

Update on FY 2025-2034 Ten-Year Transportation Improvement Plan Update Process

SNHPC TAC Meeting
November 17, 2022

Nathan Miller, AICP
Deputy Executive Director





Current Status of Ten-Year Plan Update Process

Date	Activity	Status
June 2, 2022	TYP Solicitation Correspondence sent to SNHPC Communities	Complete
June 16, 2022	Regional TYP Criteria Weightings Recommended by TAC	Complete
June 28, 2022	Regional TYP Criteria Weightings Adopted by MPO	Complete
July 29, 2022	TYP Project Submissions due to the SNHPC	Complete
August 17, 2022	SNHPC TAC Appoints TYP Project Evaluation Subcommittee	Complete
August-October 2022	Candidate Projects Undergo Engineering Review and Initial Evaluation	Complete
November 10, 2022	"Shortlist" of Regional Candidate Projects due to NHDOT	Complete
December 2022-February 2023	NHDOT Conducts Review of Candidate Projects	Pending
March 31, 2023	Final Regional Priorities due to NHDOT	Pending



Engineering Review for the Ten-Year Plan Update

- Since the October TAC meeting, the SNHPC's on-call engineering firm (VHB) has continued to refine project scopes and cost estimates for all seven regional project proposals for the FY 2025-2034 Ten-Year Plan.
- The purpose of this effort was to maximize the use of the SNHPC's regional allocation of **\$10.56 Million** by determining:
 - Lower-cost design options for some projects;
 - Phasing opportunities for some projects; and
 - Alternative approaches to advance projects.



FY 2025-2034 Ten-Year Plan Project Proposals

TOWN OF BEDFORD

NH Route 101 Safety Improvements from Wallace Road to the Bedford/Amherst Town Line



- VHB developed 3-lane and 5-lane improvement alternatives for this segment of NH Route 101.
- Both concepts, even phased, were substantially higher than the SNHPC's regional TYP allocation.



FY 2025-2034 Ten-Year Plan Project Proposals

TOWN OF BEDFORD

NH Route 101 Safety Improvements from Wallace Road to the Bedford/Amherst Town Line



Bedford Route 101 Corridor Study

Final Report
July 2002



Wallace Floyd Design Group
Vanasse Hangen Brustlin, Inc.
RKG Associates, Inc.
Community Planning Solutions

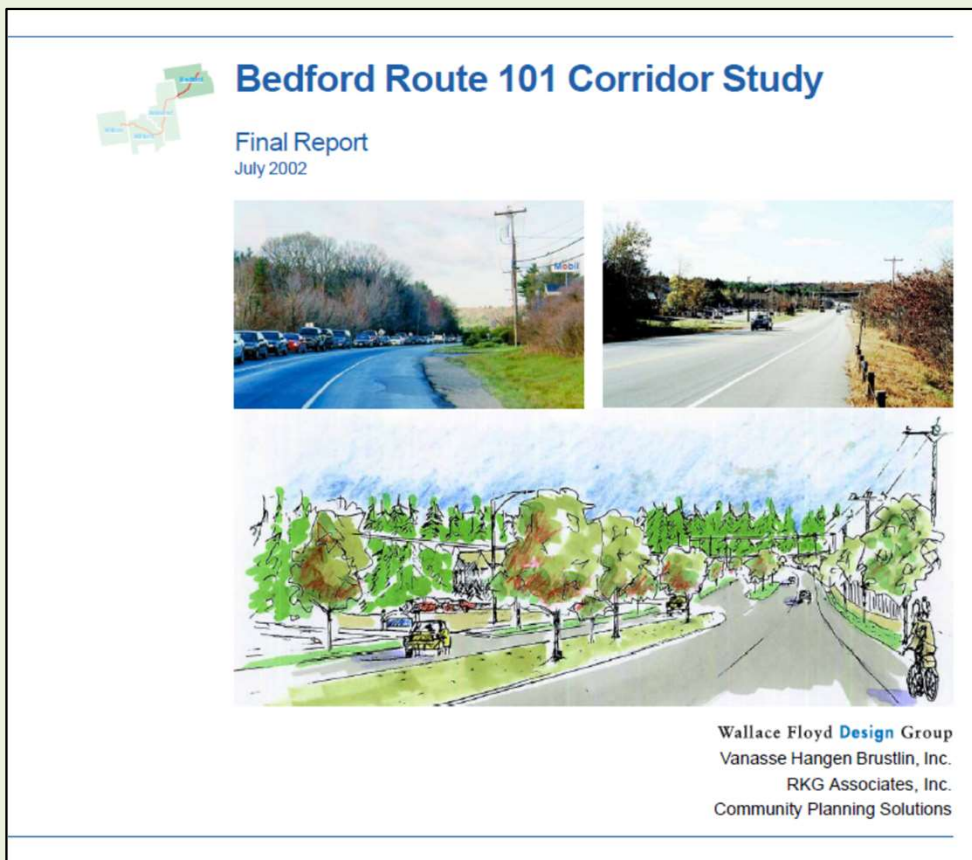
- After consultation with the Town of Bedford, the preferred approach is to update the 2002 Corridor Study to reflect current conditions.
- This would allow for the 3-lane, 5-lane, and potentially other concepts to be evaluated comprehensively in a public process.



