



SECTION 4: PROPOSED LAND USES, WATER USES, AND PROJECTS

The intent of this LWRP is to maintain the unique character and history of this waterfront community while also promoting economic stabilization and growth. The community strives to provide a mix of appropriate land use patterns including residential development; commercial uses that support current and future residents and tourists; access to recreational facilities, trails, and the lake; and the conservation of important natural resources including active farmland.

4.1 PROPOSED LAND USES

Future land uses implementing this LWRP will be an extension of current land uses, as illustrated in Maps 5 & 6. There are no new land uses proposed in this LWRP.

4.2 PROPOSED WATER USES

The water-related uses, both public and private, in the Village of Union Springs contribute significantly to the community's economy and should be protected from redevelopment to uses that are not related to the waterfront. The Village of Union Springs supports two marinas along the Cayuga Lake waterfront, a municipal public boat launch; and one public beach in Frontenac Park. The expansion or improvement of existing marinas will be permitted subject to the zoning regulations, Site Plan review requirements, and a LWRP Consistency Review.

In conformance with the Policies set forth in Section 3, the Village of Union Springs adopted a Dock and Mooring law to regulate the location, construction, and size of future docks (commercial or residential) that will extend out into the lake in order to preserve the scenic quality and general enjoyment of the lake by all land owners and tourists.

4.3 PROPOSED PROJECTS

The following list of proposed projects has been organized by the overarching categories in Section 3: Waterfront Revitalization Program Policies; and then sub-categorized into larger projects or groups of related projects to allow for coordination during implementation. While nearly all projects identified in this chapter are eligible to receive partial funding from the NYS DOS, where possible other funding sources and partnership agencies have been identified. Detailed design concepts and cost estimates have been provided by Clark Patterson Lee for a select number of proposed projects; and included below. Many projects will require consultation and/or negotiation with private land owners, feasibility studies to be conducted, and construction drawings to be produced prior to permitting and construction. Other projects will rely on private investors/entrepreneurs or state/county agencies for implementation. All proposed construction projects will be required to initiate and complete the SEQR process before local or state approval, and any required permits will be granted.

A. Developed Waterfront



Support existing and encourage the development of new retail and tourism based businesses in appropriate locations.

There are numerous opportunities along the waterfront and in downtown for the expansion of existing businesses and for the development of new businesses that provide goods and services to both the year-round resident population and the seasonal tourism industry. The village seeks to expand the local tourism industry by increasing the number and variety of food and beverage establishments, retail, recreation, and lodging options in the WRA.

The Village of Union Springs will partner with area agencies like the Cayuga County Tourism Office and the Cayuga County Economic Development Agency (CEDA) to achieve their shared goal of developing a stable economic base in the community that caters to both residents and tourists alike. For example, the Cayuga County Tourism Office's key initiatives of: encourage, develop, and promote unique local culinary experiences especially the Finger Lakes Sweet Treat Trail, wineries, breweries & farm-to-table; maintain Boomer market, while growing the Gen-X and Gen-Y markets; promote shoulder seasons; and continue regional partnerships and seek new alliances and coop opportunities align with the target markets identified for Union Springs in the Market Analysis conducted in Section 2 of the LWRP plan.

Project 1: Promote the development of new businesses and expansions to existing businesses including any or all of the following:

- Work with and encourage the owner of the ShurFine grocery store to expand their building and offerings to the community.
- Solicit the establishment of a full-service pharmacy in the downtown historic business district.
- Solicit the establishment of a small hotel or B&Bs in the WRA.
- Encourage the development of more restaurants and family food choices in the area, particularly in downtown; as well as a better variety of small stores that cater to both year-round residents and seasonal tourists.
- Encourage the establishment of agri-tourism enterprises such as a brew pub, farmers' market, etc.

Estimated cost: Varies based on extent and location of projects

Potential funding sources: Cayuga Economic Development Agency (CEDA) marketing funds, Cayuga County Small Business Loan Program, Market New York, NYS Empire State Development Grant Funds (ESD)

Responsible and involved entities: Cayuga County Tourism Office, Cayuga Economic Development Agency (CEDA), Union Springs Chamber of Commerce, Village of Union Springs



Project 2: Explore, and market options for the redevelopment/reuse of the industrial site (separate from the original historic Howland Stone Mill), currently owned by LPW Development, LLC, and adjacent to Frontenac Park. Identify ways to convert this site from an industrial manufacturing/warehouse facility to a more appropriate mixed-use retail and/or recreational facility that enhances the viewshed of Cayuga Lake rather than detracting from it.

Work with CEDA and current property owners to identify options and negotiate their implementation. Some potential uses could include seasonal small scale retail uses like a farmers' market, bistro/coffee shop, pop-up retail shop, etc.; and indoor recreational facilities.

Estimated cost: Varies based on extent of redevelopment proposals

Potential funding sources: Cayuga County Small Business Loan Program, NYS Empire State Development Grant Funds (ESD), NYS Department of State

Responsible and involved entities: Cayuga Economic Development Agency (CEDA), Union Springs Chamber of Commerce, Village of Union Springs

Project 3: Establish a program that would provide funding, in terms of rent payments, to local entrepreneurs to open seasonal businesses (4-6 months) in vacant storefronts in downtown. The intent of this initiative is to help jump start new businesses, provide desired retail and service amenities to tourists and residents, and bring more people to the downtown area; with the ultimate goal of increasing the number of year-round businesses in the community. Work with area financial institutions, charitable foundations, and economic development agencies.

Estimated cost: \$ 10,000 (approx. \$ 800.00 per month per business)

Potential funding sources: Cayuga County Small Business Loan Program, NYS Empire State Development Grant Funds (ESD)

Responsible and involved entities: Cayuga Economic Development Agency (CEDA), Cayuga Lake National Bank, Generations Bank, Union Springs Chamber of Commerce, Village of Union Springs

Project 4: After NYS DOT has completed their stormwater project, and the parcels they purchased have been put up for public auction or transferred to the Village, promote the redevelopment of the street front and buildings that were demolished for the NYS DOT stormwater project in the Historic Business District in downtown Union Springs with appropriate uses and complementary architecture. Work with CEDA, local, and regional developers and agencies.

Estimated cost: Varies based on extent of redevelopment proposals

Potential funding sources: Cayuga County Small Business Loan Program, NYS Empire State Development Grant Funds (ESD), NYS Main Street Program

Responsible and involved entities: Cayuga Economic Development Agency (CEDA), Union Springs Chamber of Commerce, Village of Union Springs

Preserve historic structures for adaptive reuse

There are several key historic properties and structures in the Village of Union Springs within the WRA that need attention for preservation and adaptive reuse. These structures and properties should be listed on the State and National Registers for their importance to the development history of the community; and, with their proximity to the lakeshore, be restored and renovated for public use.

