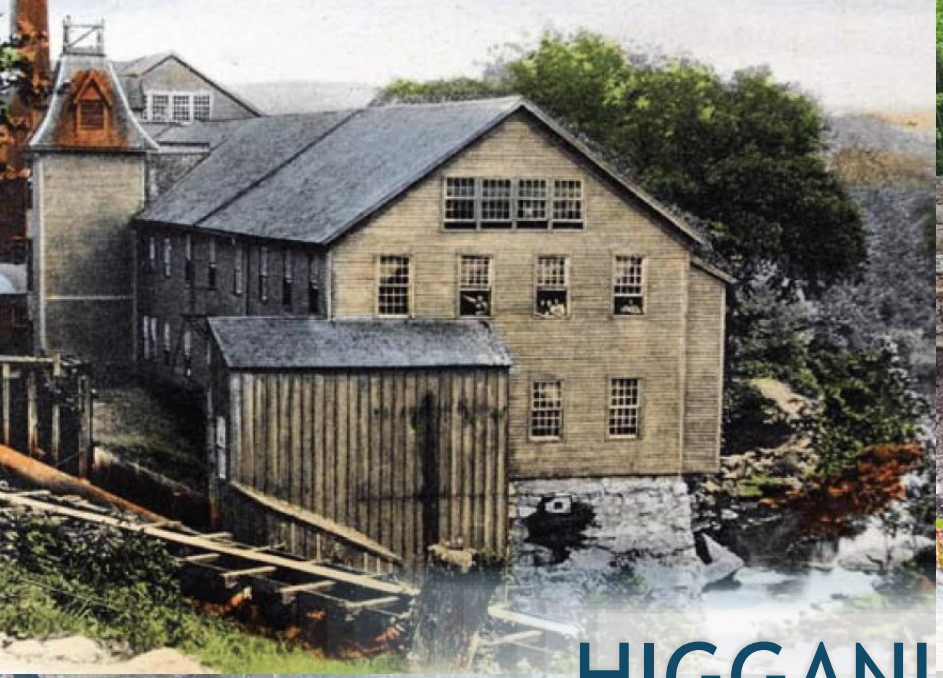


HIGGANUM COVE

WILLIAM KENNY ASSOCIATES
LANDSCAPE ARCHITECTURE ▪ ECOLOGICAL SERVICES

1899 Bronson Road Fairfield CT 06824
203 366 0588 www.wkassociates.net

LANDSCAPE ARCHITECTURE
KENT+FROST
1 HIGH STREET MYSTIC, CT 06355

CCAPA Awards

Each year the Connecticut Chapter of the American Planning Association invites nominations for its annual Planning Awards to showcase outstanding projects, people and places.

Recurring awards include the Bruce Hoben Distinguished Service Award given in memory of Bruce Hoben, whose selfless involvement with and longtime leadership in the Chapter along with his many contributions to the practice of planning in Connecticut, truly exemplify the spirit of distinguished service.

Register now for CCAPA's 2022 Holiday Lunch & Awards Ceremony December 16th in Middletown. Keynote Speaker: Alyssa Norwood, Connecticut Age Well Collaborative. AICP-credentialed planners will earn .5 CM credits for attending.

Congratulations to 2022's Planning Award Recipients!

City of Bridgeport - "Cutting Edge Code Award" for their user-friendly, digitized code tied to the on-line GIS. ZoneBridgeport.com

CIRCA "Best Statewide Planning Program Award" for Resilient CT - multi-pronged vulnerability assessment focused on flooding and extreme heat, and identification of climate adaptation and resilience opportunity areas; resulting in concept designs that are commencing in seven municipalities (Ansonia, Branford, Danbury, Fairfield, New Haven, Norwalk, Stratford) with unmet climate change-driven needs

Town of Fairfield - "Engaging with Graphics Award" for the Post Road Circle Study.

