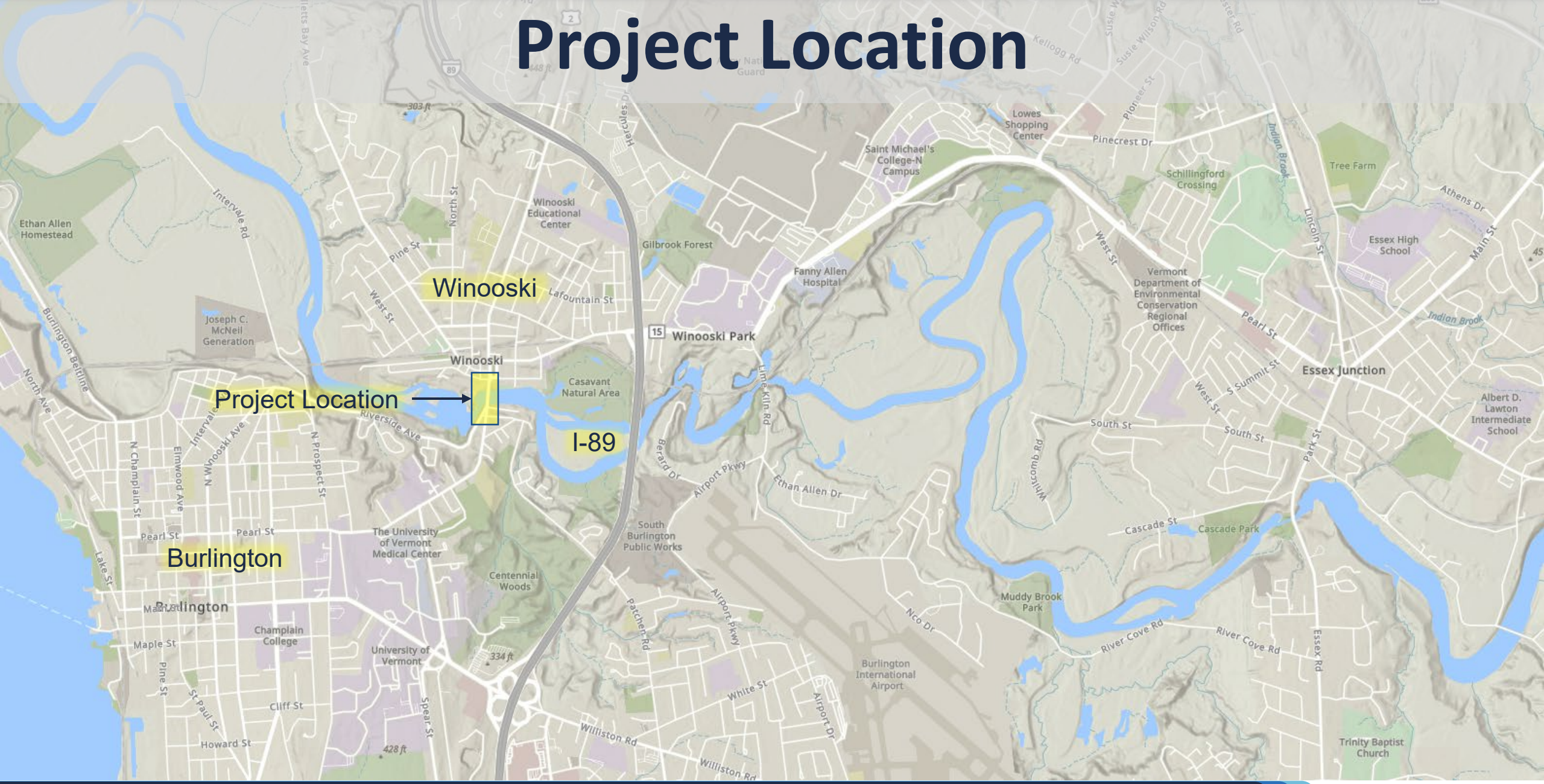
Agenda

- [x] Project Background
- [x] Base Technical Concept
- [x] Project Schedule, Budget, Contracting
- [x] Next Steps

BURLINGTON WINOOSKI BRIDGE

Project Background

Project Location



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Project Site

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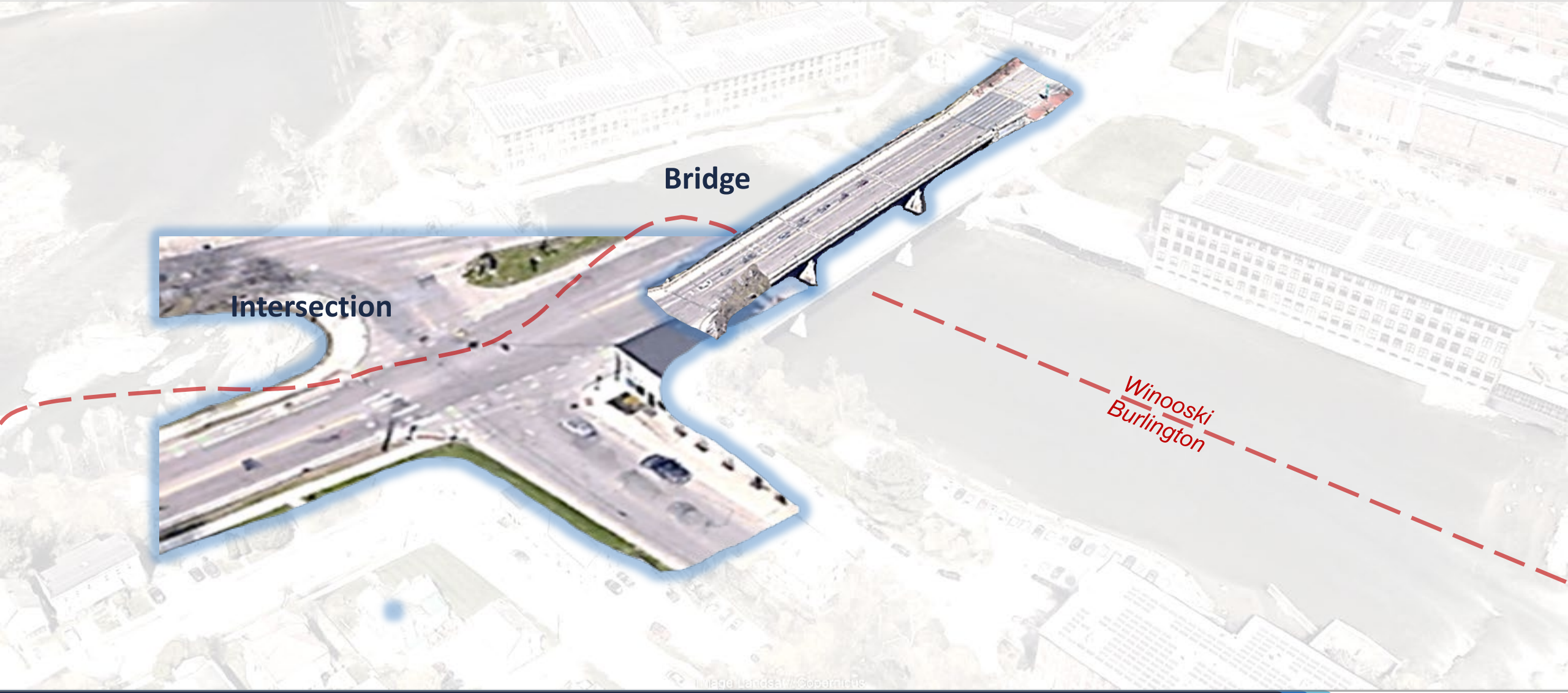
Project Focal Points



