

# PIN 8761.65

## Hillside Avenue Bridge Replacement

Over the Mamaroneck River

Village of Mamaroneck, Town of Mamaroneck, Town of Rye  
Westchester County, NY

Public Informational Meeting

October 23, 2017 - 7:30 PM





# Agenda



- Introduction of Project Team
- Meeting Overview
  - Format and Purpose of Meeting
  - How to Provide Comments
- Project Location
- Project Background
- Technical Highlights
  - Data Collection, Existing Conditions and Needs
  - Design Considerations & Challenges
  - Preliminary Layout
- Project Process & Schedule
- Open Floor for General Questions
- Discussion with Individuals Regarding Specific Concerns



# **Tri-Municipal Team**



## **Village of Mamaroneck**

- Robert Yamuder – Village Manager
- Daniel Sarnoff – Assistant Village Manager
- Hernane DeAlmeida – Superintendent of Public Works & Village Engineer

## **Town of Mamaroneck**

- Stephen Altieri – Town Administrator
- Robert Wasp – Town Engineer

## **Town of Rye**

- Thomas Nardi – Town Councilman
- Debbie Reisner – Chief of Staff
- John Decrescenzo – Highway Superintendent



# **Consultant Team**



## **HVEA Engineers**

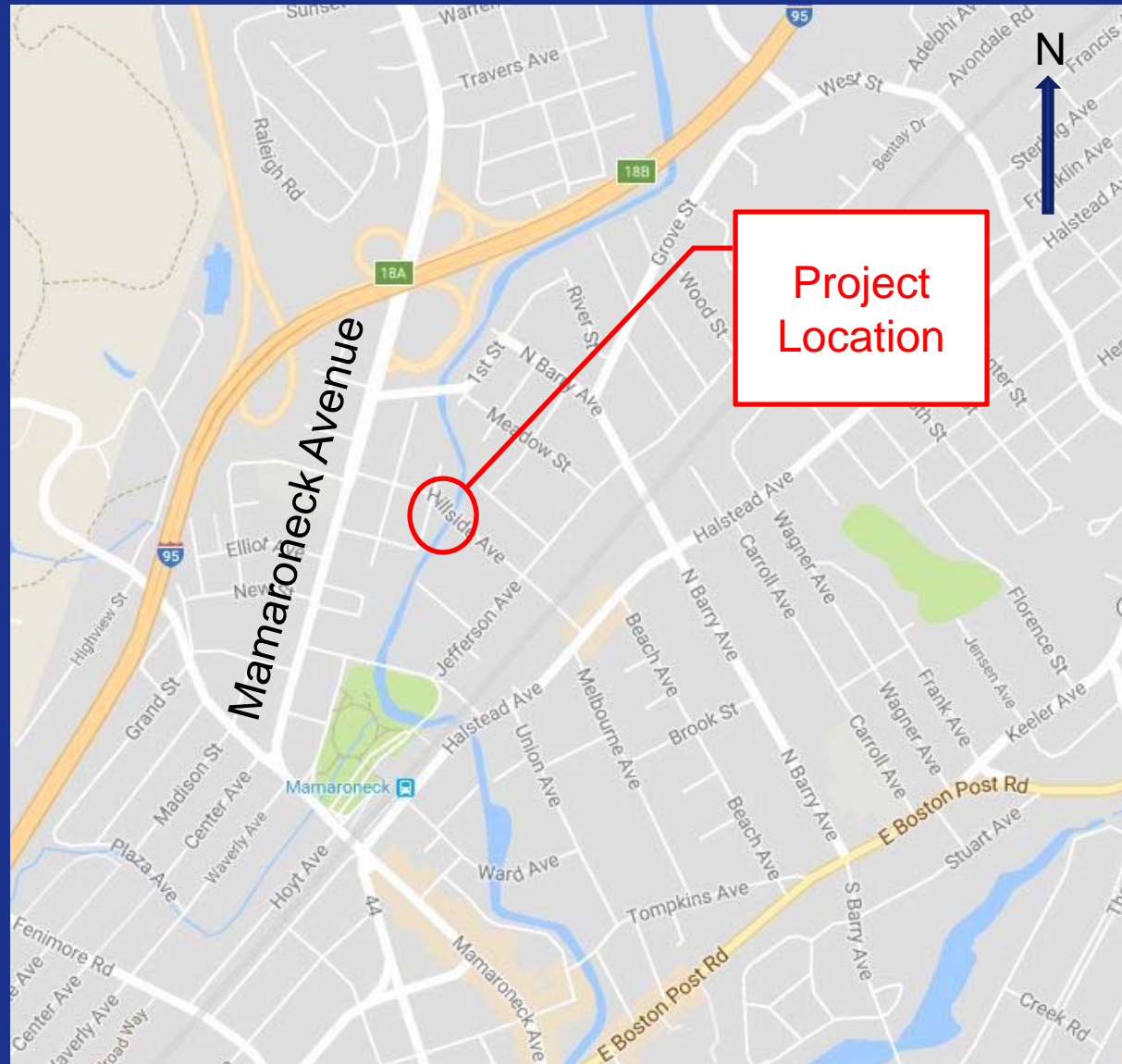
- Jack Gorton, P.E. – Project Manager
  - Overall project oversight, reviews, Federal compliance
- Jared Anderson, P.E. – Project Engineer
  - Day to day project activity, client contact, design oversight
- Matthew Erbacher, E.I.T. – Design Engineer
  - Design, report & plan preparation, estimation

