

REBUILD BY DESIGN MEADOWLANDS

CITIZEN ADVISORY GROUP (CAG) MEETING #7

**ALTERNATIVE 2: STORMWATER DRAINAGE
IMPROVEMENTS**

January 31, 2017



PREPARED BY **AECOM**

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1.0 List of Acronyms

List of Acronyms

BCR	Benefit/Cost Ratio
CAG	Citizen Advisory Group
CDBG-DR	Community Development Block Grant – Disaster Recovery
EFH	Essential Fish Habitat
EIS	Environmental Impact Statement
HUD	Department of Housing and Urban Development
NEPA	National Environmental Policy Act
NJDEP	New Jersey Department of Environmental Protection
RBD	Rebuild by Design
RBDM	Rebuild by Design Meadowlands

2.0 Agenda

Alternative 2: Stormwater Drainage Improvements

6-8 PM

January 31, 2017

**Learning Center Room , 4th Floor
One Bergen County Plaza
Hackensack, NJ 07601**

Project Website

www.rbd-meadowlands.nj.gov

Project email

rbd-meadowlands@dep.nj.gov

Welcome

Presentation

Opening Remarks (10 Minutes)

Welcoming (Linda Fisher, NJDEP)

Project Status Update and Alternative 2 Development (Chris Benosky, AECOM)

Alternative 2: Stormwater Drainage Improvements (10 Minutes)

Simplified Modeling Update (Chris Benosky, AECOM)

Frequently Flooded Areas (Chris Benosky, AECOM)

Stormwater Drainage Improvement Areas (40 Minutes)

Drainage Improvement concepts (Garrett Avery & Lulu Loquidis, AECOM)

Next Steps & Q&A/Closure (20 Minutes)

Next Steps (Chris Benosky, AECOM)

Question and Answers

3.0 Power Point Presentation

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CITIZEN ADVISORY GROUP (CAG) MEETING #7 STORMWATER DRAINAGE IMPROVEMENTS

WELCOMING

Linda Fisher, NJDEP



Welcome & Opening Remarks



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AGENDA**Chris Benosky, AECOM**

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- Project Status Update and Schedule
- Alternative 2: Stormwater Drainage Improvements
 - Alternative 2 Development
 - Modeling Update
 - Frequently Flooded Areas
 - Stormwater Drainage Improvement Options
 - Collection and Conveyance



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AECOM**PROJECT STATUS UPDATE****Chris Benosky, AECOM**

4

- Developed working draft Concept Screening Criteria
- Completed and published to Project Website:
 - Meeting Minutes from CAG Meeting #6
 - December 2016 Newsletter
- Developing Stormwater Drainage Options



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ALTERNATIVE 2

PREVIOUS CAG INPUT AND DISCUSSION

Chris Benosky, AECOM

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- CAG Meeting #2A/B**
Areas Prone to Flooding within the Project Area
- CAG Meeting #3**
Concept Screening Criteria Review
- CAG Meeting #4**
Concept Development and Ranking for Alternative 2
- CAG Meeting #5**
Review of Drainage Basin Opportunity Areas



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ALTERNATIVE 2: PROCESS

DEVELOPMENT OF ALTERNATIVE 2 CONCEPTS

Chris Benosky, AECOM

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- Concept development process utilized the following to arrive at the 7 concepts:



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ALTERNATIVE 2:

STORMWATER DRAINAGE IMPROVEMENTS

CHRISTOPHER BENOSKY, AECOM



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MODELING UPDATE

SIMPLIFIED MODEL PROGRESS

8

Conducting modeling to better understand how each of the initial Alternative 2 concepts will function:

- a. Quantity of stormwater
- b. Movement of stormwater
- c. Control of stormwater



Currently, continuing to conduct stormwater system surveys to support more detailed drainage models of each of the concepts



Future use of modeling results:

- a. Assess each concept's hydraulic feasibility (to control and move stormwater volumes)
- b. Preliminarily determine the benefits each concept would provide relative to cost



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MODELING UPDATE SIMPLIFIED MODEL PROGRESS

9

- Completed development and application of simplified models for:
 - East and West Riser
 - Main Street
 - Carol Place
 - East Carlstadt
 - Losen Slote
 - DePeyster Creek
 - Peach Island Creek



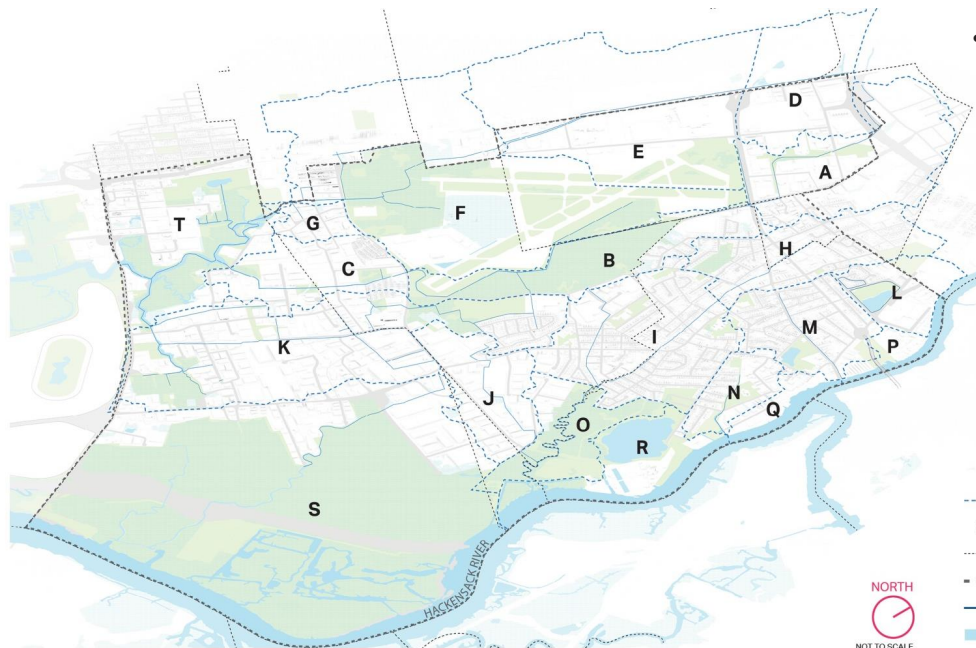
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STORMWATER SUBBASINS

10



- THERE ARE 20 SUBBASIN AREAS WITHIN THE PROJECT AREA

A: UPPER EAST RISER
 B: MIDDLE EAST RISER
 C: LOWER EAST RISER
 D: UPPER WEST RISER 1
 E: UPPER WEST RISER 2
 F: MIDDLE WEST RISER
 G: LOWER WEST RISER
 H: UPPER LOSEN SLOTE 1
 I: UPPER LOSEN SLOTE 2
 J: MOONACHIE
 K: CARLSTADT
 L: INDIAN LAKE
 M: MAIN STREET
 N: DEPEYSTER CREEK
 O: LOWER LOSEN SLOTE
 P: UPPER HACKENSACK
 Q: MIDDLE HACKENSACK 1
 R: MIDDLE HACKENSACK 2
 S: LOWER HACKENSACK
 T: BERRY'S CREEK



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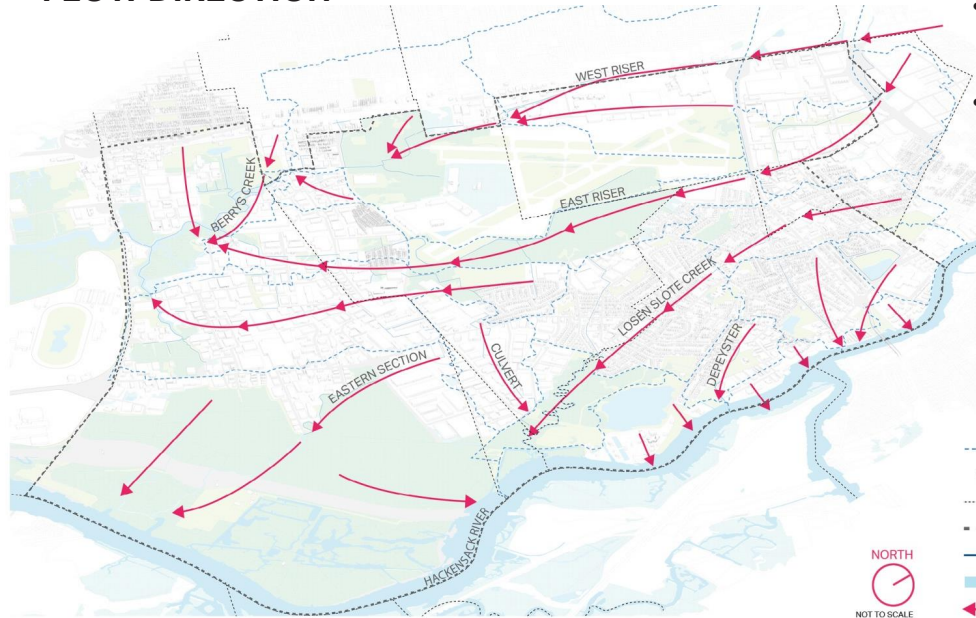
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STORMWATER SUBBASINS

FLOW DIRECTION

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- SUBBASINS BOUNDARIES IDENTIFY HOW WATER IS FLOWING ON SITE TOWARDS A COMMON POINT
- THE HYDROLOGIC MODELING IS BASED ON THESE SUBBASIN AREAS

- SUBBASIN BOUNDARY
- M SUBBASIN NAME
- MUNICIPAL BOUNDARY
- - - PROJECT AREA
- EXISTING DITCH/CREEK
- WATER
- PRIMARY CONVEYANCE DIRECTION



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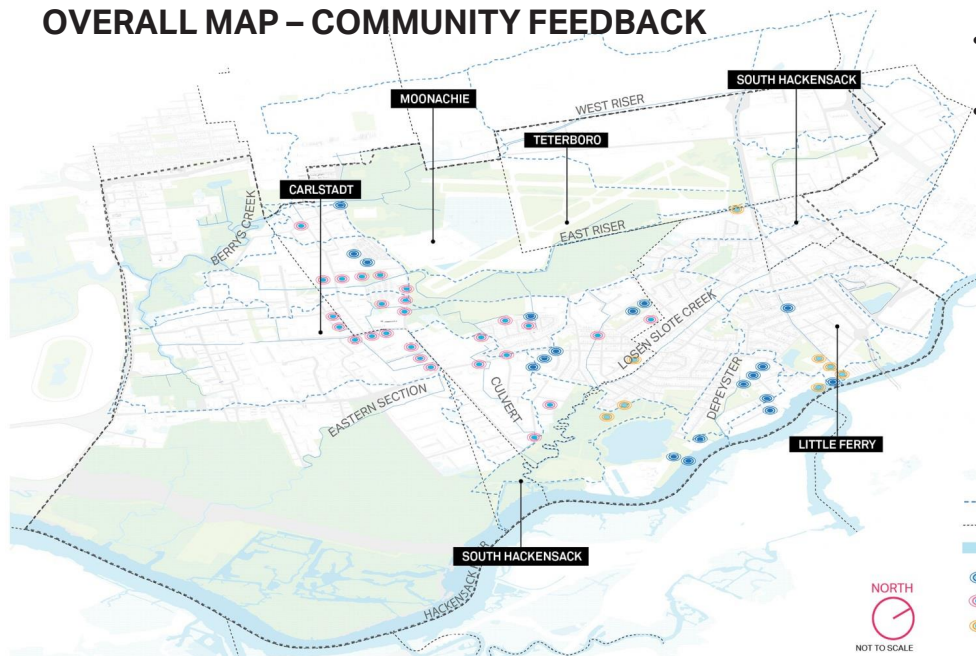
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FREQUENTLY FLOODED AREAS

