

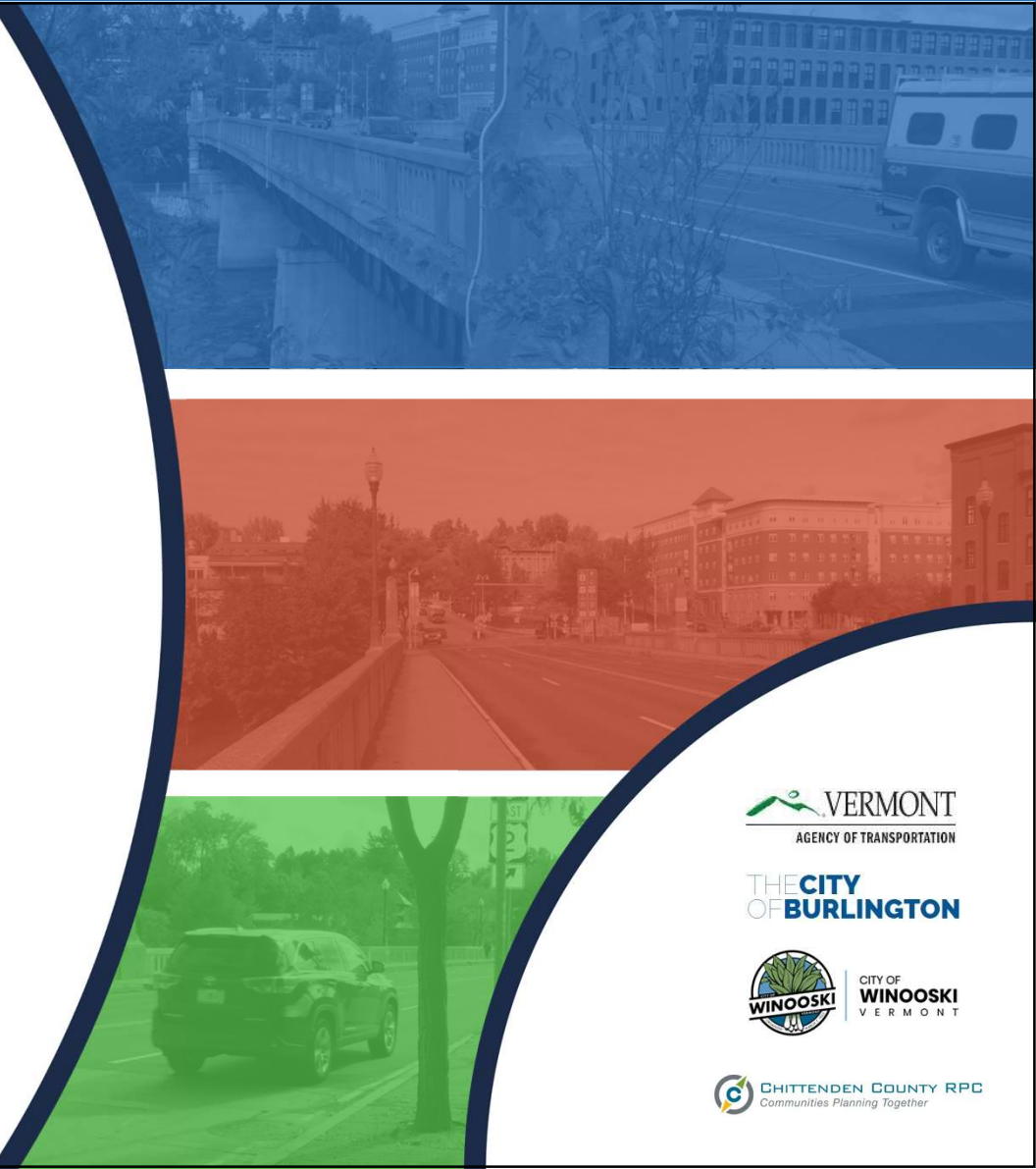
Burlington TEUC Meeting

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

October 29, 2024



**BURLINGTON
WINOOSKI
BRIDGE**



Introductions

- **Bob Klinefelter** – VTrans Structures Project Manager
- **Michael LaCroix** – VTrans Traffic Project Manager
- **Carolyn Cota** – VTrans Structures Program Manager
- **Josh Olund** – HNTB Structures Project Manager
- **Steve Spear** – HNTB Roadway Project Manager

