

# PIN 8762.19

## Waverly Avenue Bridge Replacement

Over the Sheldrake River  
Town of Mamaroneck, Village of Mamaroneck  
Westchester County, NY

Public Informational Meeting

July 13, 2020 – 7:30 PM



# *Municipal Team*



## **Town of Mamaroneck**

- Nancy Seligson – Town Supervisor
- Stephen Altieri – Town Administrator
- Robert Wasp – Town Engineer
- Elizabeth Aitchison – Town Environmental Planner

## **Village of Mamaroneck**

- Jerry Barberio – Village Manager
- Daniel Sarnoff – Assistant Village Manager

# Consultant Team



## HVEA Engineers

- Jared Anderson, P.E. – Project Manager
  - Project oversight, client point of contact
- Jack Gorton, P.E. – Federal Aid Compliance, Quality Control

## Firm Background

- Formed in Beacon, NY in 2001 by three former NYSDOT Region 8 Engineers
- Supported by design staff in Chestnut Ridge, NY
- Focus on infrastructure projects for municipalities
  - Specializing in Federally-Aided projects

# Agenda



- Meeting Overview
  - Format and Purpose of Meeting
  - How to Provide Comments
- Project Location, Background & Objectives
- Technical Highlights
  - Data Collection, Existing Conditions and Needs
  - Design Considerations & Challenges
  - Preliminary Layout
  - Bridge Types Considered
- Project Process & Schedule

# Meeting Overview



- Public Informational Meeting
- Federal Funding Requirement
- Provide a better understanding of the project site
- Get a sense of local and individual concerns

# How to Provide Comments



- Email comments directly:
  - Robert Wasp
    - [rwasp@TownofMamaroneckNY.org](mailto:rwasp@TownofMamaroneckNY.org)
  - Jared Anderson
    - [janderson@hveapc.com](mailto:janderson@hveapc.com)
- Please do so by Friday, July 24, 2020

