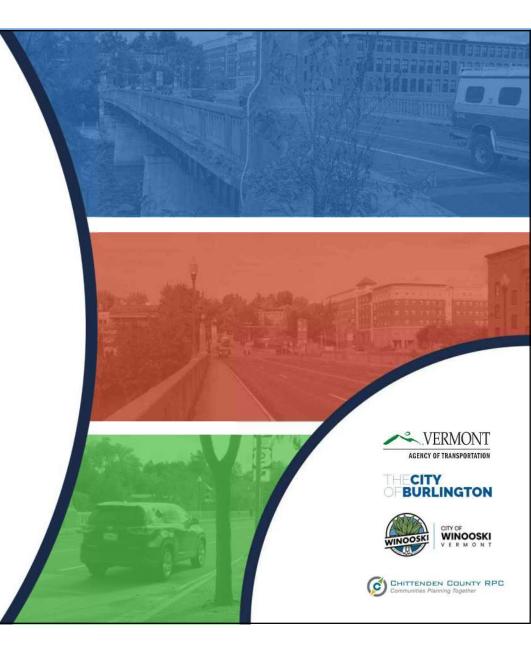
Public Meeting #2

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

January 23, 2024





Project Team

VTrans:

- Bob Klinefelter Structures Project Manager
- Carolyn Cota Structures Program Manager
- Mike LaCroix Traffic Project Manager

HNTB:

- Josh Olund Structures Project Manager
- Steve Spear Roadway Project Manager
- Jennifer Zorn Public Outreach

City of Burlington:

- Laura Wheelock Sr. Public Works Engineer
- Maddy Suender Associate Public Works Engineer

City of Winooski:

- Jon Rauscher Director of Public Works
- Ryan Lambert City Engineer

Chittenden County RPC:

- Eleni Churchill Transportation Program Manager
- Jason Charest Sr. Transportation Planning Engineer



Presentation Logistics



Q&A to follow presentation



Make sure your volume is turned up; presenters cannot see or hear you.



Online questions will be shared through the "Virtual Podium"



We will alternate questions from in-person and online attendees



Agenda



Project Recap

- Location
- Schedule
- Selected Alternative
- Maintenance of Traffic During Construction



