



# Village of Sherman

*2020 Green Innovation Grant Program (GIGP) Application*

**Green Infrastructure Gateway Streetscape Retrofits | Public Information Meeting**

January 20, 2021

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Senior Project Landscape Architect

# Sustainable Infrastructure Planning

*Stormwater Infrastructure Engineering Study Report*

**Village of Sherman**

Chautauqua County, New York

Prepared for

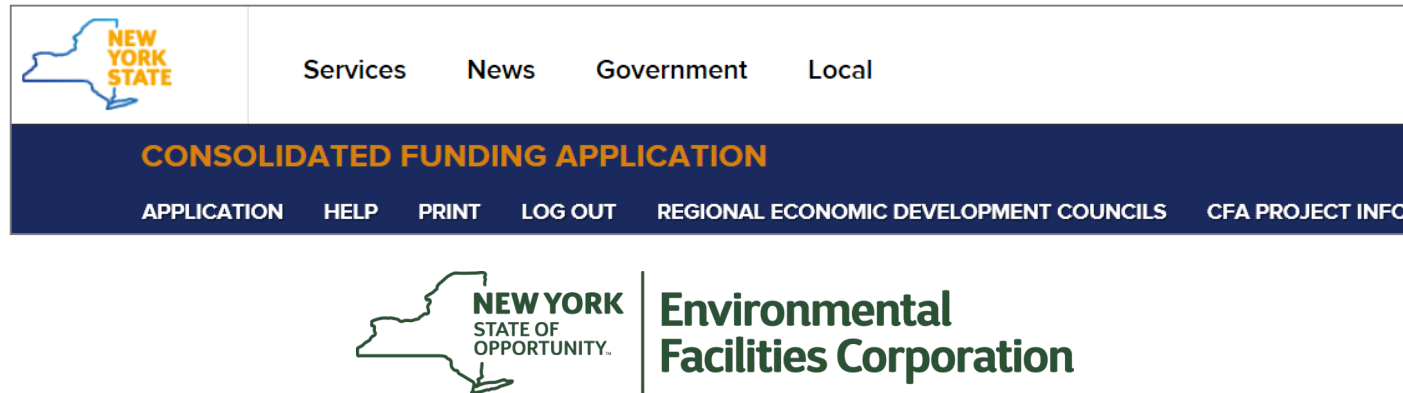
**Village of Sherman**

111A Mill Street  
P.O. Box 568  
Sherman, New York 14781

March 2020

- Received a 2018 Community Planning Grant through the NYS Office of Homes and Community Renewal
- PER Completed March of 2020
- Evaluated the condition and capacities of existing stormwater management and conveyance systems
- Developed recommended capital improvements
- Selected five projects for further evaluation that could be utilized for future grant applications → Green Infrastructure Gateway Streetscape Retrofits was Project No. 1

# 2020 Consolidated Funding Application (CFA) for GIGP



## WHAT IS THE GREEN INNOVATION GRANT PROGRAM? (GIGP)

- Up to 90% of **ELIGIBLE** project costs / 10% Village match (*cash and/or force account*)
- Improve water quality by reducing and treating stormwater at its source through infiltration and/or evapotranspiration
- Maximize opportunities to leverage the multiple benefits of green stormwater infrastructure:
  - ✓ spur innovation in the field of stormwater management
  - ✓ build capacity to construct and maintain green stormwater infrastructure
  - ✓ facilitate the transfer of new technologies and practices to other areas of the State

# Green Infrastructure Gateway Streetscape Retrofits

## Village of Sherman

### GREEN INFRASTRUCTURE GATEWAY STREETScape RETROFITS

Chautauqua County, New York



# GIGP

## 2020 GRANT APPLICATION

PREPARED FOR  
**Village of Sherman**  
111A MILL STREET  
P.O. BOX 568  
SHERMAN, NY 14781

PREPARED BY  
**Barton & Loguidice, D.P.C.**  
11 CENTRE PARK  
ROCHESTER, NY 14626