OVERALL MAP – COMMUNITY FEEDBACK

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- INTEGRATING COMMUNITY FEEDBACK INTO MODELING
- FOCUSING OUR ATTENTION ON FREQUENTLY FLOODED AREAS DURING THE DEVELOPMENT OF STORMWATER DRAINAGE IMPROVEMENT CONCEPTS

- SUBBASIN BOUNDARY
- MUNICIPAL BOUNDARY
- WATER
- FLOODS IN REGULAR RAINFALL
- FLOODS IN HEAVY RAINFALL
- FLOODS IN MAJOR STORM EVENT



*DATA COLLECTED FROM CAG #2



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FREQUENTLY FLOODED AREAS

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LITTLE FERRY

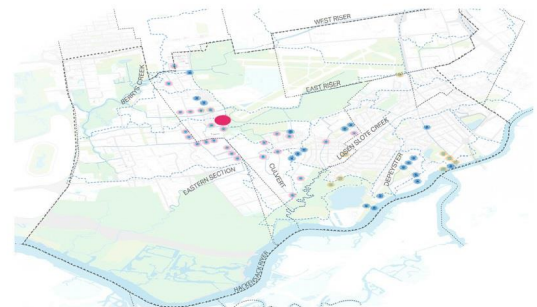


Image Source: Hackensack Meadowlands Floodplain Management Plan (Oct 24, 2005)

BRANDT STREET

Flood Event Date:
OCTOBER 14, 2005

Estimated Flood Elevation:
4.5 NAVD88



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FREQUENTLY FLOODED AREAS

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MOONACHIE

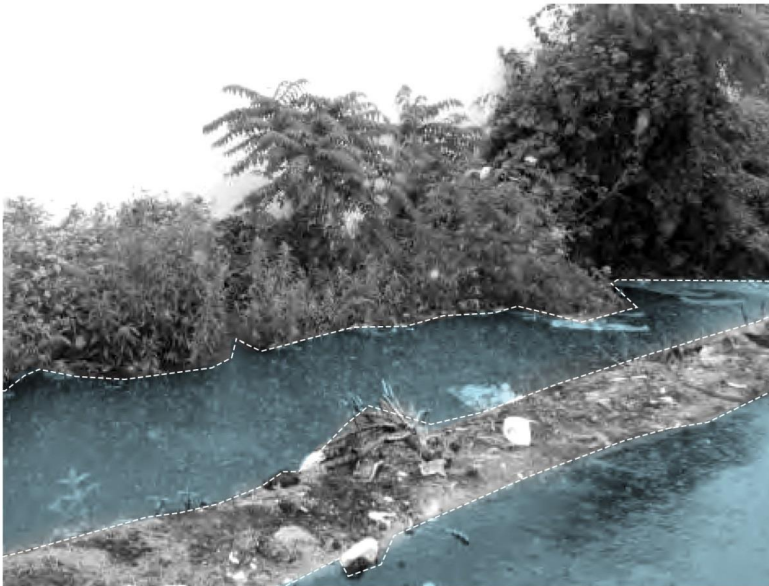
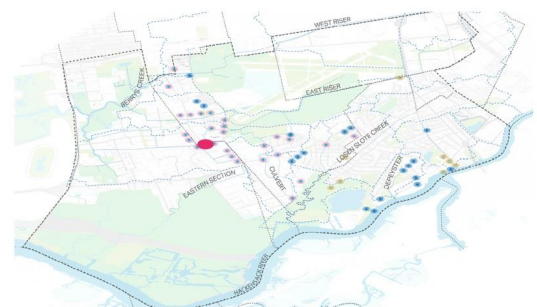


Image Source: Hackensack Meadowlands Floodplain Management Plan (Oct 24, 2005)

110 ASIA PLACE

Flood Event Date:
JUNE 10, 2005

Estimated Flood Elevation:
3.75 NAVD88



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FREQUENTLY FLOODED AREAS

MOONACHIE

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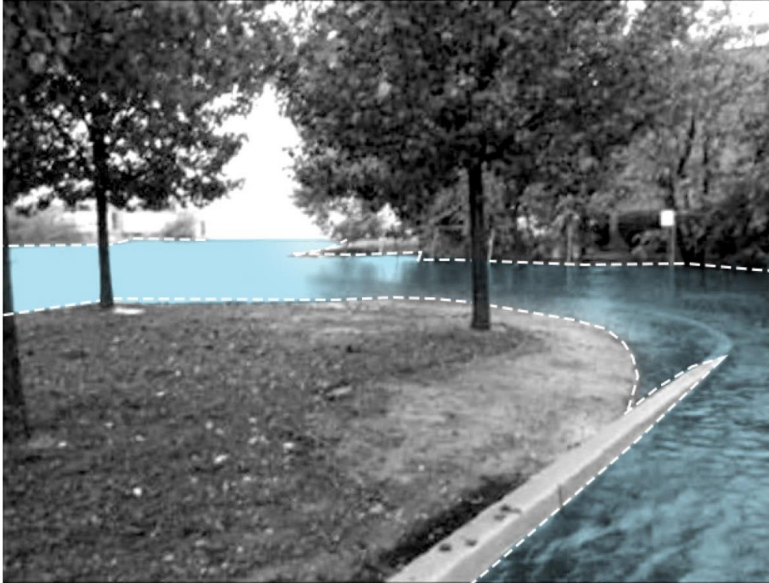
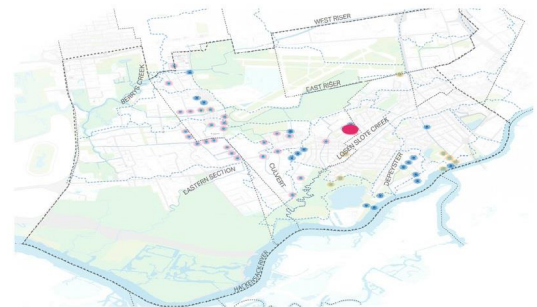


Image Source: Hackensack Meadowlands Floodplain Management Plan (Oct 24, 2005)

1 CAROL PLACE

Flood Event Date:
OCTOBER 12, 2005

Estimated Flood Elevation:
4.8 NAVD88



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FREQUENTLY FLOODED AREAS

CARLSTADT

16

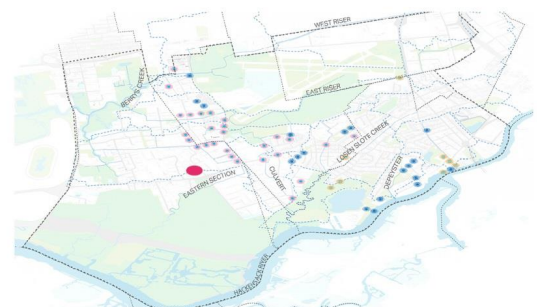


Image Source: Hackensack Meadowlands Floodplain Management Plan (Oct 24, 2005)

140 KERO ROAD

Flood Event Date:
JULY 8, 2005

Estimated Flood Elevation:
4.5 NAVD88



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PRELIMINARY

STORMWATER DRAINAGE IMPROVEMENT AREAS

GARRETT AVERY, AECOM
&
LULU LOQUIDIS, AECOM



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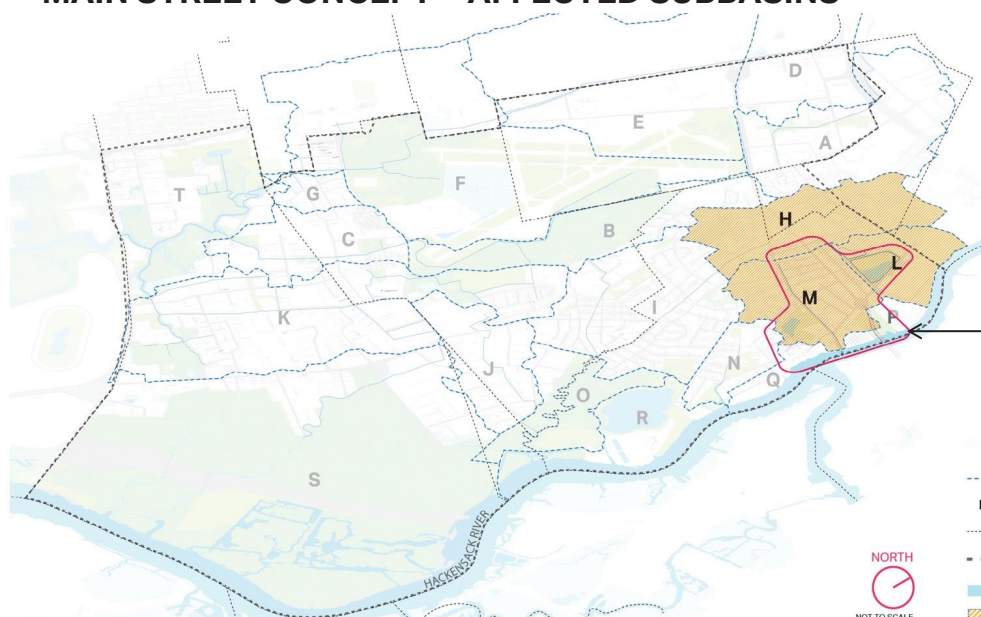
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DRAINAGE IMPROVEMENT CONCEPT 1

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MAIN STREET CONCEPT + AFFECTED SUBBASINS



M: MAIN STREET

L: INDIAN LAKE

H: UPPER LOSEN SLOTE 1

CONCEPT 1

- SUBBASIN BOUNDARY
- M** SUBBASIN NAME
- MUNICIPAL BOUNDARY
- PROJECT AREA
- WATER
- AFFECTED SUBBASIN



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DRAINAGE IMPROVEMENT CONCEPT 1

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MAIN STREET COLLECTION



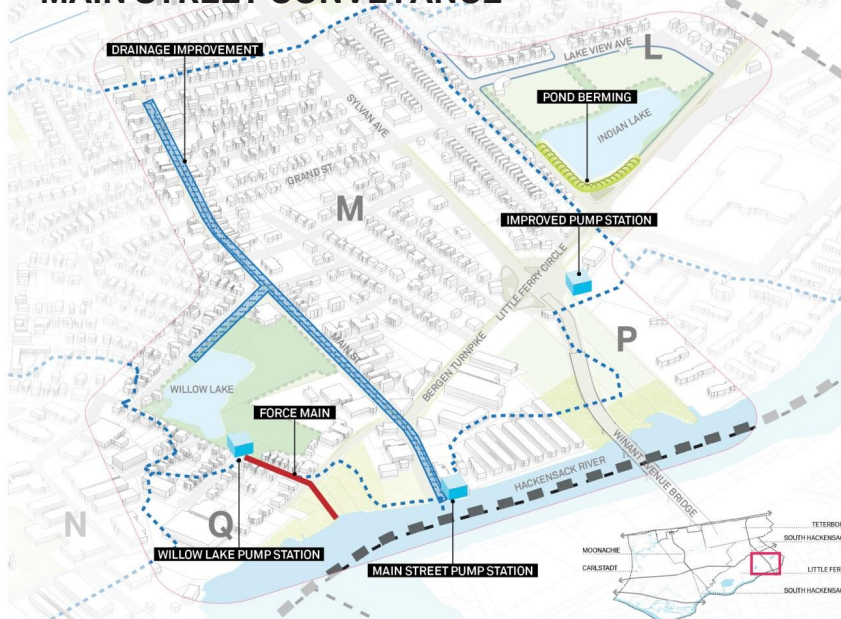
- **CONNECTING FEATURES ALONG MAIN STREET, BERGEN TURNPIKE, SYLVAN AVE, WILLOW LAKE PARK, INDIAN LAKE, AND NEW OPEN SPACE FEATURES ON THE HACKENSACK RIVER**
- **IMPROVEMENTS INCLUDE BIOSWALES, RAIN GARDENS, BUMP OUTS, MEDIAN PLANTING, NEW OPEN SPACE, AND OPEN SPACE IMPROVEMENTS**