Current Efforts

- Outreach
- Alignments
- Intersection
- Bike/Ped Safety

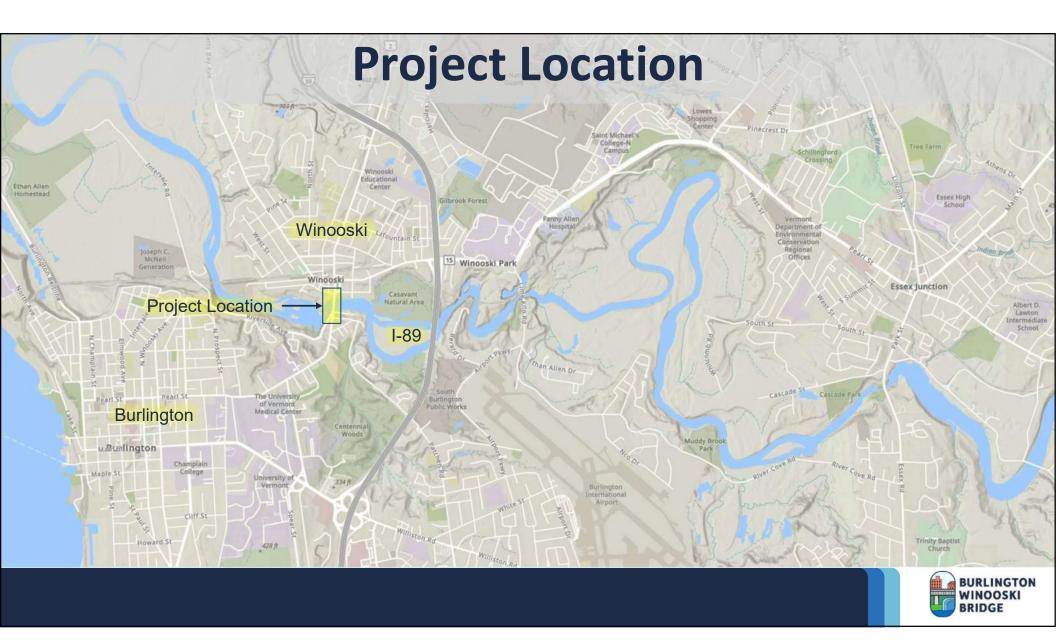


Next Steps

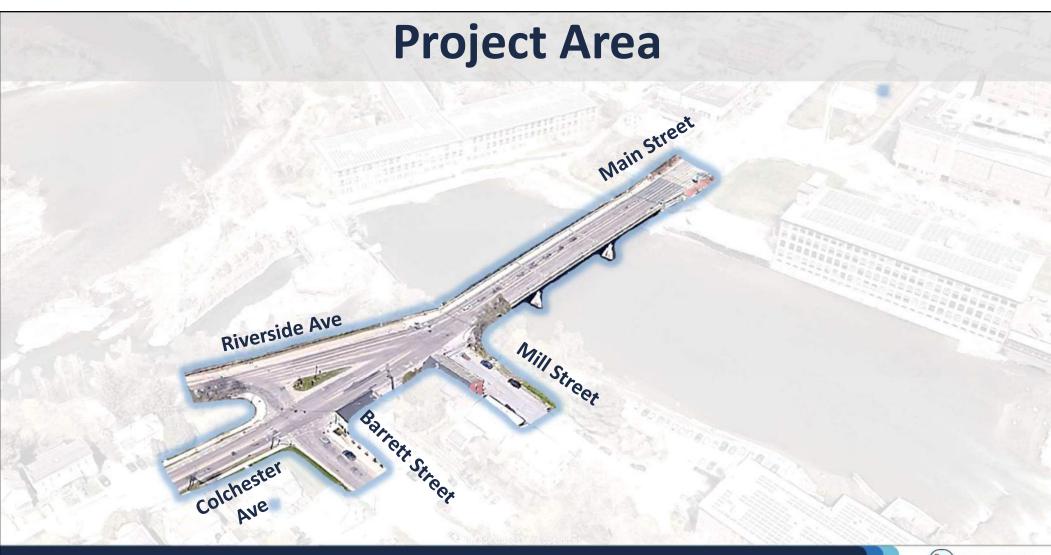


Project Recap

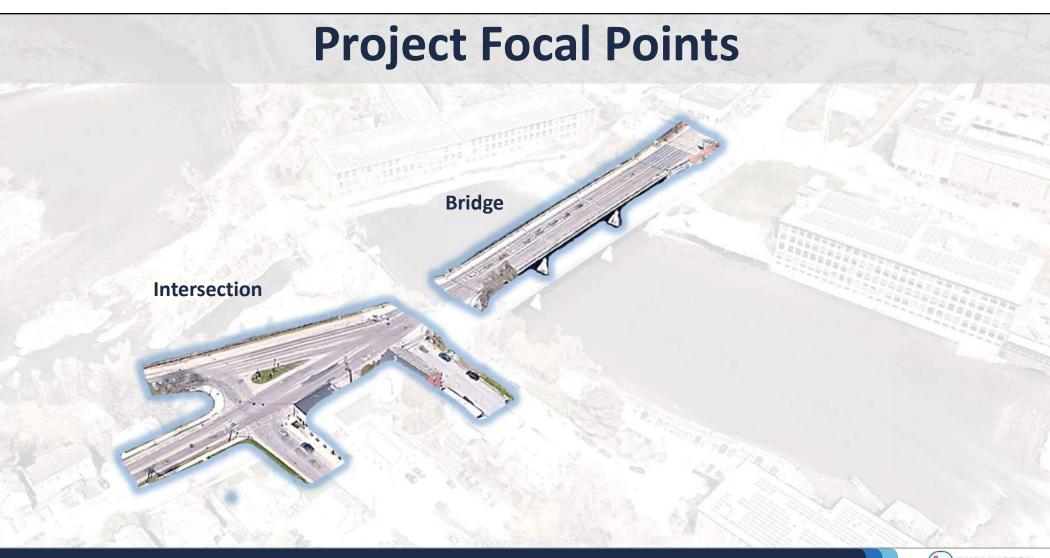




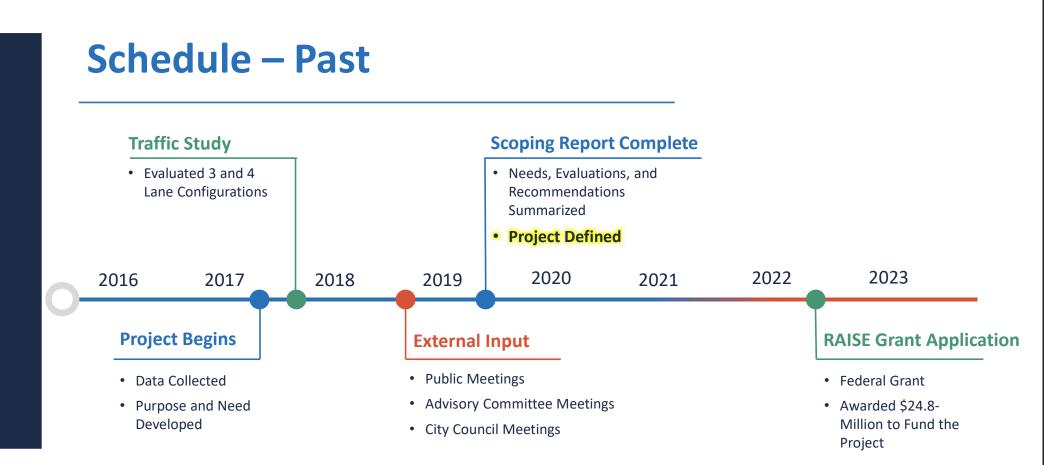














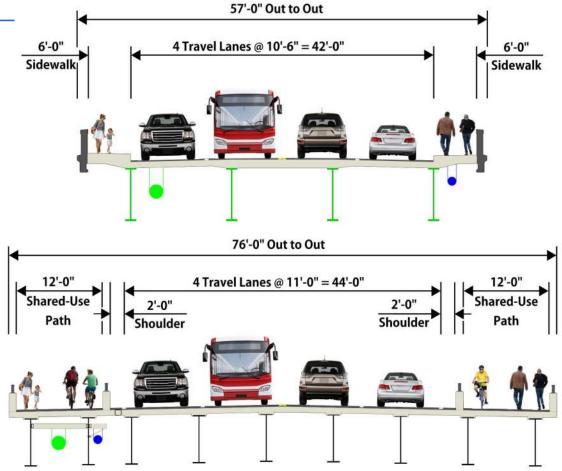
Schedule – Current and Future





Bridge Features

- Complete replacement
- Separated multi-use paths
- Maintains four travel lanes and adds shoulders