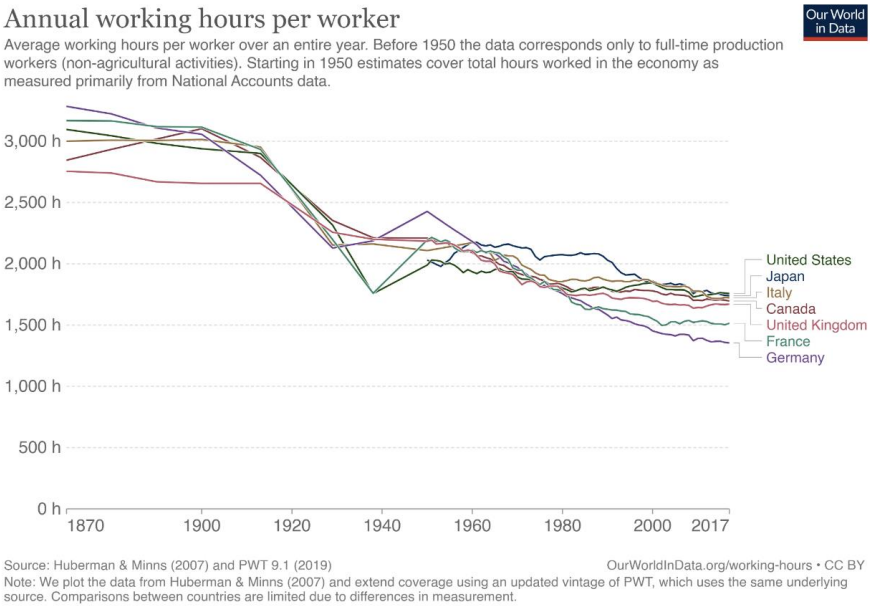
City of Hartford - Sandy Fry- "The Power of One Planning Award" for her passion of bike- pedestrian planning and traffic calming community outreach in the Hartford neighborhoods. Slow Streets Hartford Project- Hampton Street.

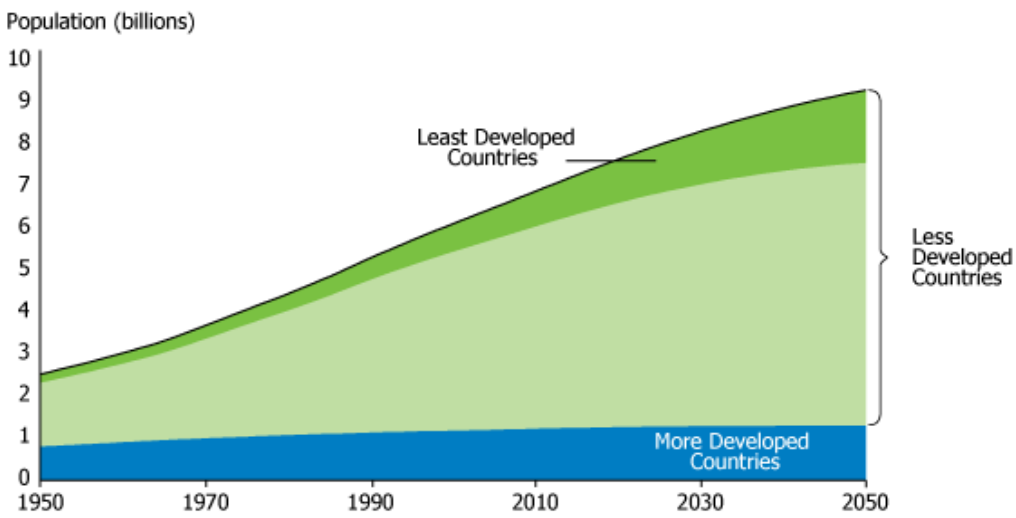
Town of Haddam "Exemplary Site-Specific Master Plan Award" for the Higganum Cove Park Project. For many years, planning has gone on working towards their vision of a town park to be used for passive recreation and educational activities while protecting the natural features found in the Cove. In 2021, the Higganum Cove Advisory Committee was created in 2021 to oversee the development of a park at the Town-owned Higganum Cove.

