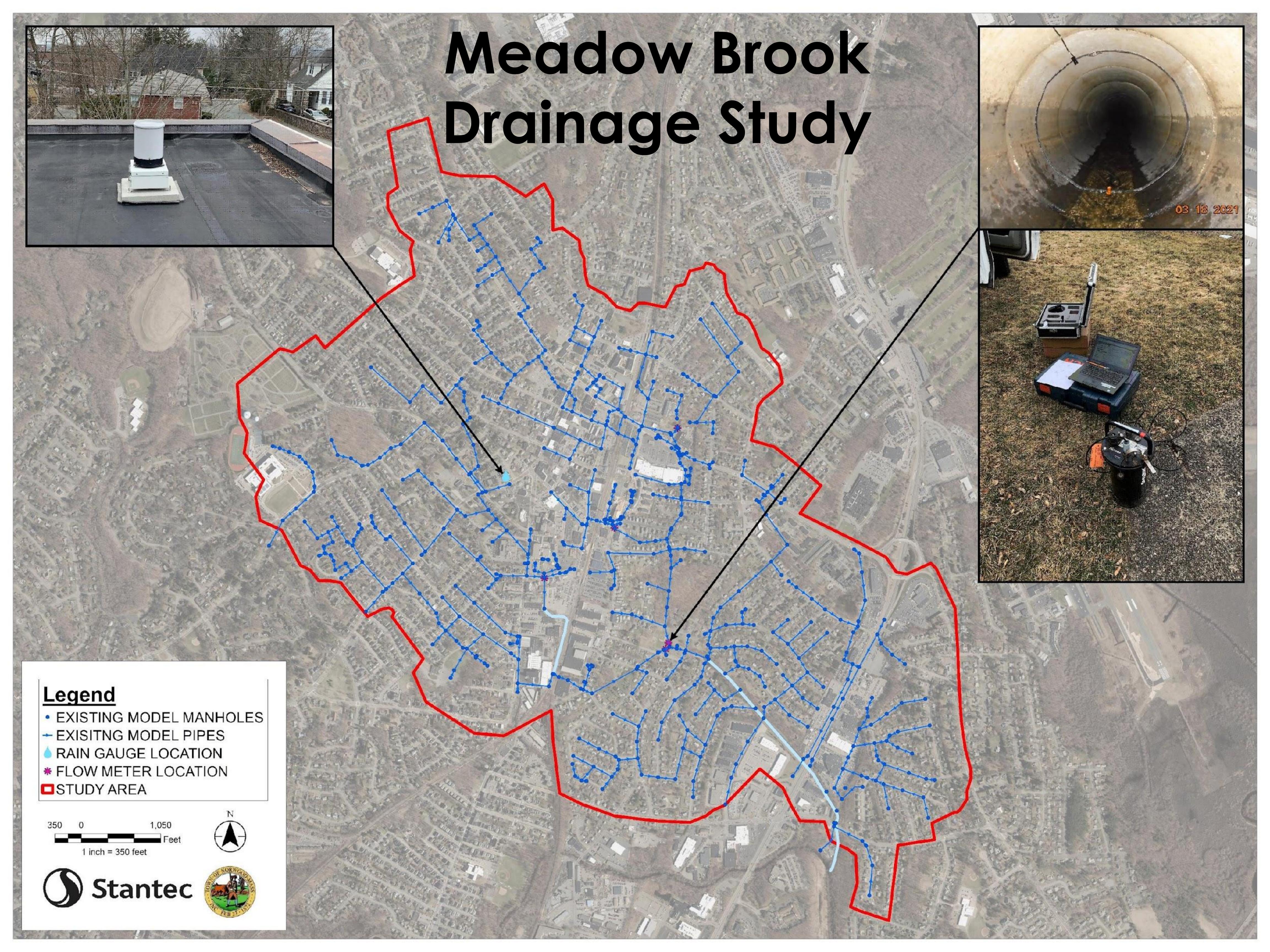
