

SCAPE LANDSCAPE ARCHITECTURE DPC

NEWTOWN CREEK

VERNON BLVD STREET END

MARCH 31, 2021

FLOOD MAP

FLOOD HAZARD



THE VERNON BLVD STREET END IS IN THE FLOOD PLAIN, WITH OR WITHOUT A WALL

NEGATIVE EFFECTS OF A TALL CONCRETE WALL:

- **INHIBITS PUBLIC ACCESS AND VIEWS TO THE CREEK FROM VERNON BLVD**
- **IT WILL NOT STOP WATER FROM FLOWING AROUND EITHER SIDE**
- **FLOOD WATERS WILL POOL UP BEHIND THE WALL, MAKING STORMWATER MANAGEMENT DIFFICULT**

LEGEND

- ZONE AE - 1% ANNUAL CHANCE FLOOD HAZARD (100 YEAR STORM) 10' BFE
- ZONE X - 0.2% ANNUAL CHANCE FLOOD HAZARD (500 YEAR STORM)
- VERNON BLVD STREET END

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1 inch = 0.06 miles

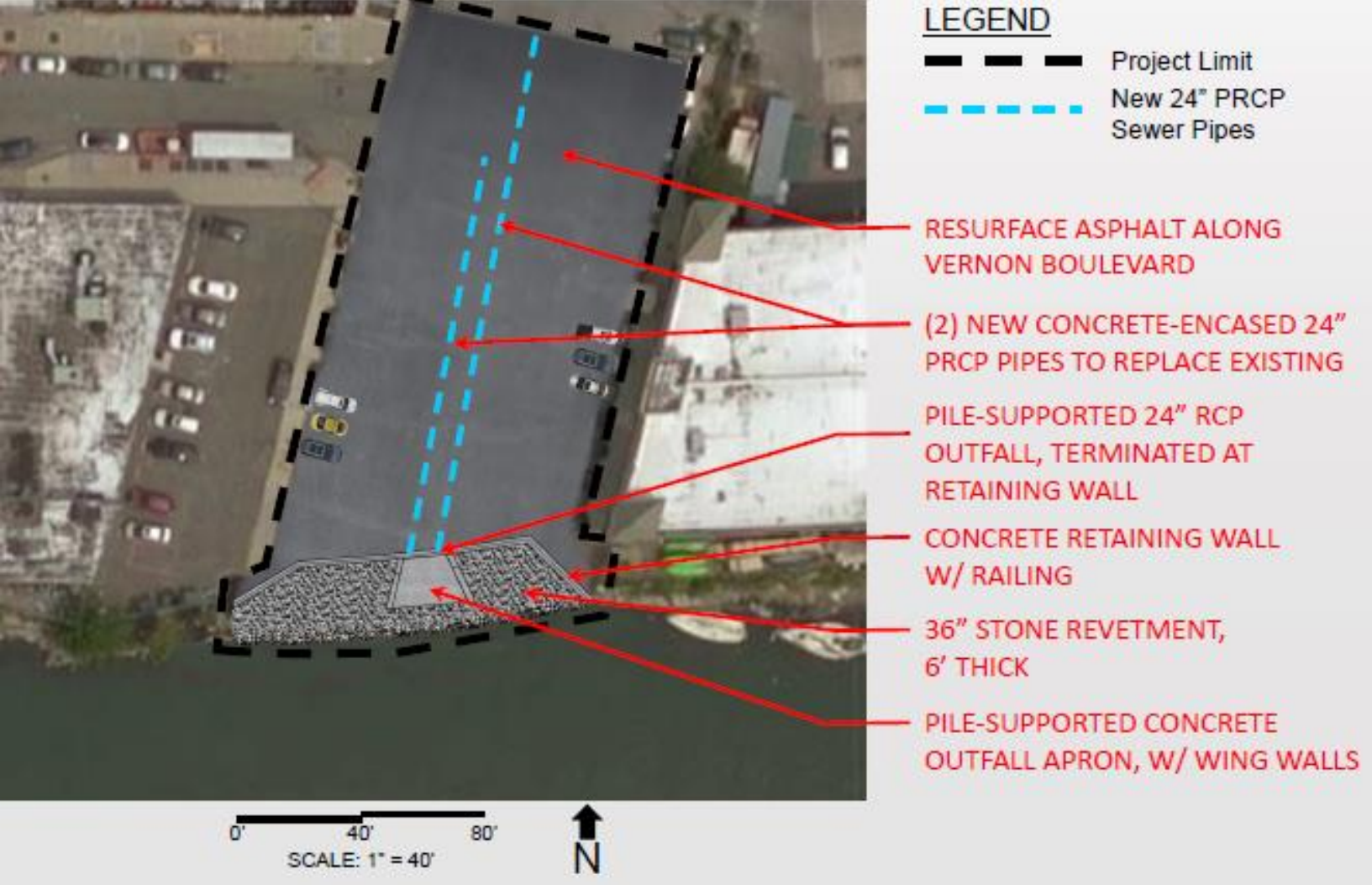
- DATA SOURCES:**
- FEMA FIRM MAP- ELEVATIONS IN NAVD88
 - NPCC 2015 REPORT, CHAPTER 3
 - FEMA NYC FLOOD INSURANCE STUDY (2013)