## **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



# Project Location





# Meeting Overview



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



# How to Provide Comments



- Please Sign In
- Comment Sheet
- Comment Verbally
  - On the record at end of this presentation
- Provide individual comments after meeting
- Project Email:  
[hillsidebridge@vomny.org](mailto:hillsidebridge@vomny.org)

The logo for HVEA ENGINEERS, featuring the letters "HVEA" in a large, bold, sans-serif font, with "ENGINEERS" in a smaller font below it, all enclosed within a horizontal line.

**COMMENT SHEET**

**Project:** PIN 8761.65 – HILLSIDE AVENUE BRIDGE OVER MAMARONECK RIVER  
PUBLIC INFORMATIONAL MEETING – OCTOBER 23, 2017

**Name:** \_\_\_\_\_

**Address:** \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Contact Information:**

**Phone:** \_\_\_\_\_

**Email:** \_\_\_\_\_

**COMMENT**

\_\_\_\_\_  
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**Please either:**  
Place in box at Exit or

**Mail to:** Village of Mamaroneck  
123 Mamaroneck Avenue  
Mamaroneck, NY 10543  
Attn: Agostino A. Fusco, Village Clerk - Treasurer

**Email:** [hillsidebridge@vomny.org](mailto:hillsidebridge@vomny.org)

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560 Route 52, Suite 201, Beacon, New York 12508 Ph: (845) 838-3600 Fax: (845) 838-5311 [www.hveapc.com](http://www.hveapc.com)



# Continuous Public Involvement



- Project Team will always be available
- Meetings with individual property owners
- Progress materials delivered to the Team
- Monthly project meetings with the Team





# *Project Background*



- Bridge was constructed in 1936
- Bridge and approach channel walls are deteriorating
  - NYS Rating = 4.33 out of 7 (2015 Report)
- 2017 Inspection Report forthcoming
- Village applied for BRIDGE NY Funding in 2016
  - Awarded \$3.0 million to cover design and construction
  - 95% is reimbursable – cost to municipalities is \$150k
  - Split three ways – \$50,000 per municipality



# Project Background



- US Army Corps of Engineers began re-evaluating the Mamaroneck and Sheldrake Rivers in 2007
  - Following an April 2007 nor'easter which caused \$50 million of damage in the Village
- Corps completed a Final Environmental Impact Statement (FEIS) in April 2017
- Contains numerous recommendations, including a wider, deeper Mamaroneck River channel.
  - HVEA will be incorporating the relevant recommendations to the best extent practicable



U.S. Army Corps of Engineers  
New York District

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FINAL ENVIRONMENTAL IMPACT STATEMENT  
FOR THE  
MAMARONECK AND SHELDRAKE RIVERS  
FLOOD RISK MANAGEMENT  
VILLAGE OF MAMARONECK, WESTCHESTER COUNTY,  
NEW YORK  
GENERAL RE-EVALUATION REPORT

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U.S. ARMY CORPS OF ENGINEERS  
NEW YORK DISTRICT  
ENVIRONMENTAL ANALYSIS BRANCH  
JACOB K. JAVITS FEDERAL BUILDING  
NEW YORK, NEW YORK 10278-0090

APRIL 2017



# *Project Objectives*



- Replace the structurally deficient bridge
- Incorporate USACE's recommendations
- Respect aesthetic / historic character
- Minimize disruption to the public
- Maintain budget and schedule