Project 5: Through a feasibility study, explore the possibility of moving the village offices out of the old train station building in Frontenac Park to another location to free up the space for economic development or use as a community space so that the municipal use is not a stagnant use on the waterfront. The village will need to look into the requirements and restrictions for a long-term lease agreement for a non-municipal entity to occupy the space.

Estimated cost: \$ 25,000 (fee for feasibility study only, relocation costs to be determined by study)

Potential funding sources: NYS Department of State

Responsible and involved entities: Village of Union Springs

Project 6: List the Howland Stone Mill building on the National Register of Historic Places.

Estimated cost: N/A- village staff and/or volunteer time

Potential funding sources: N/A

Current Ownership: LPW Development, LLC

Responsible and involved entities: Village of Union Springs

Project 7: Conduct a feasibility study for restoration and redevelopment of the Howland Stone Mill building, a historically significant building; and identify potential developers and new uses for the space (based on the release of a RFP).

Estimated cost: \$ 50,000

Potential funding sources: NYS Department of State, New York State Historic Preservation Office (SHPO), National Trust for Historic Preservation

Current Ownership: LPW Development, LLC

Responsible and involved entities: Village of Union Springs

Project 8: Restore and redevelop the Howland Stone Mill building, based on the results of the feasibility study conducted in Project 7, for a use or uses that are appropriate for the WRA, open to the public, and contextually done in a historically sensitive manner.

Estimated cost: Varies based on results of feasibility study

Potential funding sources: Cayuga County Small Business Loan Program, Cayuga Economic Development Agency (CEDA), National Park Service - Historic Preservation Grants & Tax Incentives, National Trust for Historic Preservation, NYS Empire State Development Grant Funds (ESD), New York State Historic Preservation Office (SHPO), NYS Office of Parks, Recreation and Historic Preservation (OPRHP) Environmental Protection Fund Grants Program for Parks, Preservation and Heritage (EPF)

Responsible and involved entities: Cayuga Economic Development Agency (CEDA), Union Springs Chamber of Commerce, Village of Union Springs

Develop and enforce design guidelines for future development

In order to preserve the historical character and natural scenic beauty in the community, design guidelines applicable to future development or redevelopment are necessary for certain areas within the WRA.

Project 9: Develop a transportation signage plan that assesses all public signage in the WRA; seeks to improve the consistency and design of signage throughout downtown; addresses elimination, consolidation, or relocation of existing signs; and provides design guidelines for a consistent streetscape appearance. This plan should also include the Cayuga County Wayfinding signage standards; the implementation of GPS and QR Codes for coordination for visitors with Smart Phones; and follow MUTCD standards. Engage with NYS DOT during development of the signage plan.

Estimated cost: \$ 10,000

Potential funding sources: NYS Department of State

Responsible and involved entities: NYS Department of Transportation, Village of Union Springs

Project 10: Install new signage for downtown, in accordance with the transportation signage plan developed under Project 9, at the major entrances to the village, and as directional signage to public amenities like Frontenac Park, future trails, etc.

Estimated cost: \$ 23,000

Potential funding sources: NYS Department of State

Responsible and involved entities: NYS Department of Transportation, Village of Union Springs

Project 11: Develop and adopt design guidelines and streetscape standards for the Historic Business District.

Estimated cost: \$ 25,000

Potential funding sources: NYS Department of State

Responsible and involved entities: Cayuga County Department of Planning & Economic Development, Village of Union Springs

Project 12: Incorporate design guidelines into the village's zoning regulations that limit light pollution in order to protect dark skies for migratory birds.

Estimated cost: \$ 5,000

Potential funding sources: New York State Energy Research and Development Authority (NYSERDA), NYS Department of State, Village of Union Springs

Responsible and involved entities: Village of Union Springs

Project 13: Develop and implement a streetlight consolidate/replacement plan for downtown Union Springs, Frontenac Park, and all parking lots in the village. New fixtures would be dark sky compliant (downward facing and shielded).

Estimated cost: \$ 2,500 plan; \$ 30,000-\$ 100,000 fixtures and installation

Potential funding sources: NYS Department of State, Village of Union Springs

Responsible and involved entities: NYS Department of Transportation, Village of Union Springs

B. Natural Waterfront



Help control the spread of aquatic invasive species.

Aquatic invasive plant species affect natural habitats and fisheries. Monitoring is needed to better understand the types of species present and the extent to which they are proliferating. Public education is needed so that residents, visitors, and boaters can recognize those species and take actions to prevent their proliferation.

Project 14: Provide private marinas in the WRA with NYS DEC Aquatic Invasive Species Disposal Stations (aka Weed Boxes) and educational signage/kiosks to help promote and facilitate the removal of aquatic weeds from boats. The public boat launch at Frontenac Park already has said box and signage.

Estimated cost: \$ 3,000

Potential funding sources: NYS Canal Corporation, NYS Department of Environmental Conservation

Responsible and involved entities: Village of Union Springs

Project 15: Support the Finger Lakes Institute Watercraft Steward Program; and request that they continue to provide stewards at Frontenac Park to help educate boaters about aquatic weeds and to make sure that all boats are clean and free of plant materials before entering Cayuga Lake; and before leaving the boat launch site after pulling out of the water. Provide funding for additional stewards to be stationed at Frontenac Harbor Marina and Hibiscus Harbor during the peak boating season. Assist the Finger Lakes Institute with their species identification and educational programs in the community.

Estimated cost: \$ 18,000 (\$ 6,000 for each steward for 10-12 weeks)

Potential funding sources: Finger Lakes Lake Ontario Watershed Protection Alliance (FL-LOWPA), NYS Canal Corporation, NYS DEC Aquatic Invasive Species Spread Prevention Program, NYS Department of State

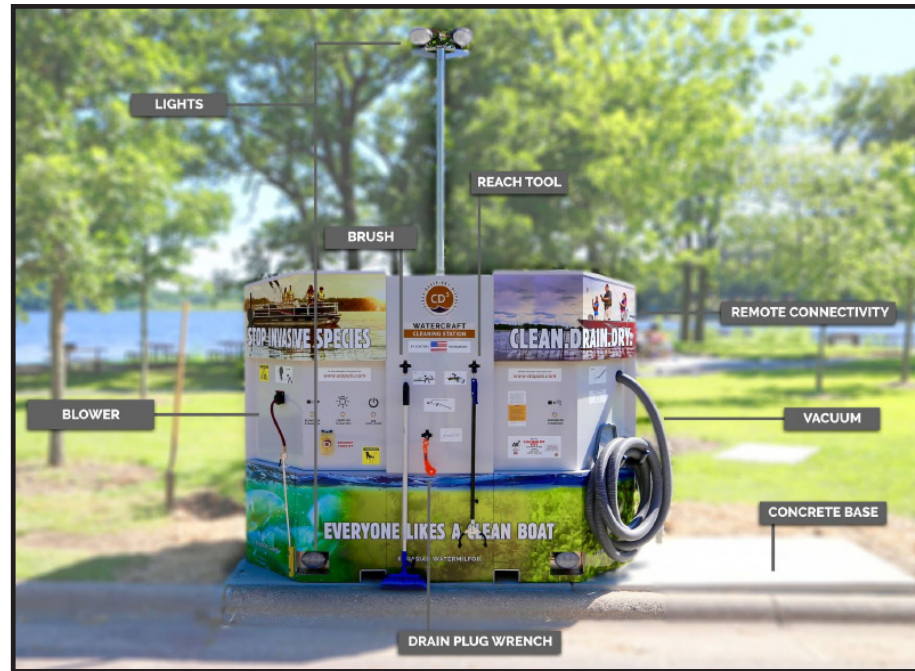
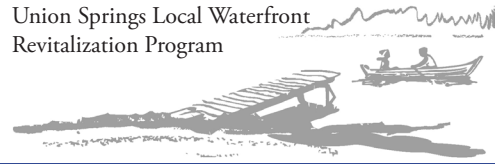
Responsible and involved entities: Cayuga Lake Watershed Network, Finger Lakes Institute, Village of Union Springs

