LAST 10 YEARS OF RESEARCH & DESIGN HAS LED US TO UNDERSTAND THE PROPOSED PARK FLOOD AMELIORATION SITES BETTER

TOLL GATE PONDS PARK

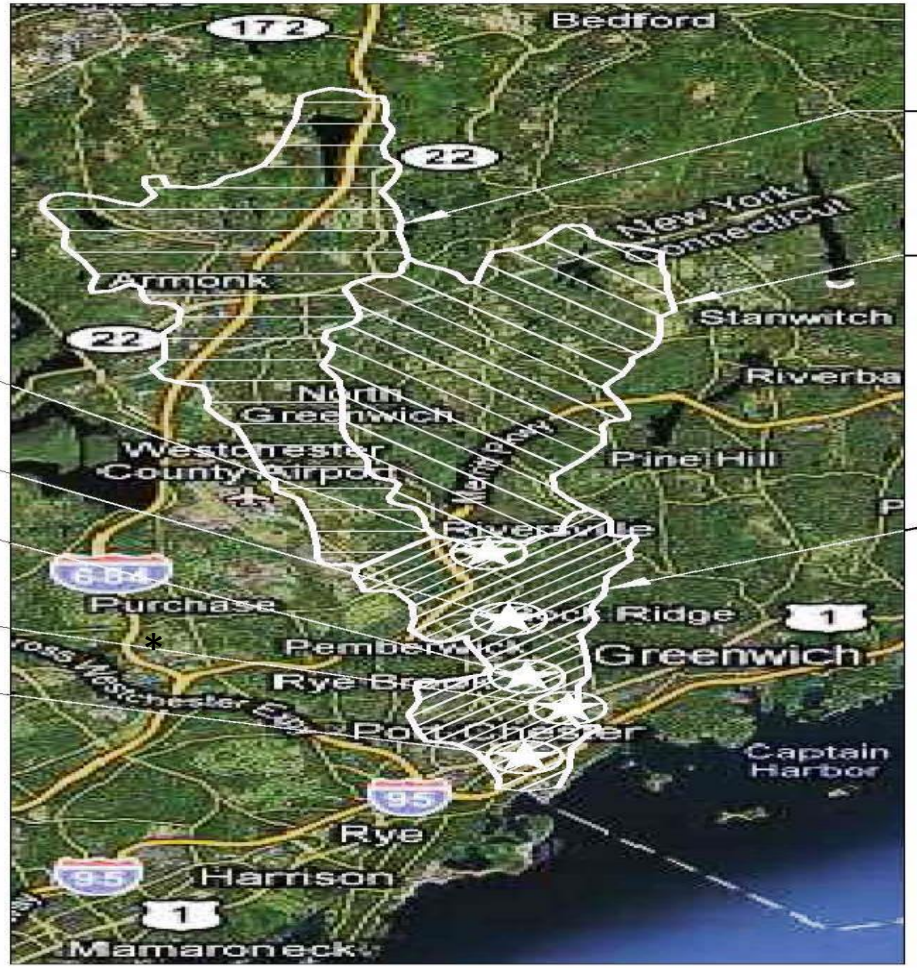
GLENVILLE RIVERSIDE PARK

CAROLINE / MUNSEE PARK

PEMBERWICK BAY

LYON HOUSE PARK

RIVERWALK PARK



Byram River West Branch

Byram River East Branch

Byram River Valley

PARK DESIGN SITES

Basic Criteria

1 All Public Land
2 Choke Point of Shed
3 Detain Site Capacity
4 Retain Site Capacity
5 Infiltrate Site Capacity
6 Recreational Suitable

