



CHITTENDEN COUNTY REGIONAL PLANNING COMMISSION Winooski/Burlington, US RTs 2 & 7 Bridge Scoping Study ADVISORY COMMITTEE MEETING NO. 5



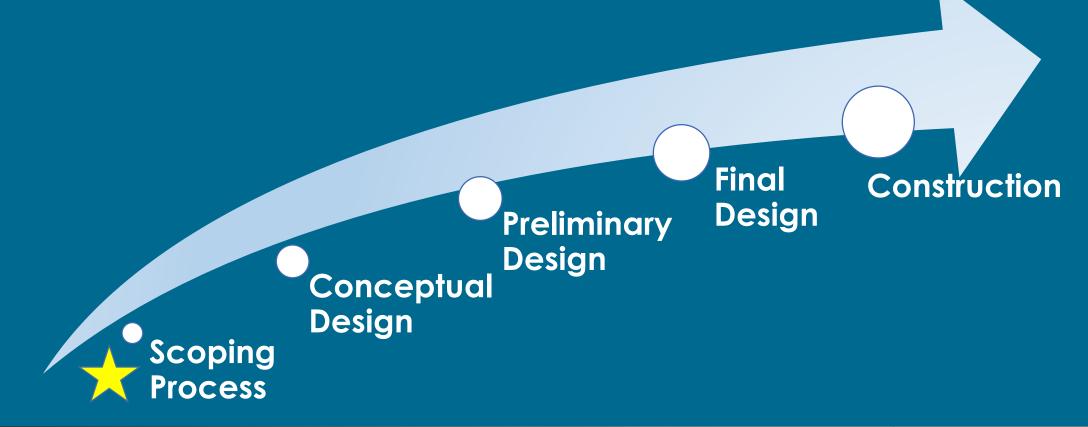
Agenda:

- 1. Welcome/Introductions
- 2. Progress & Updates Since Previous Advisory Committee Meeting (April 3, 2018)
- 3. Review of Newly Developed Alternative, Alternative 5
- 4. Review of Decision Matrix
- 5. Preferred Alternative Discussion
- 6. Next Steps