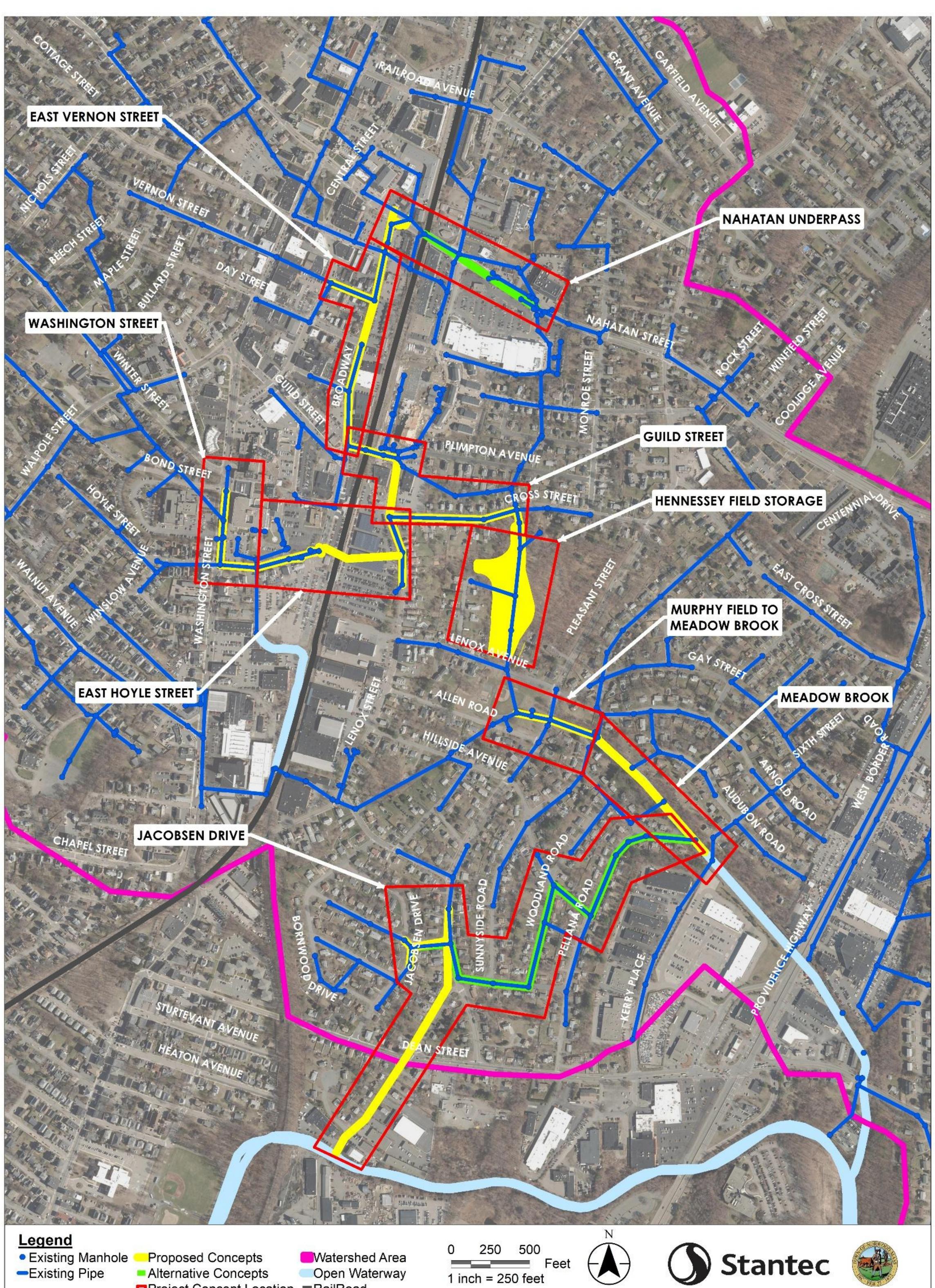