# Continuous Public Involvement

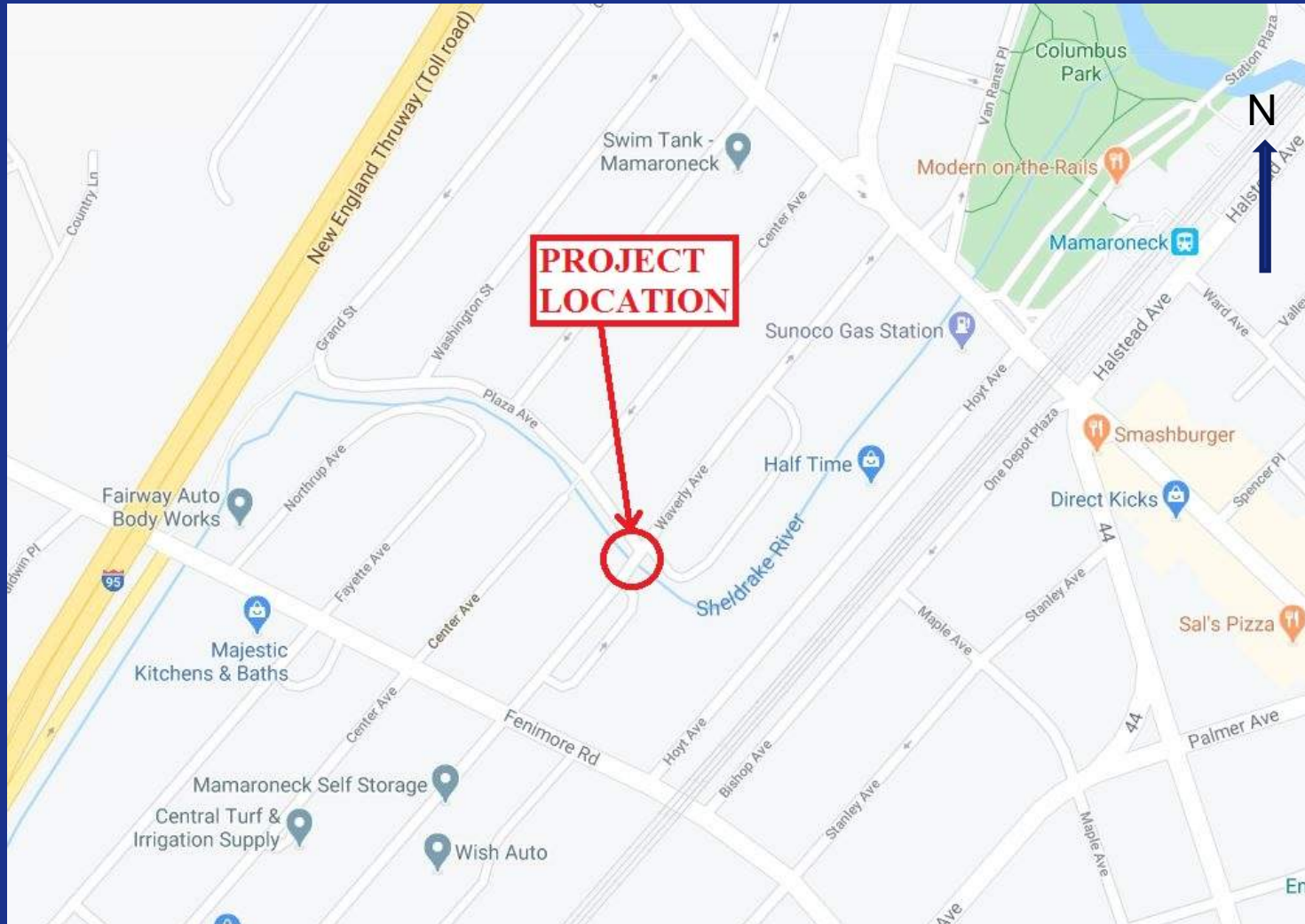


- Project Team is always available
- Meetings with individual property owners
- Monthly project meetings are held with the Team





# Project Location





# Existing Conditions



***Bridge Deck (Looking North)***

# Existing Conditions



**Southeast Bridge Fascia**

# Existing Conditions



**Deteriorated Concrete Encasement**  
**(photo from 2019 Inspection Report)**



# *Project Background*

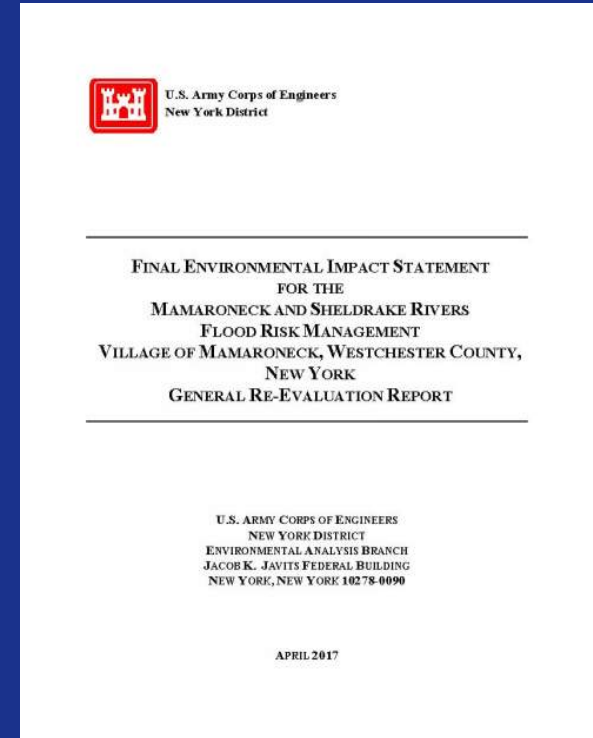


- Town applied for and received BRIDGE NY Funding in 2018
  - Awarded \$1.75 million for design and construction
- Bridge was constructed in 1931 (89 years old)
- NYS Overall Rating = 3 out of 7 (March 2019 Report)
  - Bridge and adjacent walls are deteriorating
  - Bridge asphalt surface is deteriorated, patched
  - Concrete-encased steel girders are exposed and becoming compromised

# Project Background



- US Army Corps of Engineers began re-evaluating the Mamaroneck and Sheldrake Rivers in 2007
  - Following an April 2007 nor'easter
- Corps completed a Final Environmental Impact Statement (FEIS) in April 2017
  - Waverly Avenue Bridge was recommended for replacement
- Recommendations include a wider, deeper Sheldrake River channel