Project 16: Secure funding to install boat washing stations at the marinas and public boat launch in the WRA to help prevent the spread of aquatic invasive species. Work with the marinas to provide matching funding and/or in-kind installation of the stations.

Estimated cost: \$ 39,000 (each station costs \$19,500 x 2 marinas)

Potential funding sources: NYS DEC Aquatic Invasive Species Spread Prevention Program, NYS DEC Water Quality Improvement Project Program

Responsible and involved entities: Local Marina Owners, Village of Union Springs



CD³ Watercraft Cleaning Station¹

Improve management of aquatic weeds

Despite an existing Countywide program of weed harvesting, aquatic weeds continue to interfere with the enjoyment of Cayuga Lake by boaters and waterfront residents. Many comments to the public survey suggested consideration of increased weed harvesting in some of the most populated coves and near the village boat launch. Currently, the Cayuga County Soil & Water Conservation District manages the aquatic weed harvesting program, but is responsible for several lakes in the county including Cayuga Lake, Owasco Lake, Little Sodus Bay (Lake Ontario), Lake Como, and Otter Lake.

Project 17: Work with the Cayuga County Soil & Water Conservation District to secure funding for continued aquatic weed harvesting and removal in Cayuga Lake in areas that experience an overabundance of aquatic weeds which are found to be causing harm to wildlife habitats, impeding boat traffic, and negatively impacting the enjoyment of the lake by residents and visitors. The removal of aquatic weeds also removes some nutrients from the water body and can help reduce the occurrences of Harmful Algal Blooms (HABs). Funding would be used for personnel and equipment costs associated with expanding the harvesting program in Cayuga Lake in Union Springs.

Estimated cost: \$ 45,000

Potential funding sources: NYS DEC Aquatic Invasive Species Spread Prevention Program, NYS DEC Water Quality Improvement Project Program, NYS Department of State

Responsible and involved entities: Cayuga County Soil & Water Conservation District, Village of Union Springs

Project 18: Work with the Cayuga County Soil & Water Conservation District to secure funding to expand the mechanical weed harvesting in Cayuga Lake by purchasing an additional aquatic weed harvester. The current harvester used by the Cayuga County Soil & Water Conservation District is aging and does not operate as efficiently as needed to adequately control the aquatic weed infestations plaguing Cayuga Lake.

Estimated cost: \$ 300,000

Potential funding sources: NYS DEC Aquatic Invasive Species Spread Prevention Program, NYS DEC Water Quality Improvement Project Program, NYS Department of State

Responsible and involved entities: Cayuga County Soil & Water Conservation District, Village of Union Springs



CC SWCD Weed Harvester in use at Frontenac Park²

Reduce erosion and stormwater run-off; and improve the quality of water flowing into creeks and Cayuga Lake from developed land

Stormwater runoff from developed land, including residential and business properties and roadways, contributes sediment and contaminants that impact water quality in Cayuga Lake and its tributaries. Runoff of nutrients and sediment also contribute to the aquatic weed growth that interferes with boating in the lake.

Project 19: Participate in the development of the new Cayuga Lake Watershed Restoration & Protection Plan and program. Maintain membership in with the Cayuga Lake Watershed Intermunicipal Organization. Work with other municipalities around Cayuga Lake to implement the recommendations from the plan within the WRA; and on all lands in the village that fall within the Cayuga Lake Watershed in order to more proactively reduce pollutants in of stormwater runoff and to improve water quality in the lake.

Estimated cost: Varies (annual dues plus individual project costs TBD once implementation of the watershed restoration plan has begun)

Potential funding sources: NYS Department of Environmental Conservation, NYS Department of Transportation, Village of Union Springs

Responsible and involved entities: Cayuga Lake Watershed Intermunicipal Organization, Cayuga Lake Watershed Network, Village of Union Springs



Project 20: Survey and evaluate areas along the lakeshore to identify areas in need of streambank stabilization; the techniques/BMPs that should be used in each identified location; and what the costs of these mitigation measures would be (Phase 1). Work with the Cayuga County Soil & Water Conservation District to secure funding to implement the streambank stabilization methods as determined in the survey (Phase 2).

Estimated cost: \$ 25,000 (Phase 2 costs to be determined from results of survey)

Potential funding sources: NYS DEC Water Quality Improvement Project Program, NYS Department of State

Responsible and involved entities: Cayuga County Soil & Water Conservation District, Village of Union Springs

Project 21: Conduct a green infrastructure feasibility study to identify the best locations for rain gardens and bio-swales to collect and filter runoff, improve groundwater recharge and the quality of surface waters; and develop a program to provide cost sharing and technical assistance to local stakeholders.

Estimated cost: \$ 24,000

Potential funding sources: NYS Environmental Facilities Corporation / Green Innovation Grant Program, NYS Department of State, NYS Department of Environmental Conservation, NYSEDA, Cayuga County Soil & Water Conservation District

Responsible and involved entities: Cayuga County Soil & Water Conservation District, Village of Union Springs

Project 22: Distribute educational materials to residents and businesses to encourage the installation of rain barrels to reduce the quantity of stormwater runoff and improve the quality of runoff by increasing filtering through lawns and groundcover. Purchase a small stock of rain barrels from the Cayuga County Soil & Water Conservation District (SWCD) to distribute to interested residents and businesses; and work with the SWCD to host a rain barrel building/usage workshop.

Estimated cost: \$ 5,000 (rain barrels are \$ 65.00 each)

Potential funding sources: NYS Department of State

Responsible and involved entities: Cayuga County Soil & Water Conservation District, Village of Union Springs

Project 23: Maintain and stabilize stream banks and roadside ditches in order to improve the collection and filtration of stormwater runoff and identify green alternatives to the existing designs, in accordance with the Cayuga County Water Quality Management Agency's Guidelines for Municipal Maintenance of Roadside Ditches. Secure financial support for village and county highway departments.