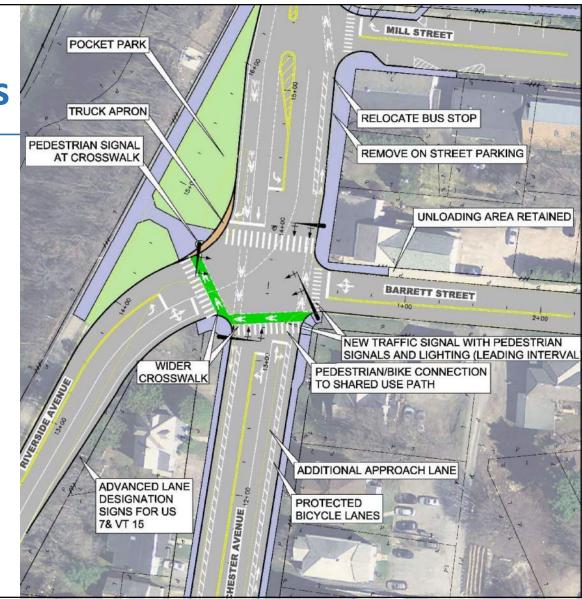
Bridge Features – Lanes and Shoulders

- High Traffic Volume
- City-Designated Truck Route
- Emergency Access in Both Directions
- Flexibility for Future Use (Transit Lanes, etc.)
- Future Maintenance Needs (Lane Closures, etc.)
- Acts as Emergency Crossing if I-89 or Lime Kiln is Closed
- Stormwater Drainage and Snow Storage
- 4 Lanes and 48-ft Total Width to Remain



Intersection Features

- Consolidated
 intersection
 - → Improved safety and mobility
- Emphasis on Bike/Pedestrian improvements

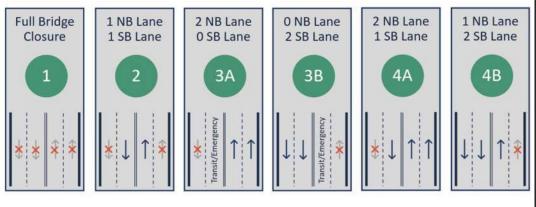




Maintenance of Traffic

- 25,000 Vehicles & 300 Bikes/Peds per day
- Need to balance:
 - Minimize impact to traveling public, and
 - Safe, sufficient construction site
- Utilize combination of:
 - Temporary lane closures
 - Temporary bridge closure





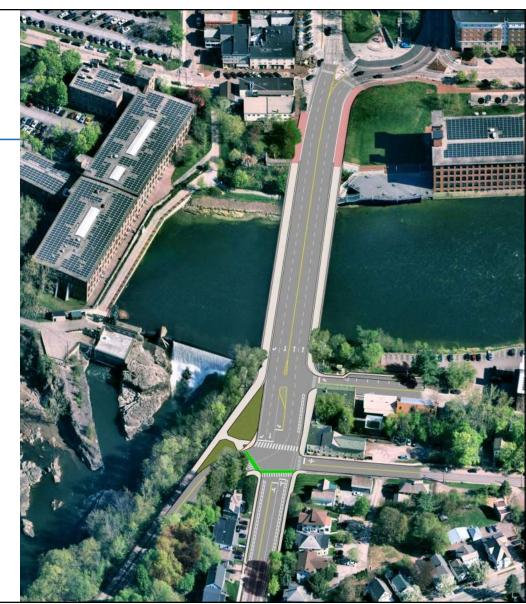


Current Efforts



Project Refinement

- Continued Outreach
- Alignment Evaluations
- Intersection Arrangement
- Bike/Ped Safety & Mobility





Continued Outreach

- Public Meetings & Events
- Local Government Meetings 05401
- Stakeholder Engagement
- Website and E-Blasts
- Surveys
- Property Owner Meetings
- Utility Coordination
- Environmental Coordination







Do you travel across the Burlington-Winooski Bridge? We want to hear from you!

Please help the Vermont Agency of Transportation better understand how you are using the Burlington-Winooski Bridge. Our Travel Survey will take less than 2 minutes to complete.

The survey can be accessed by clicking here or by scanning the QR Code.