**STREET END
REVISED PROPOSAL**

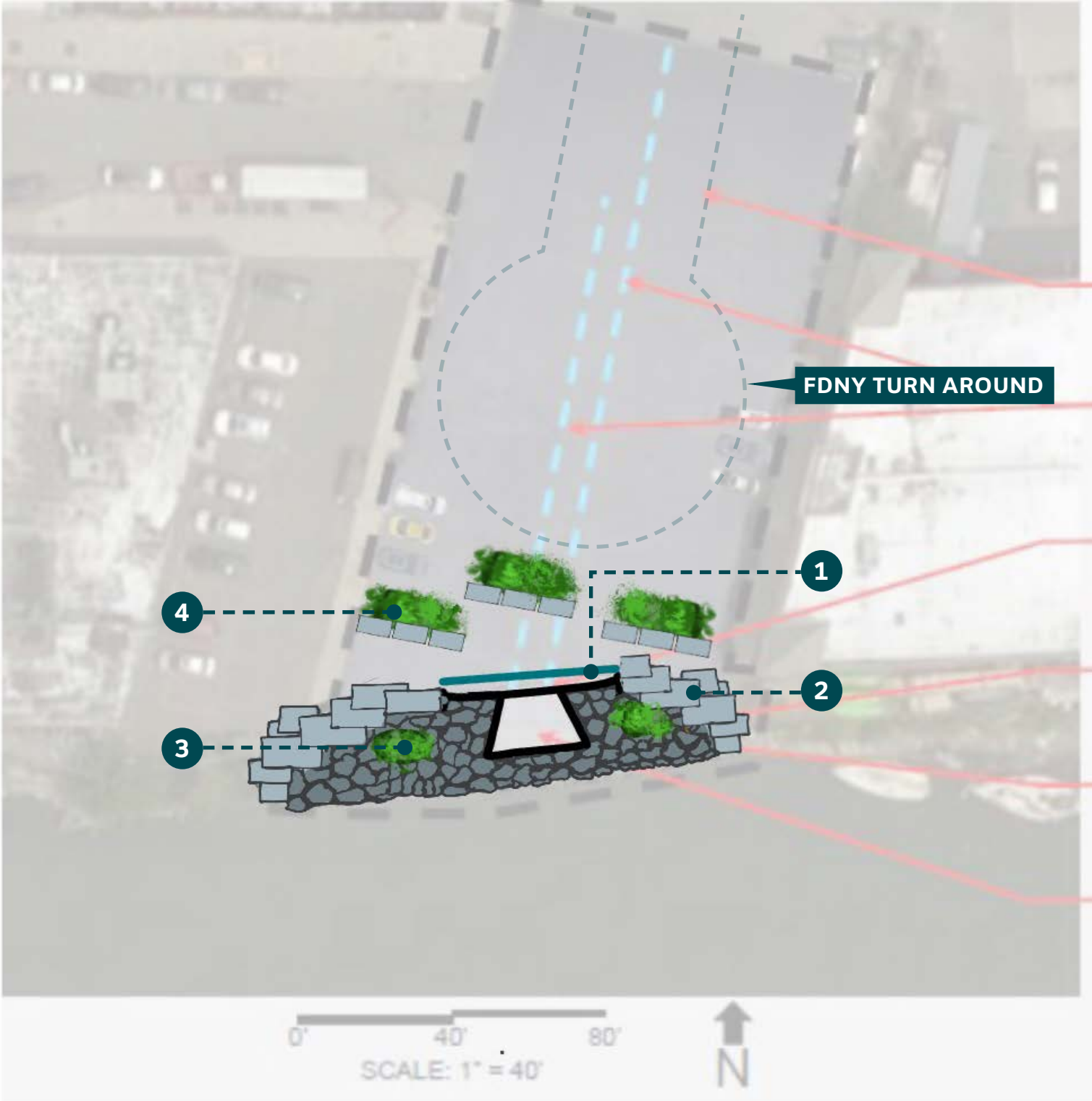
DOT PROPOSAL

Scope of Work

- Demolition of the existing low-level platform
- Installation of a sheet pile bulkhead
- Installation of rip rap revetment
- Installation of timber piles for support of drainage structures
- Replacement of outfall drainage pipe
- Repaving of street end



REVISED PROPOSAL - PLAN



4 PROPOSED MODIFICATIONS:

- 1. LOWER WALL AND ADD DOT STANDARD GUARDRAIL TO MAINTAIN VIEWS TO NEWTOWN CREEK
- 2. REDUCE LENGTH OF RETAINING WALL AND USE STACKED BOULDERS TO EASE TRANSITION TO ADJACENT, LOW BULKHEADS