Estimated cost: \$ 100,000

Potential funding sources: NYS Department of State, NYS Department of Transportation, NYS Department of Environmental Conservation, NYS Environmental Facilities Corporation/ Green Innovation Grant Program, Cayuga County Soil & Water Conservation District

Responsible and involved entities: Cayuga County Soil & Water Conservation District, Village of Union Springs

Reduce the flow and improve the filtration of stormwater runoff from agricultural land

Runoff from agricultural land may contribute to the buildup of sediment, pesticides, and nutrients in Cayuga Lake that can lead to the development of Harmful Algal Blooms (HABs), also known as Blue-Green Algae. The Agricultural Environmental Management (AEM) program, managed locally by the Cayuga County Soil & Water Conservation District, works with farmers to identify and implement practices that reduce the potential for such contaminants to flow into water bodies.

Project 24: Work with the Cayuga County Soil & Water Conservation District to provide technical and financial assistance to farm operators to implement sediment/erosion control Best Management Practices to reduce the quantity and improve the quality of runoff from agricultural lands. Specific projects may include:

- Preparation and implementation of nutrient management plans;
- Creation of new sediment/nutrient filtering wetlands and new bio-retention areas;
- Streambank stabilization;
- Treatment of farm drainage system outflow before water reaches a creek or the lake; and
- Use cover crops on agricultural lands to help minimize erosion and stormwater run-off issues.

Estimated cost: Varies by project

Potential funding sources: Cayuga County Soil & Water Conservation District, Environmental Facilities Corp. - Green Innovation Grant Program, NYS DEC Water Quality Improvement Project Program, NYS Department of Agriculture & Markets, NYS Department of State

Responsible and involved entities: Cayuga County Soil & Water Conservation District, Village of Union Springs

Improve methods for effective erosion control and stormwater management, including prevention of flooding during major storm events.

The village has experienced destructive flooding during recent storm events due primarily to aging stormwater infrastructure, or in some locations, a lack of adequate infrastructure to handle stormwater. Erosion from upland farmland and other development projects has also created problems in the creeks and streams that feed into the existing stormwater infrastructure. The village adopted regulations for stormwater management, however; plans and improvements to stormwater systems are needed in order to reduce the risks for flooding in the future.

Project 25: Develop a WRA-wide Stormwater Management Plan that addresses the long-term remediation of uncontrolled stormwater runoff and associated erosion. Develop guidelines that could be used on a regular basis for future improvements to parking, stormwater runoff, natural filtration, green roofs, and erosion control.

Estimated cost: \$ 30,000

Potential funding sources: Environmental Facilities Corp. - Green Innovation Grant Program, NYS DEC Water Quality Improvement Project Program, NYS Department of State

Responsible and involved entities: Cayuga County Department of Planning & Economic Development, Village of Union Springs



Project 26: Develop and implement a Major Storm Event Plan that includes an engineering study that assess the maximum capacities of all dams, bridges, culverts, ditches and other stormwater structures throughout the Waterfront Revitalization Area with the goal of identifying inadequacies. Determine the need to upgrade at-risk structures for large storm events and implement appropriately engineered stormwater management flood prevention techniques within municipal roadways.

Estimated cost: \$ 30,000

Potential funding sources: Environmental Facilities Corp. - Green Innovation Grant Program, NYS DEC Water Quality Improvement Project Program, NYS Department of State

Responsible and involved entities: Cayuga County Department of Planning & Economic Development, Village of Union Springs

Protect significant natural areas

The protection of significant natural areas is important in order to maintain the overall character of the community and biodiversity within the WRA.

Project 27: Hire a consultant to prepare a report that identifies rare types of flora and fauna and other naturally and archaeologically sensitive areas that should be protected in the WRA; and also to design and create educational materials, including but not limited to brochures, kiosks, and interpretive signage, that can be placed in specific recommended locations in the WRA to help preserve and protect the identified species. The report should include cost estimates for printing, purchasing, and installing recommended educational materials.

Estimated cost: \$ 75,000

Potential funding sources: NYS Department of State, US Fish & Wildlife Service

Responsible and involved entities: Cayuga Lake Watershed Network, Finger Lakes Institute, US Fish & Wildlife Service, Village of Union Springs

Project 28: Purchase and install kiosks and interpretive signage at locations identified from Project 27; and print educational brochures to be distributed to residents and visitors about the identification and importance of protecting and preserving these significant and rare types of flora and fauna.

Estimated cost: To be determined by cost estimates provided in the report from Project 27.

Potential funding sources: NYS Department of State, US Fish & Wildlife Service

Responsible and involved entities: Cayuga Lake Watershed Network, Finger Lakes Institute, US Fish & Wildlife Service, Village of Union Springs

Project 29: Work with the Union Springs Central School District to explore the possibility of establishing a nature center and educational area in/around the wetlands and oak forest behind the school on their property. Hire a consultant to conduct a feasibility study and prepare schematic plans.

Estimated cost: \$ 60,000

Potential funding sources: NYS Department of State, NYS Office of Parks, Recreation, and Historic Preservation

Responsible and involved entities: Union Springs Central School District, Village of Union Springs

Maintain and enhance views of the waterfront.

Scenic views and the beauty of the waterfront are the most appreciated aspects of the waterfront in this community. Views are important from public areas as well as from private properties.

Project 30: Hire a consultant to assist in the identification and designation of key scenic viewpoints and corridors, develop, and incorporate guidelines into local land use regulations to protect views from public and private properties when buildings are constructed or reconstructed in those areas.

Estimated cost: \$ 25,000

Potential funding sources: NYS Department of State, Village of Union Springs

Responsible and involved entities: Village of Union Springs

Project 31: Work with the Finger Lakes Land Trust to identify and secure conservation easement projects in environmentally sensitive areas of the WRA that would preserve natural resources, scenic viewsheds, endangered or threatened species, and provide low impact limited public access where appropriate.

Estimated cost: Varies based on conservation projects that are identified

Potential funding sources: Finger Lakes Land Trust, US Fish & Wildlife Service

Responsible and involved entities: Finger Lakes Land Trust, Village of Union Springs

C. Public Waterfront



Upgrade existing outdoor public recreational facilities

The most widely used facilities for outdoor public recreation are located within Frontenac Park, including the public boat launch. A team from the consultant firm Clark Patterson Lee was hired as part of the development of this LWRP to identify and provide schematic designs for specific improvements within the park. Their designs and cost estimates are included in the projects below.

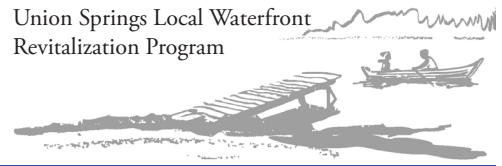
Project 32: Prepare final designs and construction documents for improvements to Frontenac Park in accordance with the new conceptual development plan for Frontenac Park, developed by Clark Patterson Lee (see page 172). Construct said improvements in phases as necessary.