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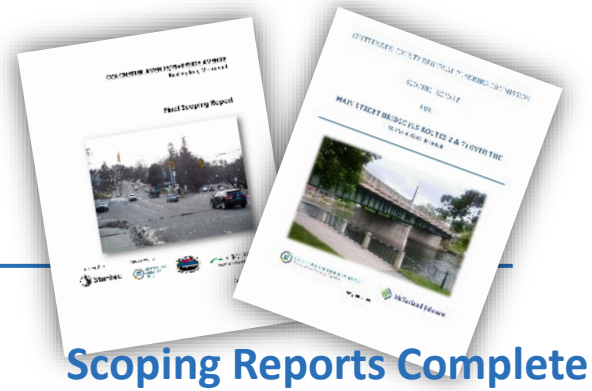
Schedule – Past



Traffic Study

- Evaluated 3 and 4 Lane Configurations

Scoping Reports Complete

- Needs, Evaluations, and Recommendations Summarized
- **Project Defined**

Scoping Reappproval

- Intersection Reconfirmed

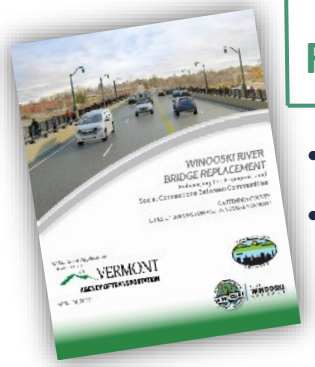
2016 2017 2018 2019 2020 2021 2022 2023

Project Begins

- Data Collected
- Purpose and Need Developed

External Input

- Public Meetings
- Advisory Committee Meetings
- City Council Meetings



RAISE Grant Application

- Federal Grant
- Awarded $24.8-Million to Fund the Project

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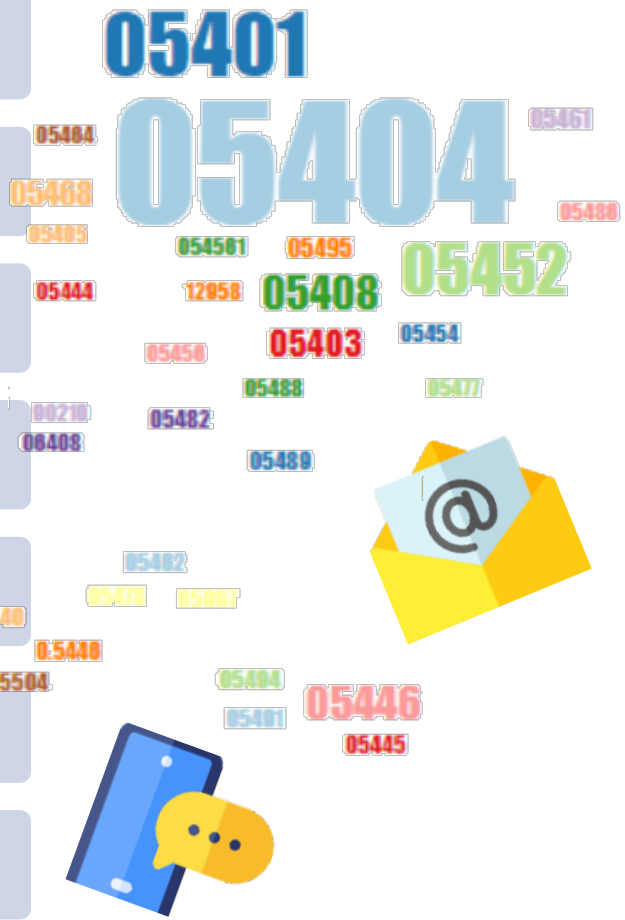
Project Refinement *(Since Early 2023)*

- Merge the Bridge and Intersection Projects
- Assess and Confirm Scoping Decisions
- Construction Method Evaluations
- Traffic Management Evaluations
- Intersection Configurations
- Public and Stakeholder Engagement

Coordination *(Since Spring 2023)*

- Public Meetings
- Local Government Meetings
- Stakeholder Engagement
- Website and E-Blasts
- Travel Survey
- Utility Coordination
- Environmental Coordination



Stakeholders Engaged:

- Burlington Electric Department
- Burlington Fire
- Burlington Telecom
- Burlington Walk Bike Council
- Chittenden County Sheriffs
- Colchester Rescue
- Consolidated Communications
- Comcast
- Downtown Winooski
- Essex Rescue
- Firstlight
- Green Mountain Power
- Green Mountain Transit
- Lake Monsters
- Local Motion
- Lumen
- Premier Coach
- St. Michael's Fire and Rescue
- State Police
- UVM CATS
- UVM Health
- UVM Police
- Vermont Division for Historic Preservation
- Vermont Gas
- Vermonters for People Oriented Places
- VTEL
- Winooski Alliance for Active Transportation
- Winooski Fire and Rescue

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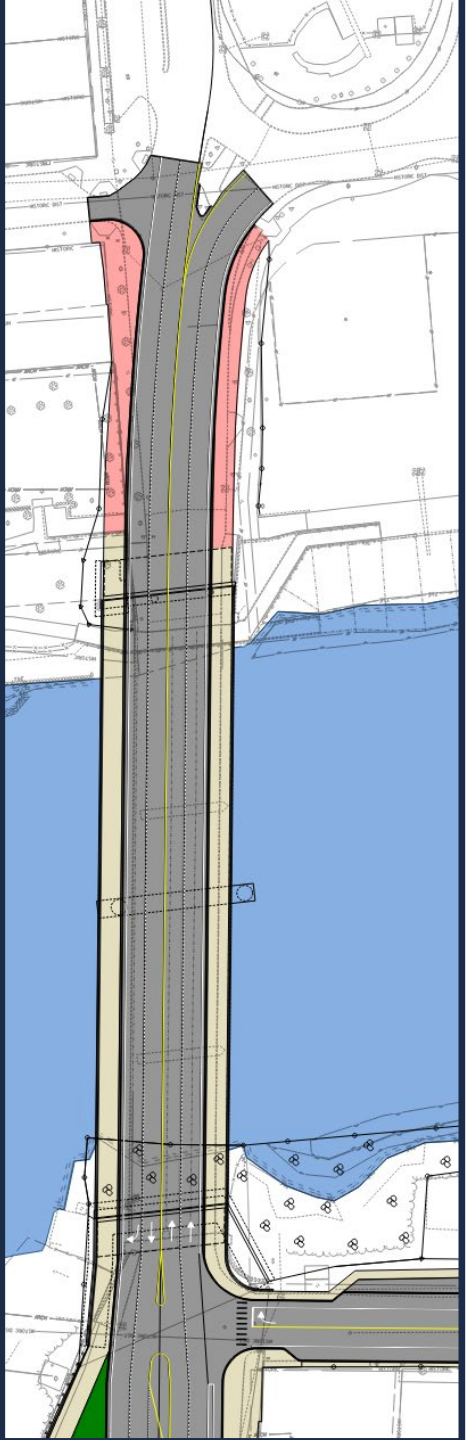

Alternate Alignments and Construction Methods

On-Alignment	FEATURE	Shifted Alignment
Tangent	Alignment	Curved
4	Lanes Detoured	2
4 - 6*	Detour Duration (Weeks)	16 – 24**
24 - 30	Construction Duration (Months)	24 - 30
No	Potential Under Bridge Path in Burlington	Yes

** Detour duration is for a full vehicular closure (NB & SB traffic detoured)*

*** Detour duration is for a partial vehicular closure (only SB traffic detoured)*

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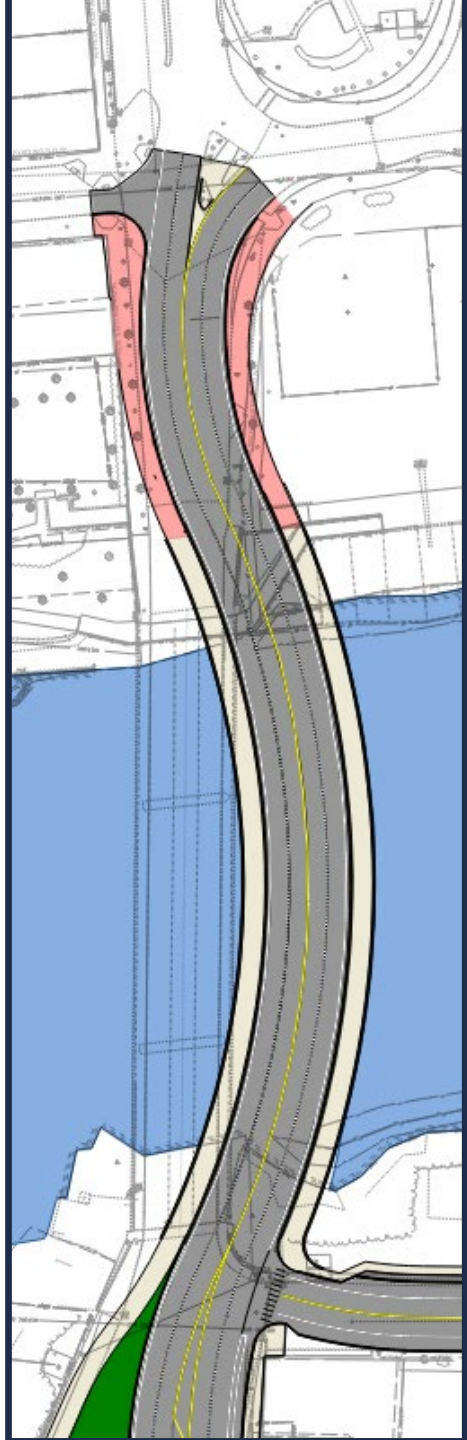

Traffic During Construction

Summer Travel Time Between 1 & 2 (1→2 / 2→1)	Existing Conditions	With Full Bridge Closure	With SB Bridge Closure
	4 – 7 min. (4 – 7 min.)	10 – 15 min. (7 – 12 min.)	4 – 6 min. (7 – 12 min.)
*	6 – 9 min. (5 – 8 min.)	12 – 22 min. (14 – 19 min.)	4 – 6 min. (12 – 15 min.)
	8 – 10 min. (8 – 10 min.)	18 – 25 min. (16 – 23 min.)	6 – 8 min. (14 – 21 min.)