- 3. PLANTING POCKETS WITH COASTAL SPECIES (BACCHARIS HALMIFOLIA) ABOVE HIGH TIDE PROVIDE WILDLIFE HABITAT, FILTER POLLUTANTS, EROSION CONTROL, AND SCREEN THE STREET FROM WATERFOWL IN THE CREEK
- 4. PLANT BEDS WITH BOULDERS TO PROVIDE STORM SURGE BUFFER AND SEATING

REVISED PROPOSAL - ELEMENTS



DCP STANDARD GUARDRAIL MAINTAINS VIEW TO NEWTOWN CREEK



STACKED BOULDERS TO EASE TRANSITION TO ADJACENT, LOW BULKHEADS



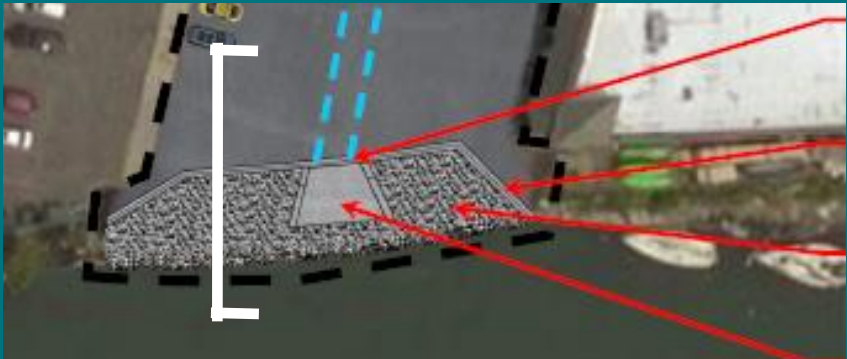
PLANTING POCKETS IN REVETMENT TO PROVIDE WILDLIFE HABITAT



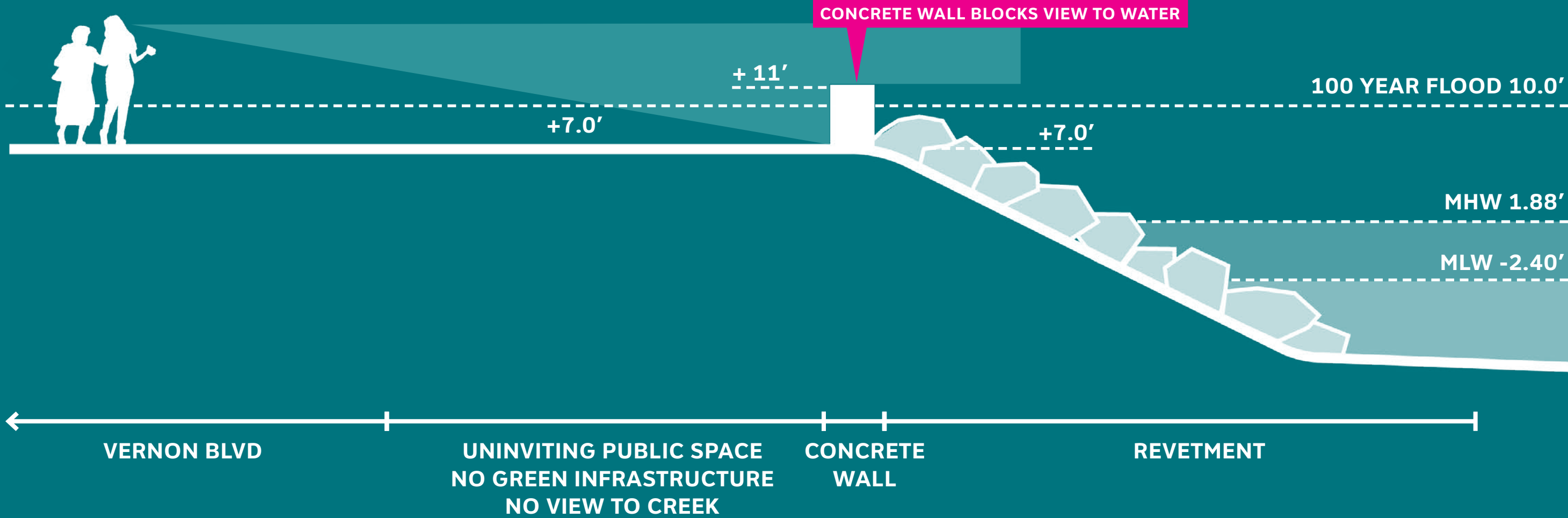
PLANT BEDS WITH BOULDERS TO PROVIDE STORM SURGE BUFFER AND SEATING