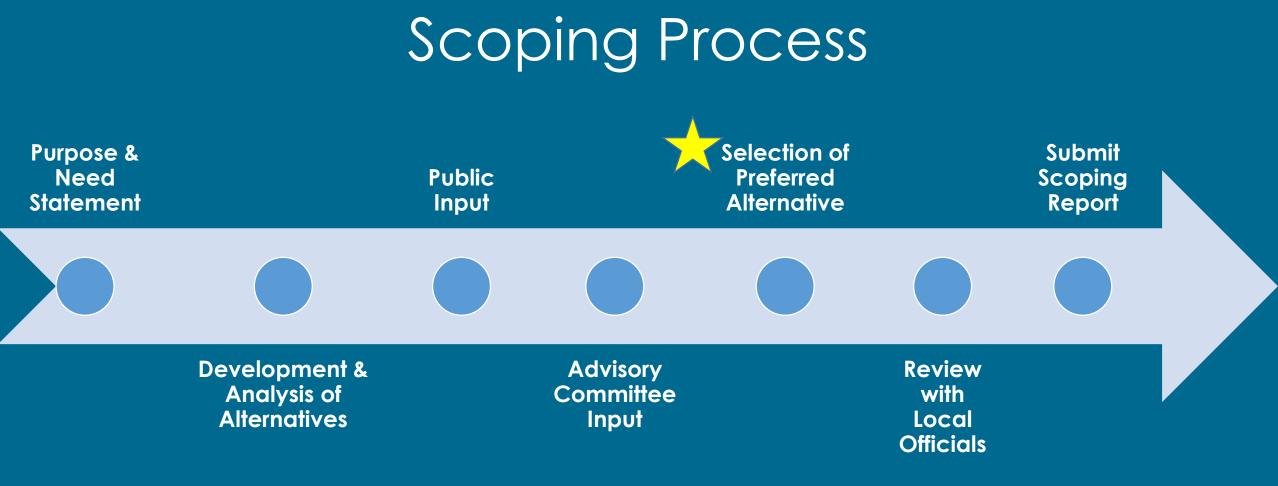


Bridge Replacement Development Phases













Updates Since Last Meeting



Updates Since Last Meeting – Dam Drawdown



Updates Since Last Meeting – Dam Drawdown





Updates Since Last Meeting - Burlington Electric Coordination

Infrastructure

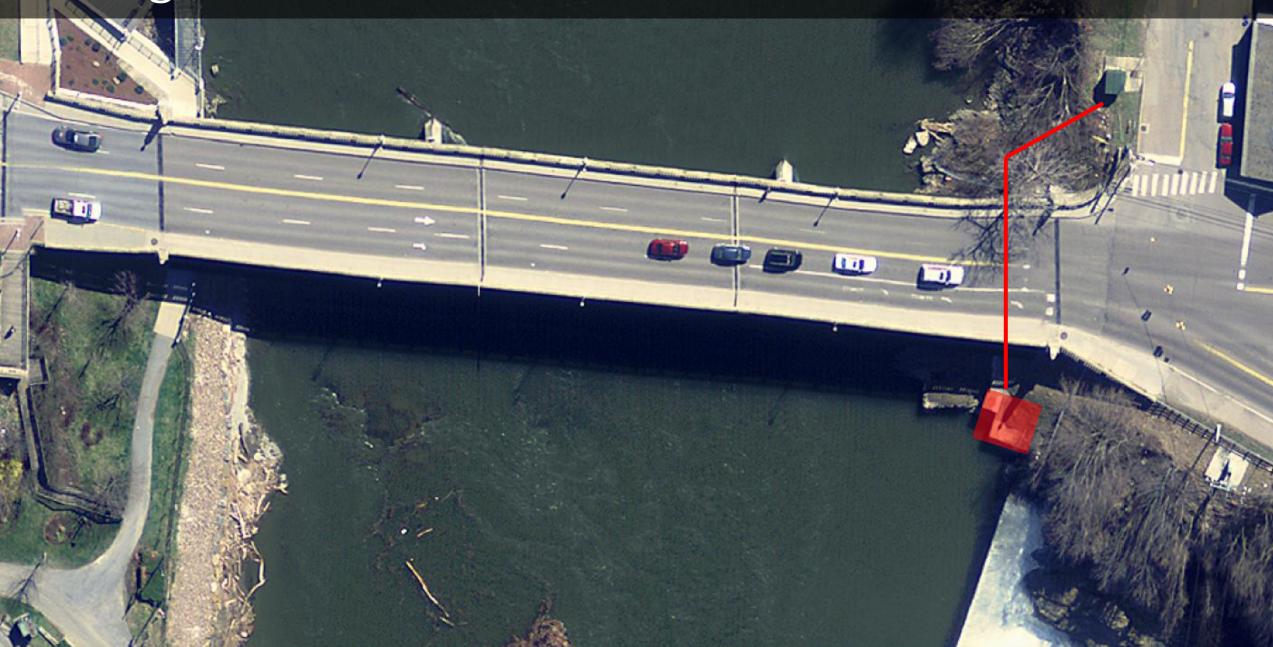
• Burlington Electric Infrastructure DOES NOT Interfere with Alternatives

Winooski One Hydro Plant IS NOT a Major Impediment

Dam Drawdown Dam Drawdowns Occur in Low-Flow Periods (Typically August) and Last 1-2 Days



Burlington Electric Coordination





Updates Since Last Meeting – VTrans Executive Team

Investigate Using Dam Drawdown to Construct New Pier

Impacts With Accelerated Bridge Construction Still High

Maintenance of Traffic & Roadway Costs & Public Outreach Increased

Separate Bike/Ped Bridge Owned by Cities

Intersection Reconstruction Should be Accommodated





Updates Since Last Meeting – Vermont Resource Agencies

Freeboard (Flood Clearance) Not as Big a Concern as Debris Accumulation

Causeways Must Be Constructed to Accommodate Potential Floods

Cannot Increase Flood Plain Elevations

Causeways to be Constructed with Clean Stone Fill

2-3 Years of River Impacts is a "Long-Term" Temporary Condition

Historical Mitigation Will be Required for Any Proposed Alternative.

Impacts to Falls Terrace Park in Winooski NOT a "Showstopper"





Alternative 5 Development



Bridge Alternative 5 – 2 Span Bridge



Bridge Alternative 5 – 2 Span Bridge

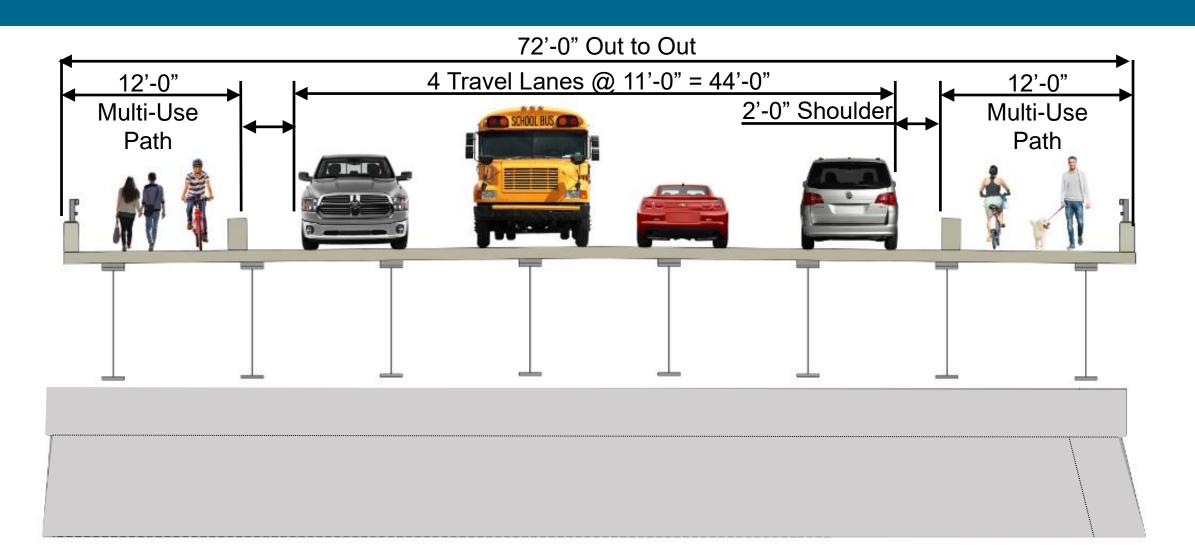
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Alternative 5 – Widened Structure