# Existing Conditions



**North Fascia**



# Existing Conditions



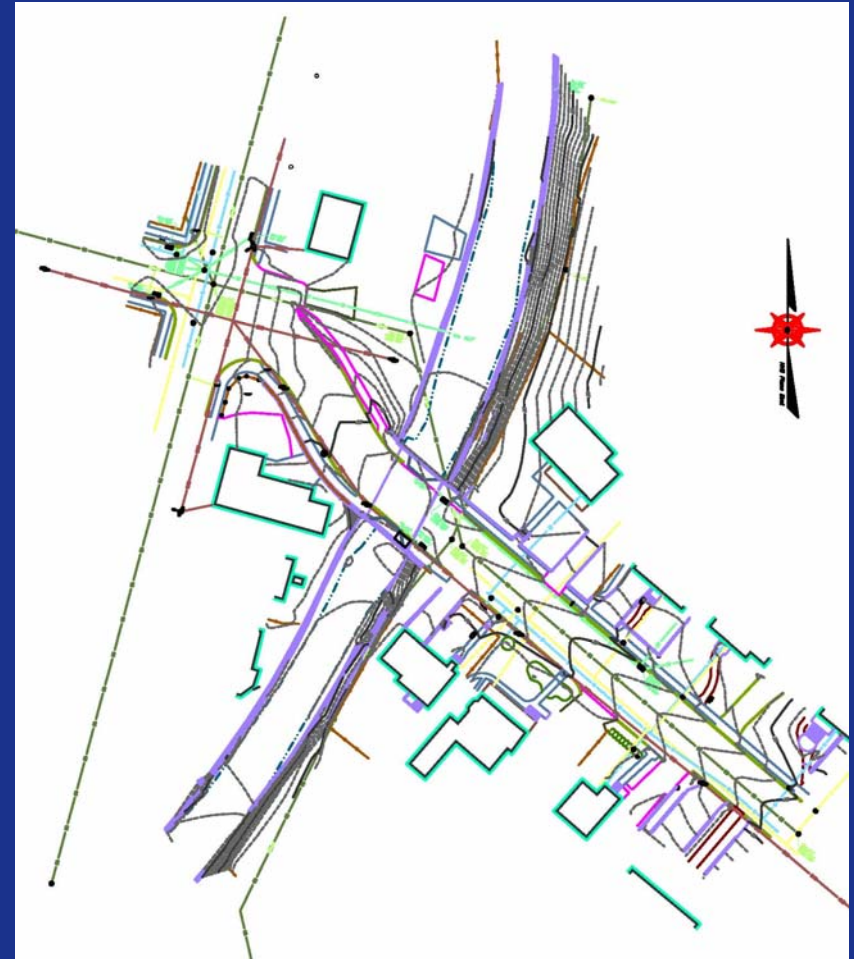
**North Sidewalk Deterioration**



# Data Collection

So far, HVEA has performed or obtained:

- Topographic Survey
- Property Research
- Evaluation of Existing Conditions
- Soil / Rock Borings
- Utility Inventory
- Threatened & Endangered Species Review
- State Historic Preservation Office (SHPO) Review
- US Coast Guard Consultation
- Traffic Counts
- Speed Data
- Accident Data





# *Traffic, Speed and Accident Data*



## ■ Traffic Counts and Speed Data

- Taken via ATR (tube counter)
- August 14 – 18, 2017 & September 18 – 25, 2017
- No appreciable increase after Labor Day
- AADT = 1,222 vpd
- 85<sup>th</sup> Percentile Speed = 27.8 mph

## ■ For comparison

- AADT of Mamaroneck Avenue = 19,630 vpd  
(Westchester County website, June 2012)

## ■ Accident Data

- 3 accidents in 3 year study period (4/1/14 to 3/31/17)
- None directly attributed to the bridge  
(NYSDOT ALIS request, via NYSDMV)



# *Project Design Standards and Specifications*



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



# *Design Considerations*



- SEQR Type II
  - No significant adverse environmental impact
- Maintain or increase “low chord” elevation
- Widen bridge opening to the extent practicable
  - Design goal is 40 feet
- Provide deeper foundations per USACE
  - Future deepening of Mamaroneck River
  - Between 1 ½ to 2 feet
- Roadway geometry to remain the same
- Re-use existing stone facing for new structure, where practical