## FLOODING IN THE MEADOW BROOK WATERSHED AREA CROSS STREET



## POLICE/FIRE STATION





Alternative Concepts Project Concept Location RailRoad

Open Waterway

# Meadow Brook Drainage Study

<u>Phase</u>	<u>Project Concept</u>	<u>Planning-Level Opinion of</u> <u>Probable Capital Cost</u>			
1	Hennessey Basin	\$	8,086,000	\$	9,495,000
	Meadow Brook Restoration	\$	1,409,000		
2	Murphy to Meadow Brook	\$	2,397,000	\$	2,397,000
3	Guild Street	\$	5,558,000	\$	5,558,000
4A	East Vernon Street	\$	2,804,000	\$	4,635,000
	Nahatan Underpass	\$	1,831,000		
4B	East Hoyle Street	\$	8,415,000	\$	10,406,000
	Washington Street	\$	1,991,000		
4C	Jacobsen Drive	\$	4,896,000	\$	4,896,000
		\$	37,387,000*	\$	37,387,000*

\*2021 Dollars; Concept-Level Planning Costs.

# Meadow Brook Drainage Study - Proposed Concepts

New Flow Split Vault

New 24" Pipe

Drainage Improvements. Potential Evaliation of Regrating Crown.

Broadway to Railroad Crossing Plug

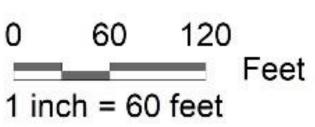
Legend Existing Manhole Existing Pipe

Proposed Structure Proposed Work

Potential Evaliation of Regrating Crown.















4" Pipe to

New 78" Pipe

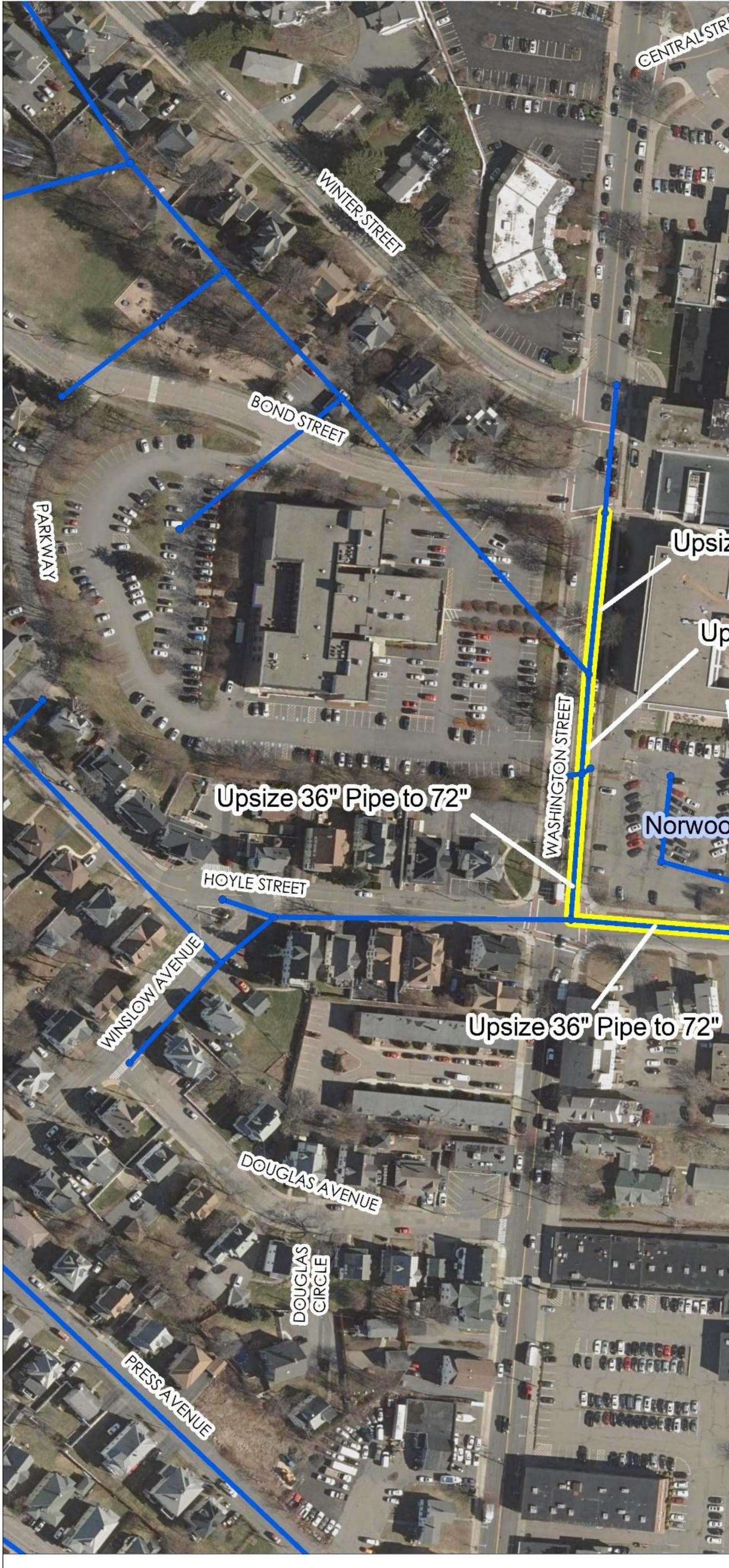
Upsize 15" Pipe to 78"