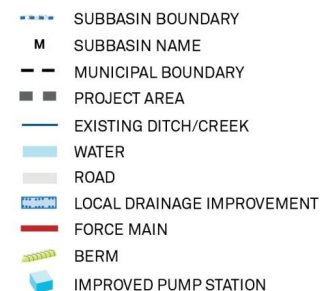
DRAINAGE IMPROVEMENT CONCEPT 1

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MAIN STREET CONVEYANCE



- **IMPROVED PUMP STATIONS AT LITTLE FERRY CIRCLE, MAIN STREET, AND WILLOW LAKE. BERM TO INCREASE STORAGE CAPACITY AT INDIAN LAKE**
- **IMPROVE CONVEYANCE BY INCREASING CULVERT SIZES ALONG MAIN STREET**



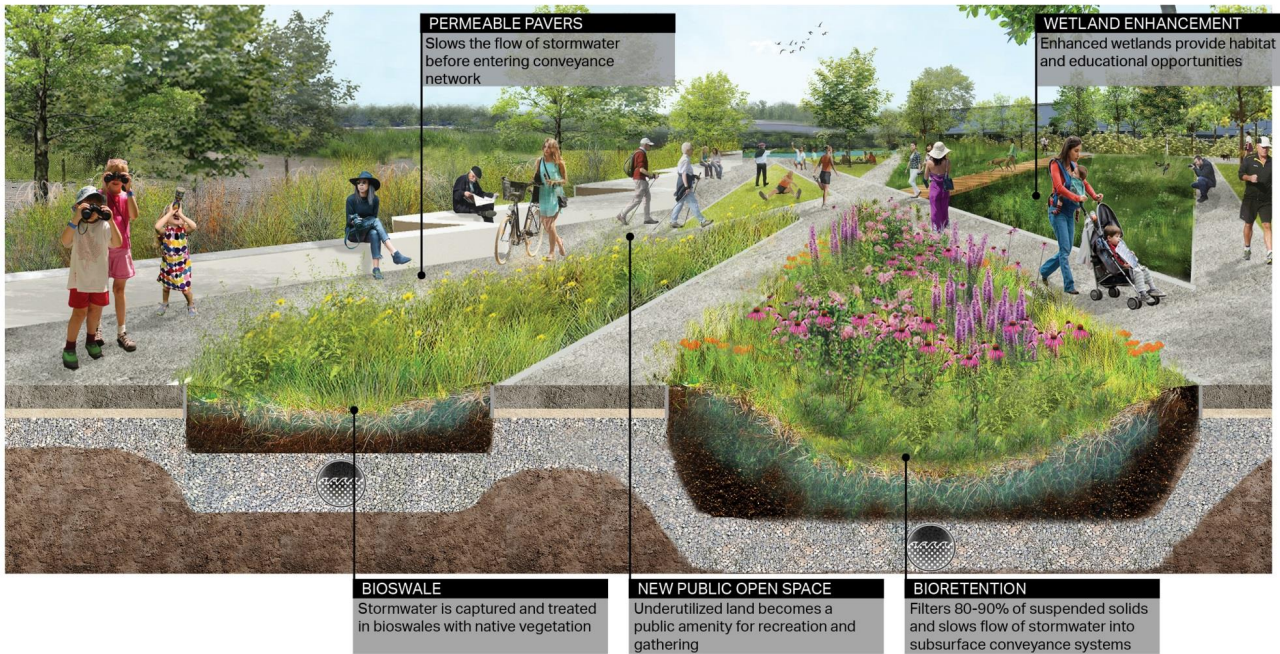
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NEW OPEN SPACE

21



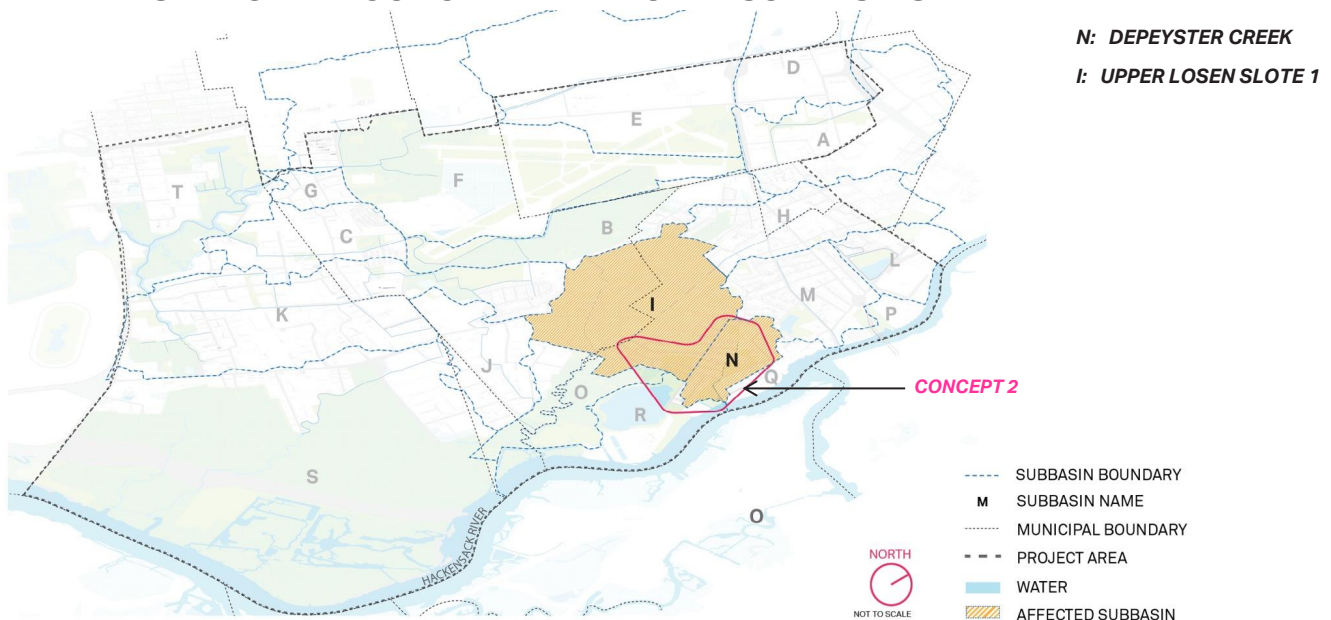
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DRAINAGE IMPROVEMENT CONCEPT 2 DEPEYSTER CREEK CONCEPT + AFFECTED SUBBASINS

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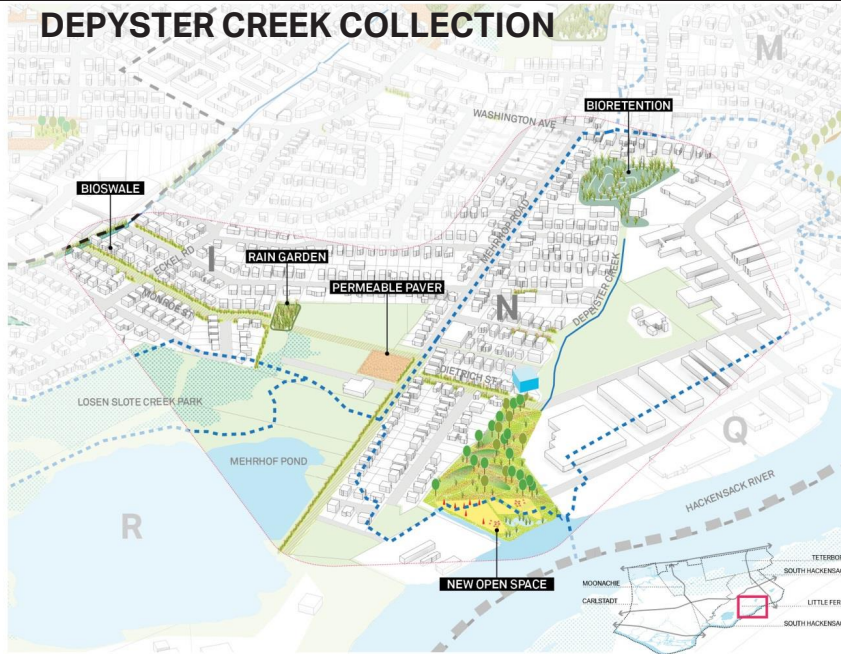
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DRAINAGE IMPROVEMENT CONCEPT 2

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DEPYSTER CREEK COLLECTION



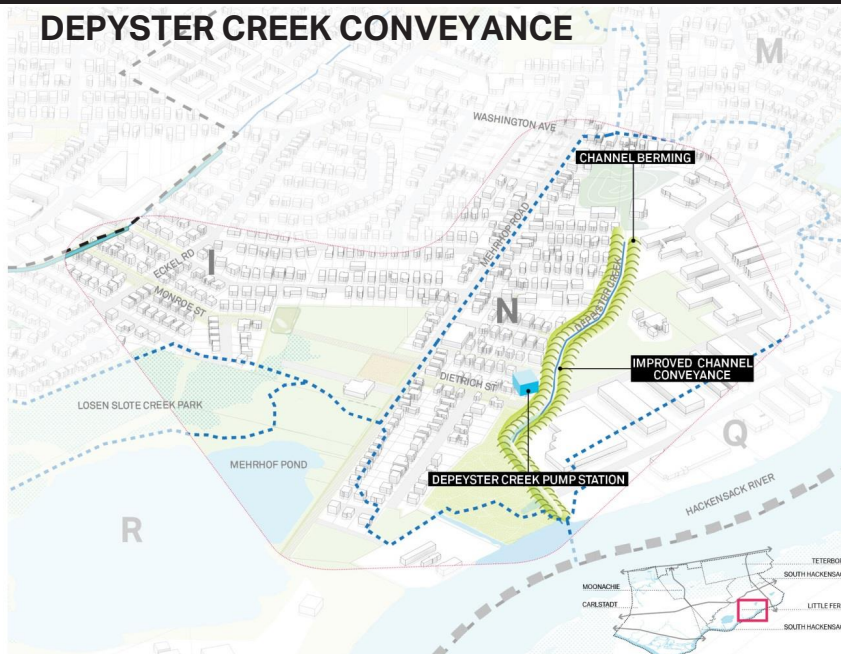
- **CONNECTING FEATURES ALONG DEPYSTER CREEK, MEHRHOF RD, MONROE ST, AND THE HACKENSACK RIVER**
- **IMPROVEMENTS INCLUDE NEW OPEN SPACE, OPEN SPACE IMPROVEMENTS, RECREATION, BIOSWALES, PERMEABLE PAVING, BIORETENTION, AND RAIN GARDENS**



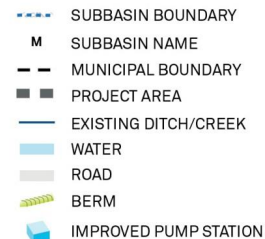
DRAINAGE IMPROVEMENT CONCEPT 2

24

DEPYSTER CREEK CONVEYANCE



- **INCREASE CHANNEL CONVEYANCE AND IMPROVE PUMP STATION AT DEPYSTER CREEK**
- **CHANNEL BERMING TO INCREASE CAPACITY AT DEPYSTER CREEK**