FY 2025-2034 Ten-Year Plan Project Proposals

TOWN OF BEDFORD

NH Route 101 Safety Improvements from Wallace Road to the Bedford/Amherst Town Line



- The corridor study would focus on the segment of NH Route 101 from Wallace Road to the Amherst Town Line.
- The estimated cost to update the corridor study is **\$300,000** in 2022 dollars.



FY 2025-2034 Ten-Year Plan Project Proposals

TOWN OF BEDFORD

Construction of a Multi-use Path Adjacent to NH Route 101 from Wallace Road to the Bedford/Amherst Town Line



- Project is the Town of Bedford's #2 priority for inclusion in the Ten-Year Plan.
- Project would involve the construction of a 10' wide paved multi-use path along NH 101 with 2' gravel shoulders for a total width of +/-14 feet.



FY 2025-2034 Ten-Year Plan Project Proposals

TOWN OF BEDFORD

Construction of a Multi-use Path Adjacent to NH Route 101 from Wallace Road to the Bedford/Amherst Town Line

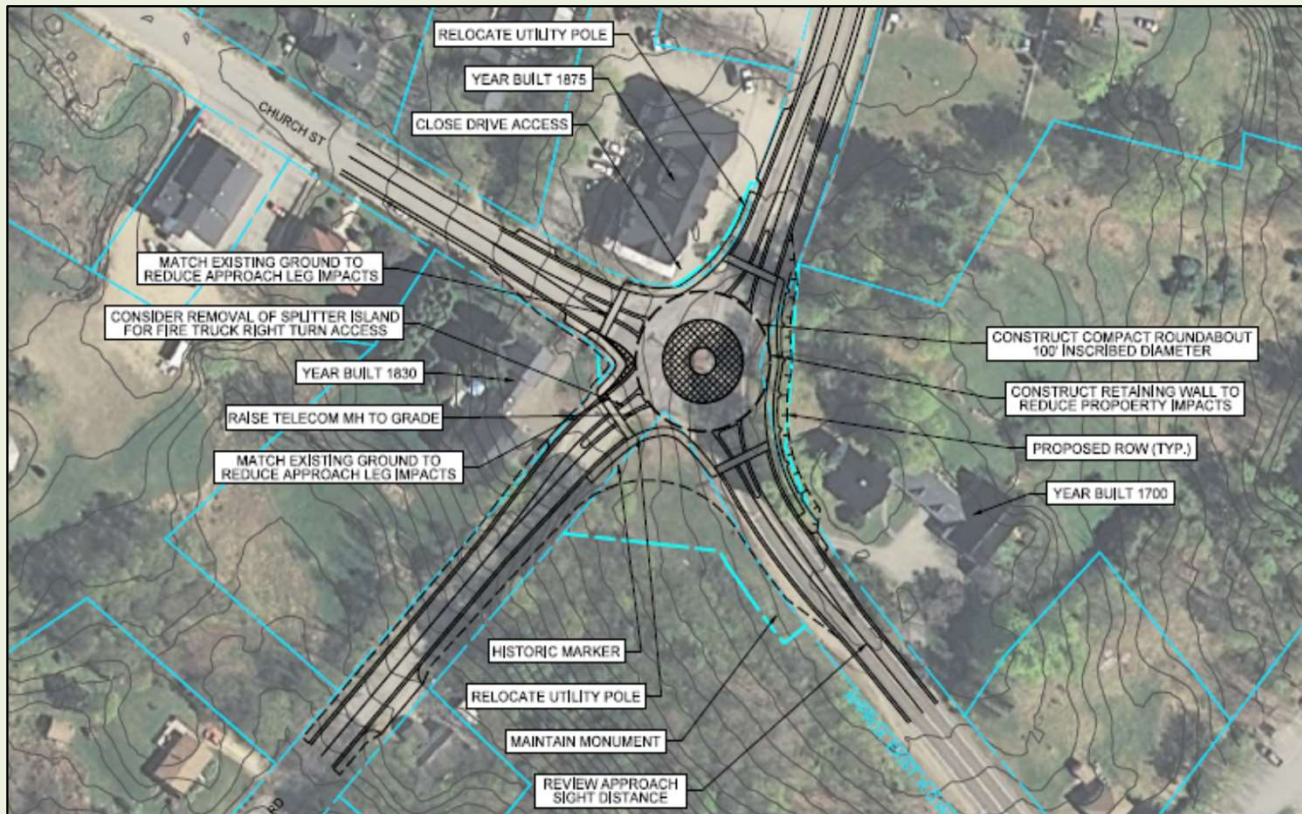
- Total project cost is estimated to be **\$3.1 Million** in 2022 dollars.
 - Section from Wallace Road to Elk Drive would be \$1,693,000 in today's dollars.
 - Section from Elk Drive to the Amherst Town Line would be \$1,416,000 in today's dollars.
- The NH Route 101 bridge over Pulpit Brook was widened to 3 lanes in 2022 with no accommodation for a potential multi-use path. The bridge would either need to be widened or a separate prefabricated pedestrian bridge would need to be installed at this location.



FY 2025-2034 Ten-Year Plan Project Proposals

TOWN OF DEERFIELD

Convert Intersection of NH Route 107/Candia Road/Church Street to a Roundabout



- Project was previously submitted for Ten-Year Plan consideration in the last update cycle.
- Project was assigned to VHB to update the cost estimate for the 4-leg roundabout concept.