LONG ISLAND SOUND INSTITUTE PROJECT

CLEANSING RUNOFF & RESTORING SALT MARSHES &BOGS USE OF STRATEGIC DREDGE YIELD PLACEMENT & RCRA APPROVED YIELD

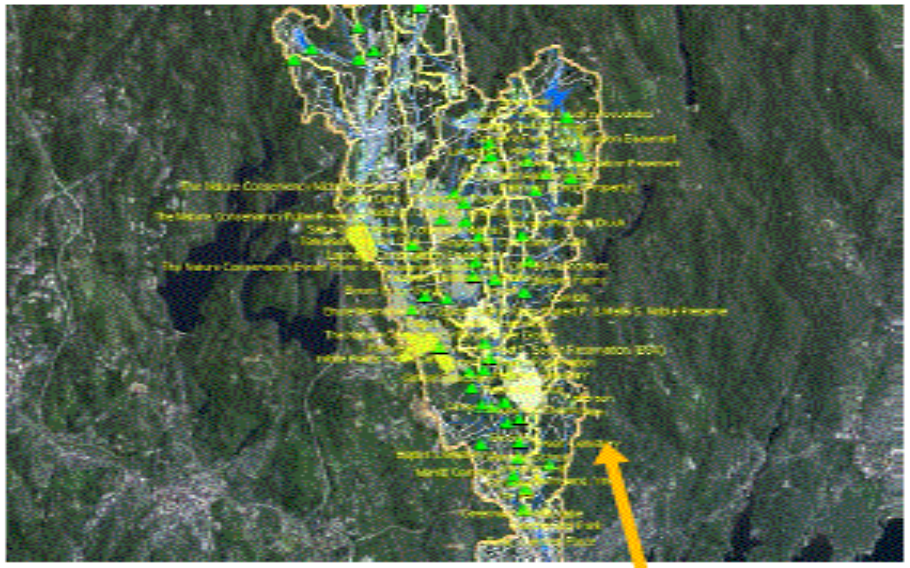
BASE PREMIS EXPLINATION TO EMERGENCY FLOOD EVENT IDA

PETER F. ALEXANDER
LANDSCAPE ARCHITECTURE
ENVIRONMENTAL SITE PLANNING

PETERFALEXANDER.COM
203-869-8632

BYRAM RIVER PARK SYSTEM

NOT TO SCALE



ENTIRE 23 SQUARE MILE WATERSHED OF BYRAM RIVER

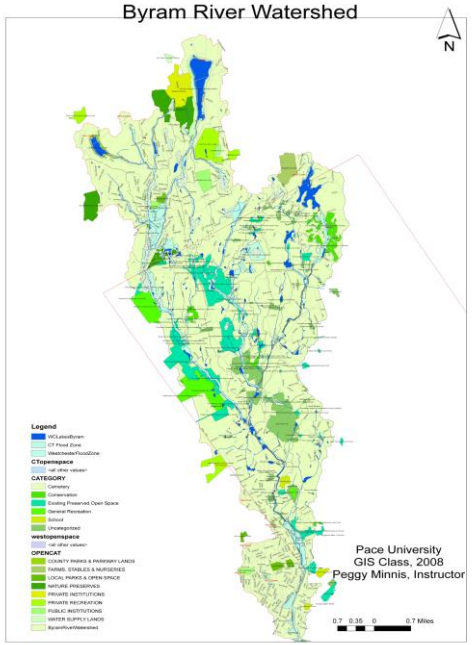
DRAINS THROUGH AN AREA 4 FEET DEEP AND ½ THE SIZE OF TENNIS COURT

TIDAL INFLUENCE AVERAGES 7 '

DREDGE YIELD HAS BEEN TESTED AND IS CLEAN AND CAN BE USED FOR SALT MARSH RESTORATION

Route 1 PORT CHESTER GREENWICH

NY/ACE BRIDGE SITE & end of EMERGENCY RESPONSE



Scenario #1:
Bottom width = 45'
Slope of Channel Bottom = 0.1%
Depth of Channel & Depth of Flow = 0.5'
Channel Side Slopes = 3:1 (horizontal to vertical)
'n' Value = 0.02 (earth)

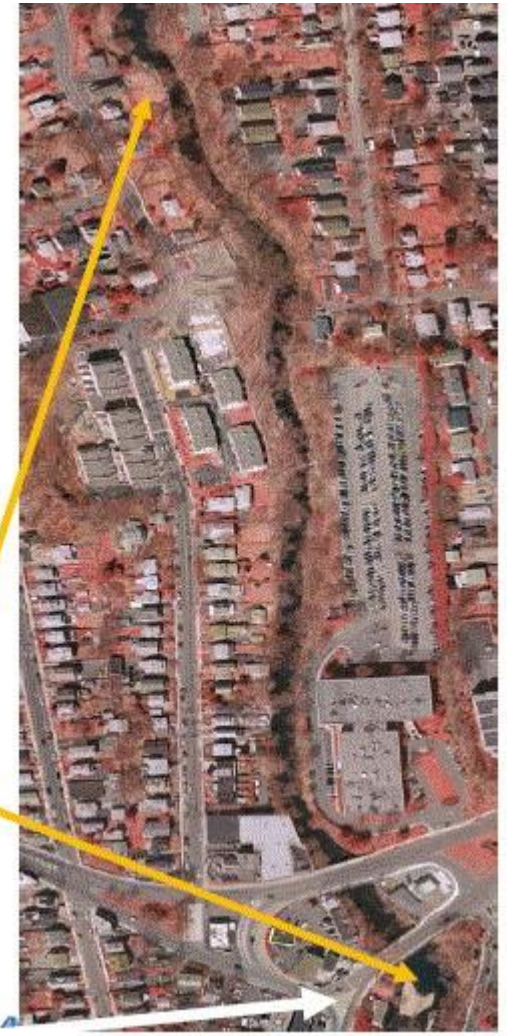
Calculated Values:
Channel Cross Sectional Area = 23.2576 square feet
Full Flow Rate = 33.6216 cubic feet per second
Full Flow Velocity = 1.4456 feet per second

