

Plymouth, NH 2021 TAP Sidewalk Project

Lakes Region Planning Commission – TAC – April 7, 2021

June Hammond Rowan, EdD – Planning & Development Director

Overview:

- New paved sidewalks on sections of Warren Street, Russell Street, and Crawford Street
- Replace substandard, non-compliant sidewalks on portions of Main Street, Russell Street and Pleasant Street
- Approximately 2,300 feet of 5-foot wide sidewalk
- Paved surface, granite curb, concrete curb ramps



Project Need:

- Project area has lacked connected sidewalks and creating safe walkable neighborhoods is a priority.
- Over past 20 to 30 years, the project neighborhood has changed from a single-family residential to multi-family residential.
- Estimate >325 residents - one of Plymouth's most dense neighborhoods.
- Residents walk to Plymouth State University's campus & Main Street/ downtown to shop/work at local businesses & restaurants.
- Also a popular walking route.

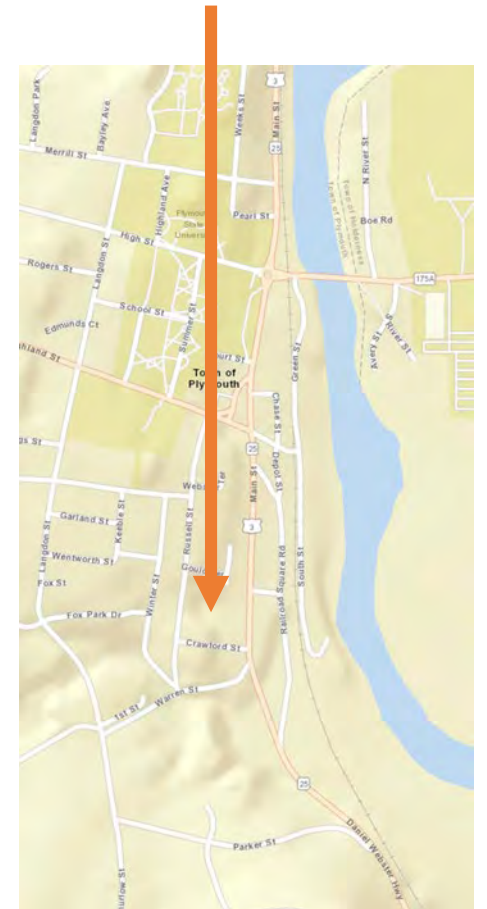




Warren Street



Crawford Street

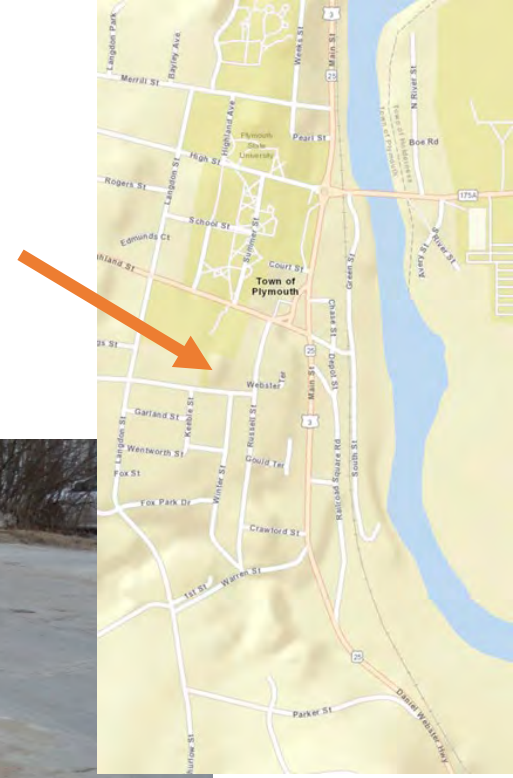




Russell Street



Pleasant Street





Project Cost Estimate (from Town Engineer)

Design/Engineering	\$	53,900
Right-of-Way	\$	5,000
Construction	\$	337,300
Construction Engineering	\$	53,800
	Total	\$ 450,000
Federal - TAP Funds (80%)	\$	360,000
Town (20%)	\$	90,000

Project Connectivity:

Overall Goal: state-of-the-art underground infrastructure & a rebuilt Main Street with compliant sidewalks connected to a residential area that provides safe & connected pedestrian travel in our community.