# *Project Objectives*

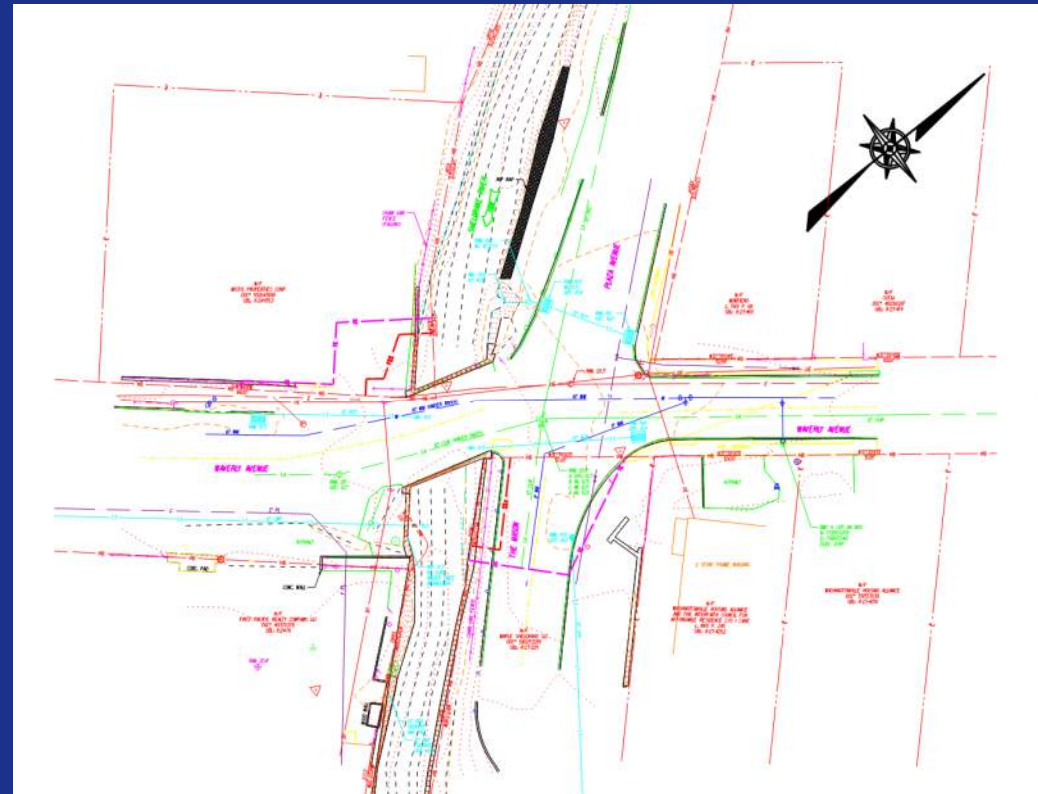


- Replace the structurally deficient bridge
- Improve safety conditions for vehicles and pedestrians
- Incorporate USACE's recommendations
- Replace aged utilities (water, sewer) that cross under the river
- Minimize disruption to the public
- Timely construction duration

# Work Performed to Date



- Topographic Survey
- Evaluation of Existing Conditions
- Town Provided Soil Boring Report
- Utility Inventory
- Endangered Species Review Package
- State Historic Preservation Office (SHPO) Review Package
- US Coast Guard Consultation
- Received Village Traffic Data
- Draft Design Report





# Traffic, Speed and Accident Data



## ■ Traffic Data

- 10,444 average vehicles per day (per 2016 NYSDOT counts)
  - 55% Northbound, 45% Southbound (taken south of bridge)
  - “Cut-thru” from Fenimore Road to Mamaroneck Avenue and Washington Street
- Stop signs on both sides of the bridge help regulate speed and overcome sight distance concerns
- Village provided “Traffic and Parking Study” for the Washingtonville neighborhood (12/2016, Provident Engineering)

## ■ Accident Data (at Waverly Avenue and Plaza Avenue)

- 2 accidents in 3-year study period (1/1/17 to 12/31/19)
- Neither directly attributed to the bridge

# *Project Design Standards and Specifications*



- NYSDOT
  - Bridge Manual
  - Highway Design Manual
  - Specifications for Construction and Materials
  
- PROWAG – Public Rights-of-Way Accessibility Guidelines
  - Subset of ADA (Americans with Disabilities Act) regulations

# Adherence to NEPA / Agency Coordination



- The following agencies have been / will be consulted for approvals under the National Environmental Policy Act:
  - Federal Highway Administration (FHWA)
    - Section 4(f) of the USDOT Act
    - Concurrence with ESA, EFH, 106
  - US Coast Guard
    - Section 10 of River and Harbors Act
  - US Department of Interior (Fish & Wildlife)
    - Section 7 of Endangered Species Act
  - NOAA (Essential Fish Habitat)
  - State Historic Preservation Office (SHPO)
    - Section 106 of National Historic Preservation Act
  - NYS Department of State
    - Provide notification of SEQR Type II in Coastal Zone
  - NYSDOT acts as an interface for municipalities – ensures compliance