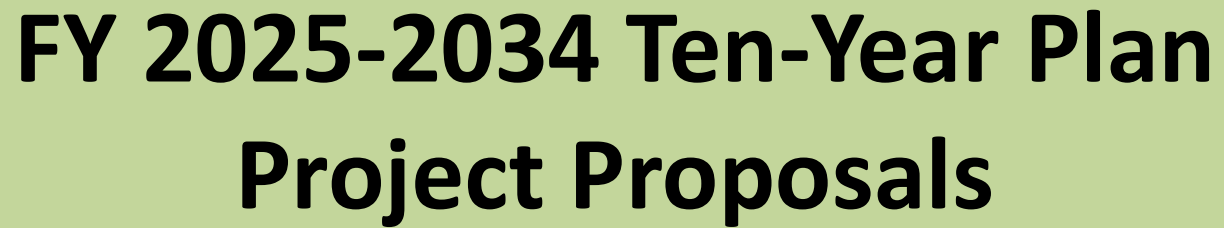


FY 2025-2034 Ten-Year Plan Project Proposals

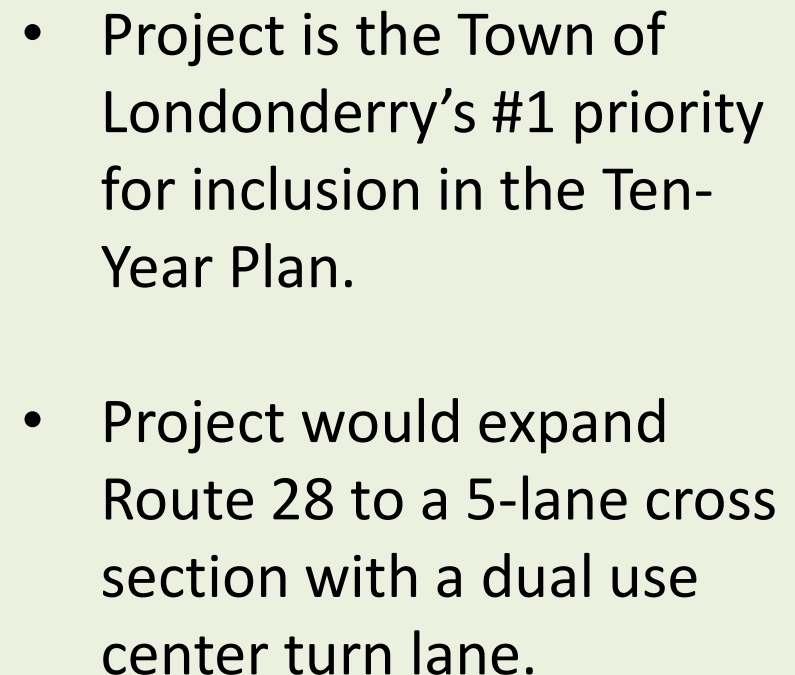
TOWN OF DEERFIELD

Convert Intersection of NH Route 107/Candia Road/Church Street to a Roundabout

- Total project cost is estimated to be **\$1.557 Million** in 2022 dollars, which is lower than the \$1.796 Million cost estimate from two years ago.
- The design tries to minimize impacts to historic properties but would still result in some historic property impacts, including the removal of old growth trees at 2 Raymond Road.



Increase capacity on NH Route 28 from Symmes Dr/Vista Ridge Dr to the intersection of NH Route 128





FY 2025-2034 Ten-Year Plan Project Proposals

TOWN OF LONDONDERRY

Increase capacity on NH Route 28 from Symmes Dr/Vista Ridge Dr to the intersection of NH Route 128



- The NH 28/Vista Ridge Dr./Symmes Dr. intersection includes additional turn lanes and through lanes, which may be excessive.
- VHB developed alternatives for the project with and without sidewalks.



FY 2025-2034 Ten-Year Plan Project Proposals

TOWN OF LONDONDERRY

Increase capacity on NH Route 28 from Symmes Dr/Vista Ridge Dr to the intersection of NH Route 128