What We Have Heard

Comm	erce Schedule	Bike/P	Ped Ae	sthetics	
Traffic Calming		Safet	y	Flooding	
Adjacent Projects Business Impacts	Costs		Mobility	Turn	
	Construction Congestion	Emergeno Response		lovements	
	Lighting		Greenspac		
Wider Lanes			Historic Significance	Soils	

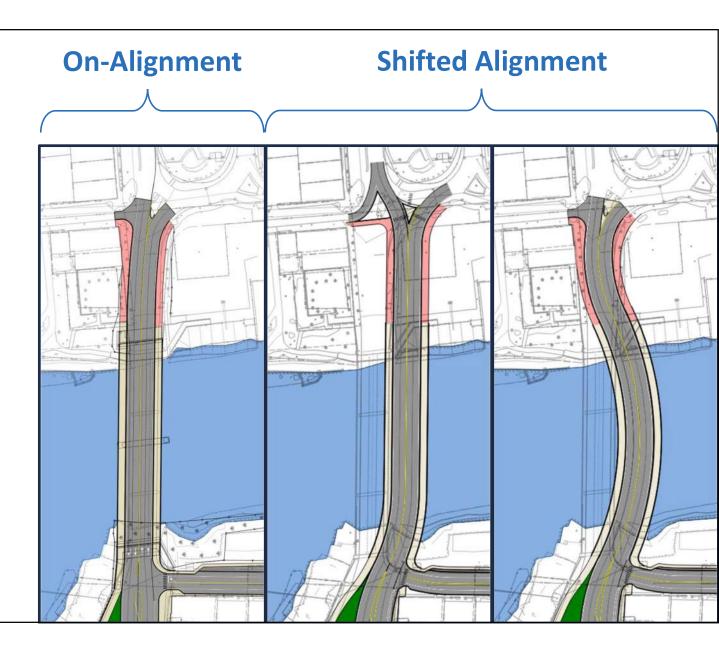


Alignments



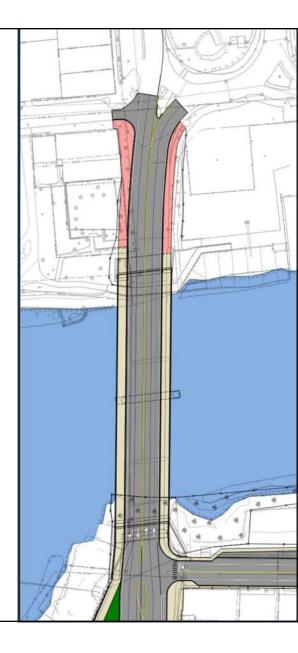
Alignments

- Different:
 - Construction Methods
 - Traffic Control
 - Mobility





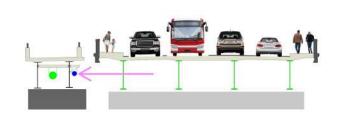
- Tangent (straight) roadway
- Vantage points from Colchester Ave and circulator unchanged
- Majority of widening towards the dam



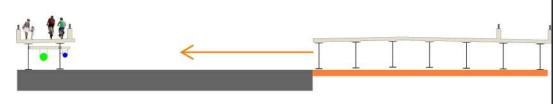


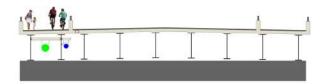
Construction Phasing

- Build new bridge, next to existing bridge
- Transfer Pedestrians and utilities
- Temporary 4 to 6 week closure for demolition and sliding new bridge together