Upsize 15" Pipe to 78"

Legend Existing Manhole Proposed Work Existing Pipe

1 inch = 60 feet





Legend Existing Manhole Existing Pipe

Proposed Work Open Waterway



Upsize 12" Pipe to 36"

WINTER STREET

Upsize 36" Pipe to 72"

Norwood Hospital

EAST HOYLE STREL

120 Feet 1 inch = 60 feet





and the second





# Meadow Brook Drainage Study - Proposed Concepts

New Large Catch Basins and Inlets

Norwood Hospital

**Evaluate Raising** Sidewalk to Manage Surface Flows

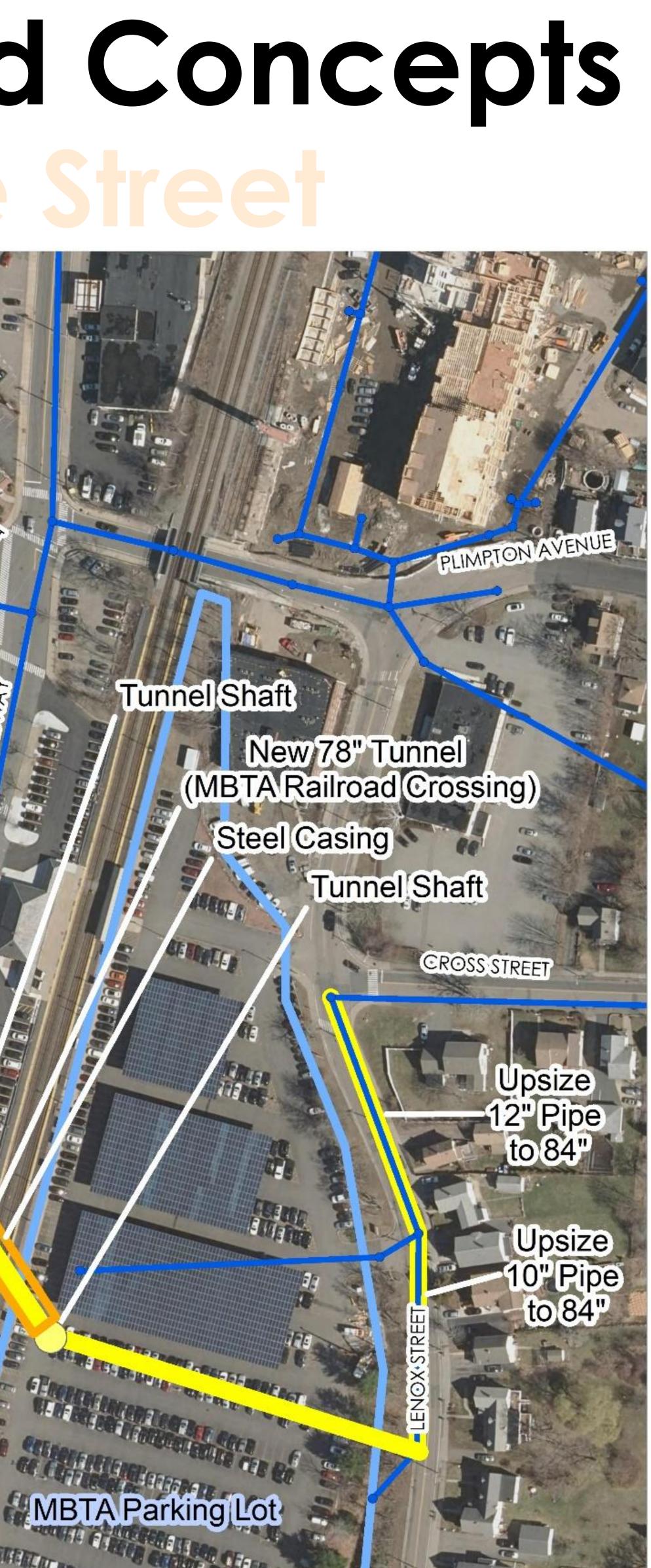
Jpsize 12" Pipe to 78"