Scenario #7:
Bottom width = 45'
Slope of Channel Bottom = 0.1%
Depth of Channel & Depth of Flow = 7.0'
Channel Side Slopes = 3:1 (horizontal to vertical)
'n' Value = 0.02 (earth)

Calculated Values:
Channel Cross Sectional Area = 463.4848 square fe
Full Flow Rate = 3255.3814 cubic feet per second
Full Flow Velocity = 7.0237 feet per second

MOTIVATION MAP 2008 by

Peggy Minnis & Her Students at Pace thanks
To them it is hard to keep pace with the new
Technology over the last 14 years



NY/ACE BRIDGE SITE & end of EMERGENCY RESPONSE

BASE PREMIS 7' tidal Influence Restricted 23 hours a day restoration will increase flow capacity up to 700% at FLOOD EVENT

Trinkaus Engineering, LLC
314 Hunters Ridge Road
Southbury, Connecticut 06488
203-264-4556 (office)
+1-203-525-5353 (public)
E-mail: strinkaus@earthlink.net
http://www.trinkausengineering.com

April 2, 2022

Long Island Sound Institute
c/o Mr. Peter Alexander, LA
500 West Putnam Avenue
Suite 400
Greenwich, Connecticut 06830

Re: Hydraulic Channel Computations

Dear Peter,

At your request, I have calculated the flow rate for two different channel sections for the Pemberwick Bay.

Scenario #1:
Bottom width = 45'
Slope of Channel Bottom = 0.1%
Depth of Channel & Depth of Flow = 0.5'
Channel Side Slopes = 3:1 (horizontal to vertical)
'n' Value = 0.02 (earth)

Calculated Values:
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Bottom width = 45'
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Channel Side Slopes = 3:1 (horizontal to vertical)
'n' Value = 0.02 (earth)

Calculated Values:
Channel Cross Sectional Area = 463.4848 square feet
Full Flow Rate = 3255.3814 cubic feet per second
Full Flow Velocity = 7.0237 feet per second

Please contact my office with any questions.

Respectfully Submitted,
Trinkaus Engineering, LLC

Steven Trinkaus, PE

Major flood risk management project kicks off on Long Island

New York state officials, along with the Army Corps and project partners, [...]

Read more →

Dredging and Climate Change

The International Association of Dredging Companies (IADC) recently [...]

Read more →

EPA to accelerate cleanup for dozens of Superfund projects

The U.S. Environmental Protection Agency (EPA) recently announced [...]

Read more →

Engineer Trinkhaus is a very Valuable Long Island Sound Watershed Asset

The Terrific Remarkable Modern Technology & Techniques of Implementation still require an understanding of harnessing the unique quality of each Watershed & SubWatershed

My Experience working intermittently with the Corps & my special appreciation for our DEEP here in Connecticut will be honored by having selected him as our Lead Engineer as Specialty PEs will play roles critical to our Project

Engineer Trinkhaus's recent success of effectuating the Thousand Year plus Techniques & incorporating modern physical & regulatory paths will be used in

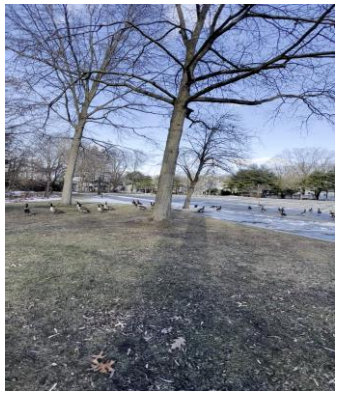
BIDDING PROCESS @ COMMENCEMENT PERMISSION
NEXT STEP
I will produce RFPs for the Channel Occlusion Reduction ProBono & include Firms I have employed in the past for all aspects including Effectuation & would appreciate REVIEW by Selected Response Teams Responsibility Approval

DEN LOCATION AREA PROCESSING

Initial Implementation Analysis indicates bulk of material suitable for Infrastructure Structural Stabilization