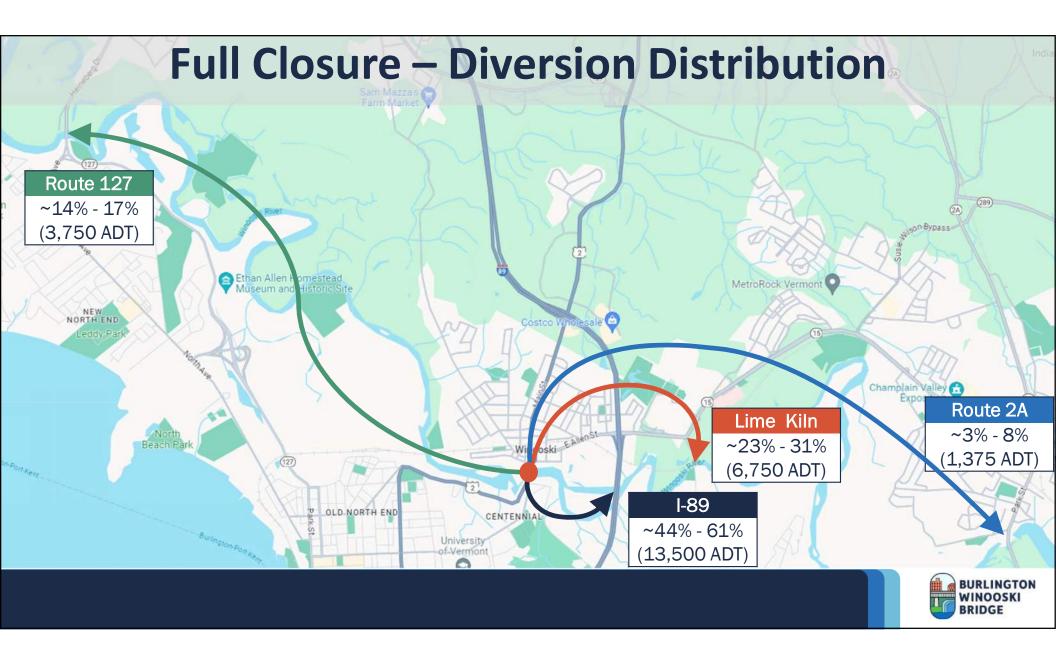


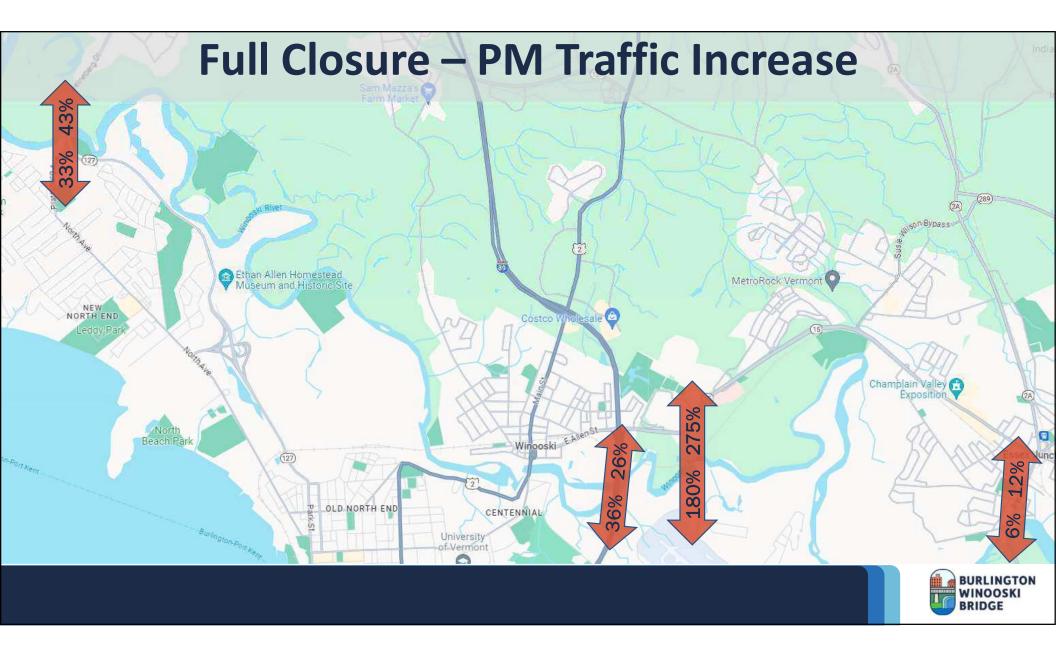




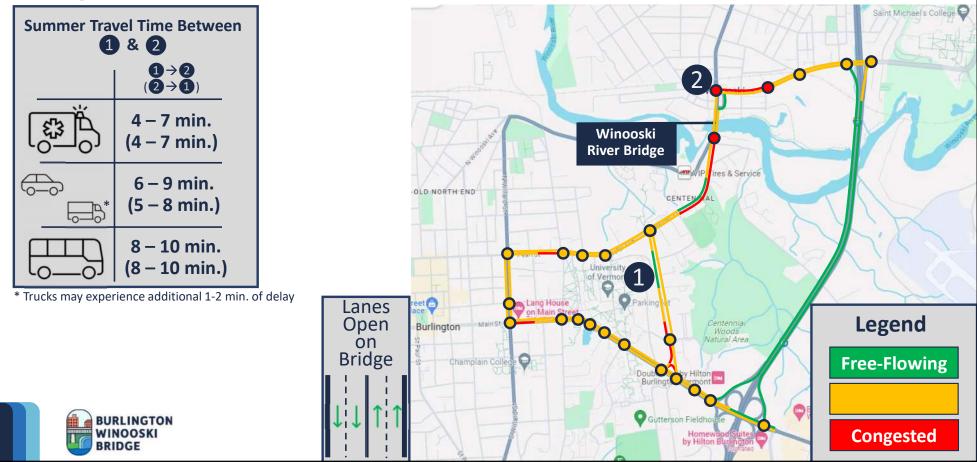








Existing Conditions (PM)

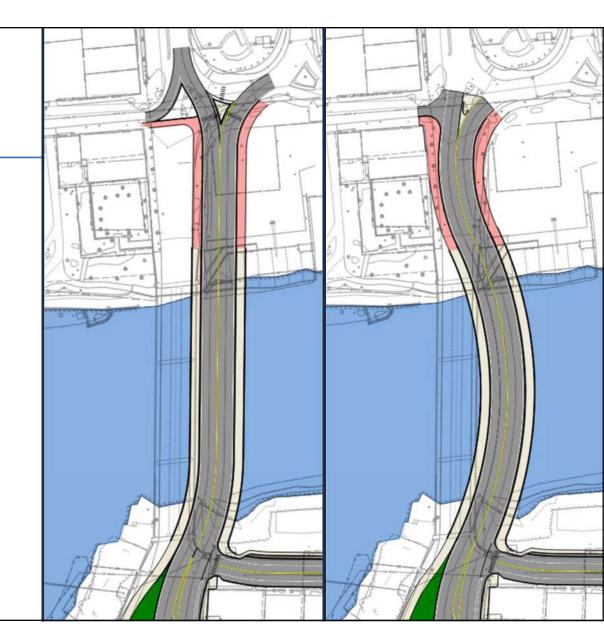


Full Bridge Closure (PM)