Legend Existing Manhole Existing Pipe

Open Waterway

Proposed Work MBTA Parking Lot

60 1 inch = 60 feet



AND STREE CHILD

120 Feet









# Meadow Brook Drainage Study - Proposed Concepts

### Evaluate Improving Drainage at Guild Street Underpass

Upszie 18" Pipe to 72"

Upszie 30" Pipe to 72"

Upszie 30" Pipe to 72"

IER STREET

EASTING

SAN ANNON

New 72" Pipe

ENGLISHE FREMEWORK BURGER BURGER

THE REAL

STILL STOR

Legend Existing Manhole Proposed Work Existing Pipe

Teer.

Evaluate Modifying Inlet Structures to Reduce Clogging Potential

Evaluate Improving Drainage on Plimpton Street

Guild Street at Lenox Street Plug

Evaluate Drainage Improvements at Low **Spots on Private Properties** 

Evaluate Routing Drainage from Parking Lot to Cross Street

**CROSS STREET** 

Upsize 12" Pipe to 84"

Upsize 12" Pipe to 84"

Evaluate Surface Drainage into Henessey Field

Upsize 54" Pipe to 84"

120 1 inch = 60 feet











Construct new trail with recreation features and landscaping.

Legend Model Nodes - Existing Model Conduits - Existing

Hennessey Field Storage Contours Hennessey Field Trail

1 inch = 60 feet

Construct headwall with outlet and daylight existing pipes through Hennessey Field to convey small storms.

> Construct outlet vault that screens debris and limits exit flow rate to an estimated 150 MGD.

Build berm and regrade Hennessey Fieldasanew stormwater detention basin.

120 Feet

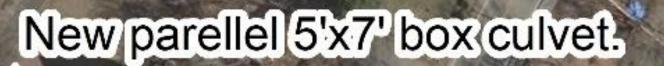








# Meadow Brook Drainage Study - Proposed Concepts



New parellel 5'x7' box culvet.