DOT PROPOSAL

** VERNON BLVD IS A VISUAL CORRIDOR TO NEWTOWN CREEK AND A TALL CONCRETE WALL WILL BECOME A SEVERE OBSTRUCTION*



SECTION CUT KEY PLAN

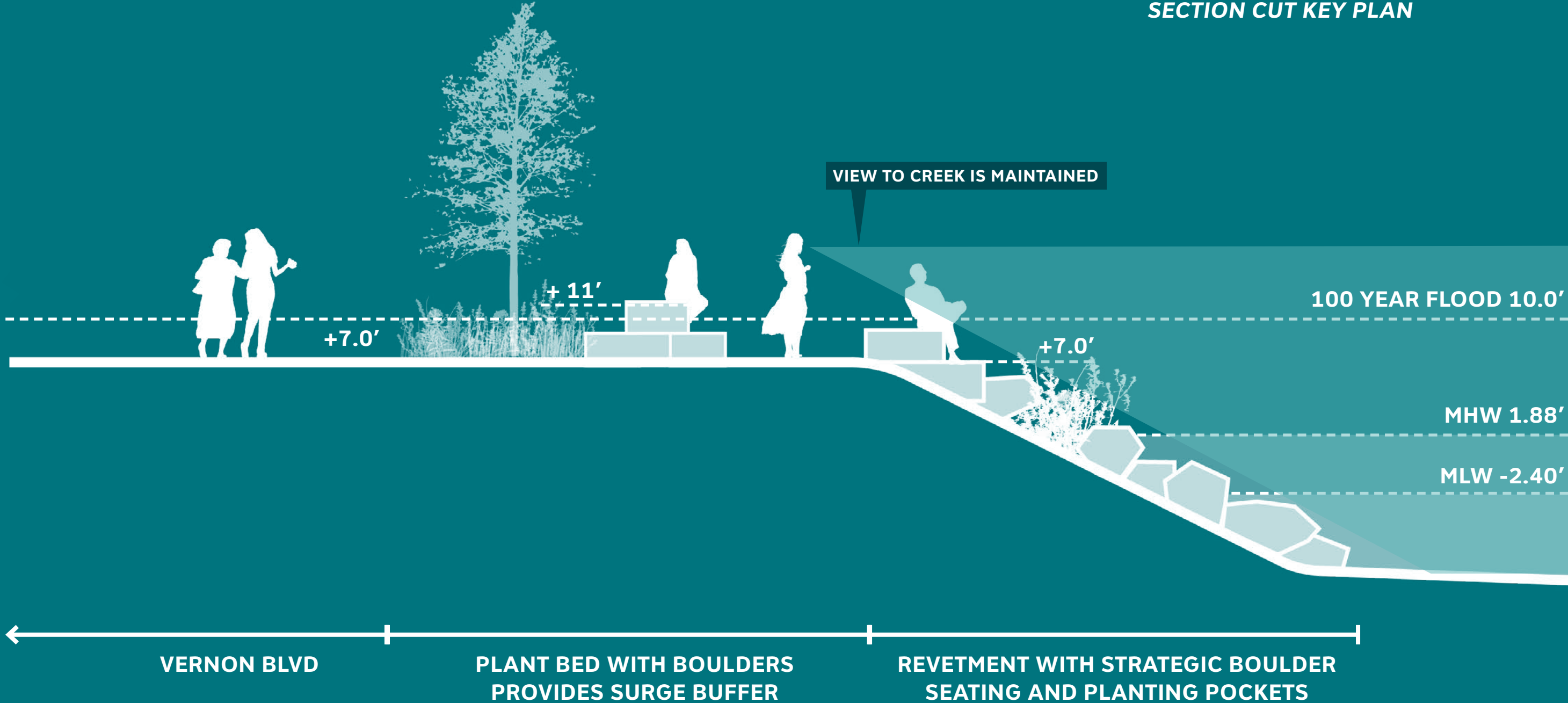


REVISED PROPOSAL

* VISUAL CORRIDOR TO NEWTOWN CREEK IS MAINTAINED



SECTION CUT KEY PLAN



