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# Industrial/ Washingtonville Area Drainage System Study

Board of Trustees Legislative Meeting  
Village of Mamaroneck  
Monday, July 28, 2025

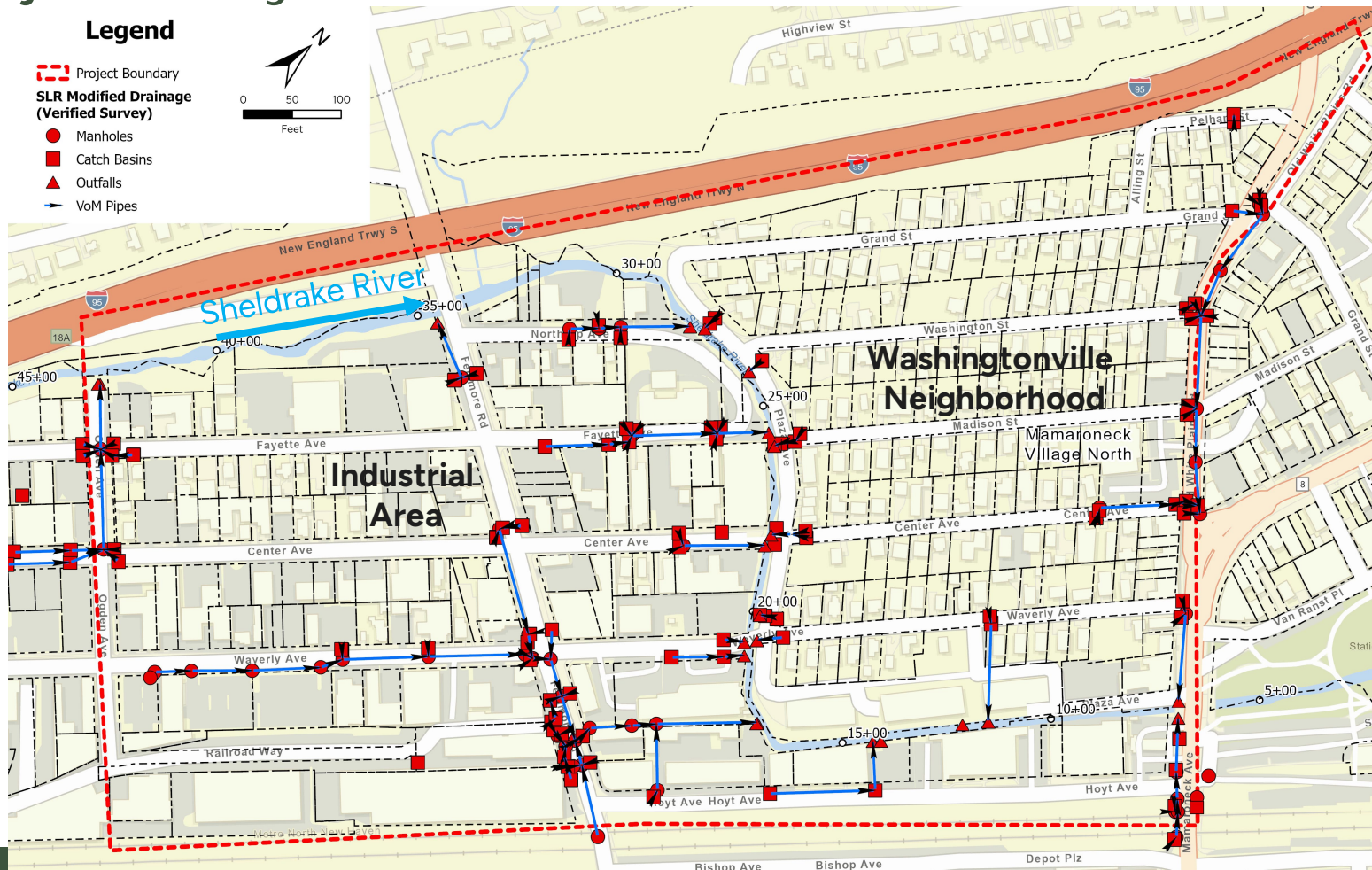
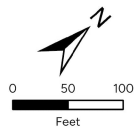


# Project Study Area



## Legend

- Project Boundary
- SLR Modified Drainage (Verified Survey)
- Manholes
- Catch Basins
- Outfalls
- VoM Pipes