Agenda



Meeting Purpose



Base Technical Concept



RFP Considerations



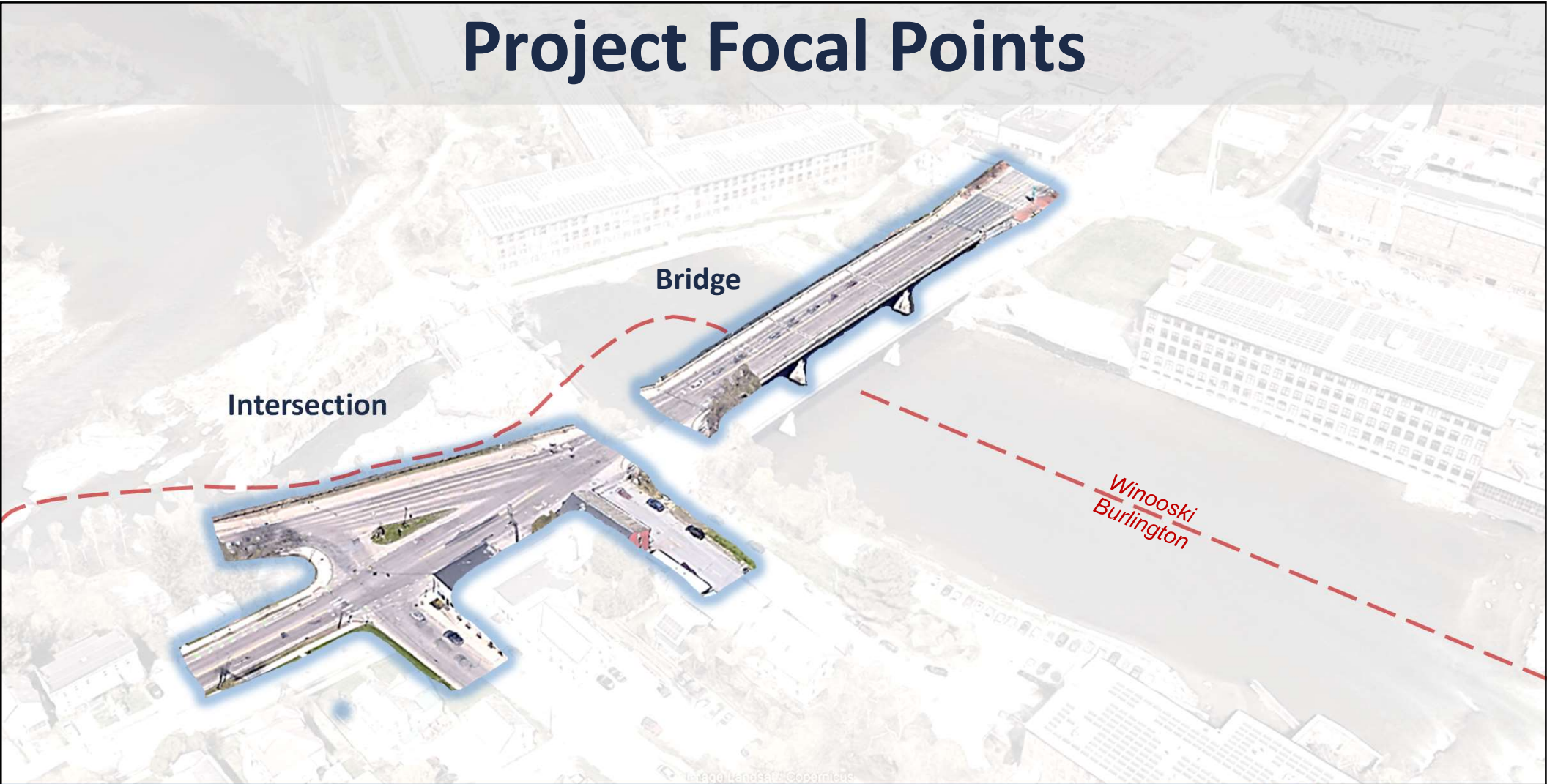
Next Steps

Meeting Purpose

- *To provide a project update to Burlington TEUC ahead of seeking approval on the Base Technical Concept and the approach towards developing the contract documents at a future Council meeting*