- Part of larger, significant infrastructure improvements on Main Street & downtown Plymouth.
- Project will fill in gaps in the existing sidewalk system throughout a high-density, multi-family residential neighborhood.
- New sidewalks will connect to existing segments allowing a pedestrian to travel safely to Plymouth's Main Street, downtown, & Plymouth State University's campus. 
- Helps connect modes of transportation – access to PSU's shuttle stops & Concord Trailways bus stop. 



**EXISTING
SIDEWALKS (TYP.)**

**PROPOSED 5'-6"
SIDEWALK WITH
VERTICAL GRANITE
CURB**

**TOWN OF PLYMOUTH
2021 TAP Grant Application Plan**

300 0 300 600
SCALE: 1"=600'

Project Connectivity:

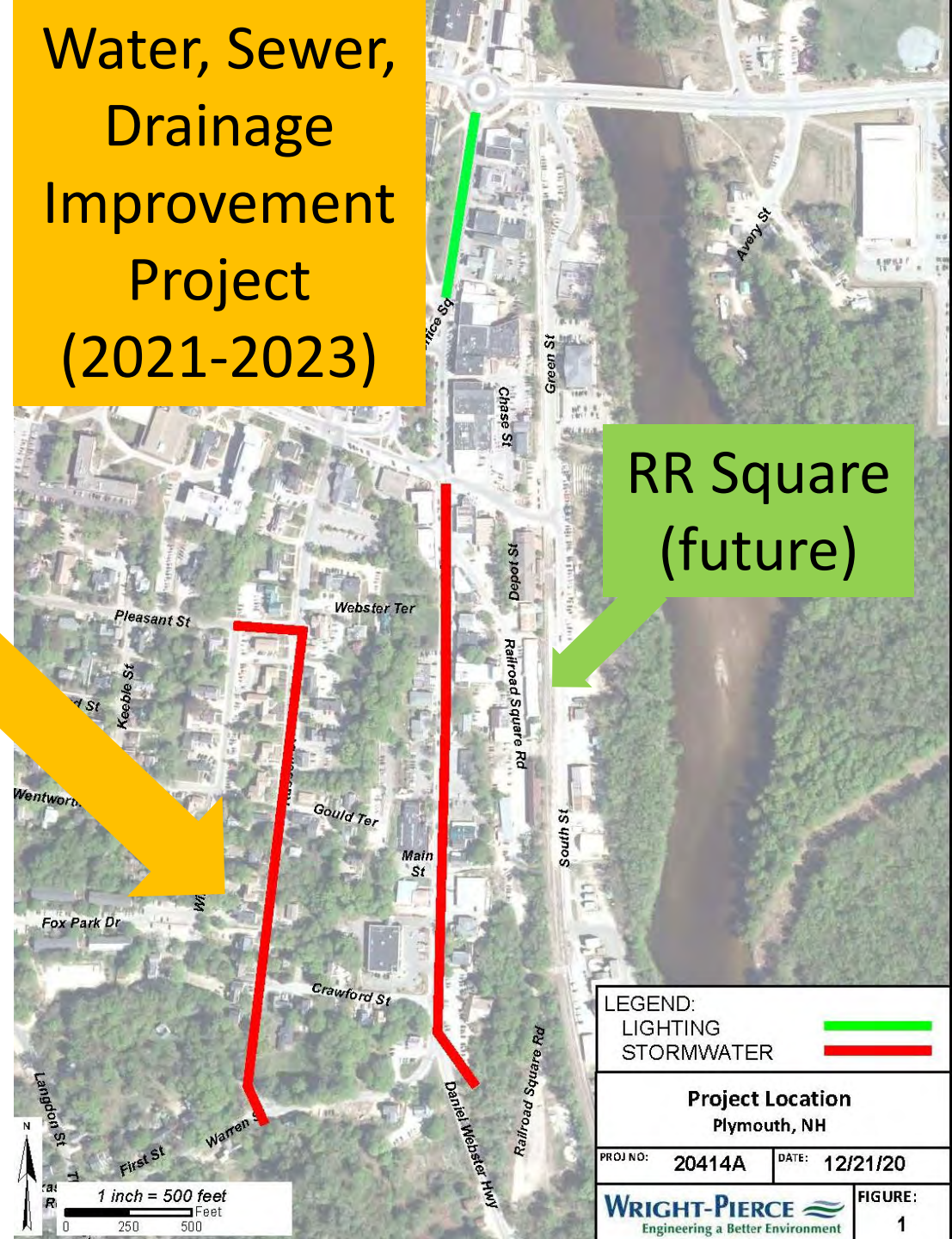
Part of a collaborative initiative to replace drainage, water, sewer, road and sidewalk infrastructure in area around South Main Street (US Route 3)