# Existing Conditions & Considerations

Washington Street – October 2021 nor'easter



Madison Street – September 2023 remnants of TS Ophelia





# Plans for Improvements

Proposed Center Avenue bridge removal



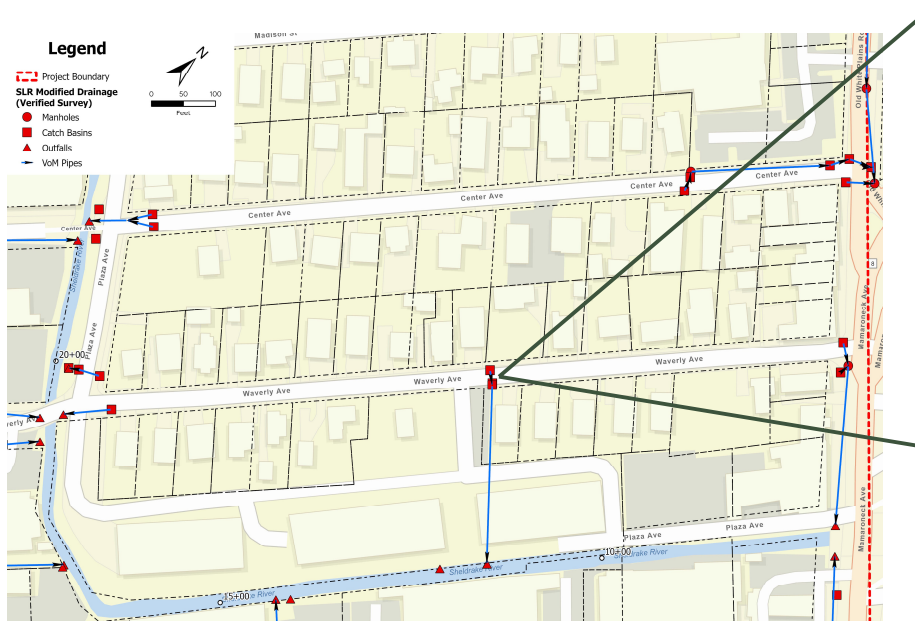
Initiatives underway to address larger flooding issues





# Inlet Structure and Pipe Replacements

- Replacement of stormwater drainage structures to meet design standards
- Recommendation #1: Waverly Avenue system replacement (2 catch basins, 22 L.F. of pipe, roadway restoration)





# Recommendation #1 Estimated Project Costs

ITEM	COST
Mobilization/Staking	\$80,000
Remove and Install New Standard Catch Basin with Frame and Grate	\$16,000
18" RCP and trenching	\$3,190
Full Depth Pavement Restoration	\$287,500
Restoration to The Mason Apartments driveway	\$960
Stone Bedding and Backfill	\$1,875
Traffic Control	\$80,000
Utility Conflict Allowance	\$250,000
Minor Items and Incidental Work	\$115,000
Subtotal	\$834,525
30% Contingency	\$250,358
<b>Estimated Total (Rounded)</b>	<b>\$1,100,000</b>

ITEM	COST
Engineering Design	<b>\$130,000</b>



# Installation of New Drainage Systems

- New drainage systems along roads to reduce roadway flooding
- Recommendation #2: Washington Street conceptual drainage system (4 catch basins, 2 manholes, 900 L.F. of pipe, roadway restoration)





# Recommendation #2 Estimated Project Costs

ITEM	COST
Mobilization/Staking	\$140,000
18" RCP and trenching	\$6,525
24" RCP and trenching	\$153,000
Full Depth Pavement Restoration	\$400,000
Stone Bedding and Backfill	\$90,000
Install New Standard Catch Basin with Frame and Grate	\$24,000
72" Manhole	\$12,000
Traffic Control	\$135,000
Utility Conflict Allowance	\$250,000
Minor Items and Incidental Work	\$210,000
Subtotal	\$1,420,525
30% Contingency	\$426,158
<b>Estimated Total (Rounded)</b>	<b>\$1,900,000</b>

ITEM	COST
Engineering Design	<b>\$215,000</b>



# Roadway & Gutter Improvements

- Repaving or reconstructing the roads to enhance drainage following NYSDOT design standards for roadways, curbs and gutters for residential areas
- Recommendation #3: Grand Street, Madison Street, and Center Avenue full depth roadway restoration





# Recommendation #3 Estimated Project Costs

ITEM	COST
Mobilization/Staking	\$200,000
Traffic Control	\$195,000
Full Depth Pavement Restoration (Grand Street)	\$562,500
Full Depth Pavement Restoration (Madison Street)	\$400,000
Full Depth Pavement Restoration (Center Avenue)	\$350,000
Minor Items and Incidental Work	\$300,000
Subtotal	\$2,007,500
30% Contingency	\$602,250
<b>Estimated Total (Rounded)</b>	<b>\$2,700,000</b>

ITEM	COST
Engineering Design	<b>\$305,000</b>



# Washingtonville Improvements Summary of Estimated Costs

PROJECT	CONSTRUCTION	DESIGN
Recommendation #1	\$1.1M	\$130,000
Recommendation #2	\$1.9M	\$215,000
Recommendation #3	\$2.7M	\$305,00
<b>Total</b>	<b>\$5.7M</b>	<b>\$650,000</b>



Thank You!