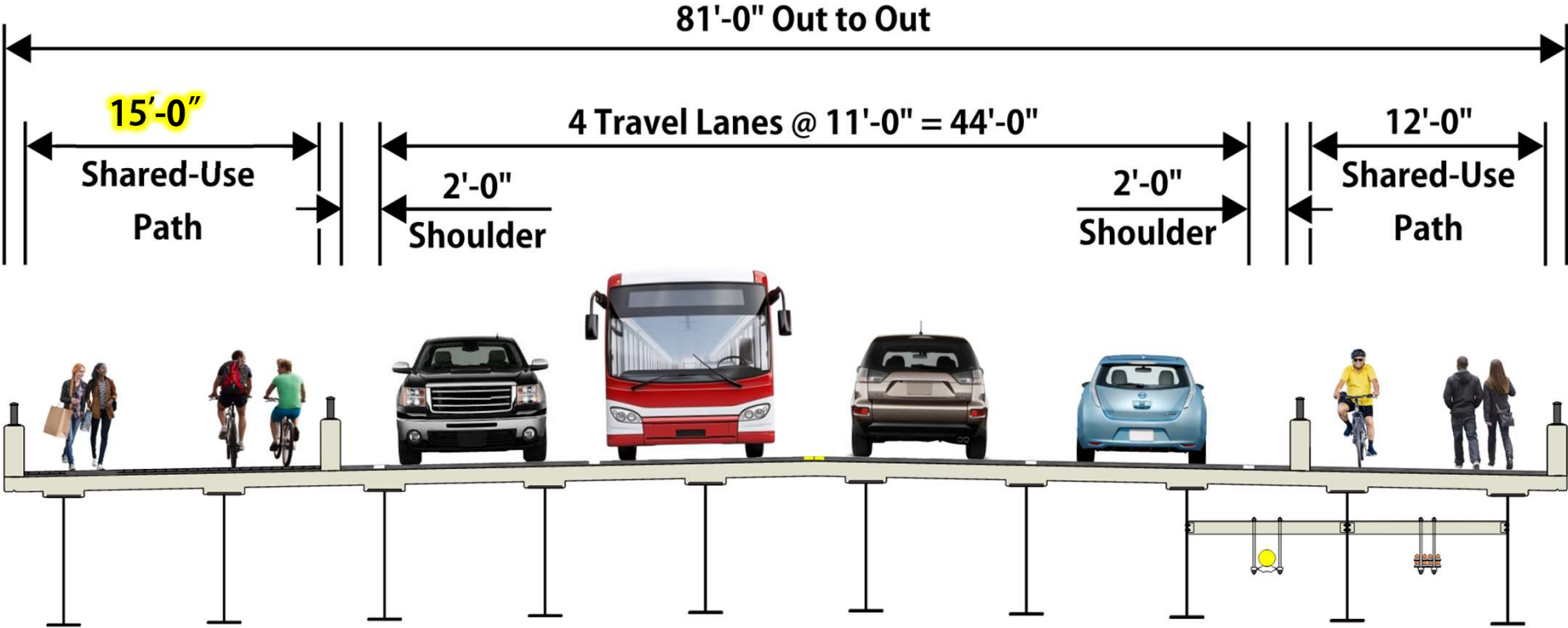
Project Focal Points



Base Technical Concept (BTC)



Bridge Cross Section



Existing Conditions



Conceptual Shifted-Alignment



View Looking North

Existing Conditions



Conceptual Shifted-Alignment



View Looking South



Existing Conditions



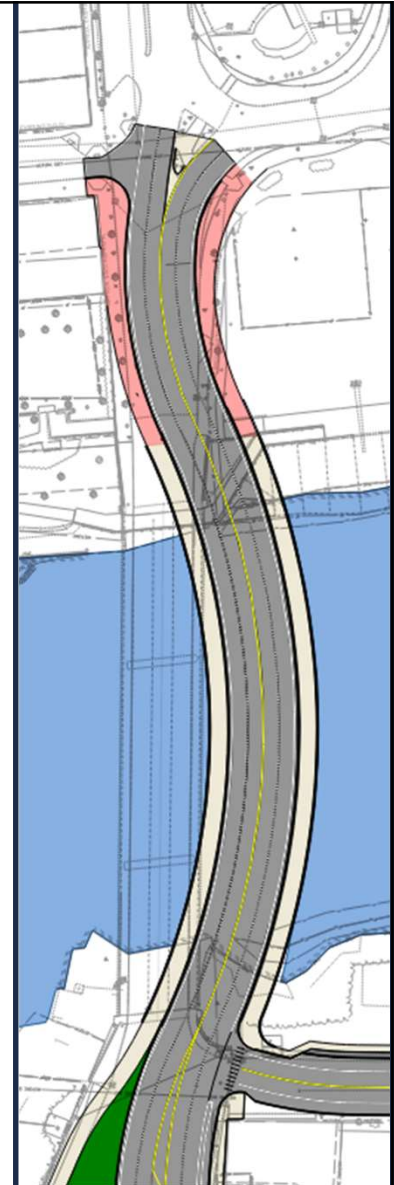
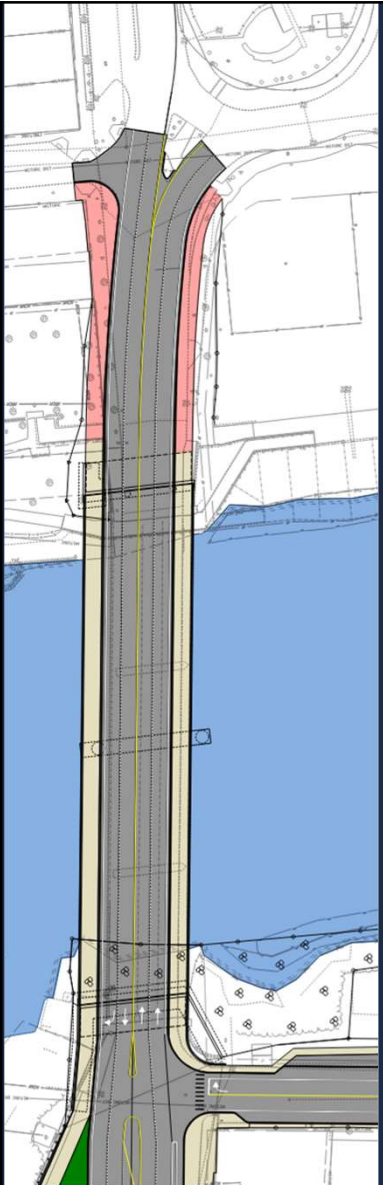
Conceptual Shifted-Alignment