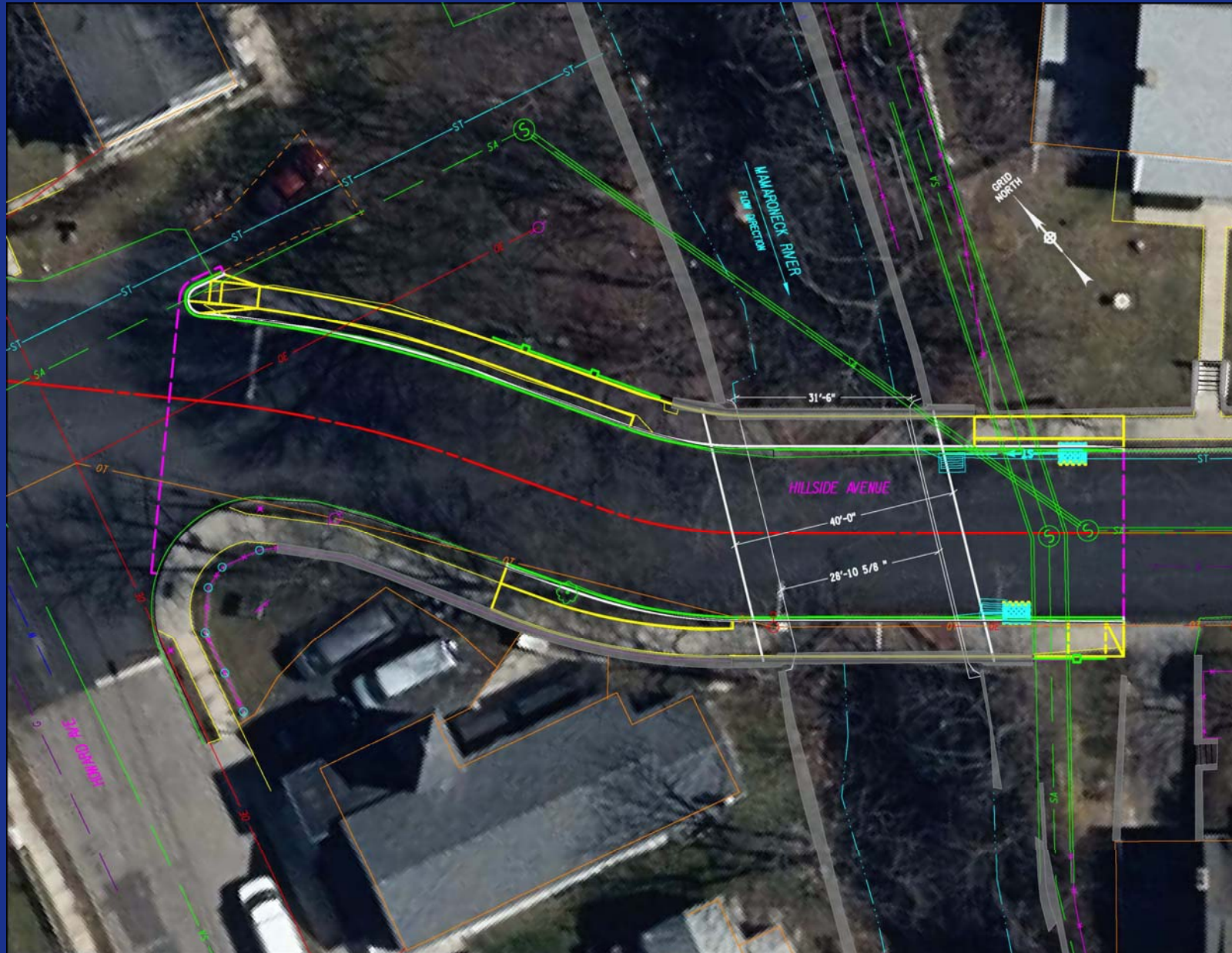
# *Project Challenges*



- Tight project constraints
  - Residential neighborhood
  - Underground and overhead utilities
- Protect and support sanitary sewers
  - County – 66” diameter
  - Village – 8” diameter
- Detour during construction
  - Full closure of Hillside Avenue
  - Allows for longer work days, safer operation
  - Allows project to be completed quicker than staged / traditional methods
- Ensure Mamaroneck River is protected from erosion, construction debris and hazardous materials



# Preliminary Layout





# Preliminary Bridge Types



**Con/Span**



# Preliminary Bridge Types



***SpanSpan***



# Preliminary Bridge Types



***NEXT Beam***



# *Federal Aid / NYSDOT Process*



- Federal Funding

- 95% Federal - \$2,850,000
  - 5% Local - \$150,000

- NYSDOT Oversight

- Acts on FHWA's behalf

- Overview of Process

- Prepare Design Report for Agency Review
  - Obtain Design Approval & Proceed to Final Design
  - Right of Way Clearance
  - Submit Final Plans, Specifications, Estimate for Approval
  - Approval to Advertise for Bidding
  - Approval to Award to Responsible Low Bidder
  - Notice to Proceed with Construction



# *Project Schedule*



- Project Start Date – June 15, 2017
- Submit Draft Design Report and Preliminary Plans – December 2017
- Obtain Approval to Begin Final Design – April 2018
- Final Design Submission for Village Review – July 2018
- Plans, Specs & Estimate (PS&E) for State Review – August 2018



# *Project Schedule*



- Project Bidding by October 15, 2018
- Project Award must occur by December 15, 2018
  - Condition of BRIDGE NY Funding
  - 18 months from Start Date of June 15, 2017
- Construction to occur in 2019



# Questions & Concerns?

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



[hillsidebridge@vomny.org](mailto:hillsidebridge@vomny.org)