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IMPROVED PUMP STATION + NEW OPEN SPACE

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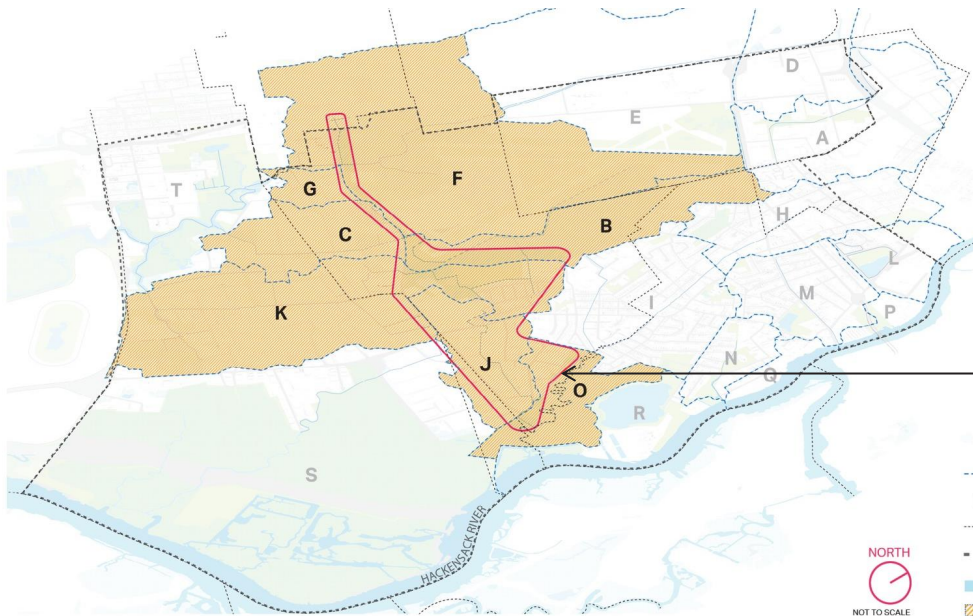
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DRAINAGE IMPROVEMENT CONCEPT 3 MOONACHIE CONCEPT + AFFECTED SUBBASINS

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O: LOWER LOSEN SLOTE
J: MOONACHIE
K: CARLSTADT
B: MIDDLE EAST RISER
F: MIDDLE WEST RISER
C: LOWER EAST RISER
G: LOWER WEST RISER

CONCEPT 3



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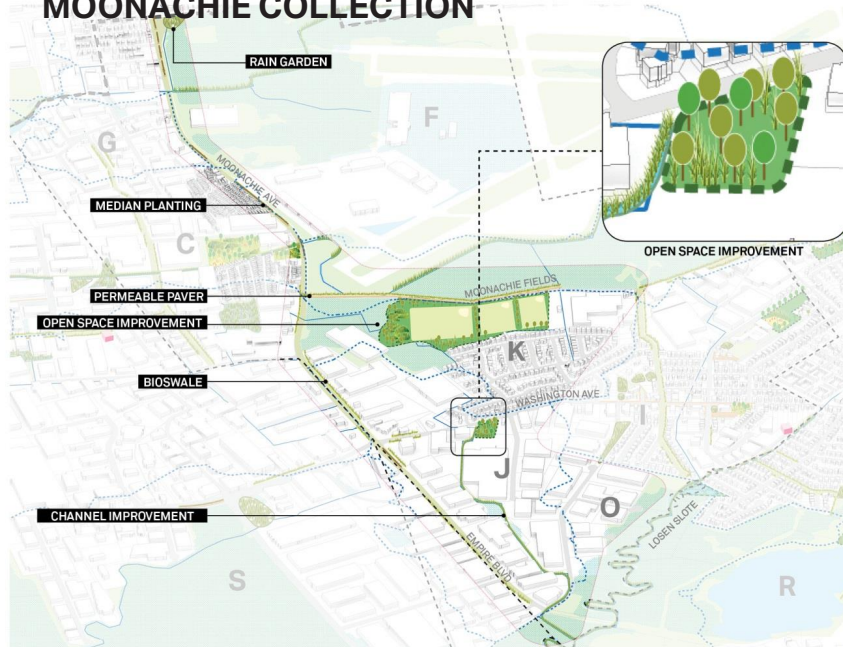
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DRAINAGE IMPROVEMENT CONCEPT 3

27

MOONACHIE COLLECTION



- **CONNECTING FEATURES ALONG EMPIRE BLVD, AND MOONACHIE ROAD**
- **IMPROVEMENTS INCLUDE BIOSWALES, MEDIAN PLANTING, NEW OPEN SPACE, AND RECREATION**



- SUBBASIN BOUNDARY
- M SUBBASIN NAME
- MUNICIPAL BOUNDARY
- - - PROJECT AREA
- EXISTING DITCH/CREEK
- WATER
- ROAD
- GREEN STREET
- EXISTING OPEN SPACE
- WETLAND
- IMPROVED OPEN SPACE
- PERMEABLE PAVER
- RAIN GARDEN
- CHANNEL IMPROVEMENT
- MEDIAN PLANTING
- BIOSWALE



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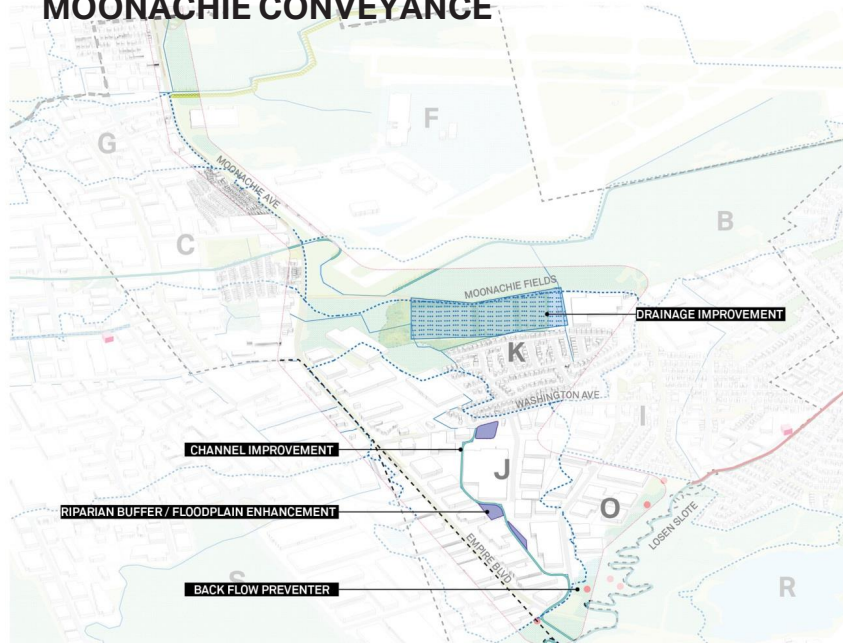
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DRAINAGE IMPROVEMENT CONCEPT 3

28

MOONACHIE CONVEYANCE



- **OFF CHANNEL STORAGE, INCREASED CONVEYANCE, AND LOCAL DRAINAGE IMPROVEMENTS**
- **BACK FLOW PROTECTION FOR OUTFALLS TO LOSEN SLOTE**



- SUBBASIN BOUNDARY
- M SUBBASIN NAME
- MUNICIPAL BOUNDARY
- - - PROJECT AREA
- EXISTING DITCH/CREEK
- WATER
- ROAD
- LOCAL DRAINAGE IMPROVEMENT
- RIPARIAN BUFFER / FLOODPLAIN ENHANCEMENT
- CHANNEL IMPROVEMENT
- BACK FLOW PREVENTER



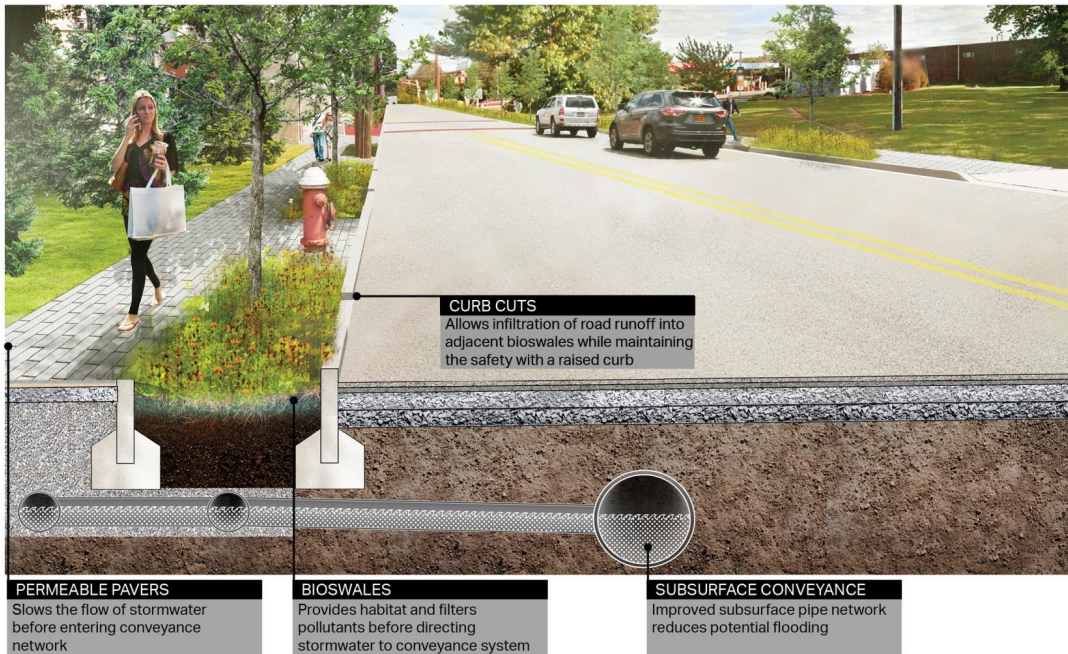
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BIOSWALES + STREET IMPROVEMENTS

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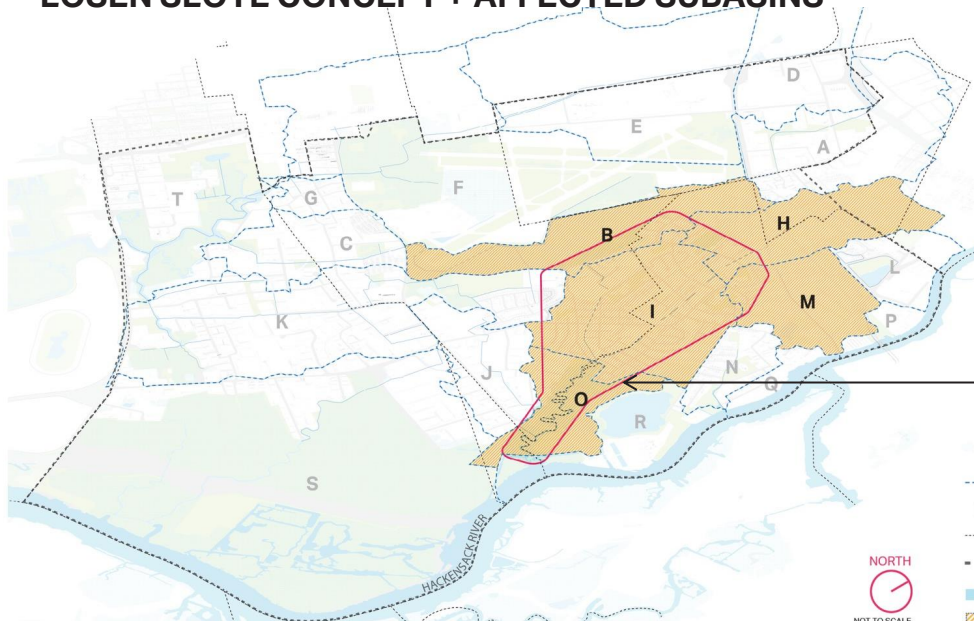
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DRAINAGE IMPROVEMENT CONCEPT 4 LOSEN SLOTE CONCEPT + AFFECTED SUBBASINS