Shifted-Alignment

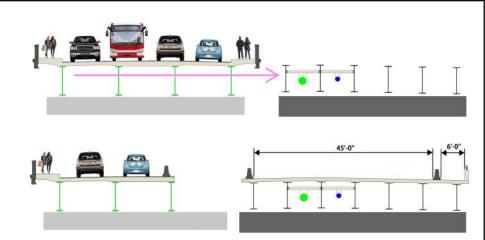
- Tangent (straight)and curved roadway
- Vantage points from Colchester Ave slightly changed
- Majority of widening away from dam
- Traffic Calming

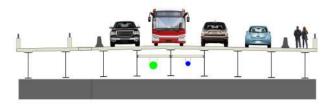




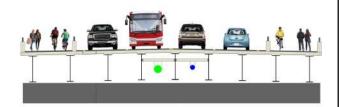
Construction Phasing

- Build majority of bridge upstream of existing
- Temporary 16 to 20 week closure of 2 lanes of traffic for demolition and completion of part of new bridge
- Open new bridge to all traffic
- Complete remainder of bridge



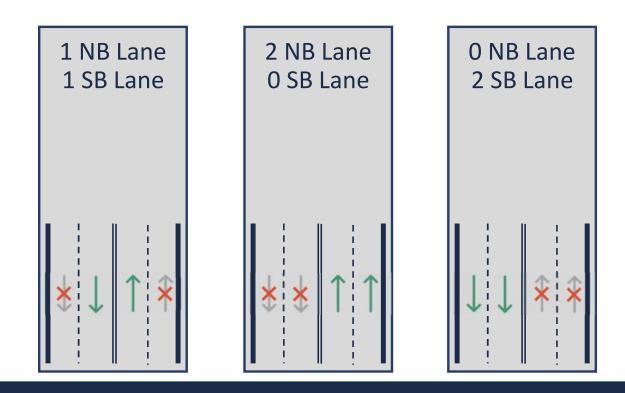








Traffic Control





Traffic Control



Traffic Control (Shifted Alignment)

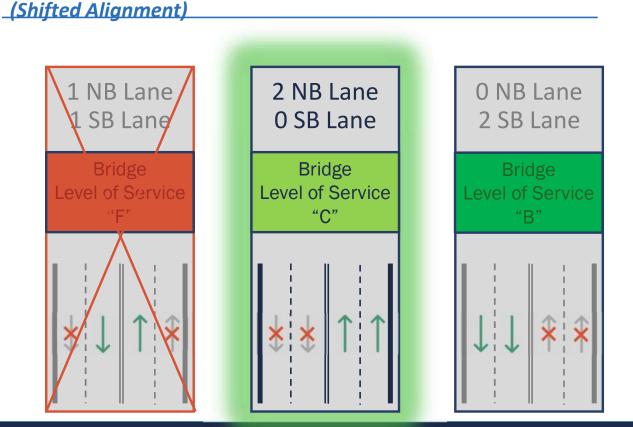
1 NB Lane
1 SB Lane2 NB Lane
0 SB Lane0 NB Lane
2 SB LaneBridge
Level of Service
"F"Bridge
Level of Service
"C"Bridge
Level of Service
"B"Image: Description of the service of the ser

Peak Period Key Facts:

- Similar diversion rates (opposite directions)
- NB PM Peak is greater volume than SB AM Peak
- High volume of left turns required if NB traffic detours
- Additional mitigation and/or increased delays if NB traffic detours