ALLEN ROAD

### Daylight Meadow Brook via precast 12'x 5' concrete channel.

Legend Model Nodes - Existing Model Conduits - Existing

Proposed Work Open Waterway



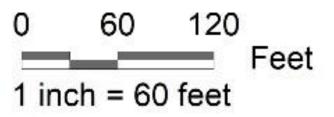


### Dredge and widden approx. 1,000 feet of Meadow Brook.

Meadow Brook





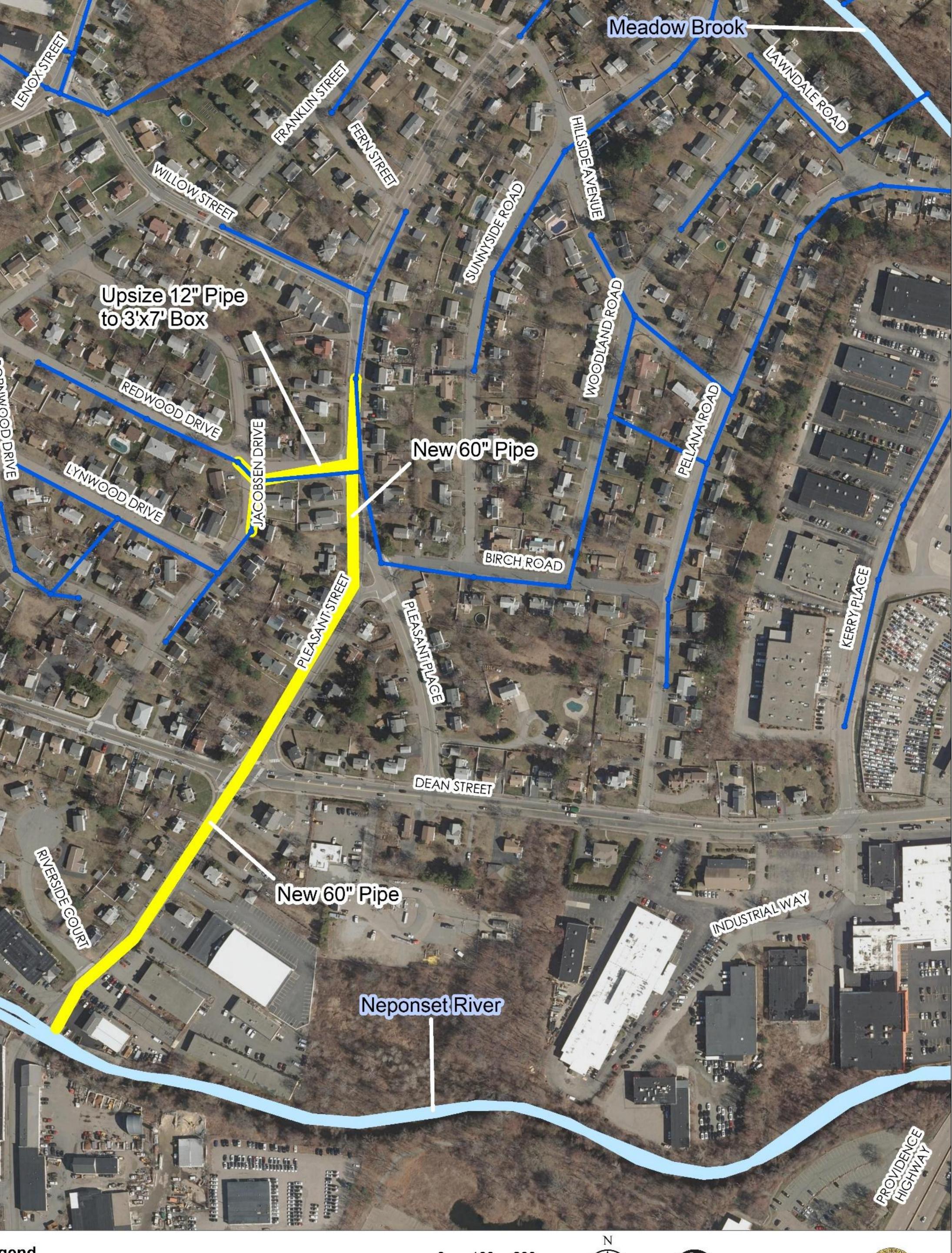












Legend Existing Manhole Proposed Work Existing Pipe

Open Waterway

0 100 200 Feet 1 inch = 100 feet





Stantec



# Hennessey Basin – Proposed Stormwater Storage Concept EXISTING PROPOSED (LOOKING NORTH) (LOOKING NORTH)

# Hennessey Basin – Proposed Stormwater Storage Concept

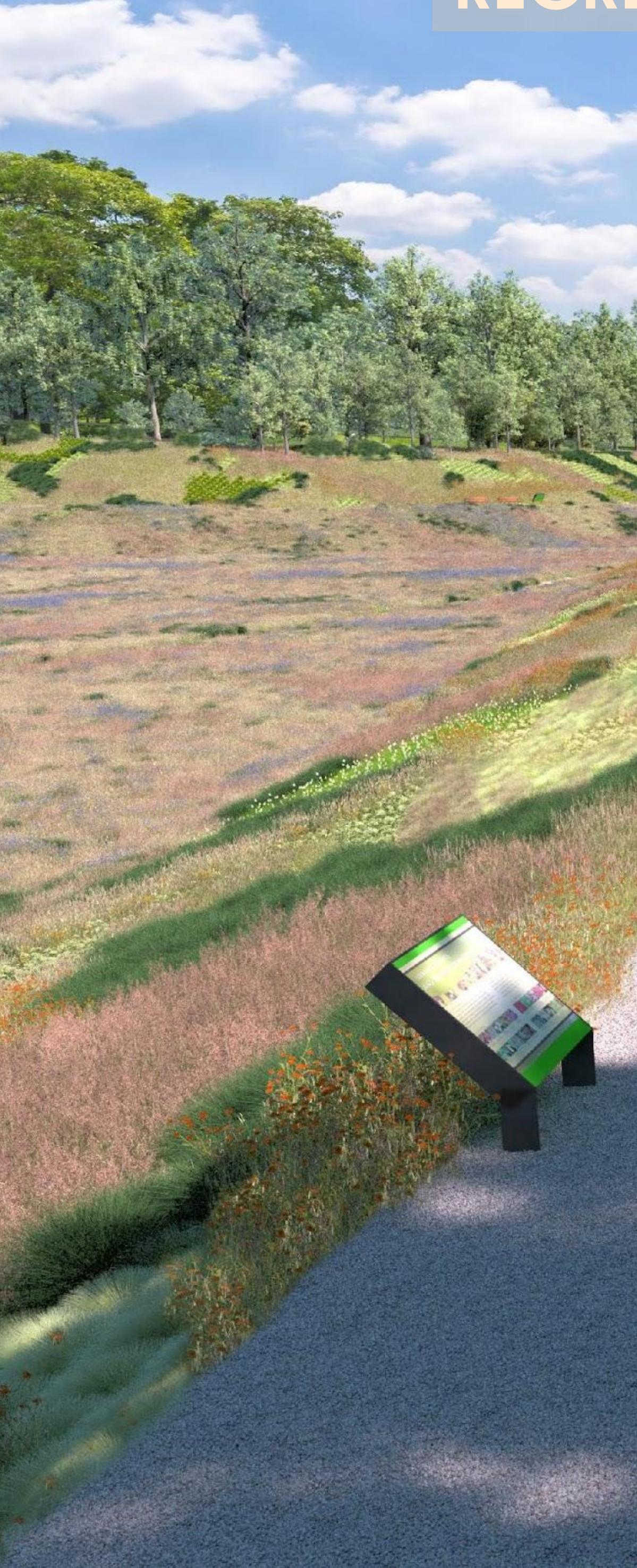






## 

# Hennessey Basin – Proposed Stormwater Storage Concept **RECREATIONAL TRAIL AND POLLINATOR HABITAT**











# Hennessey Basin – Proposed Stormwater Storage Concept BRIDGE AT CROSS STREET ENTRANCE











# Proposed Stormwater Storage Concept

TI DINA

Stormwater Basin (stormwater storage and infiltration)

### **Connection to Storm Drain** System to Meadow Brook













## Cross St Entrance

Hennessey Basin -

Storm Drain Outfall to Daylighted Stormwater Channel









### Pollinator Habitat

Spillway & Landscaping

## Lenox Ave Entrance

LenoxAv