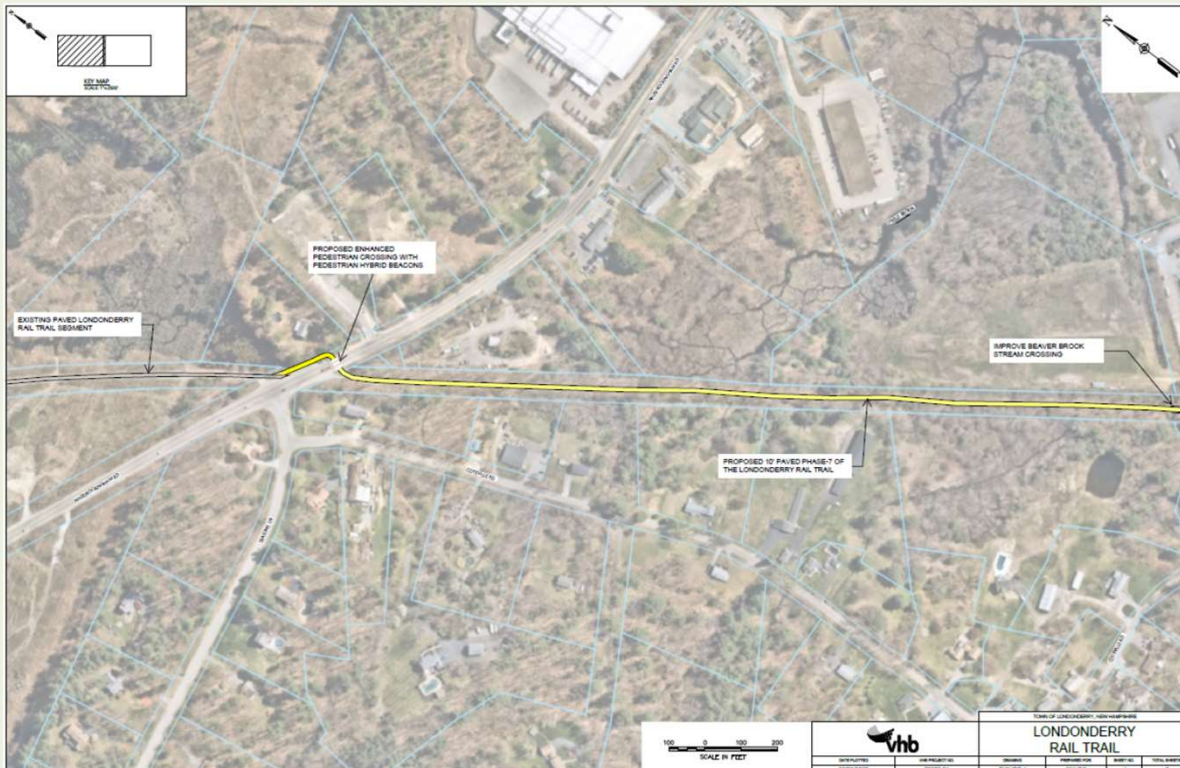
- Total project cost is estimated to be:
 - **\$10.4 Million** in 2022 dollars (without sidewalks)
 - **\$11.3 Million** in 2022 dollars (with sidewalks)
- The project cost exceeds the SNHPC's regional TYP allocation.
- There are no phasing opportunities for the project, because the NH 28/Vista Ridge Dr./Symmes Dr. intersection improvement is the most significant cost component. A phased version of the project may not provide tangible benefits.



FY 2025-2034 Ten-Year Plan Project Proposals

TOWN OF LONDONDERRY

Construction of Phase 7 of the Londonderry Rail Trail from NH Route 28 to the Derry Town Line