* Trucks may experience additional 1-2 min. of delay

1. UVM Medical Center
2. Downtown Winooski

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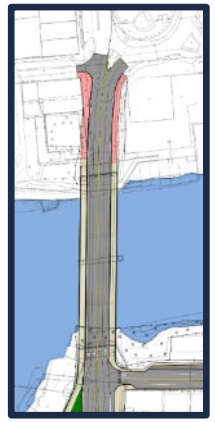
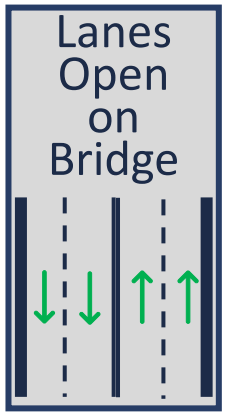
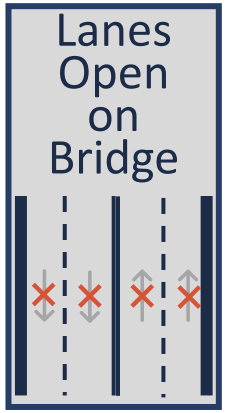
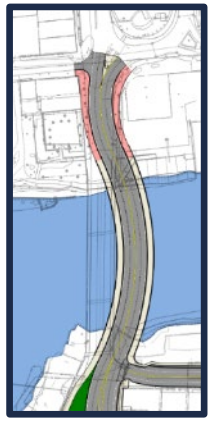
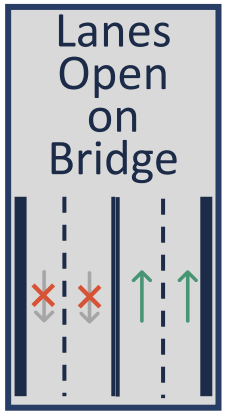