30



O: LOWER LOSEN SLOTE
I: UPPER LOSEN SLOTE 2
M: MAIN STREET
H: UPPER LOSEN SLOTE 1
B: MIDDLE EAST RISER

CONCEPT 4

--- SUBBASIN BOUNDARY
M SUBBASIN NAME
... MUNICIPAL BOUNDARY
- - - PROJECT AREA
--- WATER
--- AFFECTED SUBBASIN



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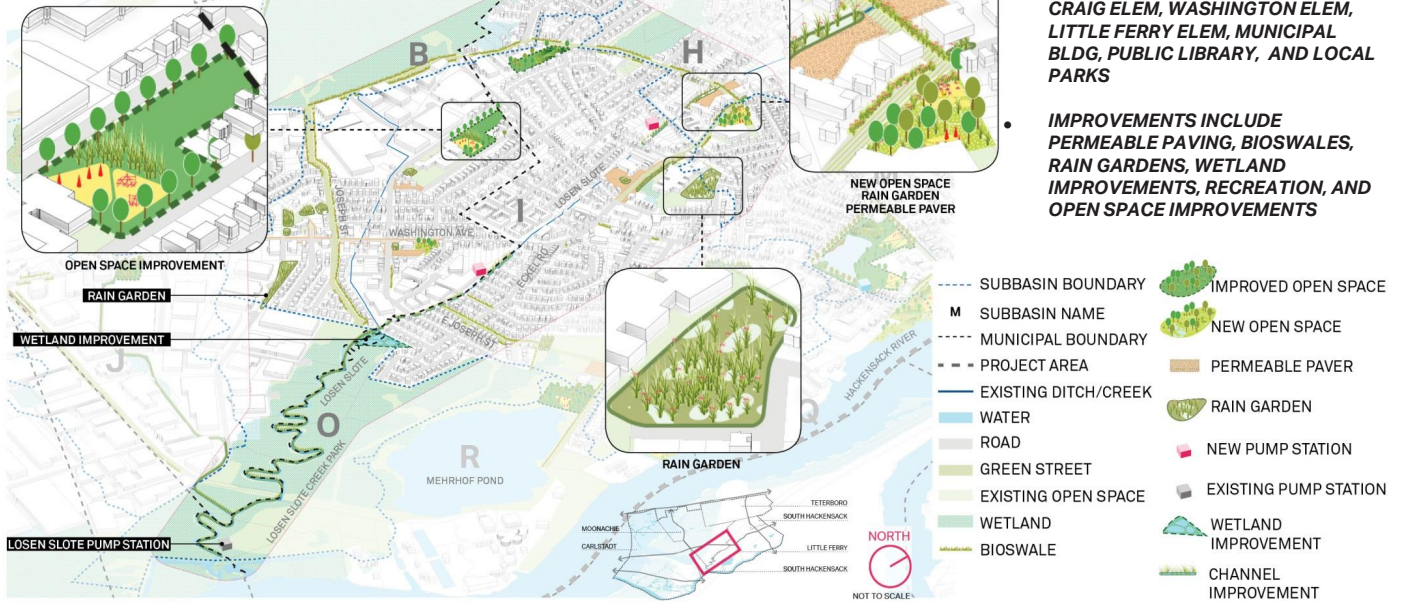
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DRAINAGE IMPROVEMENT CONCEPT 4

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LOSEN SLOTE COLLECTION



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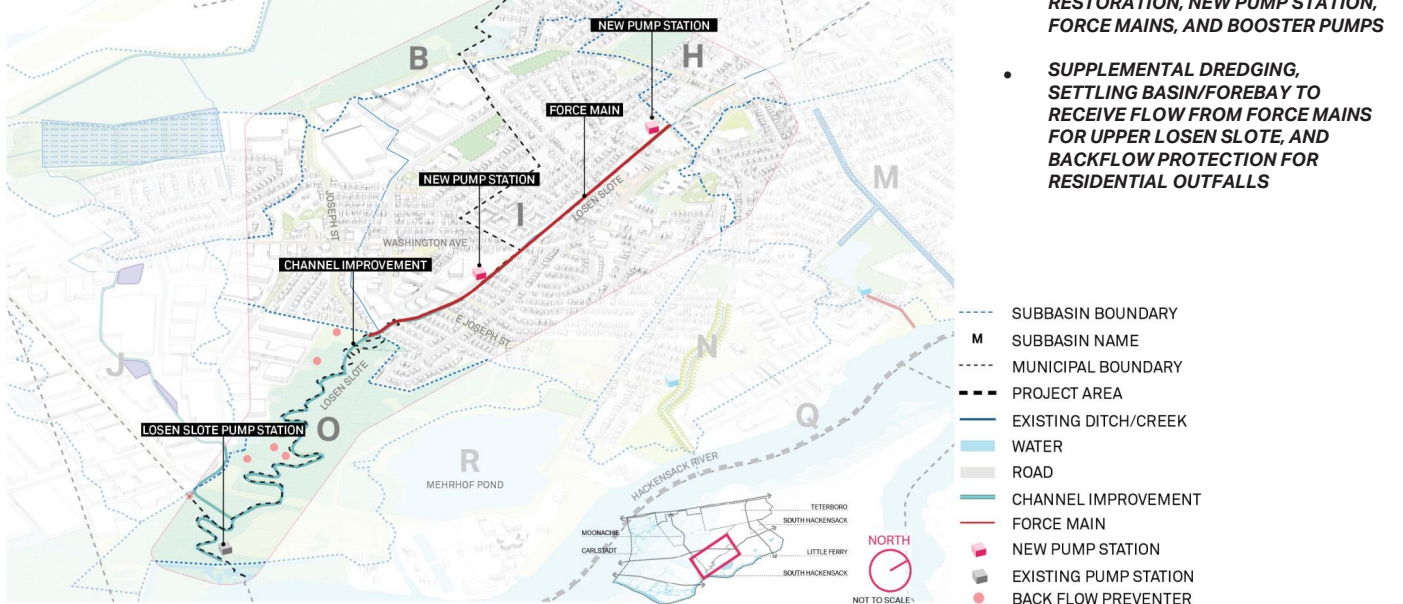
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DRAINAGE IMPROVEMENT CONCEPT 4

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LOSEN SLOTE CONVEYANCE



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IMPROVEMENTS TO CIVIC AMENITY PROPERTY

33



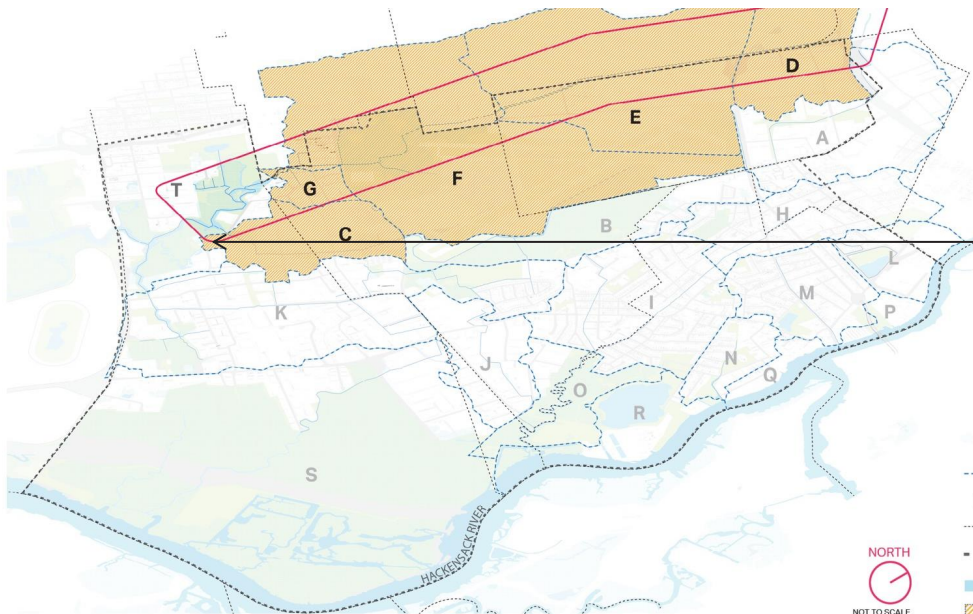
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DRAINAGE IMPROVEMENT CONCEPT 5 ALL WEST RISER CONCEPT + AFFECTED SUBBASINS

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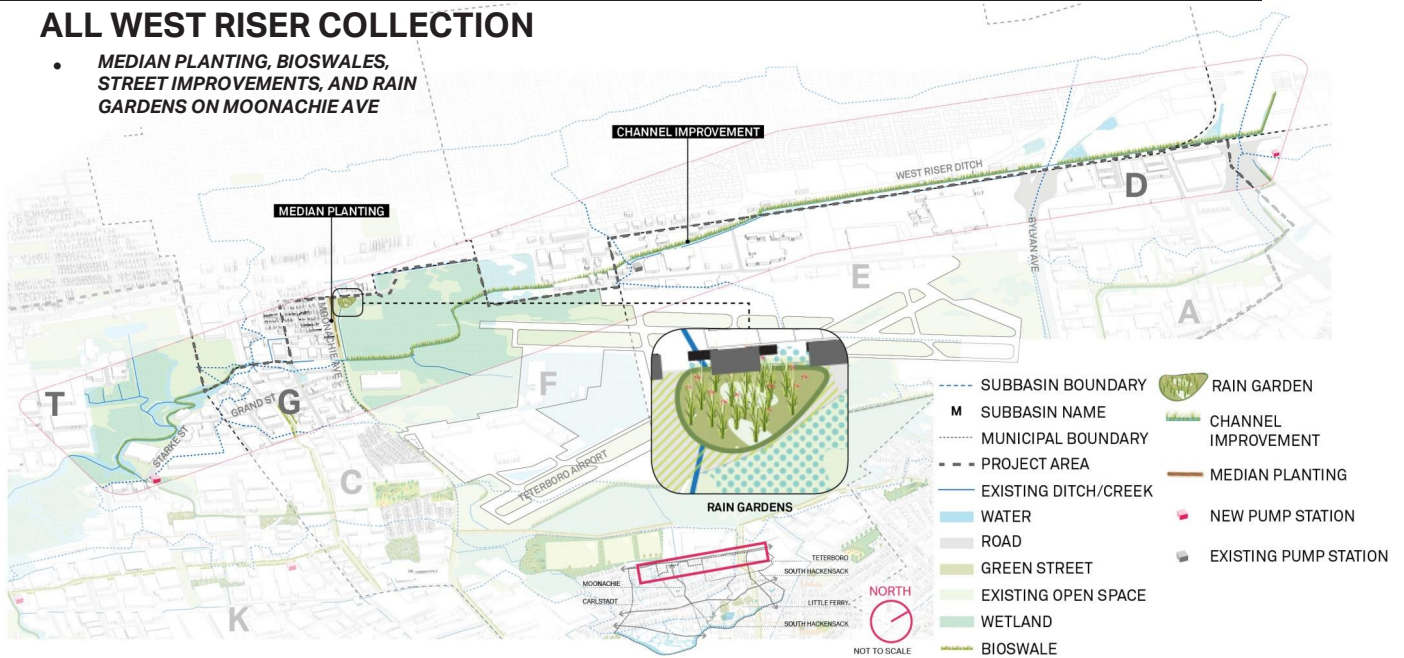
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DRAINAGE IMPROVEMENT CONCEPT 5