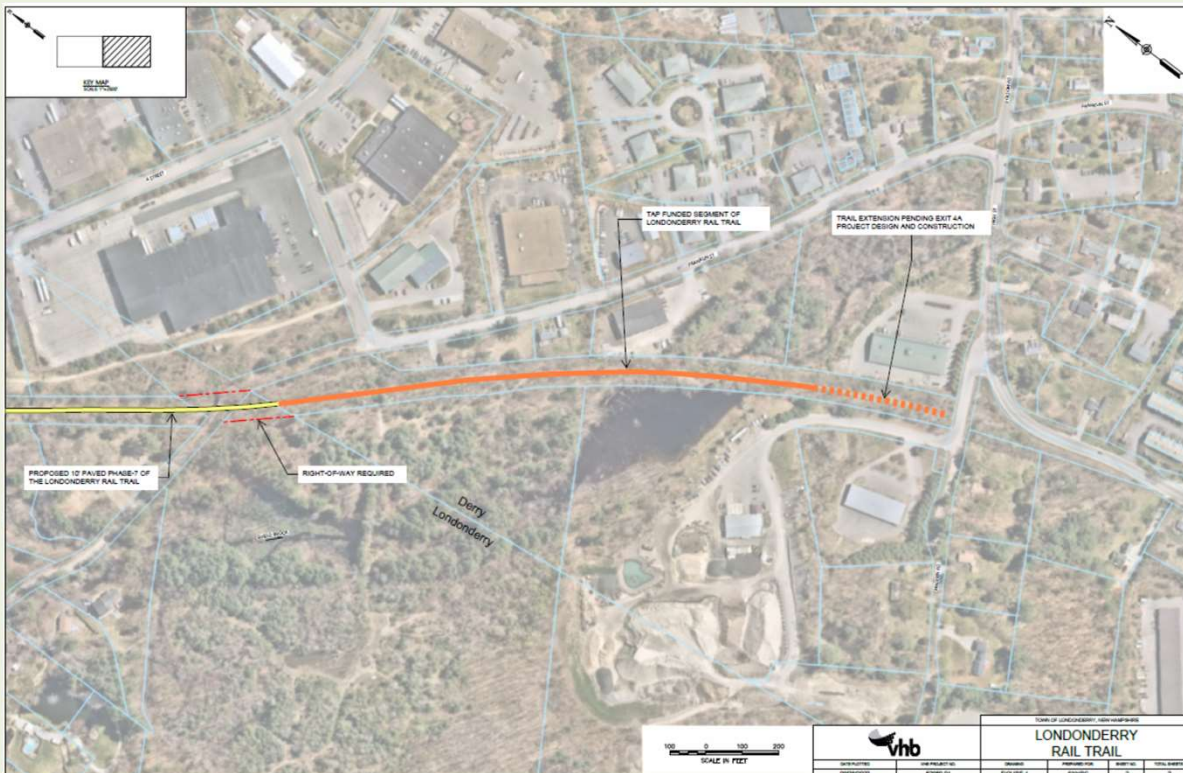
- Project is the Town of Londonderry's #2 priority for inclusion in the Ten-Year Plan.
- Project would involve the construction of a 10' wide paved rail trail with 2' gravel shoulders for a total width of +/-14 feet.



FY 2025-2034 Ten-Year Plan Project Proposals

TOWN OF LONDONDERRY

Construction of Phase 7 of the Londonderry Rail Trail from NH Route 28 to the Derry Town Line



- Crossing of NH Route 28 would necessitate a Pedestrian Hybrid Beacon.
- Intention is to reuse the existing abutments at the Beaver Brook bridge crossing and install concrete deck panels to support the trail.



FY 2025-2034 Ten-Year Plan Project Proposals

TOWN OF LONDONDERRY

Construction of Phase 7 of the Londonderry Rail Trail from NH Route 28 to the Derry Town Line

- Total project cost is estimated to be **\$641,000** in 2022 dollars.
- The Town of Londonderry, at the SNHPC's encouragement, has submitted a Letter of Intent to apply for Congestion Mitigation and Air Quality (CMAQ) funding for this project. If successful, this could allow the project to begin as early as FY 2025.



FY 2025-2034 Ten-Year Plan Project Proposals

CITY OF MANCHESTER

I-93 Exit 8/Wellington Road Interchange Improvements



- Project was previously submitted for Ten-Year Plan consideration in the last update cycle.
- Project was assigned to VHB to update the cost estimate and make certain technical updates to reflect current conditions.