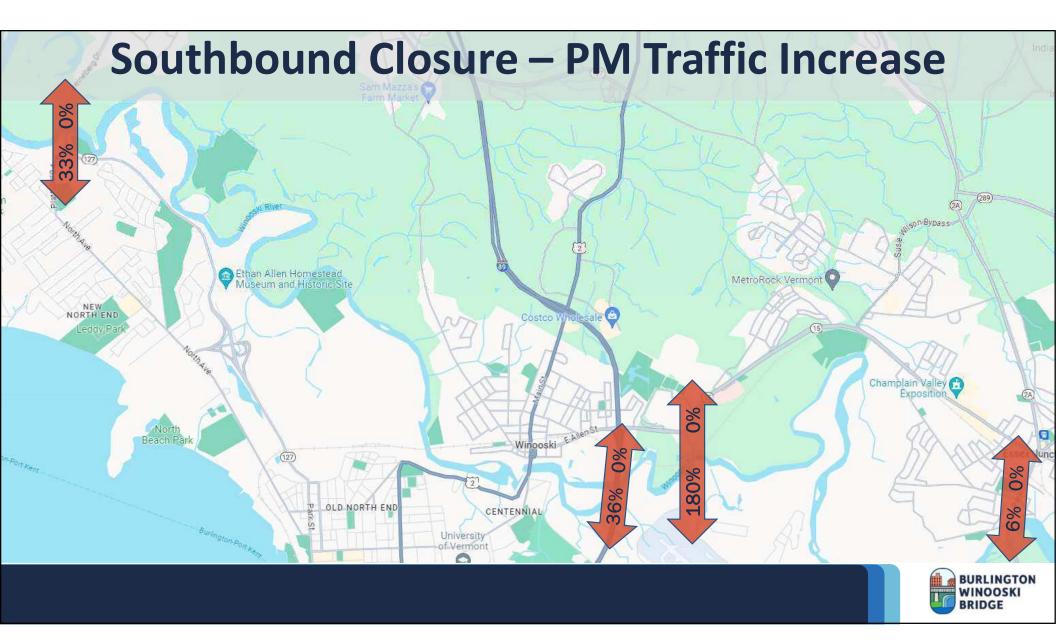
Traffic Control



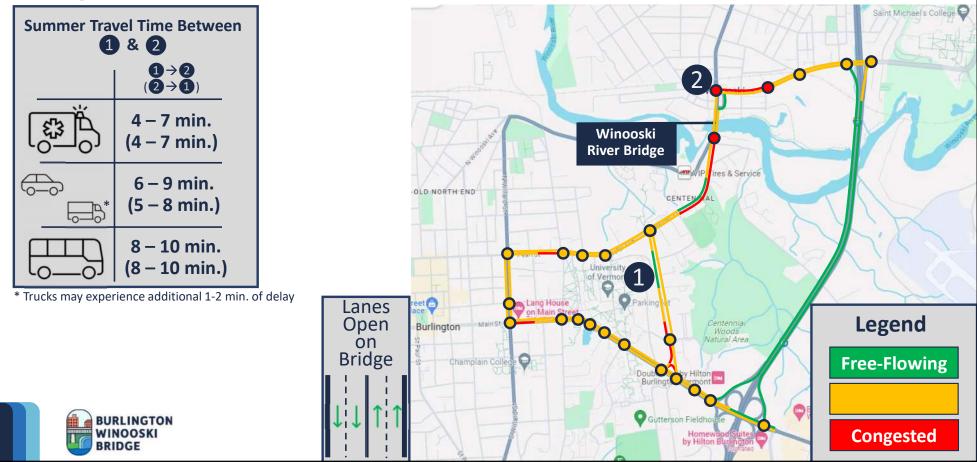
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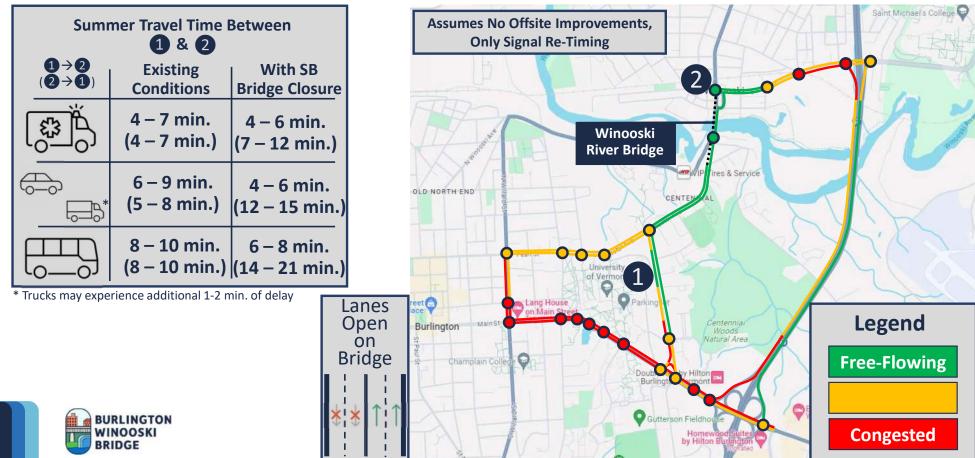




Existing Conditions (PM)



SB Closed – No Improvements (PM)



Traffic Control Comparisons

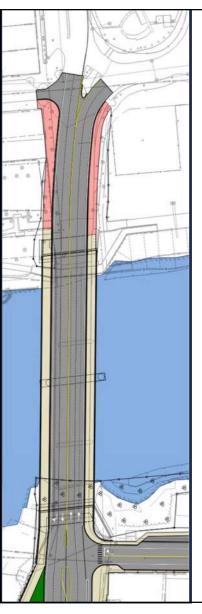
Summer Travel Time Between				
1 →2 (2 → 1)	Existing Conditions	With Full Bridge Closure	With SB Bridge Closure	
€ C C C C C C C C C C C C C C C C C C	4 – 7 min. (4 – 7 min.)	10 – 15 min. (7 – 12 min.)	4 – 6 min. (7 – 12 min.)	
	6 – 9 min. (5 – 8 min.)	12 – 22 min. (14 – 19 min.)	-	
		18 – 25 min. (16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

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



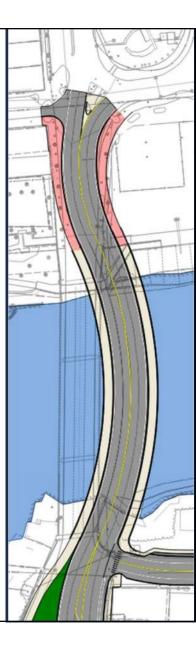






Alignment Comparison

On- Alignment	<u>FEATURE</u>	Shifted Alignment
Tangent	Alignment	Curved
4	Lanes Detoured	2
4 - 6	Detour Duration (Weeks)	16 - 20
24 - 30	Construction Duration (Months)	24 - 30
No	Natural Traffic Calming	Yes
No	Potential Under Bridge Path in Burlington	Yes