Estimated cost: \$ 6,508,000

- Frontenac Park Stormwater Pollution Prevention Plan (SWPPP): **\$ 8,000**
- Phase 1: Boat Launch and Parking: **\$ 1,200,000**
- Phase 2: North End Improvements: **\$ 4,500,000**
- Phase 3: South End Improvements: **\$ 700,000**
- Phase 4: South Pond Improvements: **\$ 100,000**

Potential funding sources: NYS Department of State, NYS Office of Parks, Recreation, and Historic Preservation, Village of Union Springs

Responsible and involved entities: Cayuga Lake Blueway Trail, Cayuga County Department of Planning & Economic Development, Village of Union Springs



Proposed Improvements to South Pond along Factory Street

Photo Simulation of Concept Plan



Proposed Improvements to South Pond

Photo Simulation of Concept Plan





Proposed Improvements to South Pond

Photo Simulation of Concept Plan



Project 33: Work with the Union Springs Central School District and the village's Parks Committee to develop and provide regular programming and structured activities for school aged and younger children at Frontenac Park.

Estimated cost: \$ 5,000 (annual addition to park budget for programming)

Potential funding sources: Village of Union Springs

Responsible and involved entities: Village of Union Springs

Project 34: Prepare final design and construction documents and make improvements to the Frontenac Park Boat Launch. The proposed improvements include maintenance as well as partial replacements to the two existing boat launch bays and construction of a new launching bay to handle the high demand. The existing boat launch walking surfaces/docks need to be replaced due to the condition of the deteriorating concrete planks. The underwater concrete slabs also are in need of replacement and extension. The proposed repairs and expansion will improve the aesthetics of the launches, and reduce wait times for boaters.

In addition to these upgrades, the village will construct a boat washing station to provide an efficient location for boats to be cleaned, ensuring users are good stewards to our local water resources, and helping to the fight against invasive species and improve the overall experience for boaters on Cayuga Lake.

Estimated cost: \$ 310,000

Potential funding sources: NYS Department of State; NYS Office of Parks, Recreation, and Historic Preservation, Village of Union Springs

Responsible and involved entities: Village of Union Springs



Develop new outdoor public recreational facilities

Currently, there are a limited number of established public recreational facilities in the community outside of Frontenac Park. The projects listed below aim to provide a larger network of trails and recreational opportunities across a larger area of the WRA. A team from the consultant firm Clark Patterson Lee was hired as part of the development of this LWRP to identify and provide schematic designs for new outdoor recreational facilities including trails and birding/viewing areas. Their designs and cost estimates are included in the projects below.

Project 35: Work with Finger Lakes Land Trust and the property owners of McDonalds Point to establish public trails starting from the park, birding areas, and/or natural conservation areas to help conserve this land and stave off inappropriate development.

Estimated cost: \$ 91,500.00 for stone dust trails or \$ 409,000.00 for asphalt trails. Conservation Easement costs TBD.

Potential funding sources: NYS Department of State, NYS Office of Parks, Recreation, and Historic Preservation, Village of Union Springs

Responsible and involved entities: Village of Union Springs

Proposed Multi-Use Trail on McDonalds Point *Concept Plan*



Project 36: Create a public nature trail/walking path around North Pond; and open the fence at the end of North Pond to allow for a pedestrian pathway that would connect Cayuga Street (NYS Route 90) to Salem Street and Green Street.

Estimated cost: \$ 200,000

Potential funding sources: NYS Department of State, NYS Office of Parks, Recreation, and Historic Preservation, Village of Union Springs

Responsible and involved entities: Village of Union Springs

Project 37: The village will acquire the RotoSalt property (1 Foundry Street) adjacent to the south end of Frontenac Park and add it to the park to increase public access to the lakeshore. After acquisition, the village will make some improvements to the property to help alleviate ongoing flooding issues and water quality issues in the lake due to the high volume of water that flows through an adjacent creek. These improvements will include, but are not limited to, re-grading the property, installation of a riparian buffer to help remove pollutants which might otherwise enter Cayuga Lake; and providing public access along the shoreline. Prohibiting access by boats and vehicles close to the shoreline will help to protect this “mini-cove” from erosion, and protect the scenic quality of this property.

Estimated cost: \$520,000

Potential funding sources: NYS Department of State Local Waterfront Revitalization Program, NYS DEC Water Quality Improvement Project Program

Responsible and involved entities: Village of Union Springs

Project 38: Design and develop a “creek walk” outdoor plaza on Cayuga Street (NYS Route 90) between Factory Street and Basin Street over the new culverts after the NYS DOT has completed their stormwater control project in the area; and the parcels they purchased have been put up for public auction or transferred to the Village. As a result of the State’s project, it is anticipated that a net clear area of at least 34-40 foot wide will be created on the west side of Cayuga Street by removing several buildings to accommodate new stormwater control infrastructure; which will create an opportunity for additional public access to the waterfront. Engage with NYS DOT during development of this project.

Estimated cost: \$ 65,000

Potential funding sources: NYS Department of State Local Waterfront Revitalization Program, NYS Office of Parks, Recreation and Historic Preservation (OPRHP) Environmental Protection Fund Grants Program for Parks

Responsible and involved entities: NYS Department of Transportation, Village of Union Springs

Project 39: Support the establishment of a birding trail along Cayuga Lake by the Cayuga Lake Scenic Byway Board; and help coordinate the development of future “spin-off” projects such as a Winter Waterfowl Festival.

Estimated cost: N/A- village staff and/or volunteer time

Potential funding sources: N/A

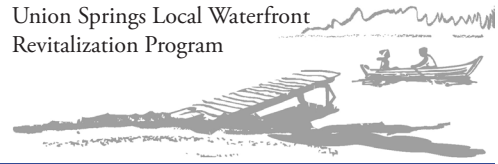
Responsible and involved entities: Union Springs Chamber of Commerce, Village of Union Springs

Project 40: Work with the Cayuga Lake Blueway Trail committee and existing landowners in the WRA to provide additional access points and trail amenities for paddlecraft users along the waterfront.

Estimated cost: N/A- village staff and/or volunteer time

Potential funding sources: N/A

Responsible and involved entities: Cayuga County Department of Planning & Economic Development, Cayuga Lake Blueway Trail, Village of Union Springs



Provide visitor information and support community events

The Village of Union Springs hosts thousands of seasonal summer visitors each year; however; there is not a coordinated marketing/informational program to draw new visitors and to highlight all of the opportunities besides boating and fishing that are available in the community.

Project 41: Work with the Frontenac Historical Society to conduct a feasibility study to establish a visitor information and interpretation center in the WRA; and provide cost estimates for construction. Develop informational/marketing brochures (rack cards); print and distribute them for display at area businesses and in the new visitor center.