- 2021-2023 - South Main Street area:
 - Plymouth Village Water & Sewer District – Replace water & sewer lines, separate storm drain from sewer
 - \$2.166 million (USDA Rural Development Grant & Loan + PVWSD funds)
 - Town of Plymouth – Stormwater drainage improvements
 - \$3.375 million (US Economic Development Administration + Town funds)
- 2024 – TAP Sidewalk Project
 - Improve pedestrian sidewalks, connect high-density neighborhood to downtown
 - \$450,000 (NH DOT – TAP)
- Future – Railroad Square
 - New roadway, drainage improvements, sidewalks, parking to support businesses

TAP Sidewalk Project (2024)



Water, Sewer, Drainage Improvement Project (2021-2023)



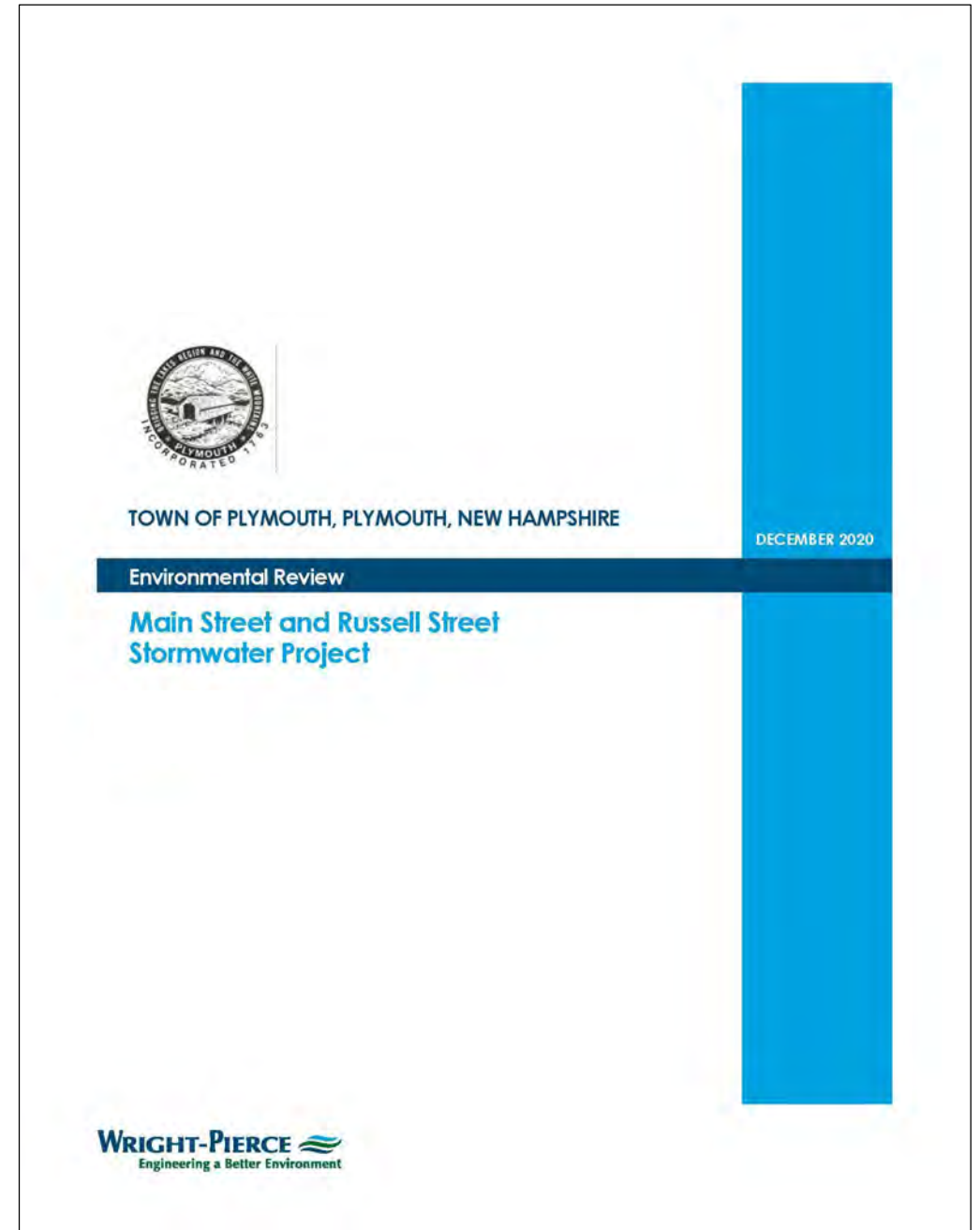
Potential for Success – Financial Readiness:

- Plymouth’s cost share included in Town’s 2021-2022 budget (July 1, 2021 - June 30, 2022)
 - \$70,000 in road construction + \$20,000 for sidewalks as part of the Highway Department’s budget.
- If selected, we will gross appropriate the total project amount in next year’s budget.
- Plan to have two employees obtain Local Public Agency (LPA) certification in 2021 to ensure capacity for project administration.

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Potential for Success – Feasibility:

- Work to be constructed in the Town of Plymouth's existing right-of-way.
 - May need slope & construction easements.
- Environmental Review for project area completed December 2020 as part of preliminary engineering for stormwater improvements on South Main Street.
 - No known environmental, historic, or cultural issues that will impact the feasibility or timeline of the proposed sidewalk project.



Safety – Stress Analysis:

Before:

Stress Analysis Rating = D

- Warren Street, a portion of the south end of Russell Street, and a portion of Crawford Street because they currently lack sidewalks.
- High level of pedestrian & vehicular traffic due to the number of residents and the proximity to Main Street (US Route 3).

Stress Analysis Rating = B and C

- Portions of Russell Street - Existing sidewalks that are narrow and non-compliant.
- Intersections are deteriorated and do not comply with current standards.

After:

- Sidewalk project along with overall Main Street infrastructure improvements will create a safe, connected pedestrian system throughout our downtown & surrounding high-density residential neighborhood.
- Post project Stress Analysis Rating = A and B

Safety – Improve Safety Conditions:

Current:

- Lack sidewalks in project area. Existing sidewalk is old, no longer serviceable, & does not meet ADA standards.
- Pedestrians walk in vehicle travel way.
- Need adequate sidewalks that meet design standards (width, intersection design, and materials).
- The stormwater drainage system in the area is >100 years old & is no longer capable of handling a 1-year, 24-hour storm event. Water & icing adds to safety concerns as pedestrians.