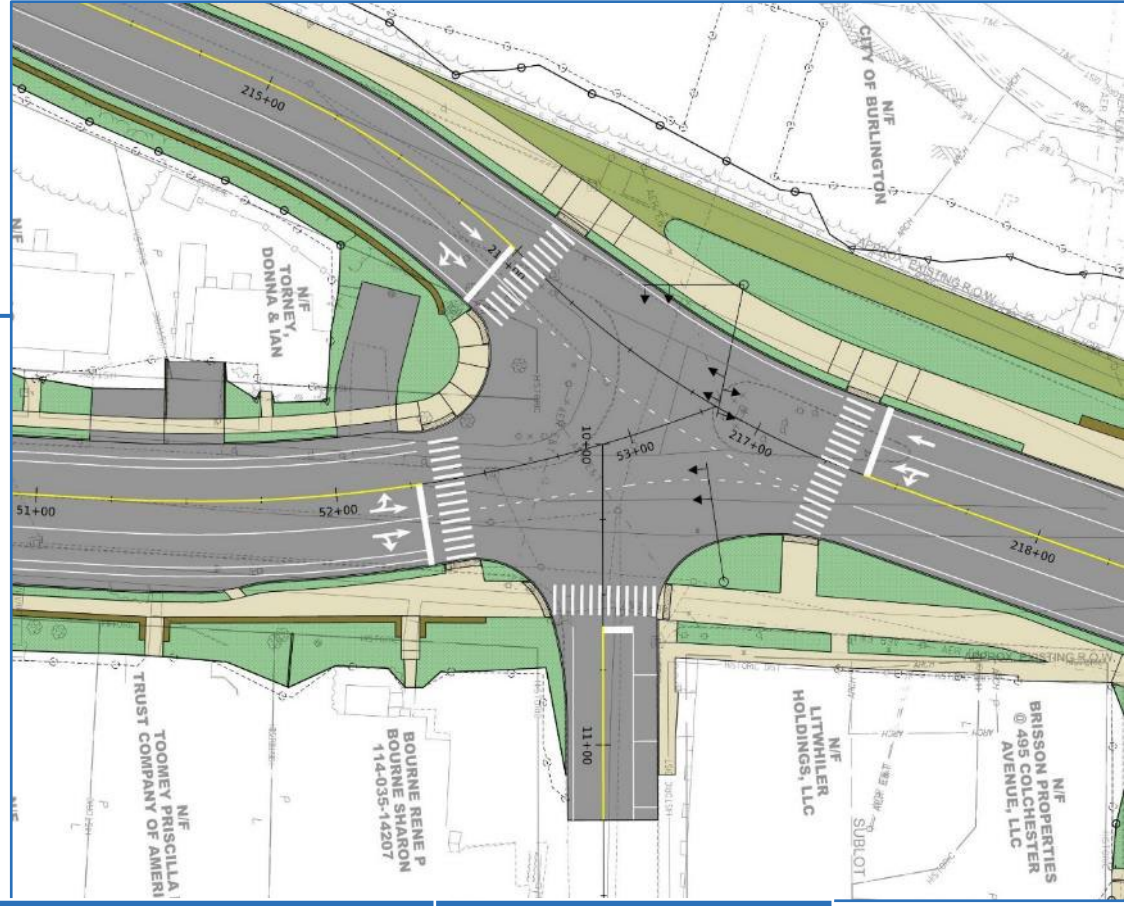








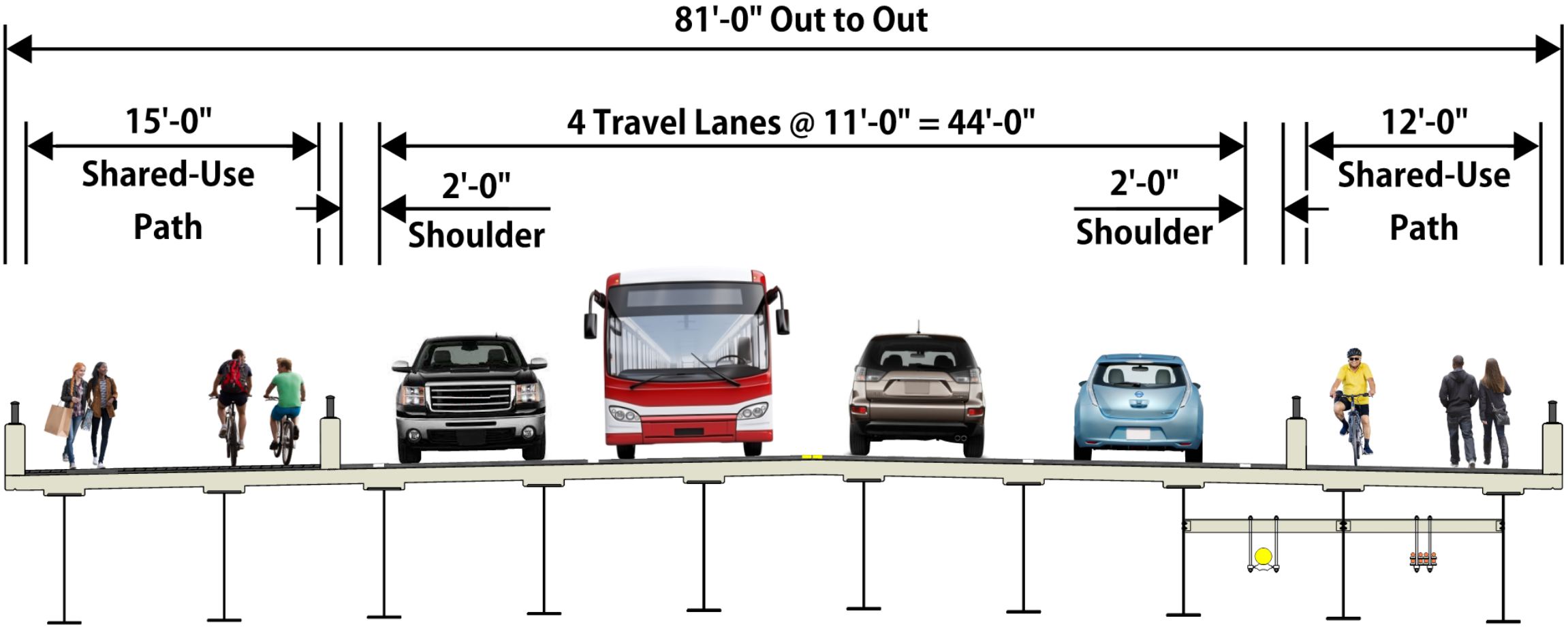
Intersection Alignments



On-Alignment	FEATURE/NEED	Shifted Alignment
✓	Four-way signalized intersection	✓
✓	Simplify intersection, reduce conflicting movements	✓
✓	Manage Traffic Congestion	✓
✓	Improved mobility for bikes and pedestrians	✓
✓	Safety Improvement for all modes of travel	✓
✓	Shared use path extending through intersection	✓

Base Technical Concept (BTC)

Bridge Cross Section



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Existing Conditions

Conceptual Shifted-Alignment

View Looking North

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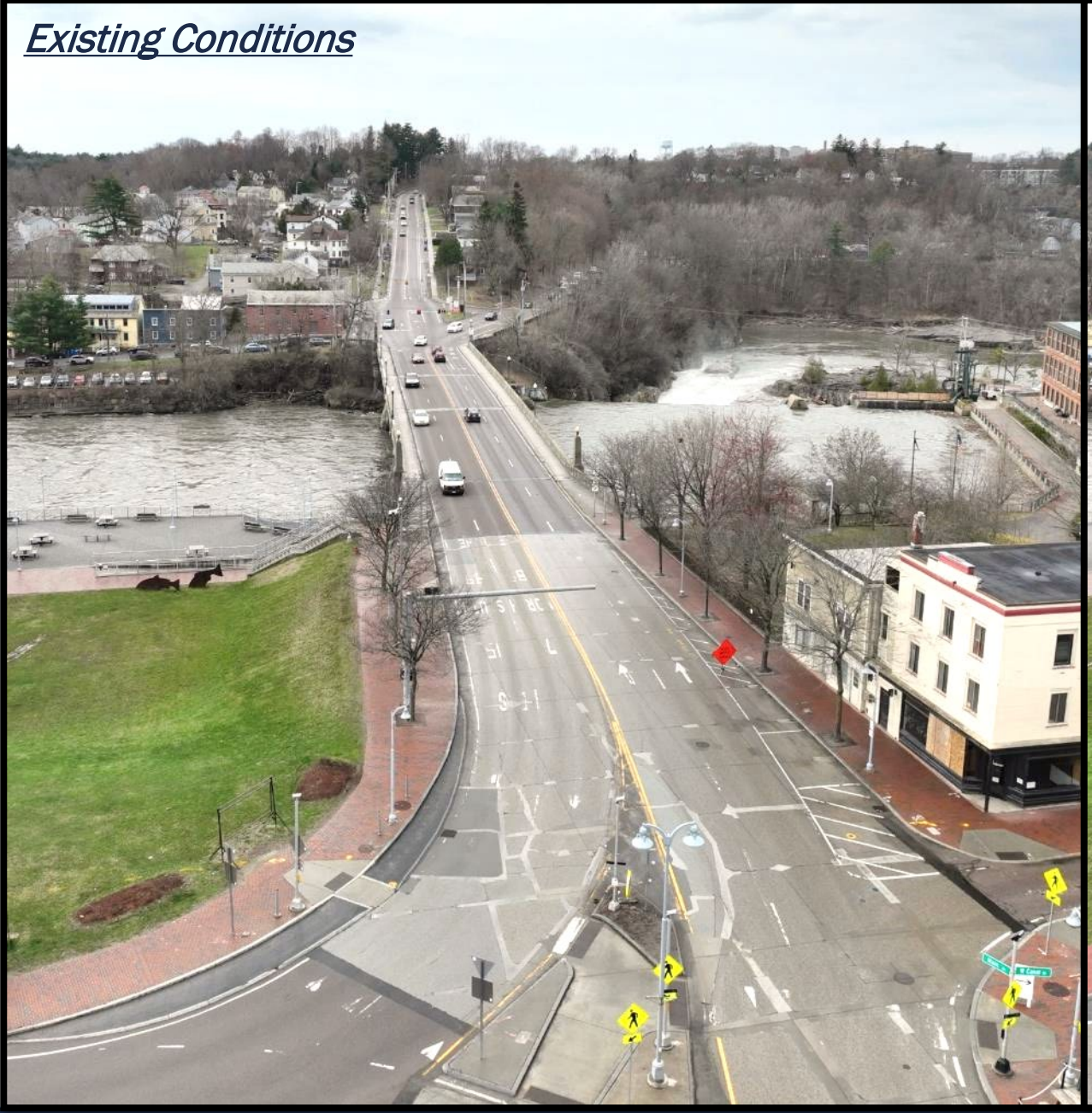
Existing Conditions