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ALL WEST RISER COLLECTION

- MEDIAN PLANTING, BIOSWALES, STREET IMPROVEMENTS, AND RAIN GARDENS ON MOONACHIE AVE



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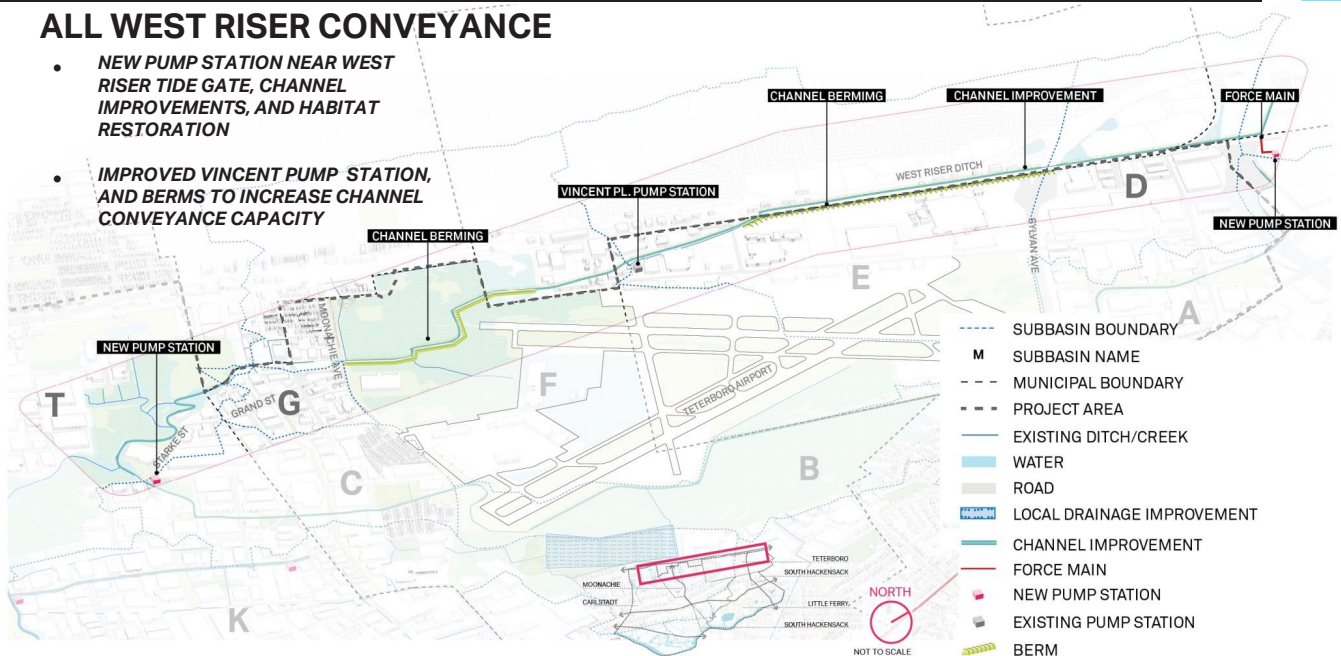
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DRAINAGE IMPROVEMENT CONCEPT 5

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ALL WEST RISER CONVEYANCE

- NEW PUMP STATION NEAR WEST RISER TIDE GATE, CHANNEL IMPROVEMENTS, AND HABITAT RESTORATION
- IMPROVED VINCENT PUMP STATION, AND BERMS TO INCREASE CHANNEL CONVEYANCE CAPACITY



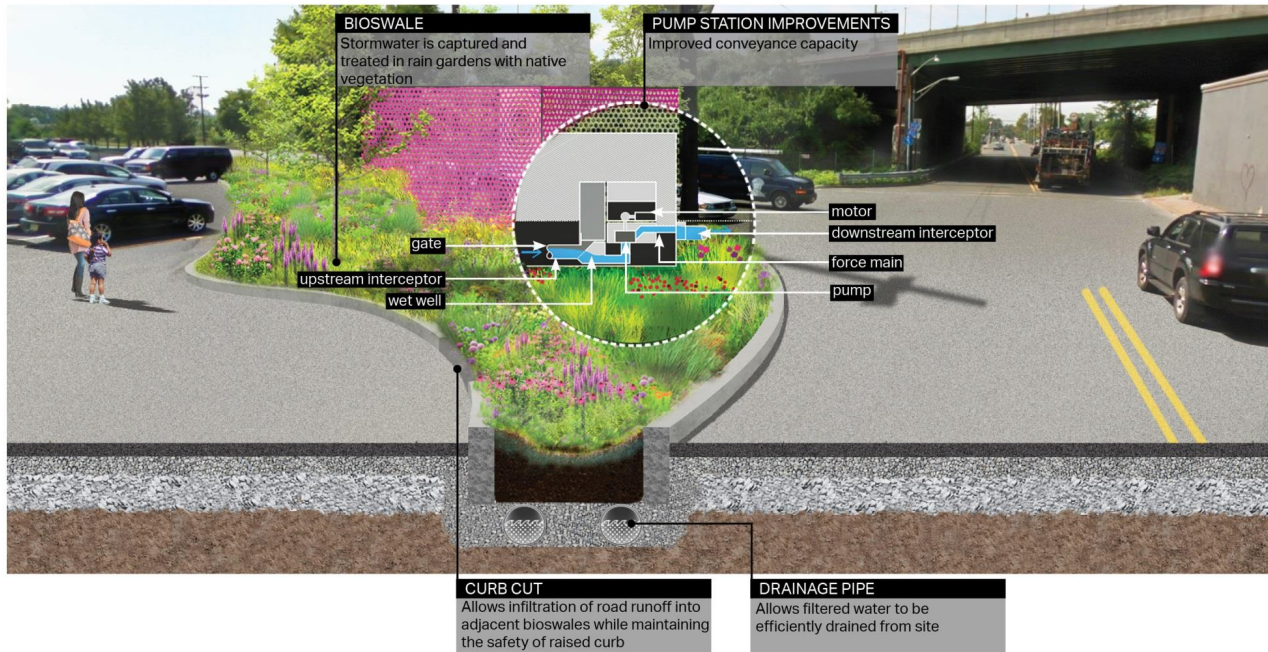
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NEW PUMP STATION

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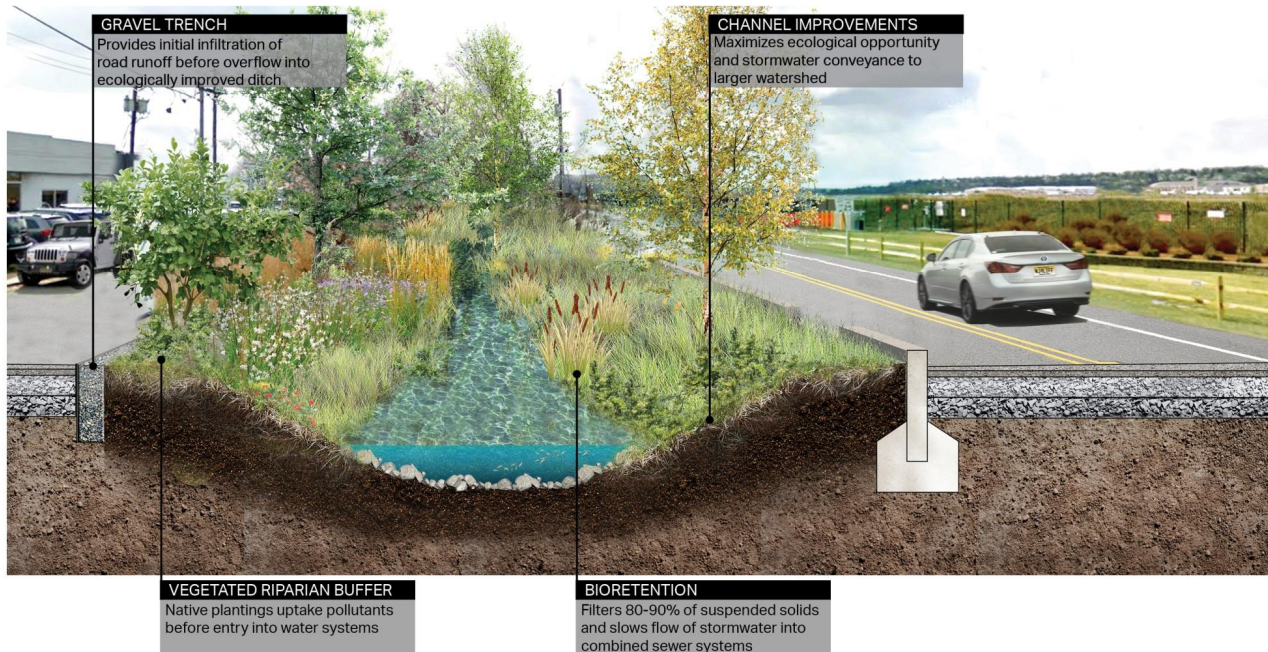
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CHANNEL + HABITAT IMPROVEMENTS

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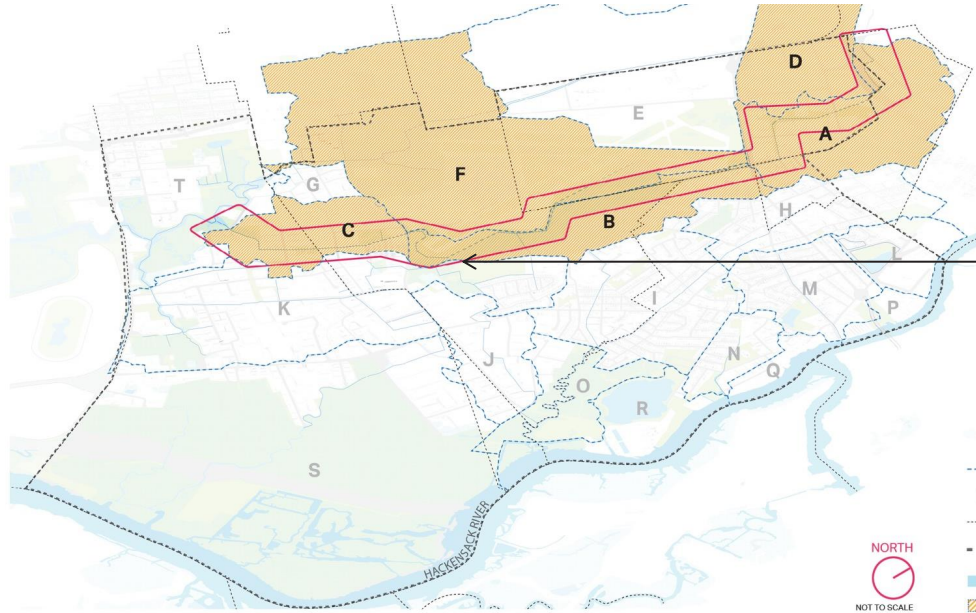
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DRAINAGE IMPROVEMENT CONCEPT 6