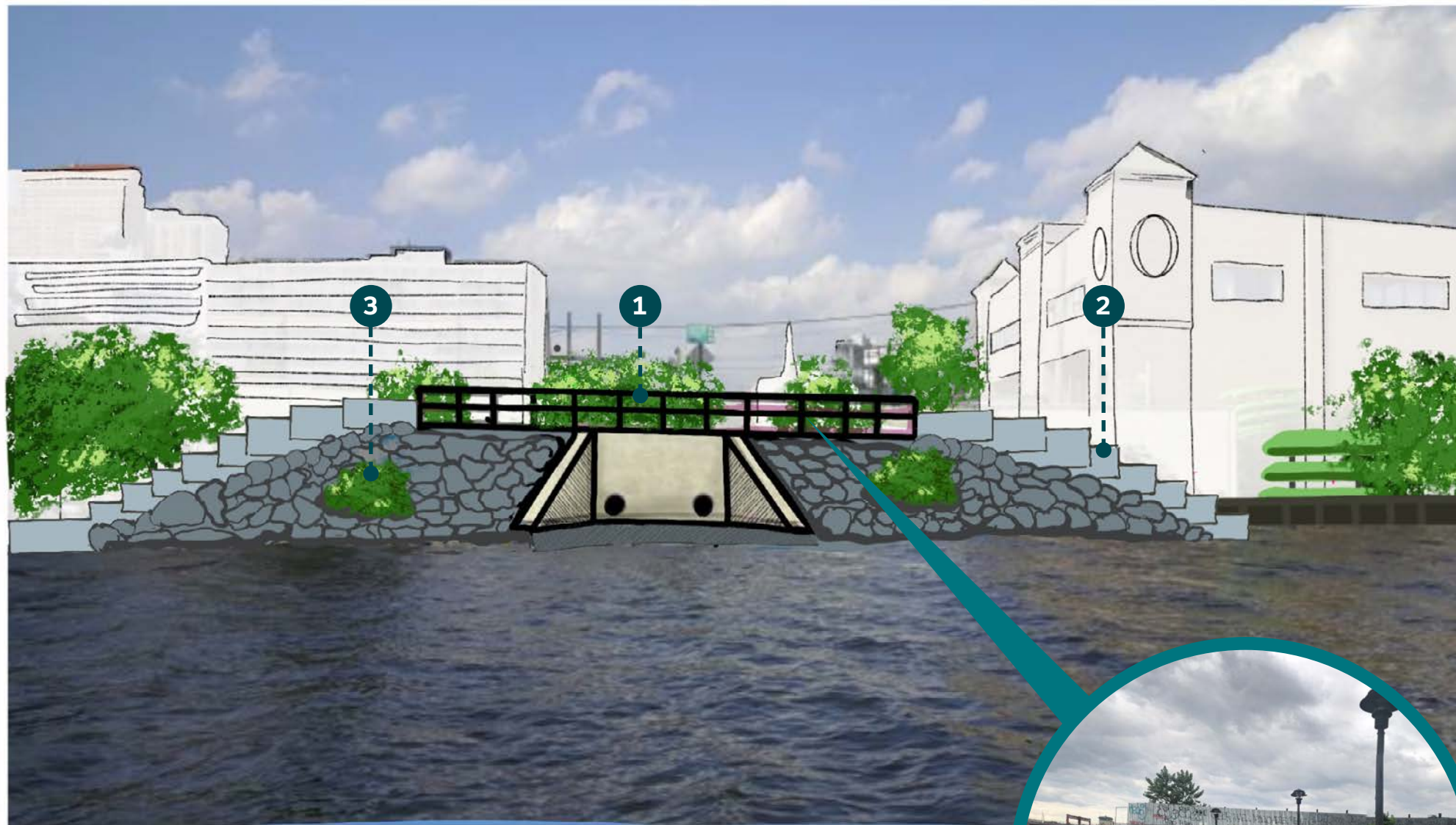
DOT PROPOSAL

Reconstructed Bulkhead



- A RETAINING WALL IS NOT NEEDED ALONG THE ENTIRE LENGTH
- THE EXCESSIVELY TALL HEIGHT CREATES AN EXTREME TRANSITION TO LOW BULKHEADS ON EITHER SIDE AND LIMITS POTENTIAL FOR FUTURE PUBLIC CREEK ACCESS

REVISED PROPOSAL - VIEW FROM CREEK