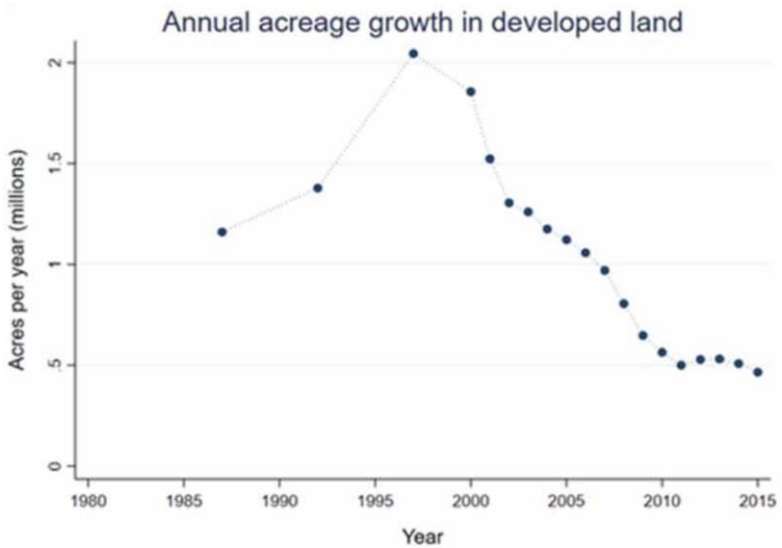
"Working with nature – instead of in opposition to it – helps communities become more resilient and come back stronger after disruptive natural events. Long-term resilience is about continuously bouncing back and regenerating, It's about learning how to cope with the ever-changing "new normal."

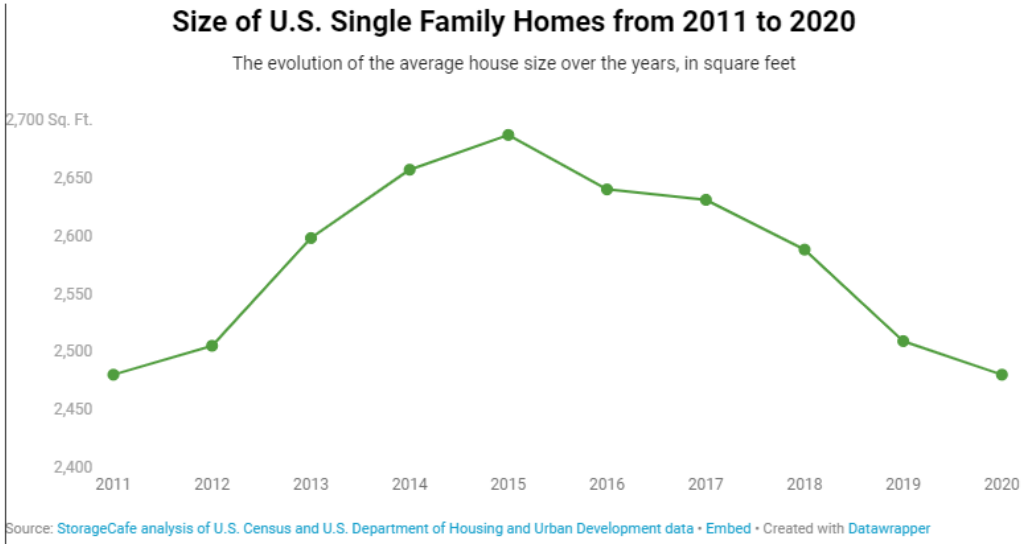
"In an age of rising waters and temperatures and diminishing budgets, the best defenses are adaptive, like nature."

Resilient Design, CTASLA, Aaron King & Jared Green
https://www.asla.org/resilientdesign.aspx