Conceptual Shifted-Alignment

View Looking South

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Bridge/Intersection Continuity

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Conceptual Shifted/Curved Alignment

Conceptual On-Alignment

Intersection View

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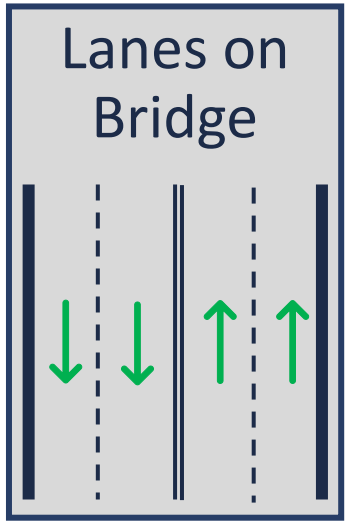
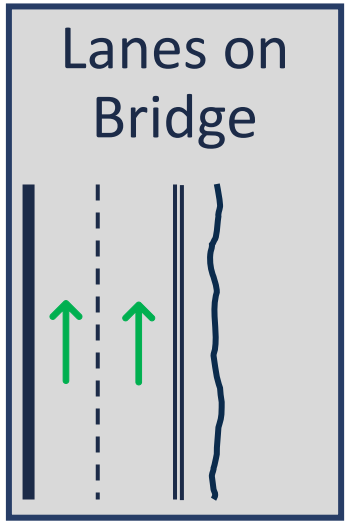
Construction Progression

Partial Construction, Upstream of Existing Bridge



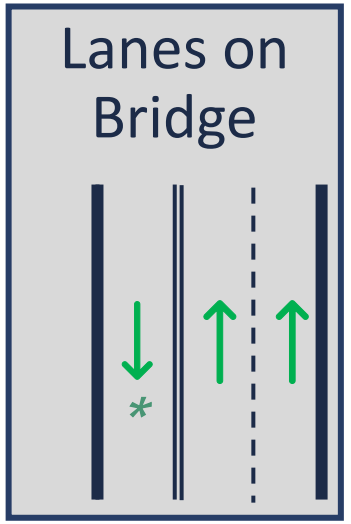
Existing Conditions

Remove Portion of Existing Bridge; Complete Upstream Construction



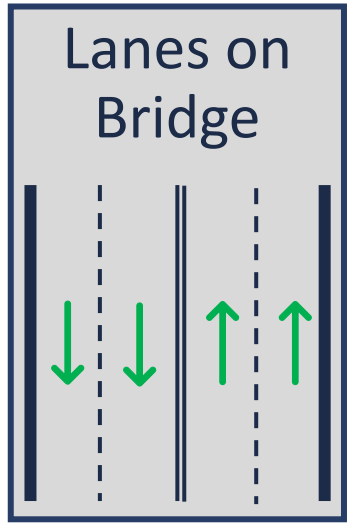
4-6 Months

Transfer Traffic; Complete Demolition; Complete Construction



12-16 Months

Fully Open Bridge; Site Restoration



Final Conditions

** Southbound to Riverside Avenue Only*

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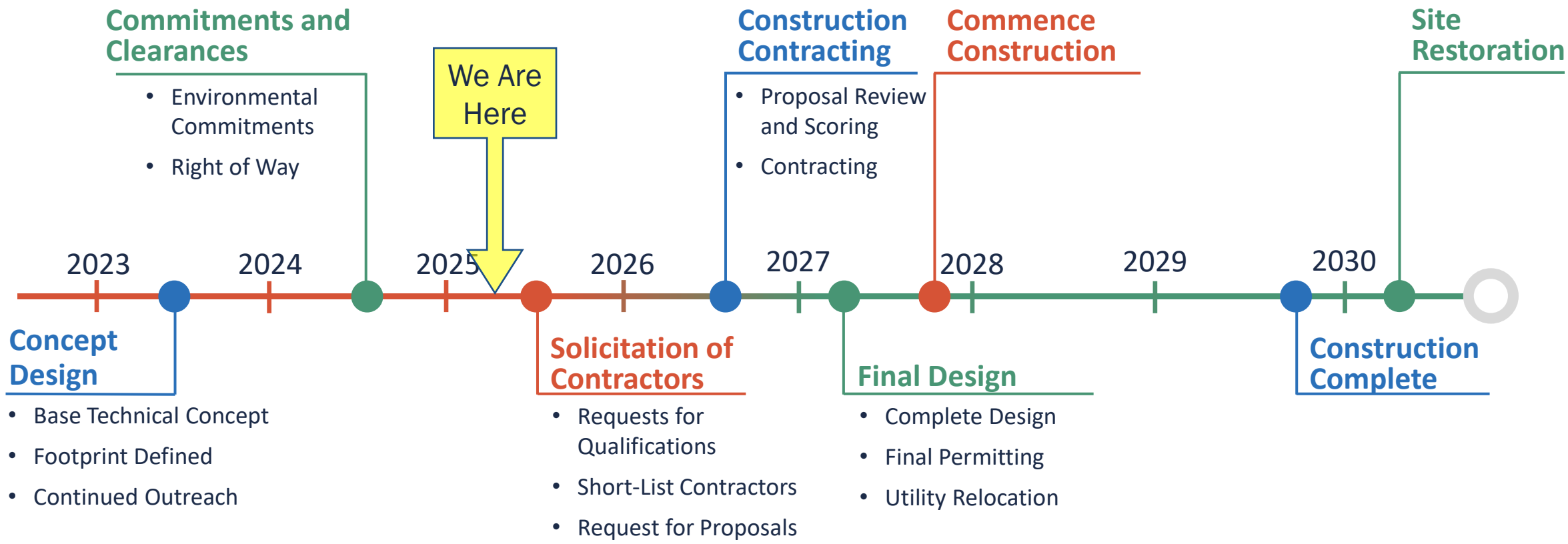
Schedule, Budget, and Contracting