FEBRUARY 2021

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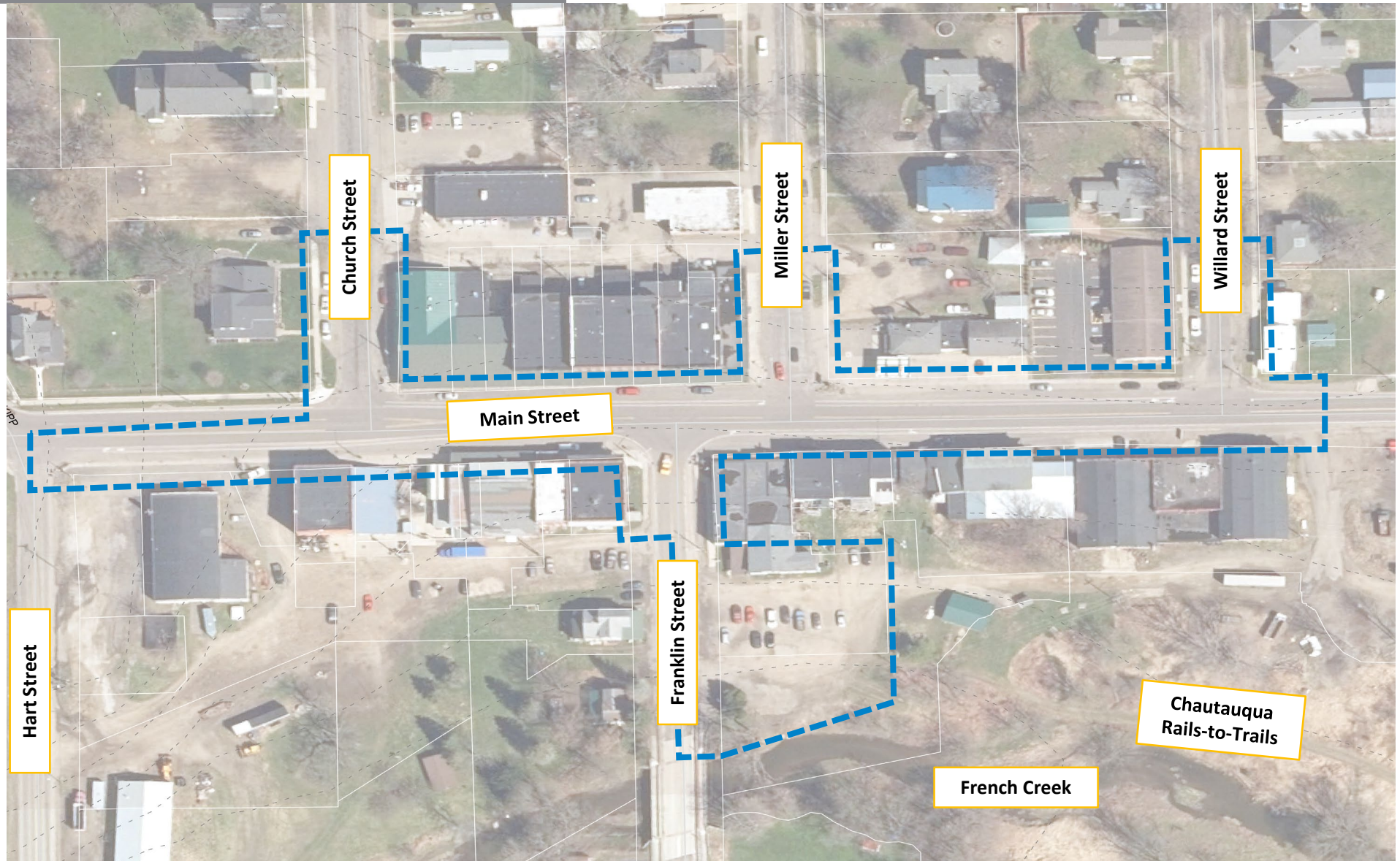
*Subsurface Investigations*

**GIGP  
Application  
Requirements**



# Green Infrastructure Gateway Streetscape Retrofits

## Project Location



# Green Infrastructure Gateway Streetscape Retrofits

## Project Need

*Increased concern with stormwater quantity and quality within the Village has elevated the need for building **community resiliency** and **protecting community assets** from stormwater impacts.*

- Mitigate the potential impacts of future storm events
- Minimize localized flooding
- Achieve ancillary benefits by improving water quality to French Creek and the Alleghany River Drainage Basin through the use of Green Infrastructure (GI) practices

## Project Objectives

- Reduce the amount of runoff
- Improve water quality
- Decrease the amount of impervious surfaces



# Green Infrastructure Gateway Streetscape Retrofits

## Concept Plan



Village of Sherman

Stormwater Infrastructure Preliminary Engineering Report

Project No. 1: Concept Plan

January 2020

### GREEN INFRASTRUCTURE RETROFIT PRACTICES

- 1 BIO-RETENTION BUMPOUTS**  
Installation of bio-retention bumpouts with curb drops to capture stormwater runoff, for a total coverage of 10,000 SF.
- 2 PERMEABLE ASPHALT PARKING**  
Replacement of existing pavement, for a total coverage of 3,500 SF.
- 3 FLEXIBLE POROUS PAVEMENT**  
Replacement of existing pavement with flexible porous pavement for snow storage and infiltration. Place stormwater street trees with CU structural soil where feasible. 6,500 SF coverage.
- 4 CONCRETE SIDEWALK**  
Concrete sidewalks pitched towards flexible porous pavement for snow storage and infiltration. Install granite curbing with 6" reveal to direct roadway runoff to curb drops.
- 5 EASTERN & WESTERN VILLAGE GATEWAYS**  
Visually notify the driver that they are entering a dense residential area...and to SLOW DOWN!
- 6 DOWNSPOUT DISCONNECTIONS**  
Installation of rain barrels and stormwater to planters capture and re-use stormwater from downspouts, for a total coverage of 1,060 SF.
- 7 PUBLIC PARKING & TRAILHEAD IMPROVEMENTS**  
Installation of non-porous pavements pitched towards bioretention gardens and enhanced riparian buffer strip along French Creek at existing Chautauqua Rails-to-Trails trailhead.

### SITE IMPROVEMENTS

- 8 PEDESTRIAN CROSSINGS**  
Enhanced crossings at bumpouts provide traffic calming and pedestrian safety.
- 9 SHARED LANE MARKINGS**  
Install shared lane markings indicating shared space between vehicles and bicyclists.
- 10 EV CHARGING STATIONS**  
Install electric vehicle charging stations at select location (s) for Climate Smart Community certification.



# Green Infrastructure Gateway Streetscape Retrofits

## Concept Sketch View 1



PROPOSED CONCEPT SKETCH

Village of Sherman  
Stormwater Infrastructure Preliminary Engineering Report  
Project No.1: Perspective on Main Street (view west)  
January 2020

EXISTING CONDITIONS





# Green Infrastructure Gateway Streetscape Retrofits

## Concept Sketch View 2



PROPOSED CONCEPT SKETCH

Village of Sherman  
Stormwater Infrastructure Preliminary Engineering Report  
Project No. 1: Perspective on Main Street (view east)  
January 2020

EXISTING CONDITIONS



# Green Infrastructure Gateway Streetscape Retrofits

## Next Steps

- Assemble EFC-compliant Engineer Stamped Feasibility Study
- Village to continue securing easements / ownership
- Gain support from community groups, agencies
- Application due **February 12, 2021**

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