Alternate Alignments and Construction Methods




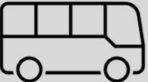
| On-Alignment | <u>FEATURE</u> | Shifted Alignment |
|--------------|---|-------------------|
| Tangent | Alignment | Curved |
| 4 | Lanes Detoured | 2 |
| 4 - 6* | Detour Duration (Weeks) | 16 - 24** |
| 24 - 30 | Construction Duration (Months) | 24 - 30 |
| No | Potential Under Bridge Path in Burlington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

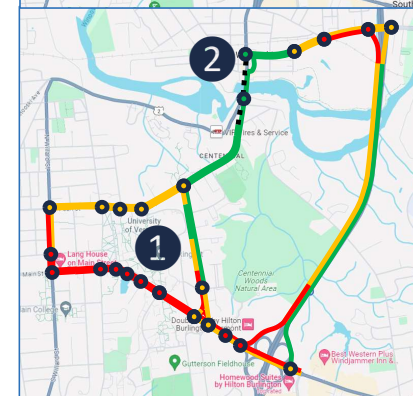
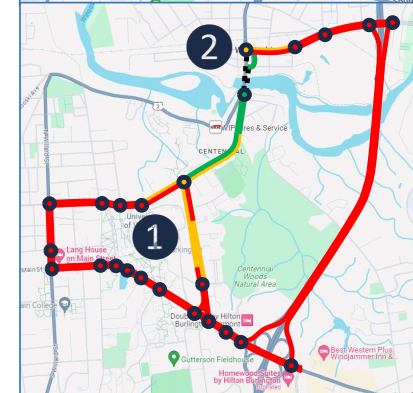
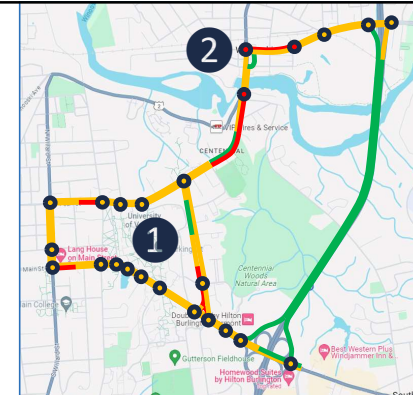
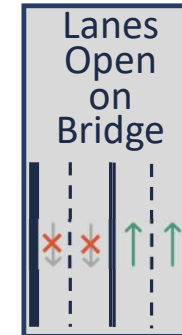
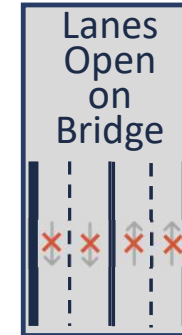
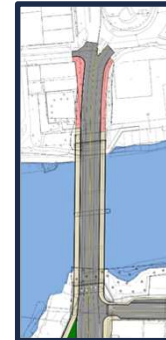
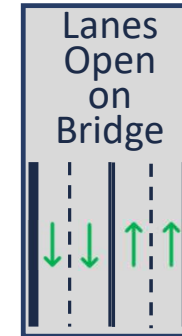