Schedule – Current and Future



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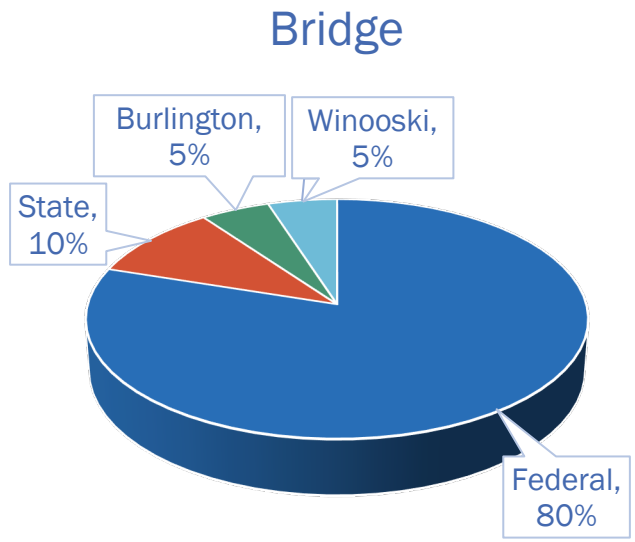
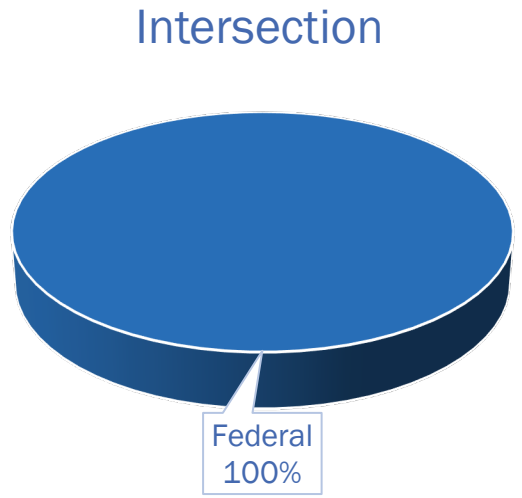
Project Costs and Funding

- Bridge Project Received a Federal RAISE Grant worth approximately $24.8-million
- Total Bridge Project costs are estimated to be conceptually $70 - $80-million
- Total Intersection Project costs are estimated to be conceptually $8 - $9 million





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Design-Build Contracting

Project delivery method that:

- Incorporates final design and construction into a single contract.
- Places increased responsibilities on the Contractor in an attempt to reduce risks and costs to the State.

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Why Use Design-Build Contracting?

- ☑ Promotes Innovation
- ☑ Improves Design/Construction Efficiencies
- ☑ Reduces Construction Costs
- ☑ Reduces Construction Schedule

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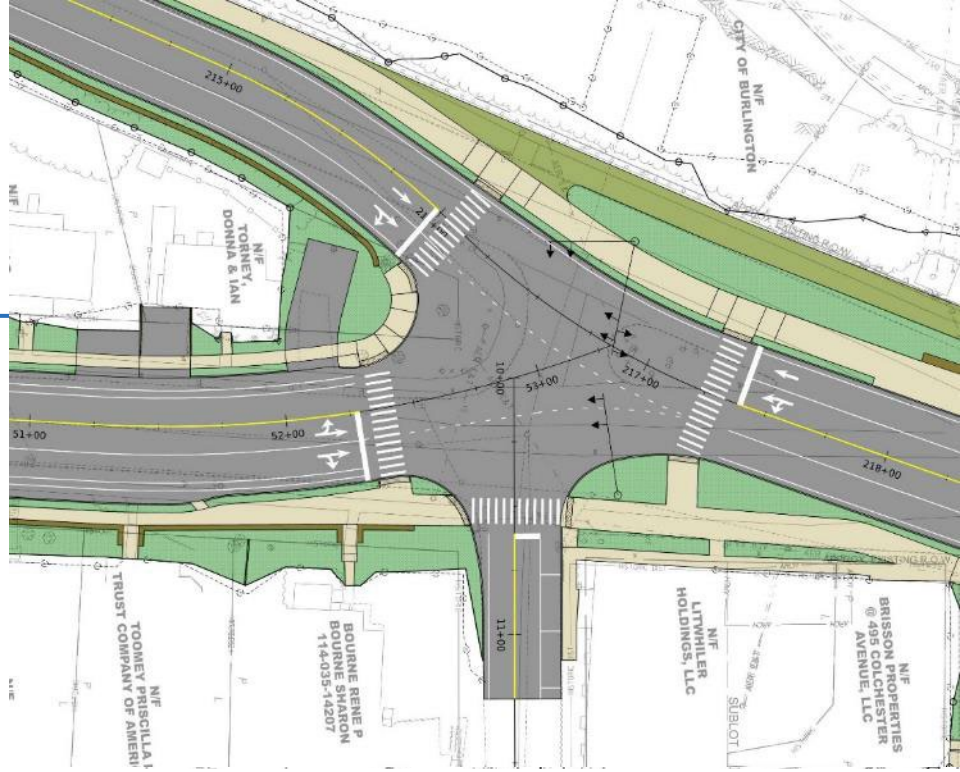
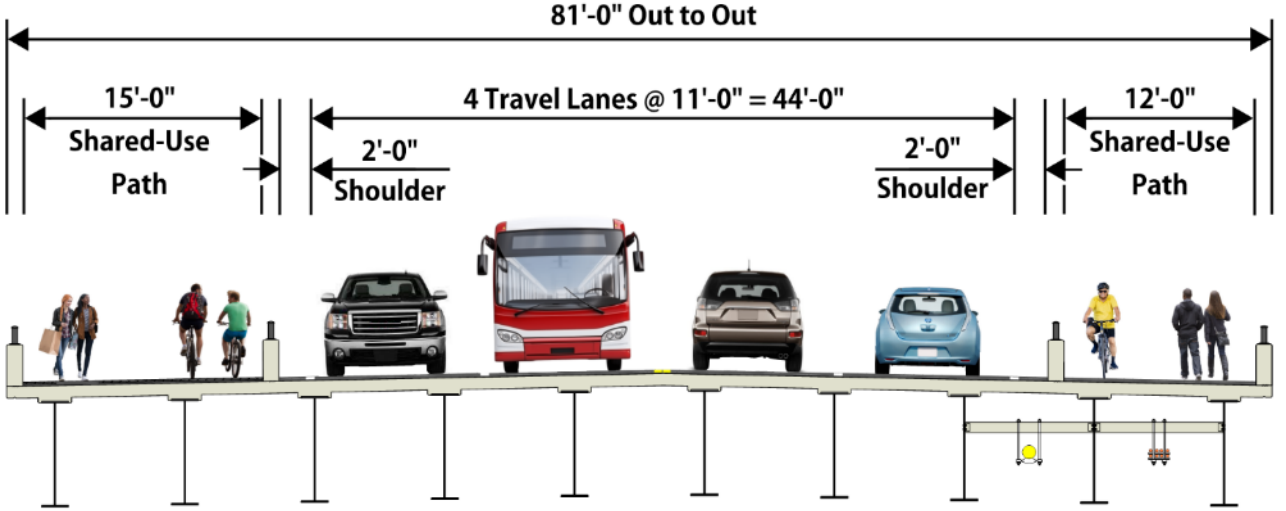
Prescriptive vs Flexible Requirements