PROPOSED MODIFICATIONS:

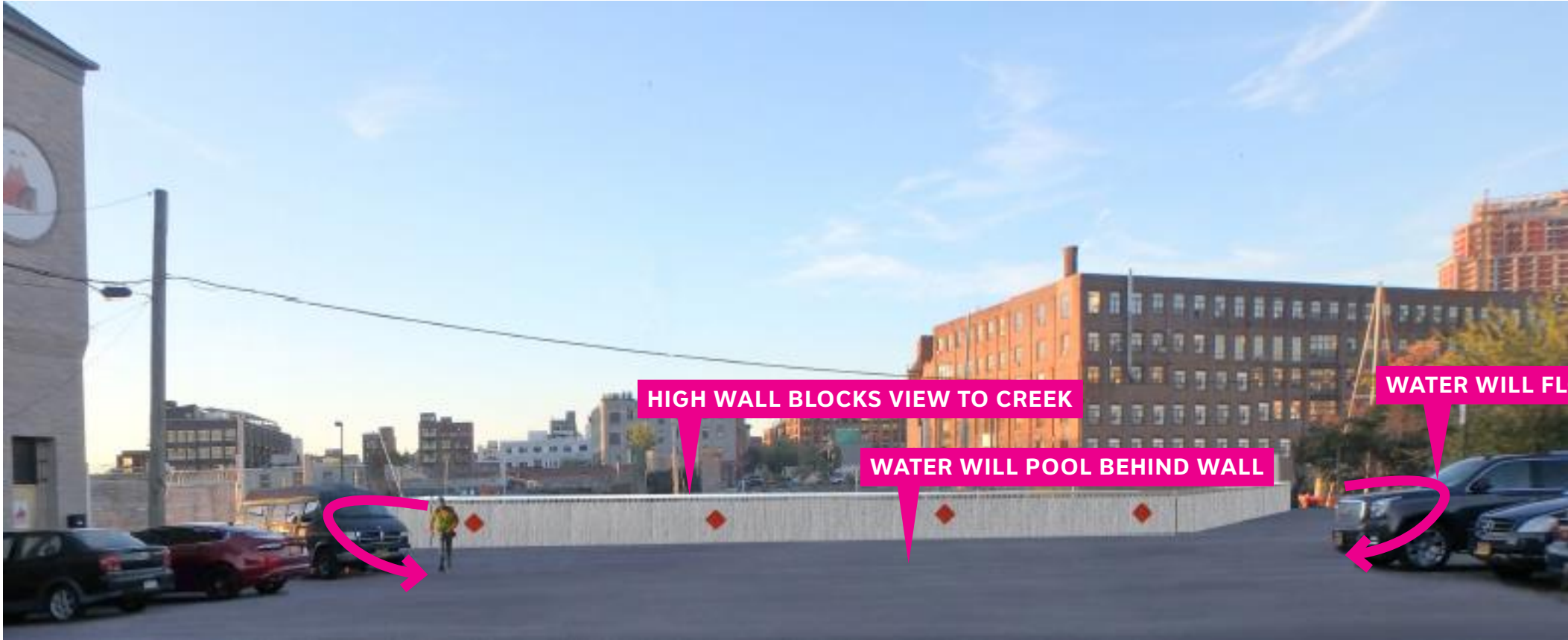
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MANHATTAN AVE STREET END
ON OPPOSITE SIDE OF CREEK

DOT PROPOSAL

Repaved Street End



REVISED PROPOSAL - VIEW FROM STREET



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THANK YOU!