# Design Considerations



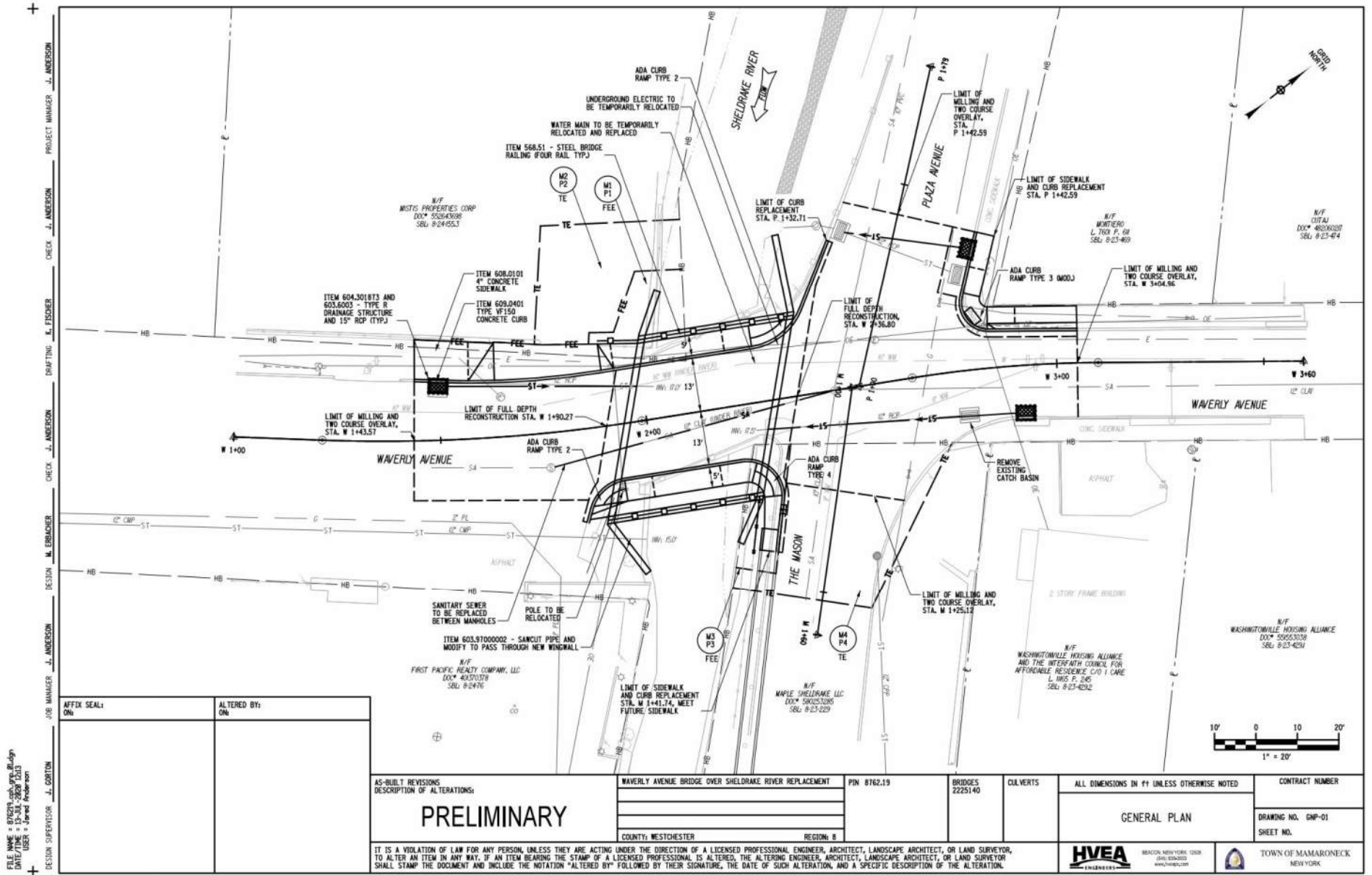
- SEQR Type II
  - No significant adverse environmental impact
  - Town resolved on May 6, 2020
  - Coordinated review is not required
- Subject to Army Corps of Engineers Review
  - Widen bridge opening from 25 feet to 33 feet
  - Provide deeper foundations per USACE
  - Corps concurs with our preliminary plan
- Improve Waverly Avenue alignment to provide:
  - A gentler curve over the bridge
  - Improved sight distance
- Provide ADA/PROWAG compliant sidewalks on both sides of Waverly Avenue
  - Connect to the recently completed River Walk at The Mason