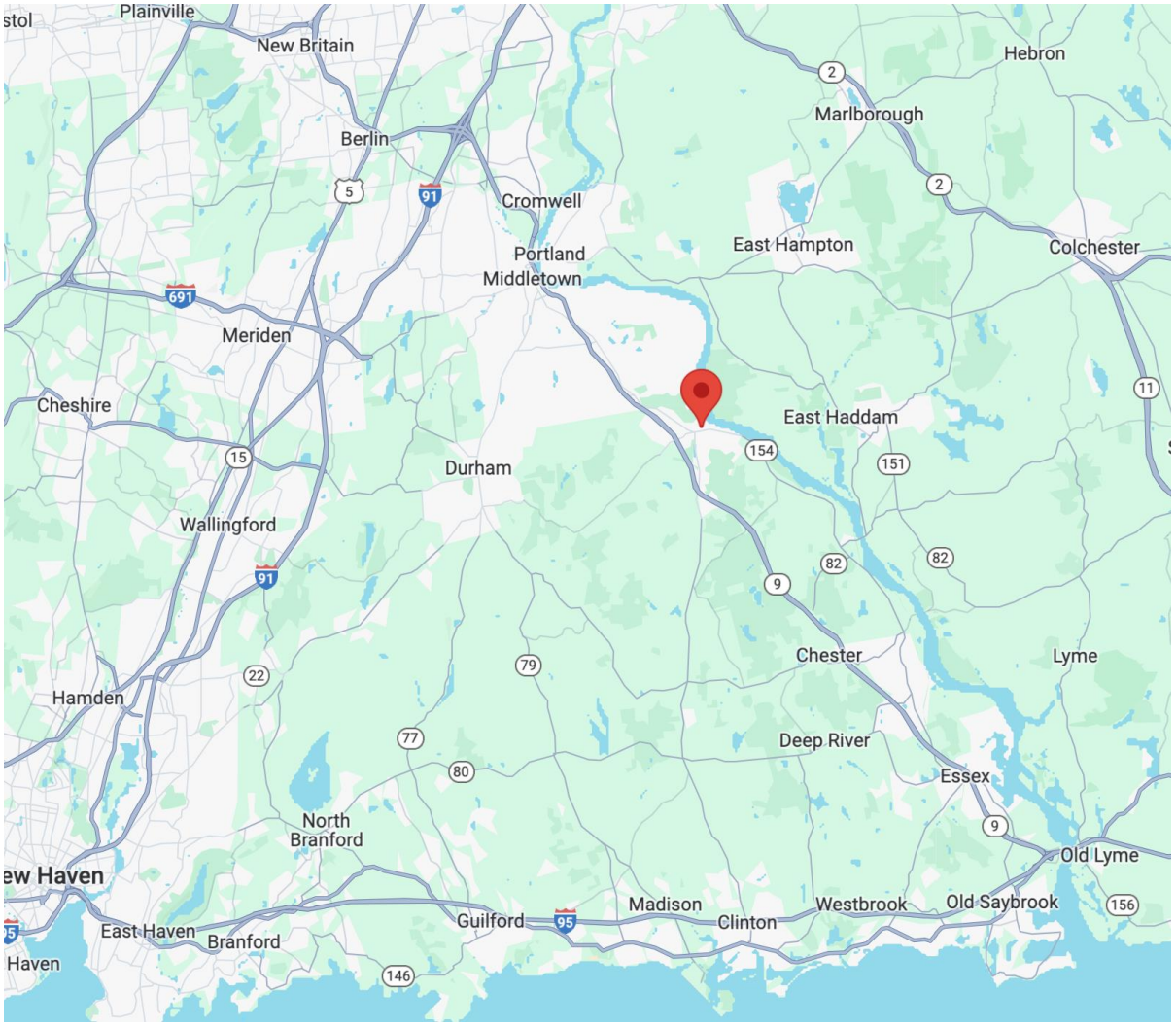

Annual working hours per worker
Average working hours per worker over an entire year. Before 1950 the data corresponds only to full-time production workers (non-agricultural activities). Starting in 1950 estimates cover total hours worked in the economy as measured primarily from National Accounts data.
Our World in Data
3,000 h
2,500 h
2,000 h
1,500 h
1,000 h
500 h
0 h
1870
1900
1920
1940
1960
1980
2000
2017
United States
Japan
Italy
Canada
United Kingdom
France
Germany
Source: Huberman & Minns (2007) and PWT 9.1 (2019)
OurWorldInData.org/working-hours • CC BY
Note: We plot the data from Huberman & Minns (2007) and extend coverage using an updated vintage of PWT, which uses the same underlying source. Comparisons between countries are limited due to differences in measurement.