Estimated cost: \$ 50,000

Potential funding sources: Market New York, NYS Council on the Arts- Arts and Culture Initiatives, NYS Department of State

Responsible and involved entities: Cayuga County Tourism Office, Frontenac Historical Society and Museum, Village of Union Springs

Project 42: Work with the Union Springs Chamber of Commerce to encourage and support events in downtown, Frontenac Park, and other areas in the WRA that will bring more people to the area; such as booking food trucks during a regularly scheduled concert series at the park.

Estimated cost: \$ 5,000 (\$ 2,500 from the village paid annually to the Chamber of Commerce to support the summer concert series- payment for bands, advertising, etc.; rest from fundraising, grants, etc.)

Potential funding sources: Village of Union Springs

Responsible and involved entities: Union Springs Chamber of Commerce, Village of Union Springs

D. Working Waterfront Area



Upgrade infrastructure

Currently, the water and sewer infrastructure under the public sidewalks that serve the businesses and residents in the project area are at the end of their useful life (many are original construction and over 100 years old); and the sidewalks, curbs, and pedestrian crossings are unsafe and in a state of critical failure.

Project 43: Identify critical public infrastructure improvements, design, and prepare construction documents to address infrastructure needs in the downtown Historic Business District. The engineering firm that is hired will be asked to prepare construction documents and accurate cost estimates for construction of the following:

1. Redesign the pedestrian pathway system in the Historic Business District to meet, at a minimum, Complete Street Standards with:
 - Replacing deteriorated and unsafe sidewalks, and curbing between the sidewalk and NYS Route 90 (Cayuga Street); and upgrading all intersections in the project area with new ADA compliant curb cuts (ramps) and highly visible crosswalks
 - Providing landscaping plans and designs for new street trees, street lighting, wayfinding signage (based on the Cayuga County Wayfinding System plan), benches, trash cans, bike racks, and other public amenities.

2. Address failing utility infrastructure by:
 - Upgrading water infrastructure- replacement of shut off valves and lateral connections to property owners and replacement of deteriorated service lines where necessary
 - Upgrading sewer infrastructure- replacement of connections to property owners and replacement of deteriorated service lines where necessary
3. Upgrade aging overhead utility infrastructure and provide capacity for new technologies by:
 - Installing appropriate conduit to bury overhead utility lines and service line connections to buildings along NYS Route 90 (Cayuga Street)- including the installation of new vaults where necessary
 - Installing appropriate conduit to run high speed internet cable to serve the businesses and residents of the community
4. Design improvements to the storm drainage system to alleviate current and future flooding issues.

Estimated cost: \$ 1,435,000

Potential funding sources: NYS Department of State

Responsible and involved entities: New Visions Communications, Inc., NYS Department of Transportation, NYS Electric & Gas (NYSEG), Verizon, Village of Union Springs

Project 44: Proceed with Phase 2 of the infrastructure improvements for downtown Union Springs using the construction plans and construction cost estimates developed in Project 43.

Estimated cost: To be determined by Project 43.

Potential funding sources: Environmental Facilities Corporation (EFC), NYS Department of Transportation, NYS Empire State Development Grant Funds (ESD), Transportation Alternatives Program (TAP)

Responsible and involved entities: New Visions Communications, Inc., NYS Department of Transportation, NYS Electric & Gas (NYSEG), Verizon, Village of Union Springs

Project 45: In support of Policy 13.4 in Section 3, prepare an oil spill contingency and pollution prevention plan for all fuel and petroleum storage and sales facilities in the WRA that do not currently have one.

Estimated cost: \$ 20,000

Potential funding sources: NYS Department of Environmental Conservation

Responsible and involved entities: Village of Union Springs

Improve the efficiency of the municipal wastewater system.

The Village of Union Springs' sewer treatment plant was first built in 1979 and has undergone numerous upgrades over the last few decades, but it is nearing its capacity limit. The treatment plant serves all of the Village of Union Springs and lakeshore areas in the Town of Springport.

Project 46: Conduct a feasibility study to determine the options for separating the combined sanitary sewer and storm water system to minimize potential overflow and flooding from large rainfall events, leading to the possibility of untreated water or sewage entering the lake; and/or upgrading the treatment system to increase capacity and to handle large rapid flows from storm events.

Estimated cost: \$ 300,000

Potential funding sources: NYS DEC Water Quality Improvement Project Program, NYS Department of State

Responsible and involved entities: Village of Union Springs



Project 47: Explore opportunities to use the treated solids from the wastewater treatment plant as a compost material for non-food uses.

Estimated cost: N/A- village staff time to research and inquire with NYS DEC as to the ability to utilize treated solids for compost on municipal lands or for sale/distribution to landowners for non-food/garden uses.

Potential funding sources: N/A

Responsible and involved entities: Village of Union Springs

Project 48: Conduct a detailed study determining the state of functionality of the Union Springs Wastewater Treatment Plant and the collection system (including connections carrying storm/sump water), and include detailed estimated operating costs. The study should also include the following: a detailed time phased maintenance plan for the system including estimated costs; and a short and long term review with analysis of implementing new technologies including costs and benefits.

Estimated cost: \$ 40,000

Potential funding sources: NYS DEC/EFC Wastewater Infrastructure Engineering Planning Grant, NYS Department of State

Responsible and involved entities: Village of Union Springs

Promote multi-modal transportation options

To increase the sustainability of the community, residents should be encouraged to take advantage of various environmentally friendly transportation options available to them for their out-of-town transportation trips for work, appointments, or leisure; and they should be encouraged to walk or bike as often as possible. To support this effort, the village will need to improve infrastructure and work to bring multi-modal options to the community.

Project 49: Provide publicly accessible electric vehicle (EV) charging stations in village-owned parking lots, making Union Springs a link between other communities on the NYS Route 90 Scenic Byway for environmentally conscious commuters, tourists, etc.

Estimated cost: \$ 20,000

Potential funding sources: Climate Smart Communities Grant Program, NYS Department of State, NYSEDA Energy Efficiency Program

Responsible and involved entities: Village of Union Springs

Note: Take advantage of the financial support that NYSEDA is currently providing for the establishment of publicly accessible electric vehicle (EV) charging stations.

Project 50: Explore ways to promote a grassroots car sharing/carpooling program for residents in the three Cayuga Lake Villages for commuting back and forth to work.

Estimated cost: N/A- volunteer time using social media apps like Facebook and Nextdoor.

Potential funding sources: N/A

Responsible and involved entities: Villages of Aurora, Cayuga, and Union Springs

Support enhancements to marinas and docks

In order to protect the economic vitality of the recreational boating industry, which is the primary economic driver in the community, the existing marinas are in need of various improvements. These improvements range from upgrading existing infrastructure to increasing resilience against storm and flooding events, and new amenities for their customers. In addition to supporting the long-term economic stability of the marinas in the community, the village would like to enhance the appearance of the private docks along the lakeshore in order to preserve the scenic vistas across the lake that the community is known for.