FY 2025-2034 Ten-Year Plan Project Proposals

CITY OF MANCHESTER

I-93 Exit 8/Wellington Road Interchange Improvements

- Total project cost is estimated to be \$8.226 Million in 2022 dollars.
 - Signal Coordinating/Adaptive Signal Control Costs - \$980,000
 - Bicycle Lane Costs - \$3,754,000
 - Intersection Capacity Improvement Costs - \$3,492,000
- This project does lend itself to phasing, as the bicycle lanes could be done before or after the other two components of the project.
 - **Preferred Phasing Scenario: Intersection Capacity Improvements with Limited Bicycle Lanes - \$4,124,000**

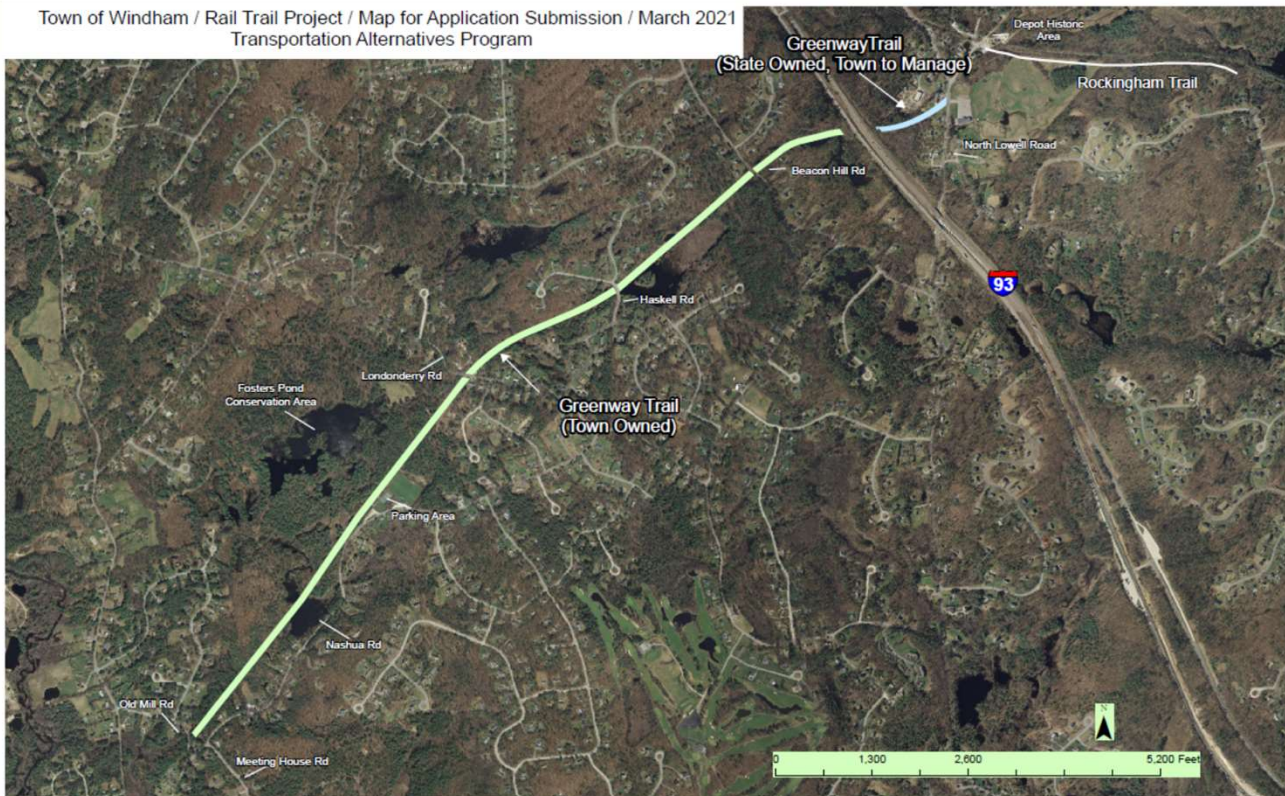


FY 2025-2034 Ten-Year Plan Project Proposals

TOWN OF WINDHAM

Improvements to the Windham Greenway from Meetinghouse/Old Mill Road to the Westerly ROW of Interstate 93

Town of Windham / Rail Trail Project / Map for Application Submission / March 2021
Transportation Alternatives Program



- Project involves the conversion of an abandoned railroad right of way into a 10' wide paved multi-use path (approximately 2.27 miles).