Population (billions)
10
9
8
7
6
5
4
3
2
1
0
1950
1970
1990
2010
2030
2050
Least Developed Countries
More Developed Countries
Less Developed Countries


Annual acreage growth in developed land
Acres per year (millions)
0
.5
1
1.5
2
1980
1985
1990
1995
2000
2005
2010
2015
Year


Size of U.S. Single Family Homes from 2011 to 2020
The evolution of the average house size over the years, in square feet
2,700 Sq. Ft.
2,650
2,600
2,550
2,500
2,450
2,400
2011
2012
2013
2014
2015
2016
2017
2018
2019
2020
Source: StorageCafe analysis of U.S. Census and U.S. Department of Housing and Urban Development data • Embed • Created with Datawrapper

Higganum Cove



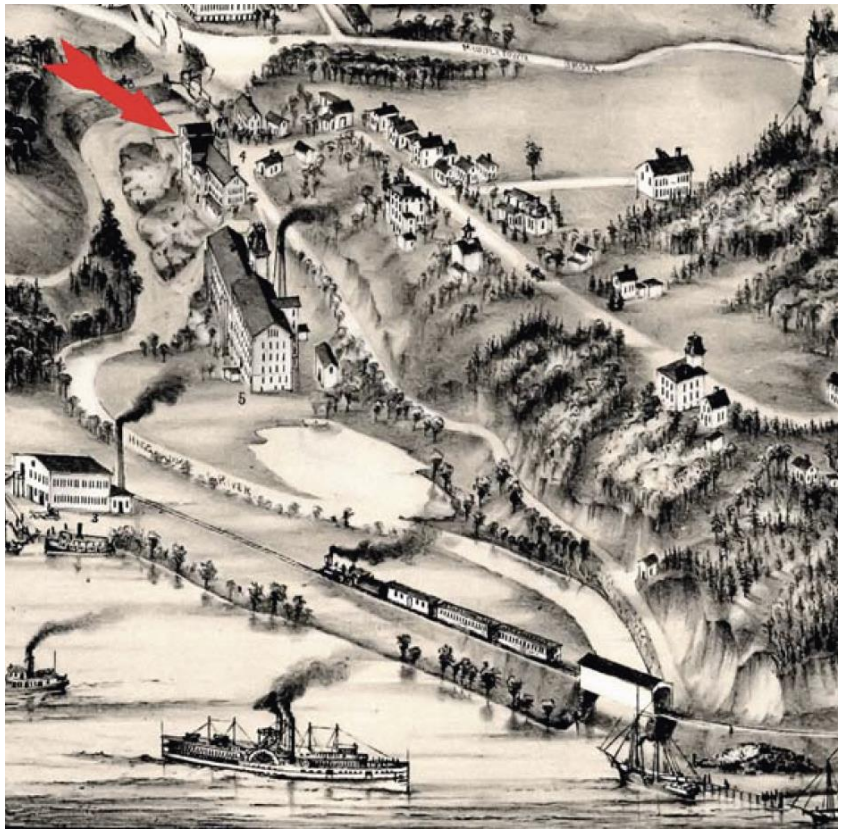
Timeline

- 1600s – Grist Mill
- 1840s – Mill Products - dyeing fabrics/yarn, bridge netting, marine paints, and mimeograph (carbonless copy) paper
- 1983 – Last occupant of the site, Frismar, went out of business
- 1989 – Fire destroyed the former mill building
- 1990 – Scrap brick & metal recovered from site. On site wetlands were illegally filled in with this debris, household garbage, and possibly hazardous waste
- 1995 – Site entered the State Superfund Program
- 2014 - EPA, DEEP, and Town of Haddam began collaboration on project
- 2014-2015 – EPA excavated about 8, 4000 tons of contaminated soil
- 2015 – WKA Wetland and upland restoration
- 2021 – Higganum Cove Advisory Committee created to oversee development of the park at Higganum Cove
- 2022 –Landscape Master Plan, Kent + Frost
- 2023 – Park Construction begins