Project 51: Work with the existing marinas to provide additional amenities and commercial business opportunities at their current location; and look for ways to assist them with upgrading their facilities, infrastructure, appearance, etc. including connecting their boat septic pump-out stations to the municipal sewer system instead of their current holding tanks.

Estimated cost: Varies depending on individual needs and proposals from marinas.

Potential funding sources: Cayuga County Small Business Loan Program, NYS DEC Water Quality Improvement Project Program

Responsible and involved entities: Union Springs Chamber of Commerce, Village of Union Springs

Protect agricultural lands in the waterfront area

The preservation and continuation of the working agricultural lands within the Waterfront Revitalization Area is critical to maintain the visual rural character of the community. These lands are also a vital tool for water quality protection in this area of the Cayuga Lake Watershed. The farmland in the WRA also offers opportunities for growth in the agri-tourism sector and could provide additional opportunities and activities for residents and tourists alike.

Project 52: Encourage the use of conservation easements on active farmland in the WRA. Work with the Cayuga County Department of Planning & Economic Development, local land trusts, and land owners.

Estimated cost: No upfront costs to solicit interest in the State's PDR program. If a farm is selected by a land trust, then an application to NYSDAM will be made when a funding cycle is open; and the land trust will determine the cost of that project.

Potential funding sources: NYS Department of Agriculture & Markets

Responsible and involved entities: Cayuga County Department of Planning & Economic Development, Finger Lakes Land Trust, New York Agricultural Land Trust, Village of Union Springs

Citations

1. Image of the CD³ Watercraft Cleaning Station. Available at: <http://www.cd3station.com>

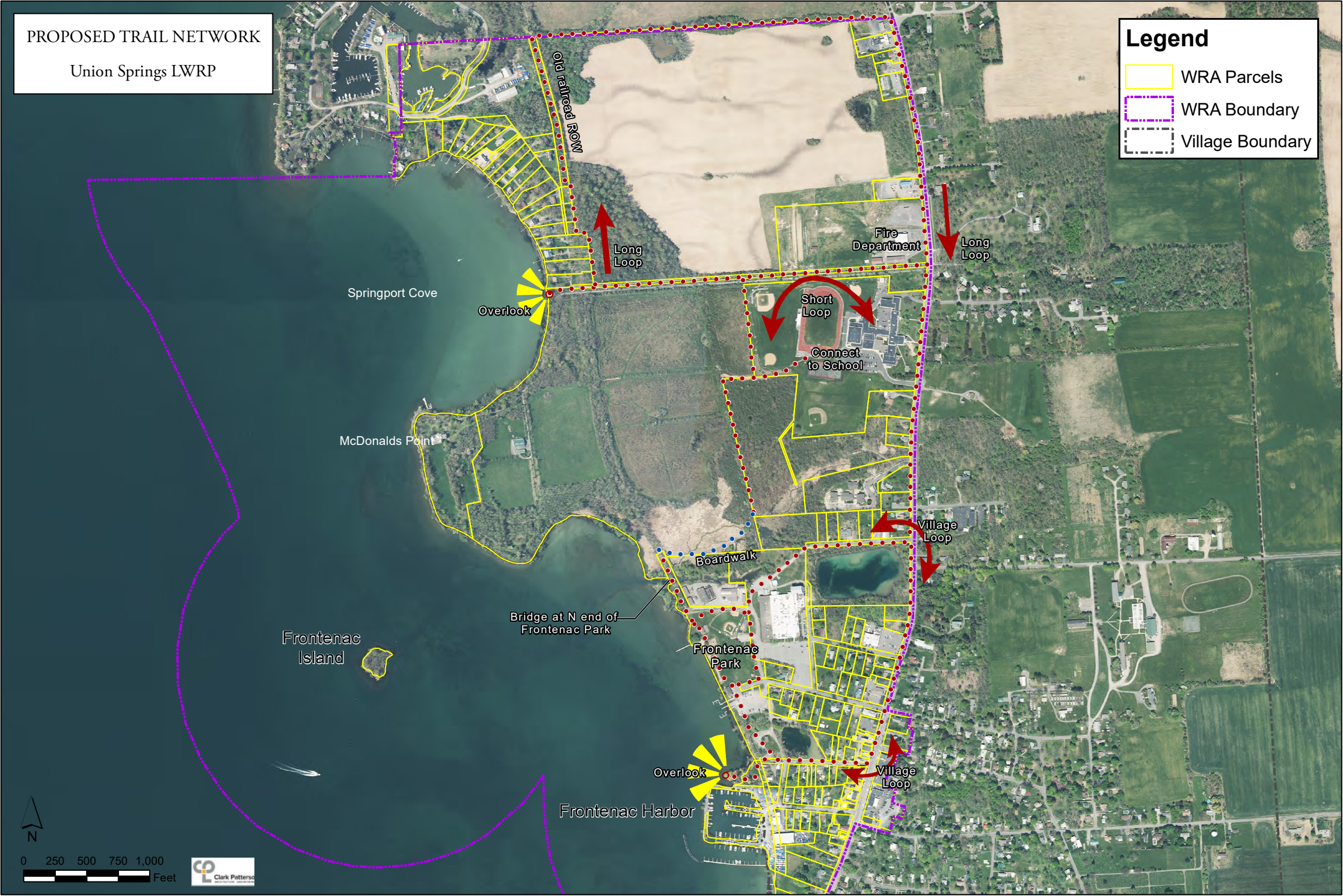
2. Photograph of the Cayuga County Soil & Water Conservation District's Aquatic Weed Harvester in use at Frontenac Park taken by Kari Terwilliger, July 12, 2017.