1 to 7 35mm Slides ? No Click on each

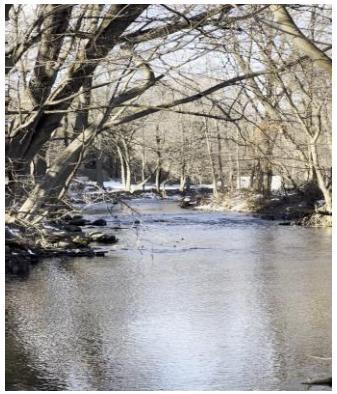
1



4

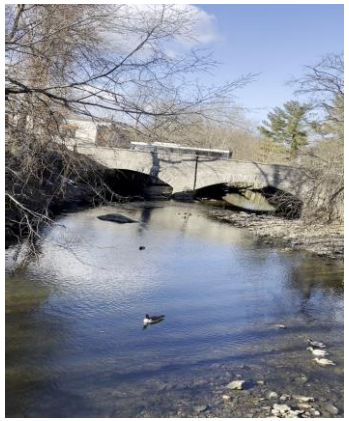
ENTIRELY ON TOWN PROPERTY
NO INTERUPTION

2



5

ACOE/DEEP POTENTIAL STAGING AREA



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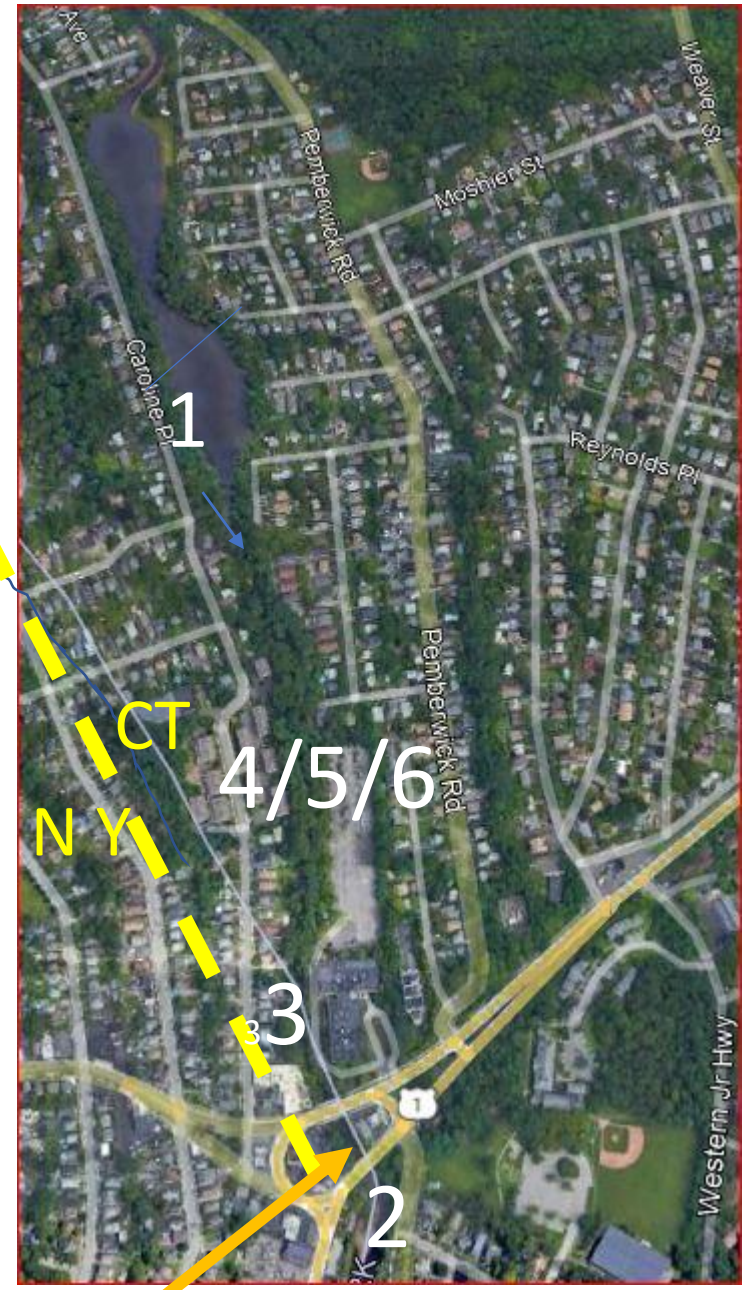
6

7



LISI Long Island Institute

NY/ACE BRIDGE SITE & end of LISI EMERGENCY RESPONSE