Traffic During Construction

| 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

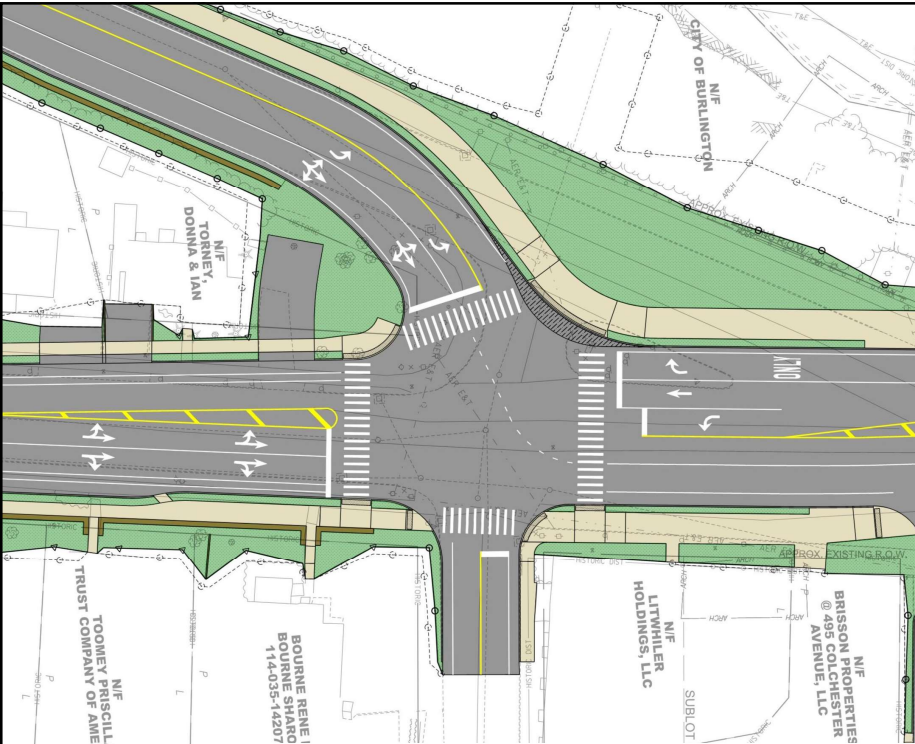




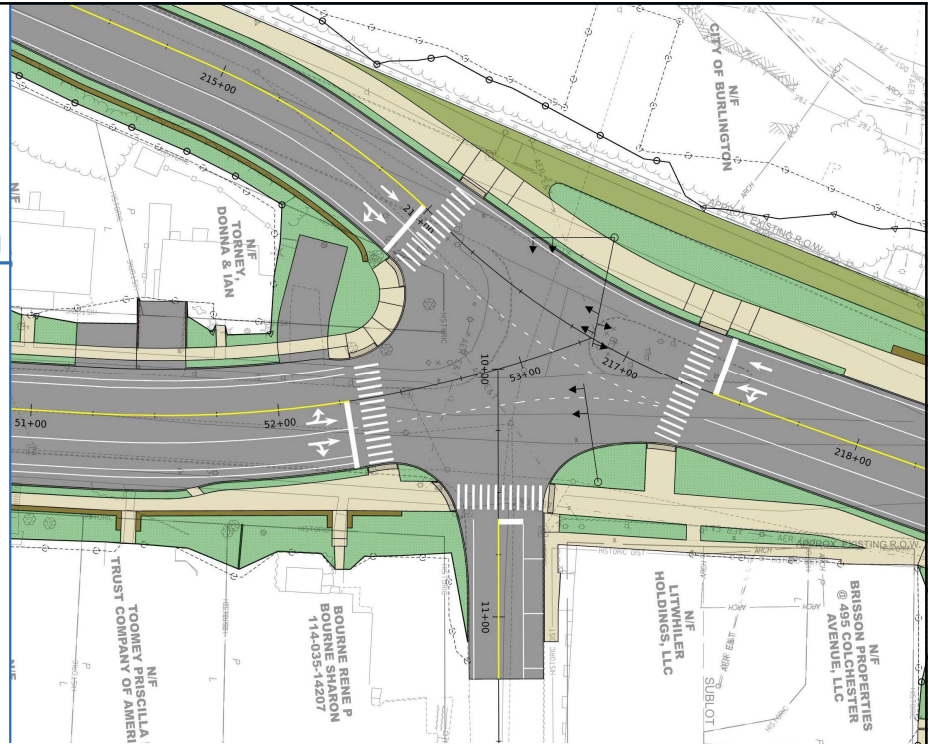
END PROJECT BURLINGTON STP. 50
 BEGIN PROJECT BURLINGTON-WINOOSKI