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ALL EAST RISER CONCEPT + AFFECTED SUBBASINS



A: UPPER EAST RISER
D: UPPER WEST RISER 1
E: UPPER WEST RISER 2
F: MIDDLE WEST RISER
B: MIDDLE EAST RISER
C: LOWER EAST RISER

CONCEPT 6

- SUBBASIN BOUNDARY
- M** SUBBASIN NAME
- MUNICIPAL BOUNDARY
- - - PROJECT AREA
- WATER
- AFFECTED SUBBASIN



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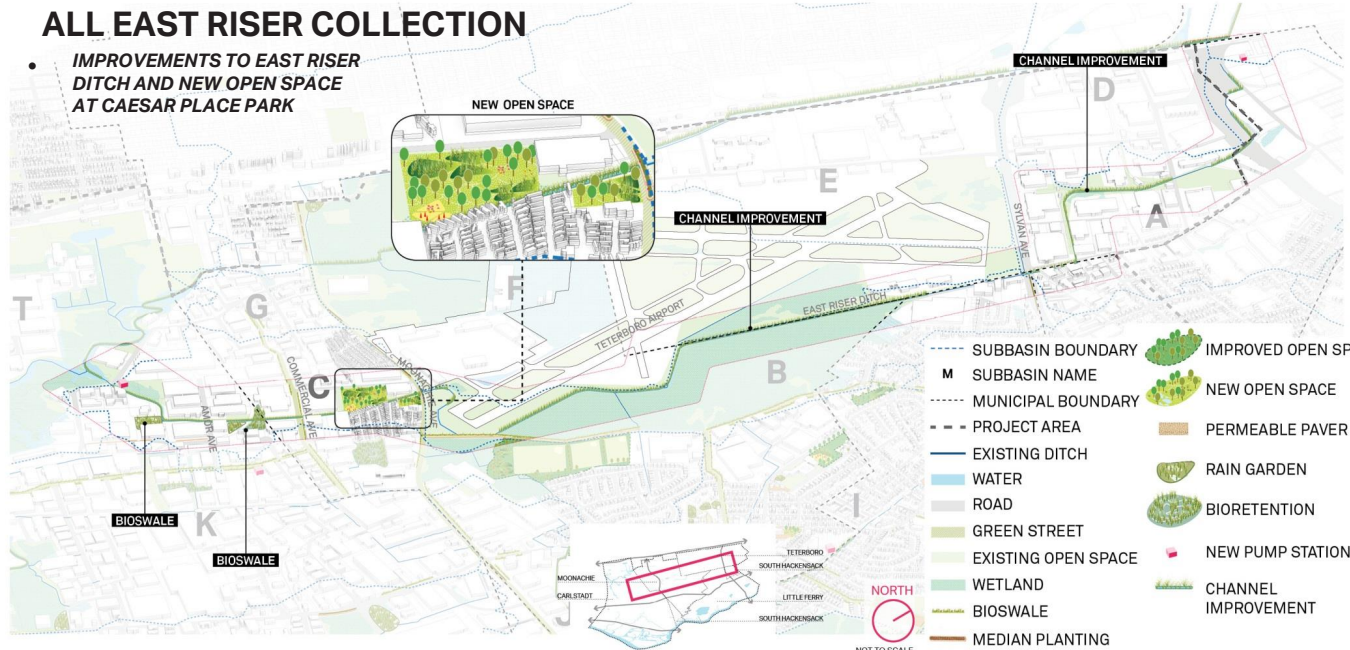
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DRAINAGE IMPROVEMENT CONCEPT 6

40

ALL EAST RISER COLLECTION

- IMPROVEMENTS TO EAST RISER DITCH AND NEW OPEN SPACE AT CAESAR PLACE PARK



- SUBBASIN BOUNDARY
- M** SUBBASIN NAME
- MUNICIPAL BOUNDARY
- - - PROJECT AREA
- EXISTING DITCH
- WATER
- ROAD
- GREEN STREET
- EXISTING OPEN SPACE
- WETLAND
- BIOSWALE
- MEDIAN PLANTING
- IMPROVED OPEN SPACE
- NEW OPEN SPACE
- PERMEABLE PAVER
- RAIN GARDEN
- BIORETENTION
- NEW PUMP STATION
- CHANNEL IMPROVEMENT



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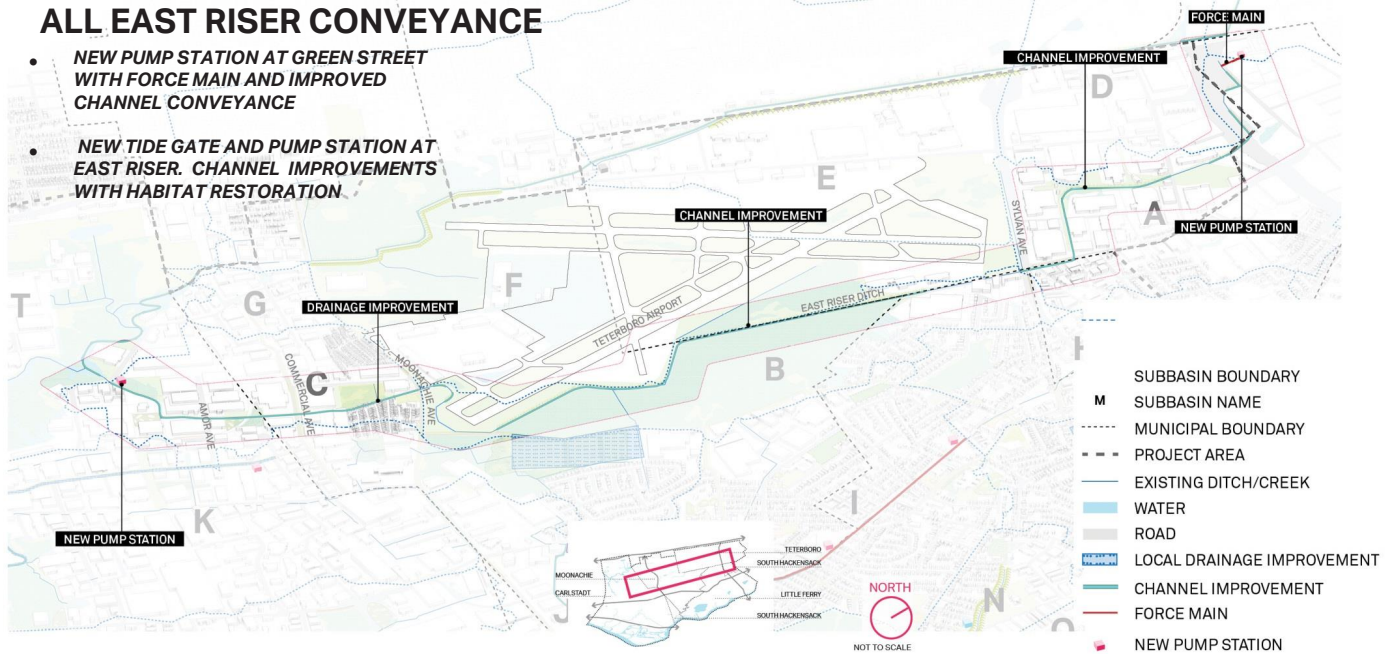
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DRAINAGE IMPROVEMENT CONCEPT 6

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ALL EAST RISER CONVEYANCE

- NEW PUMP STATION AT GREEN STREET WITH FORCE MAIN AND IMPROVED CHANNEL CONVEYANCE
- NEW TIDE GATE AND PUMP STATION AT EAST RISER. CHANNEL IMPROVEMENTS WITH HABITAT RESTORATION



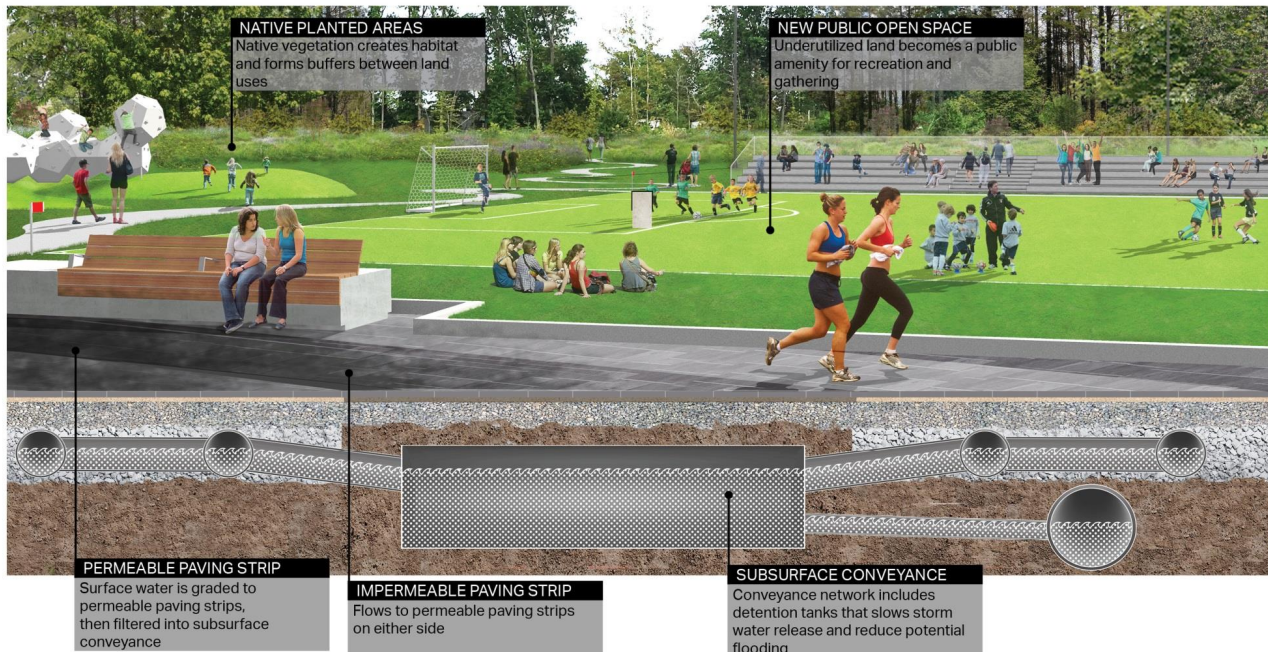
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OPEN SPACE IMPROVEMENTS