FY 2025-2034 Ten-Year Plan Project Proposals

TOWN OF WINDHAM

Improvements to the Windham Greenway from Meetinghouse/Old Mill Road to the Westerly ROW of Interstate 93

- Total project cost is estimated to be:
 - **\$1,528,000** in 2022 dollars (for improvements west of I-93)
 - **\$370,000** in 2022 dollars (for improvements east of I-93)
- The Town of Windham, at the SNHPC's encouragement, has submitted a Letter of Intent to apply for Congestion Mitigation and Air Quality (CMAQ) funding for this project. If successful, this could allow the project to begin as early as FY 2025.



Funding Parameters for this Ten-Year Plan Update Cycle

- The SNHPC's regional allocation for Ten-Year Plan projects was increased proportionally with the increase in federal formula funding that the state as a whole is receiving through the Infrastructure Investment and Jobs Act (IIJA).
- The SNHPC's allocation for projects in this Ten-Year Plan update cycle will be **\$10.56 Million on a year-of-expenditure basis.**
- NHDOT indirect costs of 10% must be added to all project cost estimates.
- Inflation of 2.8% per year must be added to the year-of-expenditure (assumed to be ten years from the present).



Initial Project Priorities

- To develop initial project priorities, the TAC Evaluation Workgroup worked with staff to evaluate the projects according to the regional criteria.
 - The Evaluation Workgroup was comprised of TAC members representing communities that did not submit projects for consideration. (George Sioras of Derry, Mark Suennen of New Boston, and Linda Kunhardt of Franconia)
- Final regional priorities are due to NHDOT by March 31, 2023.
 - Final regional priorities will be recommended by the TAC and approved by the MPO prior to the March 31, 2023 deadline.




Initial Project Priorities

- Based on the Evaluation Workgroup's analysis, the following four projects are initial regional priorities fitting within the regional allocation:
 1. **Bedford** – NH Route 101 Corridor Study Update
 2. **Manchester** – Exit 8/Wellington Road Interchange Improvements (Intersection Capacity Improvements with Limited Bike Lanes)
 3. **Deerfield** – Convert Intersection of NH Route 107/Candia Road/Church Street to a Roundabout
 4. **Londonderry** – Phase 7 of Londonderry Rail Trail
- The following two projects will remain under consideration for this Ten-Year Plan update:
 - **Bedford** – NH Route 101 Multi-use Path
 - **Windham** – Windham Greenway Improvements



Initial Project Priorities

SNHPC Ten-Year Plan Initial Project Priorities					
Initial Priority	Community	Project Scope	Project Cost (Current Year)	Project Cost (Current Year with NHDOT Indirect Costs)	Project Cost (Inflation Adjusted to Year-of-Expenditure)
High 	Bedford	NH Route 101 Corridor Study Update (<i>Wallace Road to Amherst Town Line</i>)	\$300,000	\$330,000	\$434,956
	Manchester	Exit 8/Wellington Road Improvements (<i>Capacity Improvements Incl. Limited Bicycle Lanes</i>)	\$4,124,000	\$4,536,400	\$5,979,192
	Deerfield	Roundabout Conversion (<i>NH Route 107/Church St./Candia Rd.</i>)	\$1,557,000	\$1,712,700	\$2,257,420
	Londonderry	Phase 7 of the Londonderry Rail Trail	\$641,000	\$705,100	\$929,355
	Subtotal (Initial Project Priorities)				\$9,600,923
	SNHPC FY 2025-2034 Ten-Year Plan Regional Allocation				\$10,558,160
	Difference				\$957,237
	Additional Projects Under Consideration Beyond Regional Allocation				
	Bedford	NH Route 101 Multiuse Path	\$3,110,000	\$3,421,000	\$4,509,041
	Windham	Windham Greenway Trail Improvements (<i>West of I-93 Segment Only</i>)	\$1,528,000	\$1,680,800	\$2,215,375



Questions?