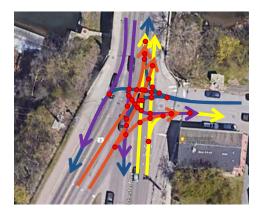


Burlington Intersection

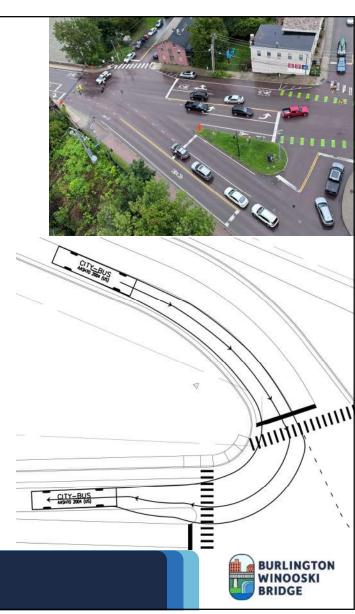


Intersection Refinement

- Signal timing and geometric layout
- Bicycle and pedestrian safety
- Turning movements







Intersection Geometry

- Understanding impact of bridge alignment on intersection
- Safety improvements, reduce conflict points, prioritize primary movements



Intersection summary

- Intersection focused public meeting in the spring
- Advancing design, balancing needs of all roadway users to maximize safety and capacity of intersection
- City-defined truck route vs. neighborhood setting in a natural and historic area



Bike and Pedestrian Safety



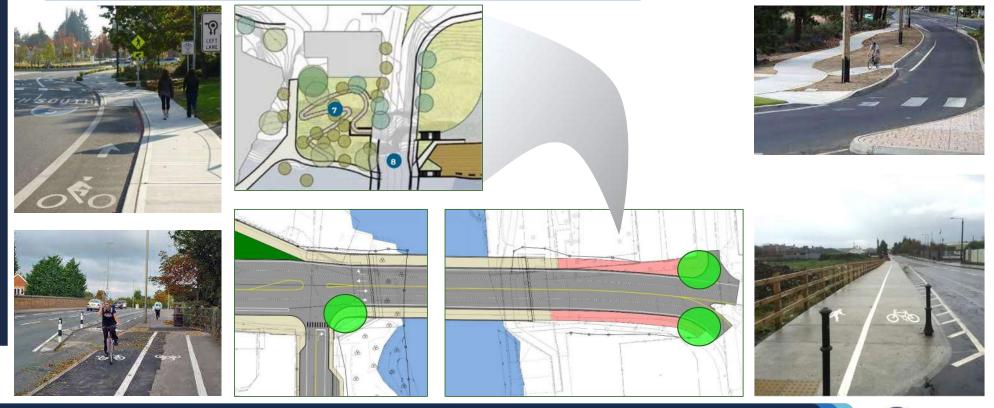
Bike and Pedestrian Safety/Mobility

- Provide continuity and safe transitions through intersection and bridge
- Pedestrian phase of signal exclusive vs. concurrent, leading pedestrian intervals, pedestrian detection, etc.
- Use signing and striping to encourage safe operation through intersection, onto bridge and in shared use path on bridge



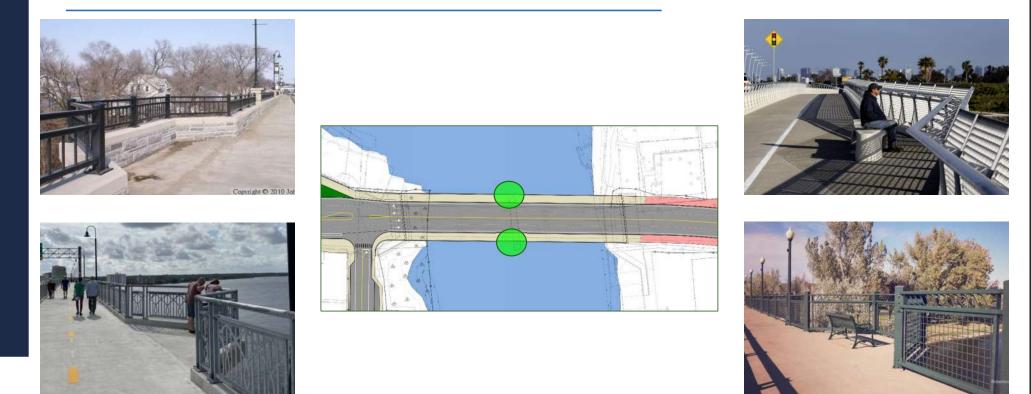


Potential Shared Use Path - Transitions





Potential Shared Use Path – Refuge/Belvedere





Potential Shared Use Path – Signing and Striping





Next Steps



Next Steps

- Continued evaluation of constructability, schedule, traffic control
- Heavier focus on intersection
- Utility Coordination
- Right of Way
- Aesthetics and Historics (Section 106)
- Continued Outreach!!



Questions?





https://burlingtonwinooskibriage.vtranspr ojects.vermont.gov/