Bridge/Intersection Continuity





Intersection Alignments



| On-Alignment | <u>FEATURE/NEED</u> | 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 | ✓ |

RFP Considerations

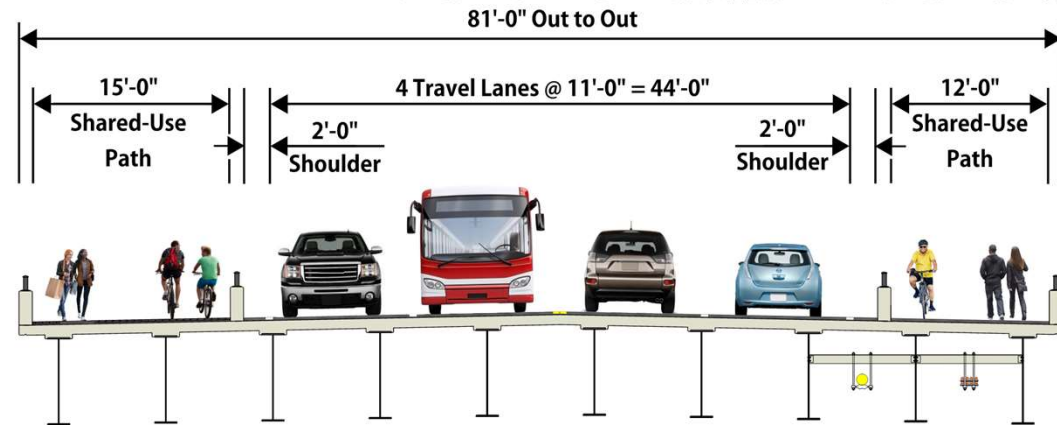
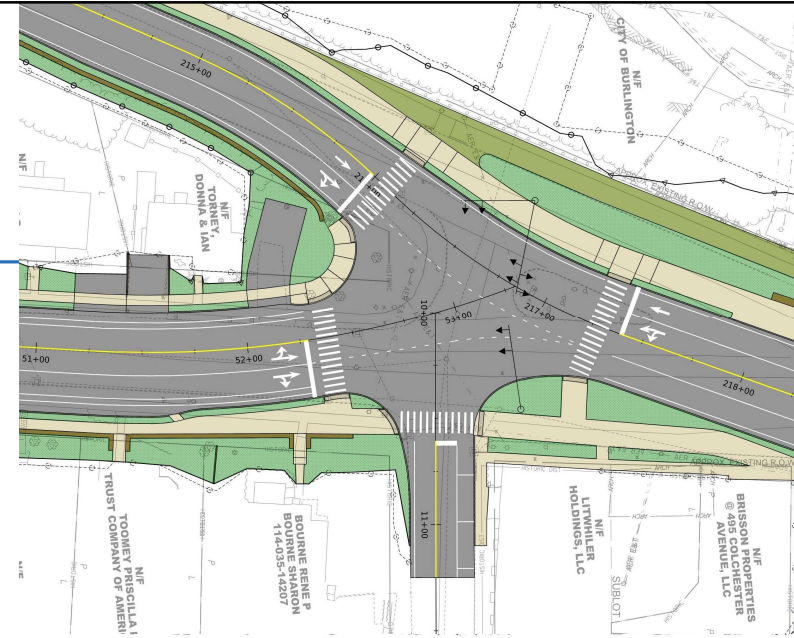