# Project Challenges



- Tight project constraints
  - Closely abuts private properties
  - Underground and overhead utilities
- Detour during construction
  - Full closure of Waverly Avenue
  - Proposed detour is via Fenimore Road, Hoyt Avenue and Mamaroneck Avenue
  - Allows for longer workdays, safer operations
  - Allows project to be completed quicker than staged / traditional methods
- Ensure Sheldrake River is protected from erosion, construction debris and hazardous materials
- Need to acquire right-of-way on two private properties
  - Fee acquisitions – full purchase
  - Temporary easements – construction access

# Preliminary Layout



FILE NAME = E:\2020\gnp\gnp\_01.dgn  
 DATE/TIME = 15-JUL-2020 13:53  
 USER = Jared Anderson



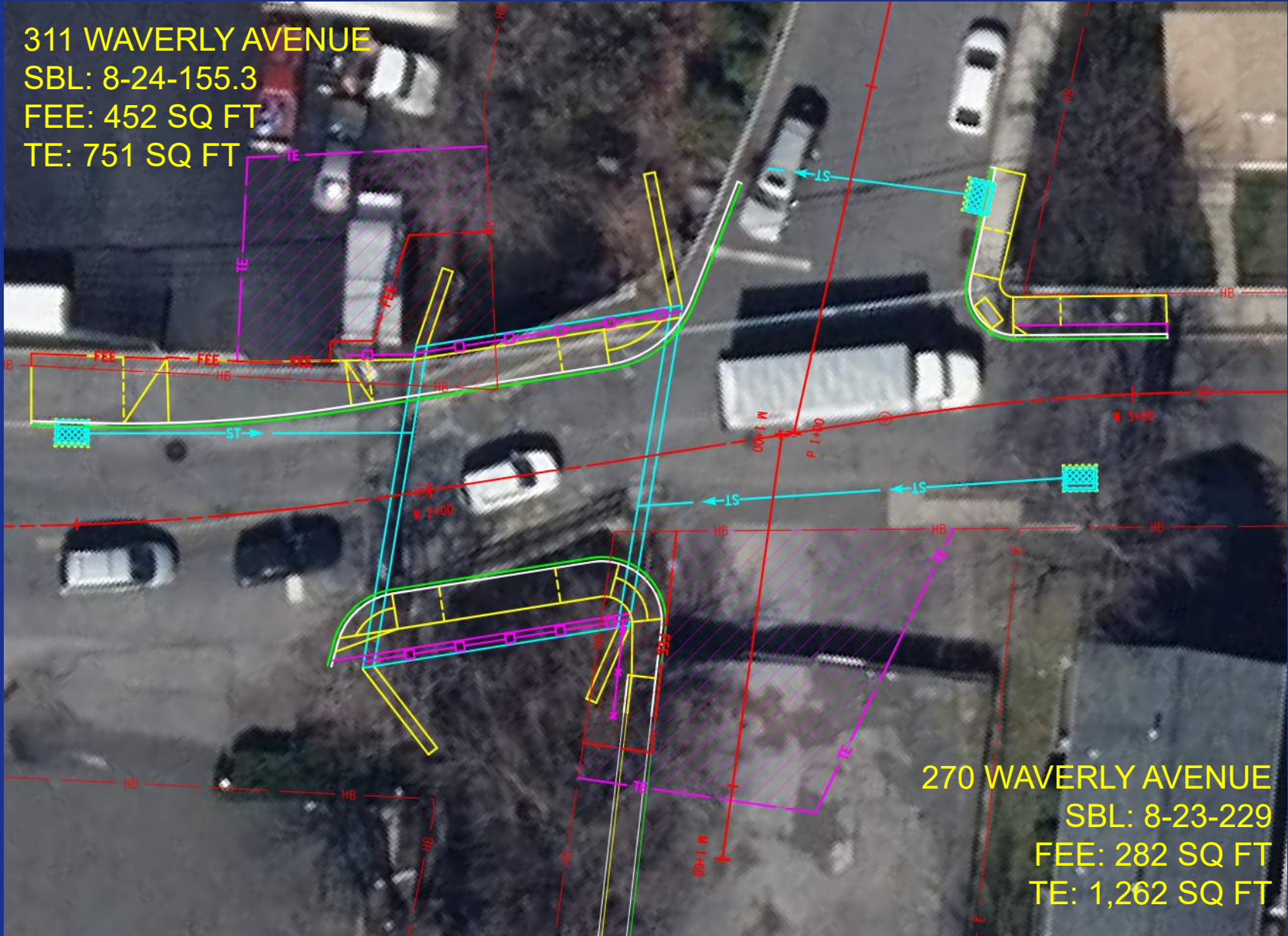
# Preliminary Layout

311 WAVERLY AVENUE

SBL: 8-24-155.3

FEE: 452 SQ FT

TE: 751 SQ FT



270 WAVERLY AVENUE

SBL: 8-23-229

FEE: 282 SQ FT

TE: 1,262 SQ FT



# Right-of-Way Acquisition



- Necessary for:
  - Construction access
  - Ownership of structural components
  - Future maintenance
  
- Both impacted property owners will be involved throughout the full process
  
- Each step will be explained in detail by our property acquisition consultant
  1. Appraisal
  2. Independent Appraisal Review
  3. Offer
  4. Closing

# Preferred Bridge Type



***Three-Sided Precast Concrete Structure***



# Other Bridge Types Considered



***Traditional Steel Girders***



***NEXT Beam  
(North East Extreme Tee)***

# Federal Aid / NYSDOT Process



- NYSDOT Oversight
  - Region 8 – Hudson Valley (Poughkeepsie)
  - Acts on FHWA's behalf
  
- Overview of Process
  - Prepare Design Report for Agency Review
    - Satisfy All Environmental and Historic Requirements

(We are here)

- Obtain Final Design Approval
- Complete Final Design Documents
- Advertise for Bidding
- Award to Responsible Low Bidder
- Town Provides Notice to Proceed with Construction

# Anticipated Permits



- US Army Corps of Engineers
  - Nationwide Permit #3 – Maintenance
  - Nationwide Permit #33 – Temporary Construction, Access & Dewatering