Improvements:

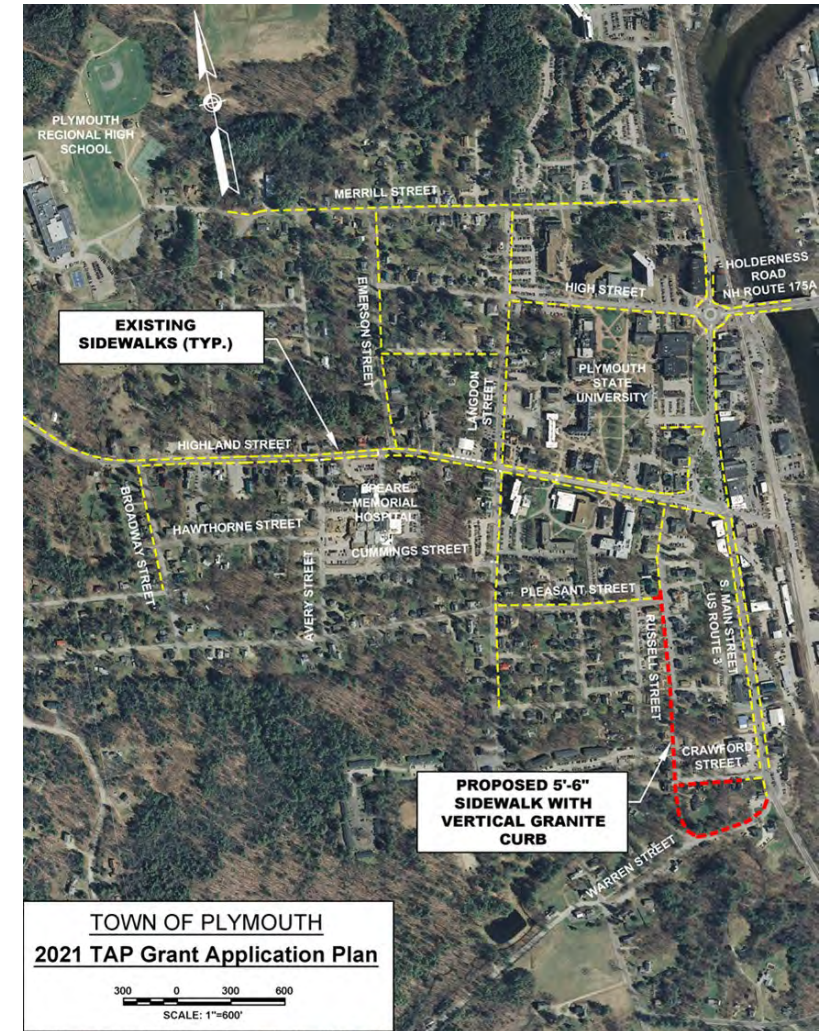
- Project will correct these deficiencies.
- Add new sidewalks.
- Enhancing connectivity.
- Result will be a safe, integrated road & pedestrian system that meets current standards.

Potential for Success – Readiness & Support:

Plymouth's 2018 Master Plan - Goals & Objectives for infrastructure, economic development:

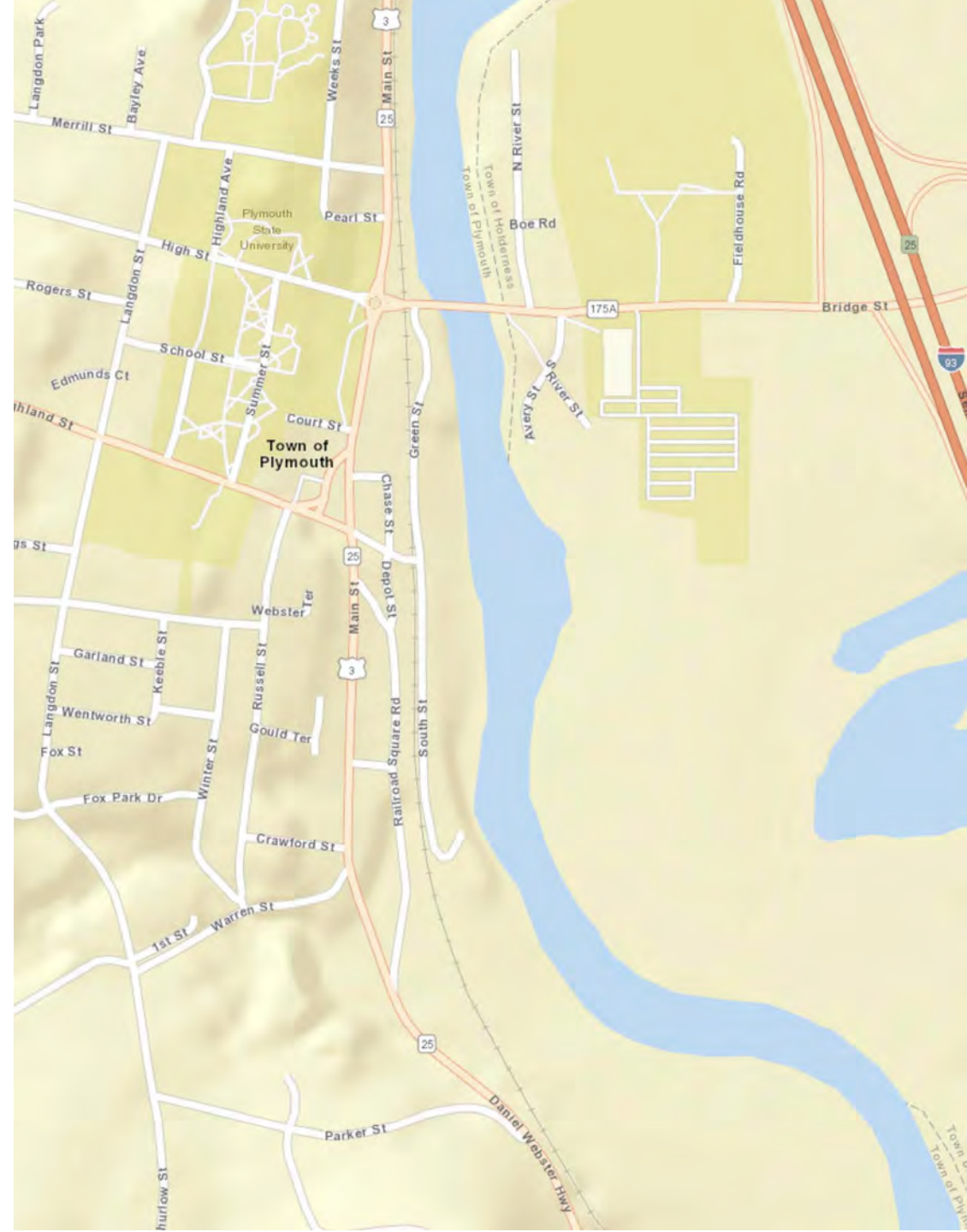
- Create connectivity throughout the Town's sidewalk system, including Main Street and abutting residential neighborhoods;
- Promote safe walking and cycling routes in and around downtown area;
- Maintain a land use pattern including residential neighborhoods within walking distance of Main Street;
- Ensure that scope of local transportation plans includes multimodal connectivity, specifically this includes among Plymouth State University, the downtown, and densely developed neighborhoods; and
- Seek funding for sidewalk and pedestrian projects from NH DOT's TAP.

Support from Property Managers, NH DOT, Highway Department, Select Board, Planning Board.



Summary:

- New paved sidewalks (2,300 feet) in high-density neighborhood connected to Main Street.
- Paved surface, granite curb, concrete curb ramps.
- Part of overall, planned infrastructure improvements.
- Improved safety.
- Enhanced connectivity.
- Ready for implementation.





Questions?

Plymouth, NH 2021 TAP Sidewalk Project

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