Prescriptive vs Flexible Requirements

- **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.

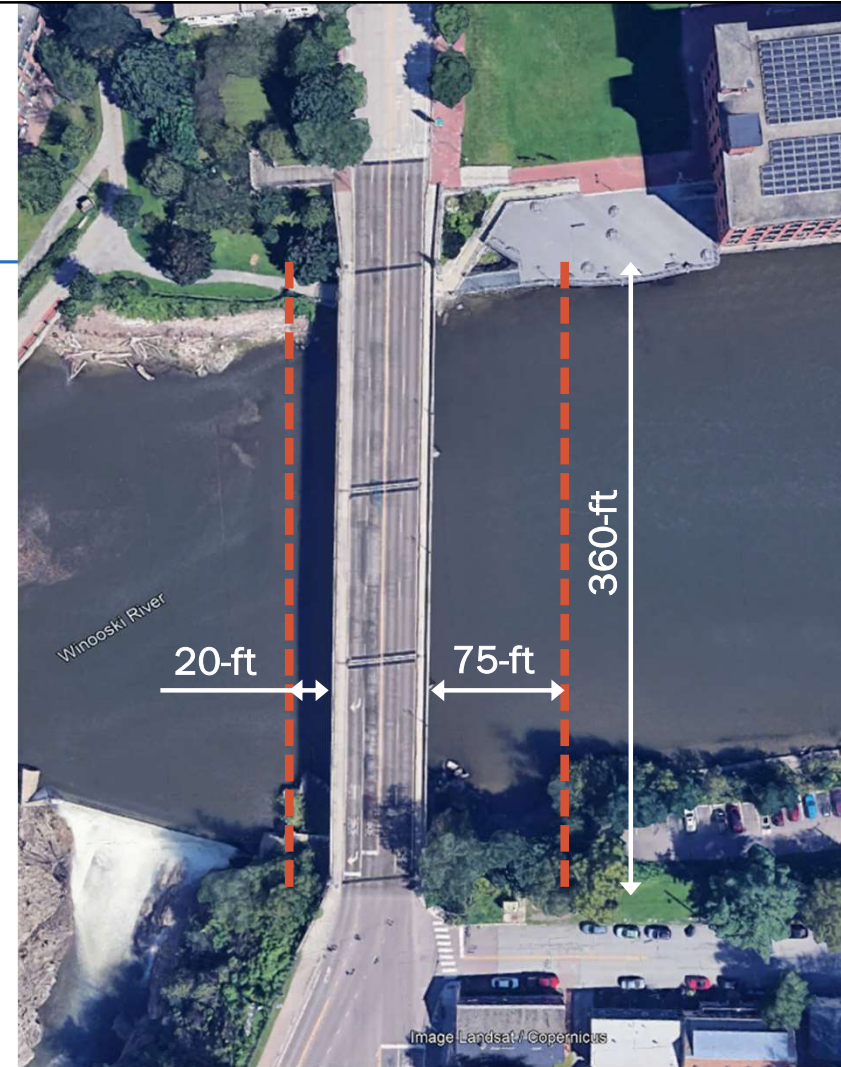
Prescriptive Requirement Examples

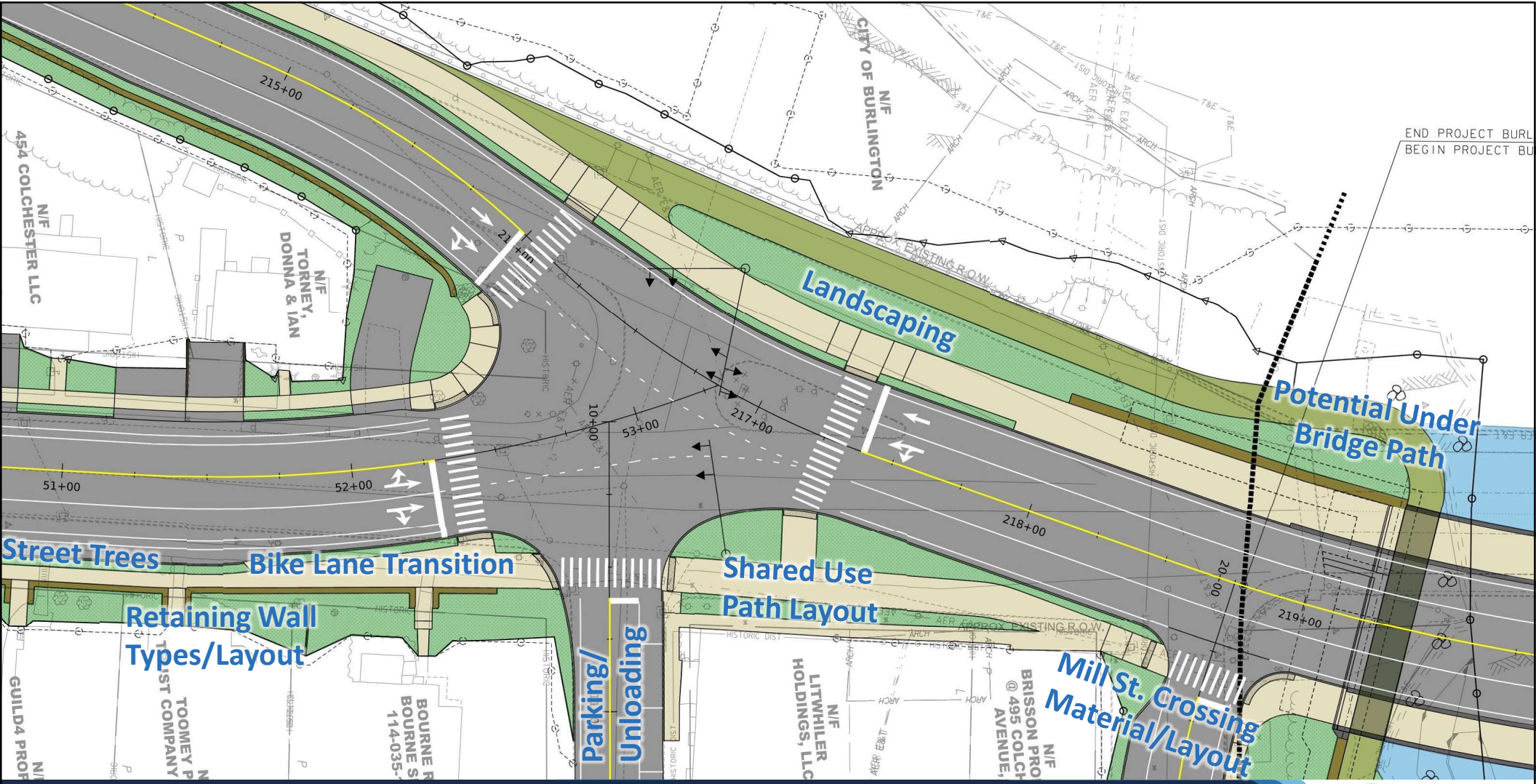
- Bridge Cross Section
- Two Span Bridge
- Minimum Hydraulic Opening
- Historic requirements
- Signalized Intersection



Flexible Requirement Examples

- Approximately 360-ft Long
- Bridge Location/Alignment
- Girder Spacing
- Traffic Control/Schedule
- Pedestrian Phasing
- Utility Relocation
- Retaining Wall(s)