Bridge Alternative 5 – 2 Span Bridge

New Pier Constructed Between Existing Piers During Drawdown

Existing Abutment Removed and Replaced

> Alignment Can be Shifted to Allow for Relocation of Utilities & Accelerated Bridge Construction

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Existing Abutment Removed and Replaced



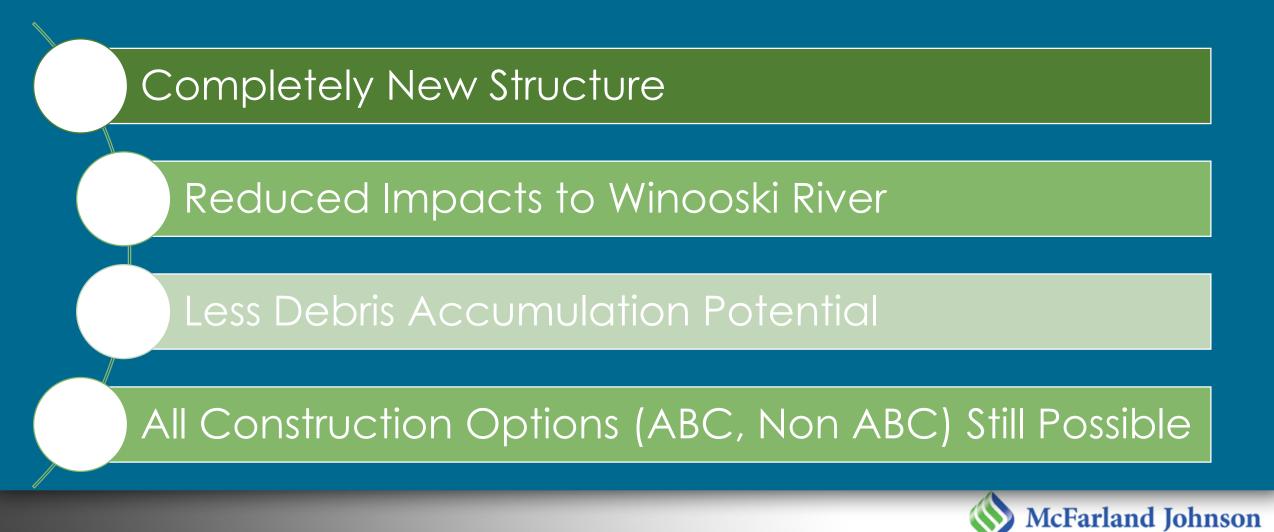
Alternative 5 – Summary







Alternative 5 – Pros





Alternative 5 – Cons

New Piers and Abutments = Increased Cost

Increased Impacts to Approach Roadways

Increased Closure Duration Required

Additional Impacts to Winooski River Required

Larger Temporary Impacts to Adjacent Properties





Updated Decision Matrix





Additional Changes to Alternatives & Matrix

Pedestrian Bridge (Alt 1 & 2)	 Upstream Alignment Eliminated 		
Public Outreach	 Cost Added to Matrix 	Structure Number Numb	Status: Participant Participant Status: Status: Participant Sta
Traffic Control Costs	 Costs Increased Based on VTrans Discussions 	KBULUN Statuture S	2) Team 2) Team (2) and (2) an
Bike/Ped Barrier	 Added for All Alternatives 		





Life Cycle Cost – Overview & Assumptions

Present Worth (Todays Dollars) Used With 4% Inflation

100 Year Life Cycle Used

Costs Shown in \$ per S.F. of Proposed Bridge Deck Area

Roadway User Costs NOT Included

Assumes 50 Years Remaining Life for Alternative 1.





Preferred Alternative Discussion





What's Next?

- Burlington City Council Meeting: August, 2018
- Winooski City Council Meeting: September, 2018
- Draft Scoping Report: September, 2018
- Final Scoping Report: October, 2018





Questions?