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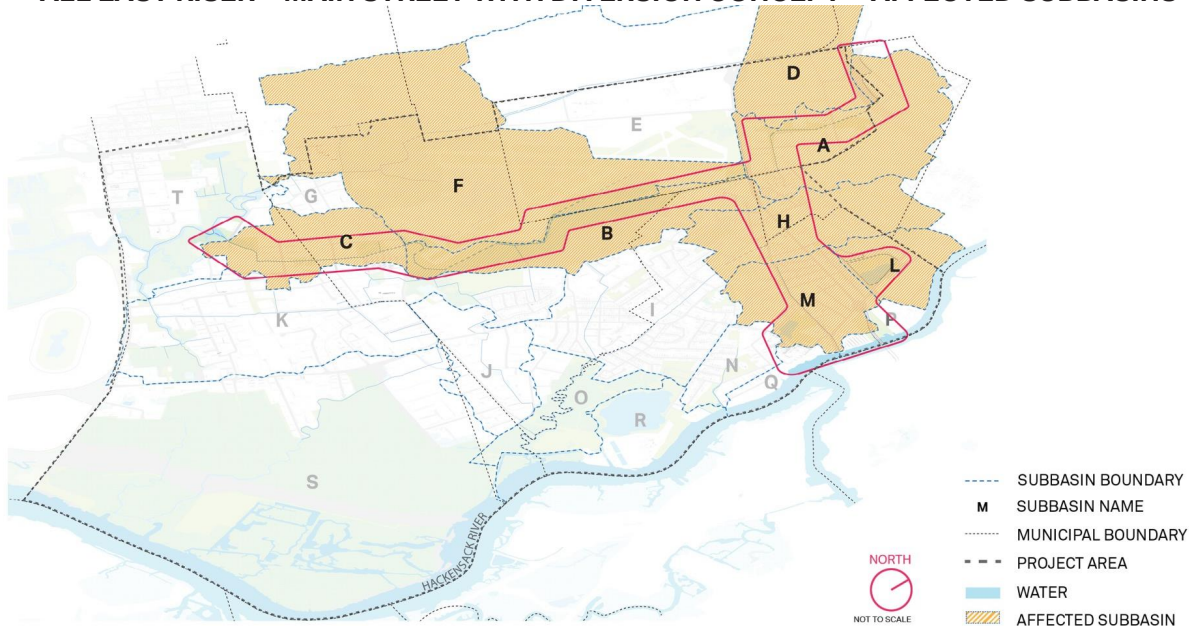
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DRAINAGE IMPROVEMENT CONCEPT 7

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ALL EAST RISER + MAIN STREET WITH DIVERSION CONCEPT + AFFECTED SUBBASINS



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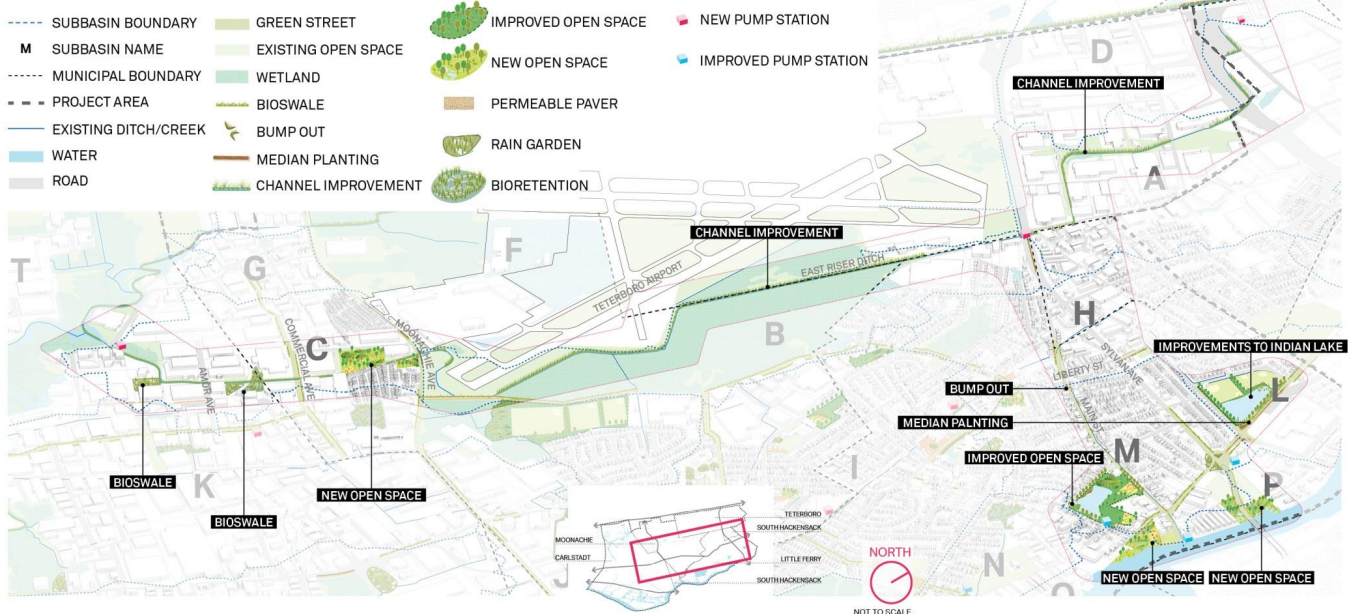
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DRAINAGE IMPROVEMENT CONCEPT 7

44

ALL EAST RISER + MAIN STREET WITH DIVERSION COLLECTION



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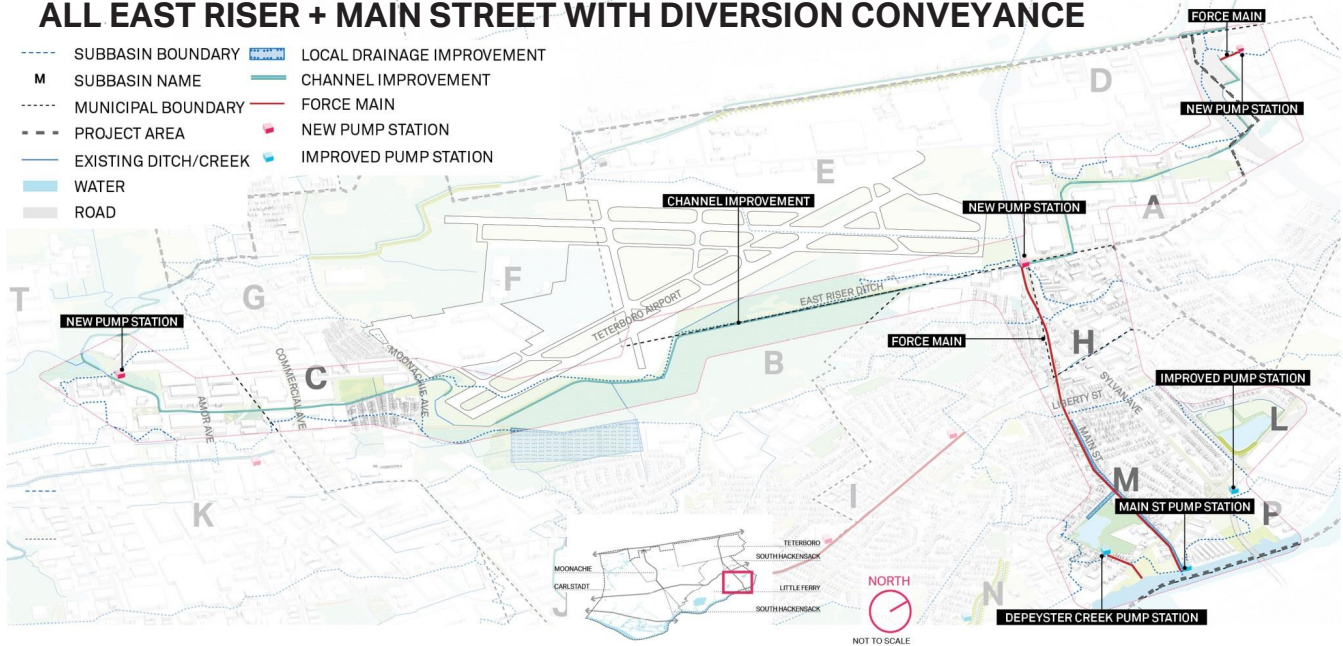
AECOM

DRAINAGE IMPROVEMENT CONCEPT 7

45

ALL EAST RISER + MAIN STREET WITH DIVERSION CONVEYANCE

- SUBBASIN BOUNDARY
- M SUBBASIN NAME
- MUNICIPAL BOUNDARY
- - - PROJECT AREA
- EXISTING DITCH/CREEK
- WATER
- ROAD
- LOCAL DRAINAGE IMPROVEMENT
- CHANNEL IMPROVEMENT
- FORCE MAIN
- NEW PUMP STATION
- IMPROVED PUMP STATION



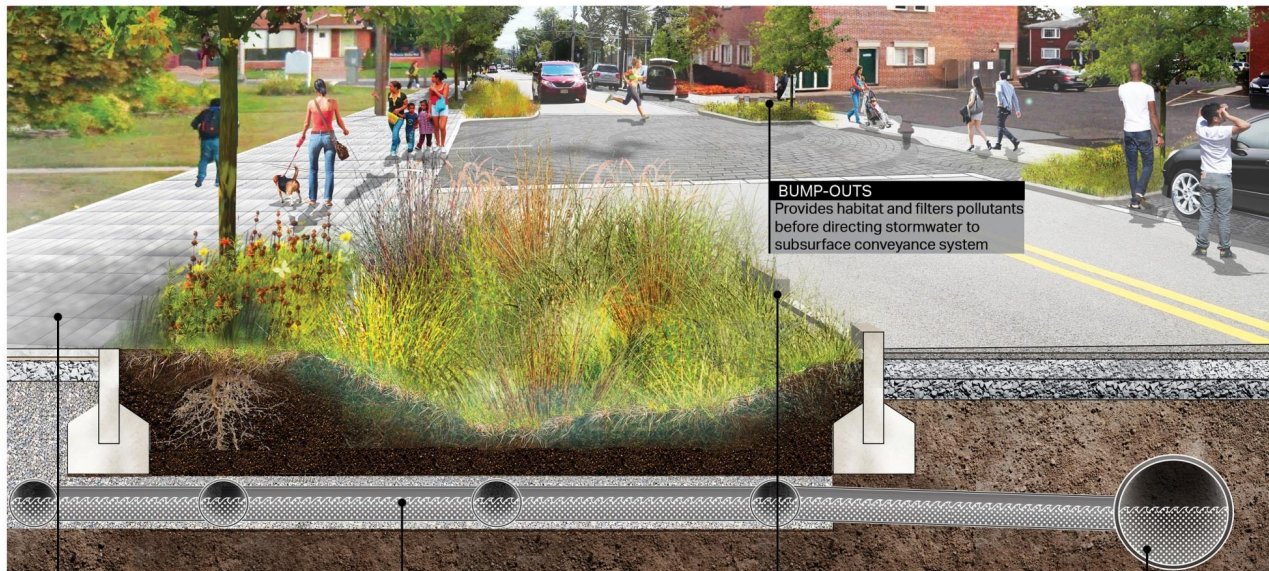
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BUMP OUTS + STREET IMPROVEMENTS

46



BUMP-OUTS
Provides habitat and filters pollutants before directing stormwater to subsurface conveyance system

PERMEABLE PAVERS
Slows the flow of stormwater and filters water before entering conveyance system

SUBSURFACE CONVEYANCE
Improved subsurface pipe network reduces potential flooding

CURB CUT
Allows infiltration of road runoff into adjacent bioswales while maintaining the safety of raised curb

FORCE MAIN
Pumped stormwater conveyance to ensure grey infrastructure flood mitigation



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NEXT STEPS

CHRISTOPHER BENOSKY, AECOM



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NEXT STEPS

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NJDEP / AECOM UPCOMING ACTIVITIES

- Prepare Meeting Summary for CAG #7
- Continue developing:
 - Concepts and Alternatives
- CAG #8 in March
 - Alternative 1 – Structural Flood Reduction



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NEXT STEPS

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CAG: CALL TO ACTION

- Submit comments from CAG #7 meeting by **February 7, 2017**
- Share information from this meeting with friends and neighbors
- Continue to build interest in the Project
- Ensure the public knows about upcoming information (to be posted on Project website)



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NEXT STEPS

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Critical Information

March, 2017 - TBD

CAG Meeting #8: Alternative 1: Structural Flood Reduction

Project Website

www.rbd-meadowlands.nj.gov

Project Email

rbd-meadowlands@dep.nj.gov

Question & Answer



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4.0 Personal Notes

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

CAG MEETING #7 // January 31, 2017
31

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