Additional Considerations



Conceptual Shifted/Curved Alignment



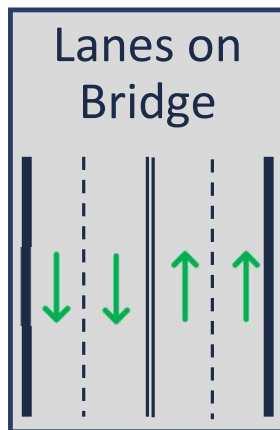
Conceptual On-Alignment



Intersection View

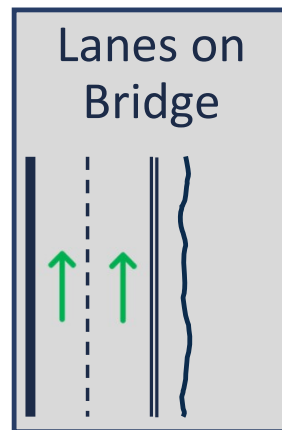
Construction Progression

Partial Construction,
Upstream of Existing
Bridge



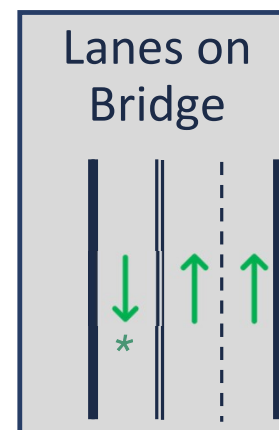
Existing
Conditions

Remove Portion of
Existing Bridge;
Complete Upstream
Construction



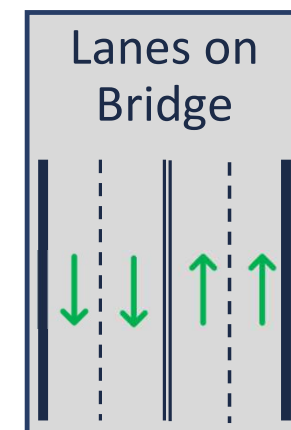
4-6 Months

Transfer Traffic;
Complete Demolition;
Complete Construction



12-16 Months

Fully Open Bridge;
Site Restoration

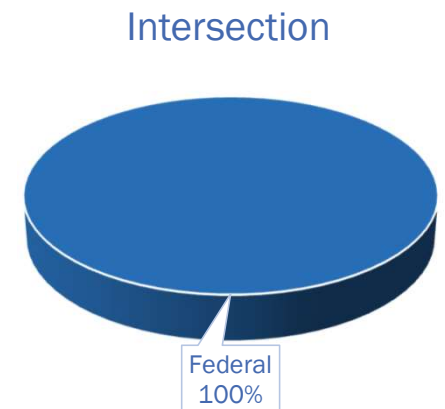
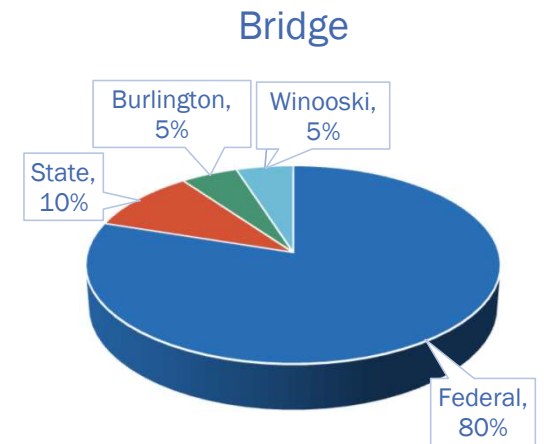


Final
Conditions

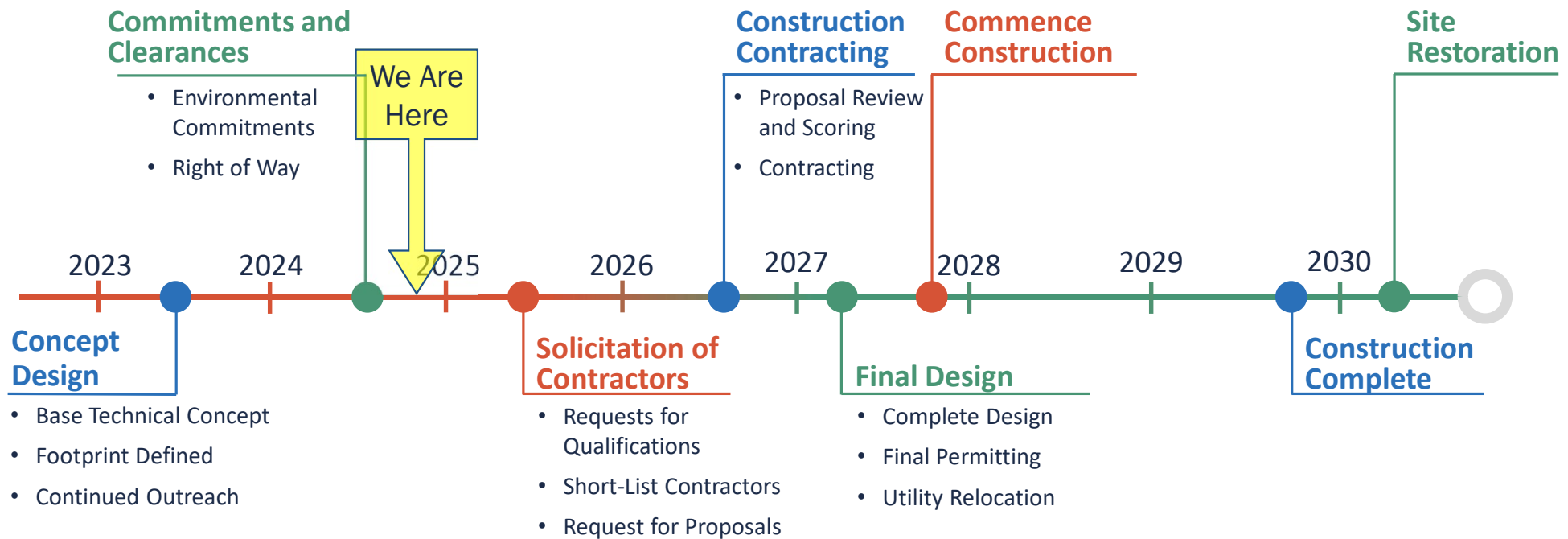
** Southbound to Riverside Avenue Only*

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



Schedule – Current and Future



Next Steps



Next Steps

- Public Open House
- Burlington City Council Meeting
- RFQ and RFP Development
- Continued Coordination for:
 - Right of Way
 - Environmental Commitments
 - Utility Relocation

Questions?



**BURLINGTON
WINOOSKI
BRIDGE**



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



THE CITY
OF BURLINGTON