Proposed Improvements to Frontenac Park

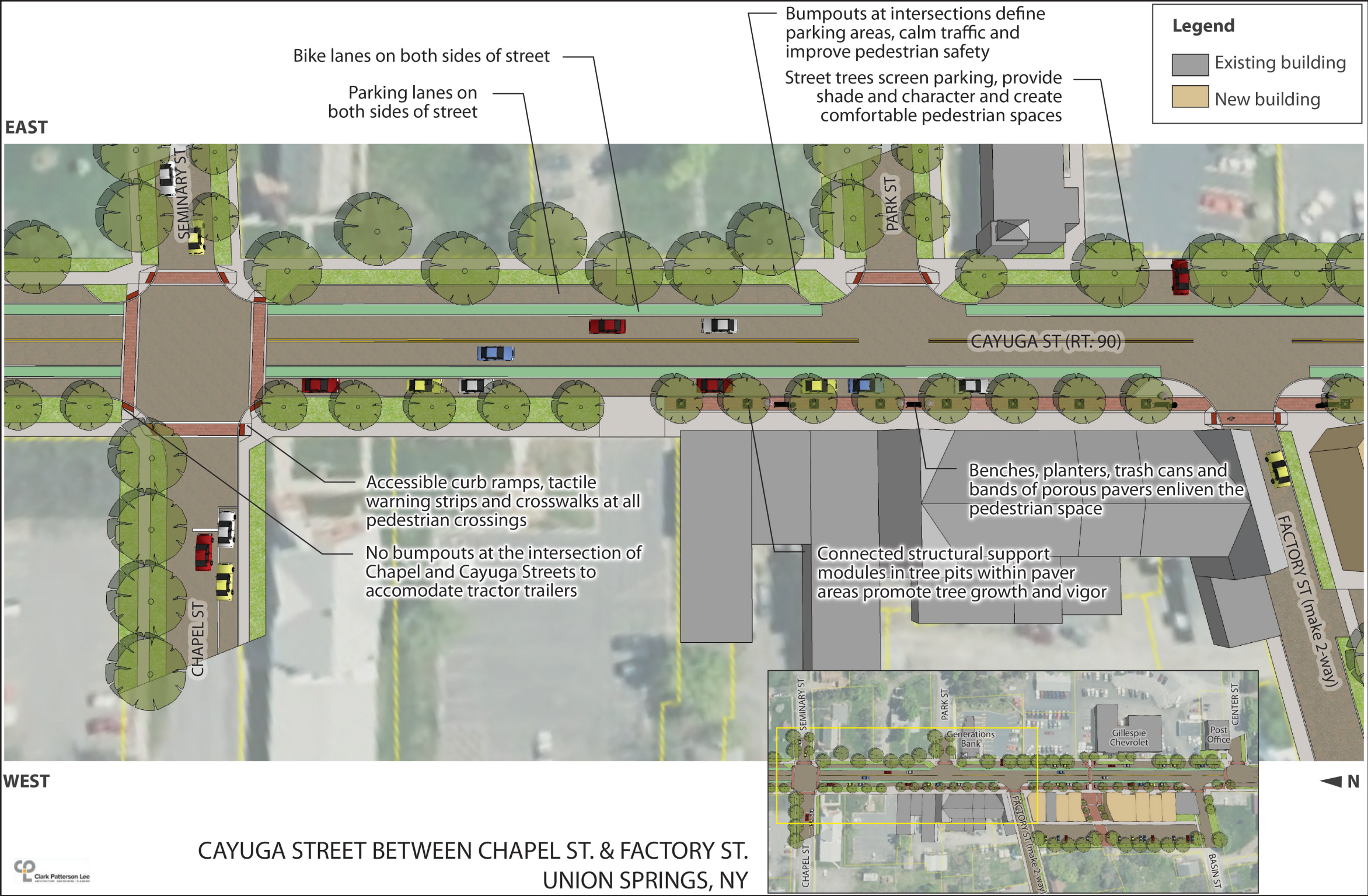
Concept Plan



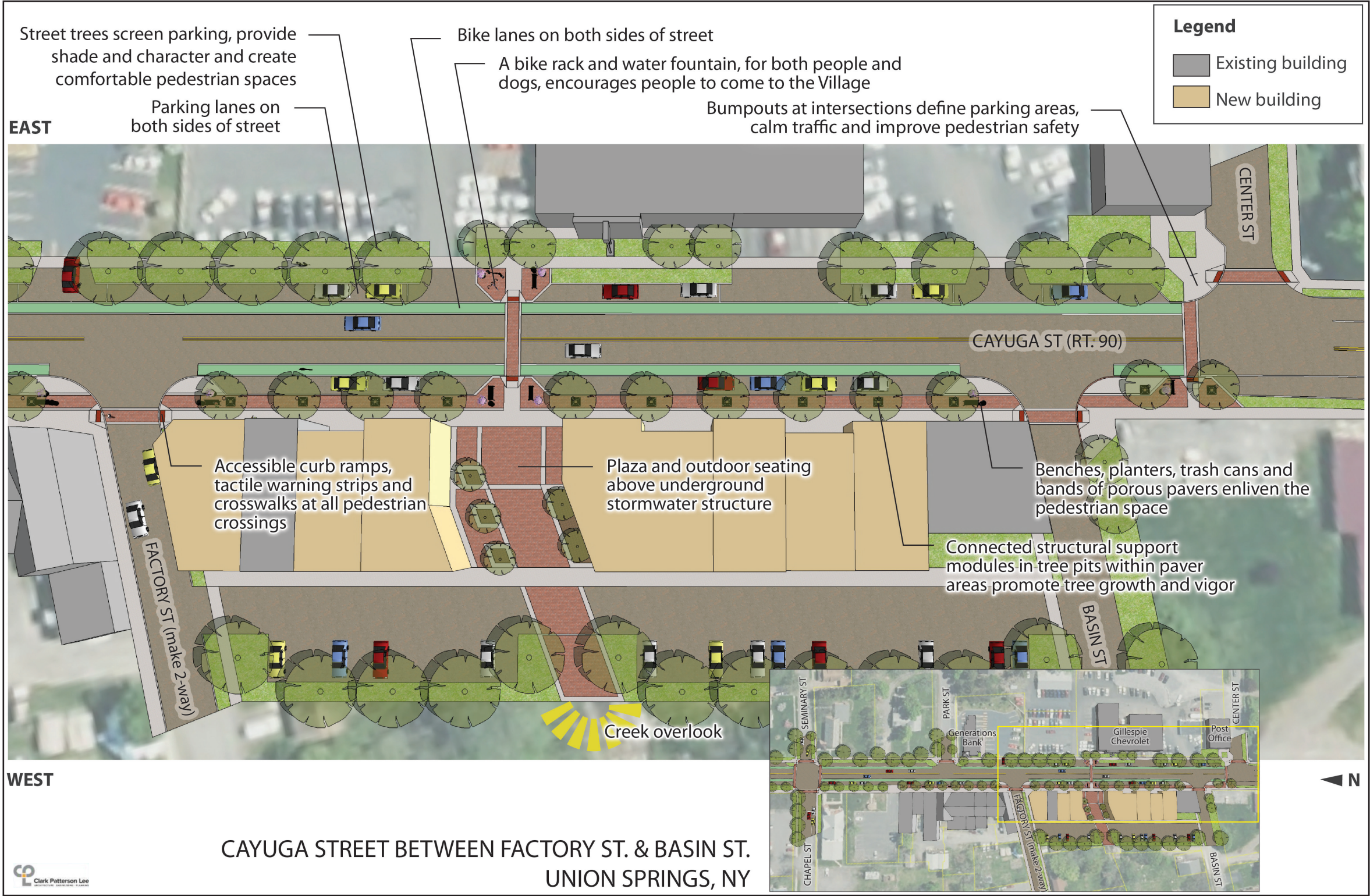
Proposed Multi-Use Trail Network
Concept Plan



Proposed Streetscape Improvements in the Historic Business District
Concept Plan



Proposed Streetscape Improvements in the Historic Business District
Concept Plan



Proposed Streetscape Improvements in the Historic Business District
Concept Plan