- **Prescriptive**: Items or actions that are required within specifically defined parameters, without exception.
- **Flexible**: Items or actions that represent the nature and goals of the project and have established boundaries, but are not prescriptively defined.

Prescriptive Requirement Examples

- Bridge Cross Section
- Two Span Bridge
- Minimum Hydraulic Opening
- Historic requirements
- Signalized Intersection





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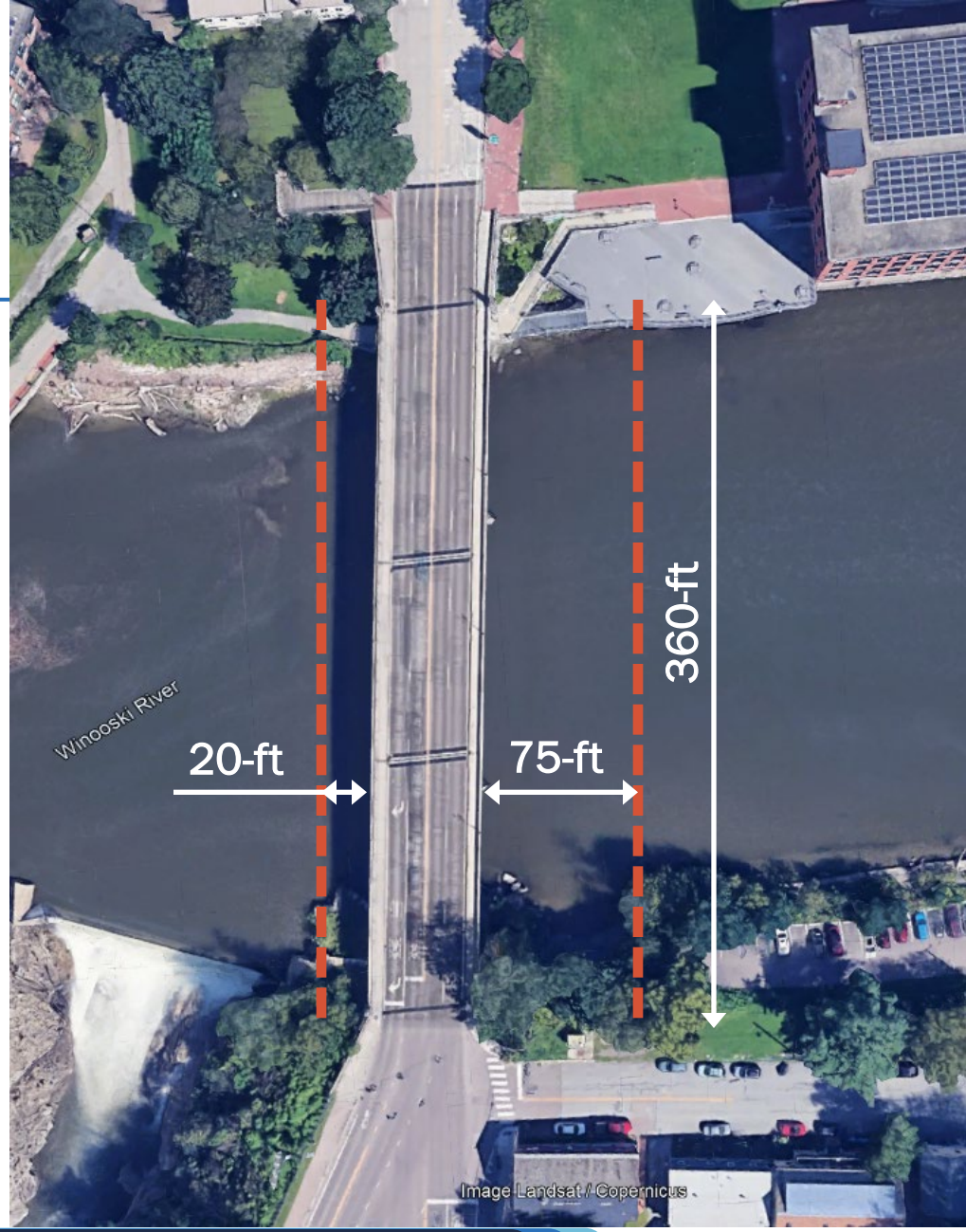
Flexible Requirement Examples

- Approximately 360-ft Long
- Bridge Location/Alignment
- Girder Spacing
- Traffic Control/Schedule
- Pedestrian Phasing
- Sidewalk/greenbelt/shared use path materials
- Stormwater features



Questions?

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https://burlingtonwinooskibridge.vtransprojects.vermont.gov/

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