- NYS Department of Environmental Conservation
  - Section 401 Water Quality Certification
    - Achieved by complying with all conditions of NWP 3 and/or 33.
- Westchester County
  - Stream Permit
  - Road Work Permit – for detour route
- Village of Mamaroneck
  - Street Opening Permit
  - Prepare SWPPP (Stormwater Pollution Prevention Plan)

# *Estimate and Funding*



- Available Construction Funding - \$1,517,280
  - 95% Federal - \$1,298,916
  - 5% Local Responsibility - \$68,364
  - Town “Set-Aside” for Construction - \$150,000
    - Current Local Construction Share - \$218,364
  
- Current Construction Estimate - \$2,541,000
  - Additional \$1,023,720 local contribution is required
  
- Estimate currently includes a 20% contingency
- Estimate also includes \$250,000 funds for water, sewer and underground electric replacement, to be reimbursed to the Town

# Project Schedule - Design



- ✓ ■ Project Kickoff November 13, 2019
- ✓ ■ Submitted Endangered Species Package February 14, 2020
- ✓ ■ Submitted Draft Design Report, Preliminary Plans and SHPO Package April 14, 2020
- Final Design Report July 31, 2020
- Obtain Approval to Begin Final Design and Acquire Right-of-Way September 1, 2020
- Submit Draft Permit Applications & SWPPP for Review & Comments October 14, 2020
- Construction Documents for Final Review November 20, 2020
- Construction Documents Approved, Permits & SWPPP and ROW Acquisition Complete January 29, 2021



# *Project Schedule - Construction*



- Bid Advertisement February 8, 2021
- Project Award April 19, 2021
- Construction Complete By end of 2021\*

## *Since Last Meeting*



- Conference call with Con Ed was held on May 26, 2020
- Con Ed has 7 underground electric feeder lines on the Waverly Avenue Bridge
- HVEA and the Town will be working in close coordination with Con Ed for the relocation of these feeders
- Could have schedule implications

# Questions?

Visit [TownofMamaroneckNY.org](http://TownofMamaroneckNY.org) or [Imctv.org](http://Imctv.org)

Thank you from Town of Mamaroneck, The Village of Mamaroneck &  
HVEA Engineers



**HVEA**  
ENGINEERS