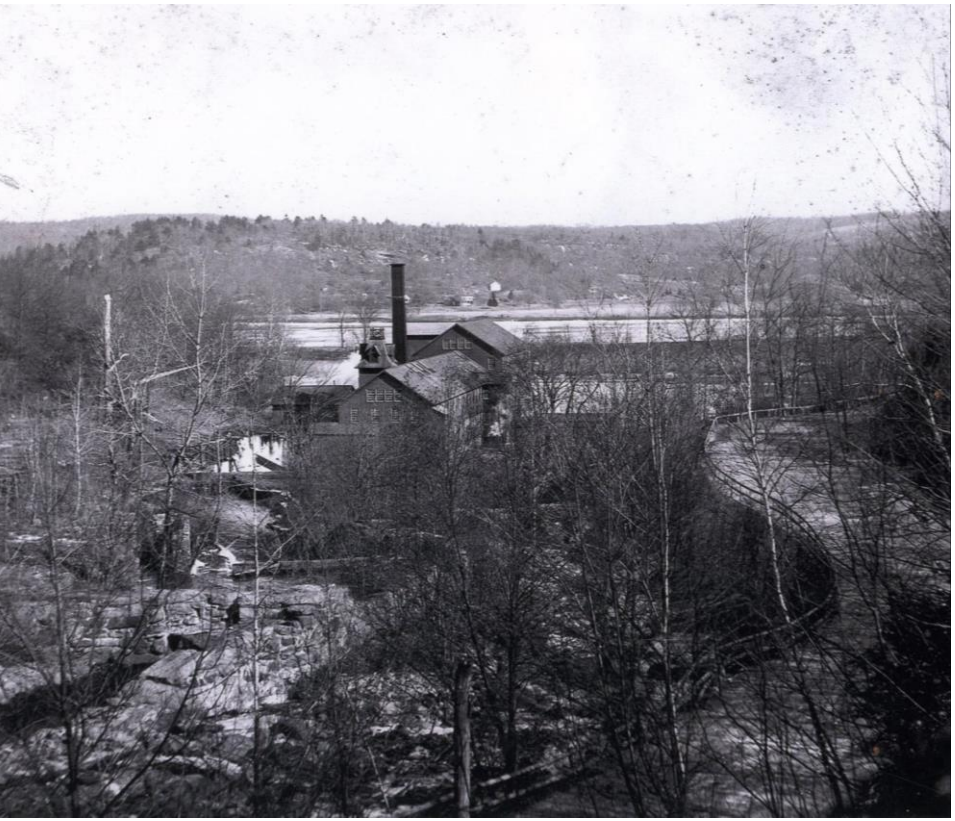
Higganum Cove

The Mill

Higganum Cove

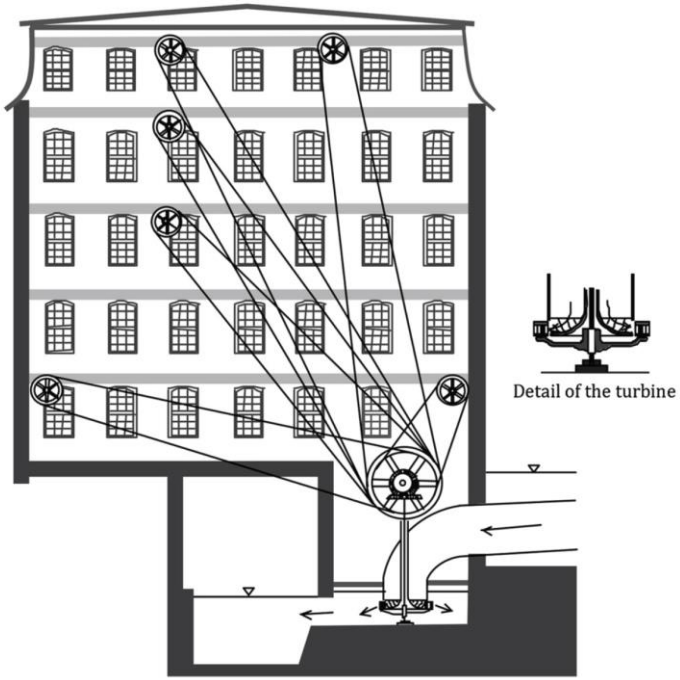


The Mill



Higganum Cove

COTTON MILL, HIGGANUM, CONN.


Detail of the turbine

TheMiddletownPress

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NEWS

EPA set to clean up Higganum Cove Superfund site

June 23, 2014

Courtesy Melissa Schlag The Environmental Protection Agency is cleaning up Higganum Cove.
Journal Register Co.

Most Popular

1. Warrant: Fired CT day care worker threw toddler, causing head injury
2. Middletown High students protest unsatisfactory access to restrooms
3. Middletown Beman Middle School principal back after out on leave
4. New restaurant and banquet hall to open in Cromwell in February
5. Judge approves Trump's $92 million bond to cover jury award in E. Jean Carroll defamation case

Superfund Cleanup

Higganum Cove

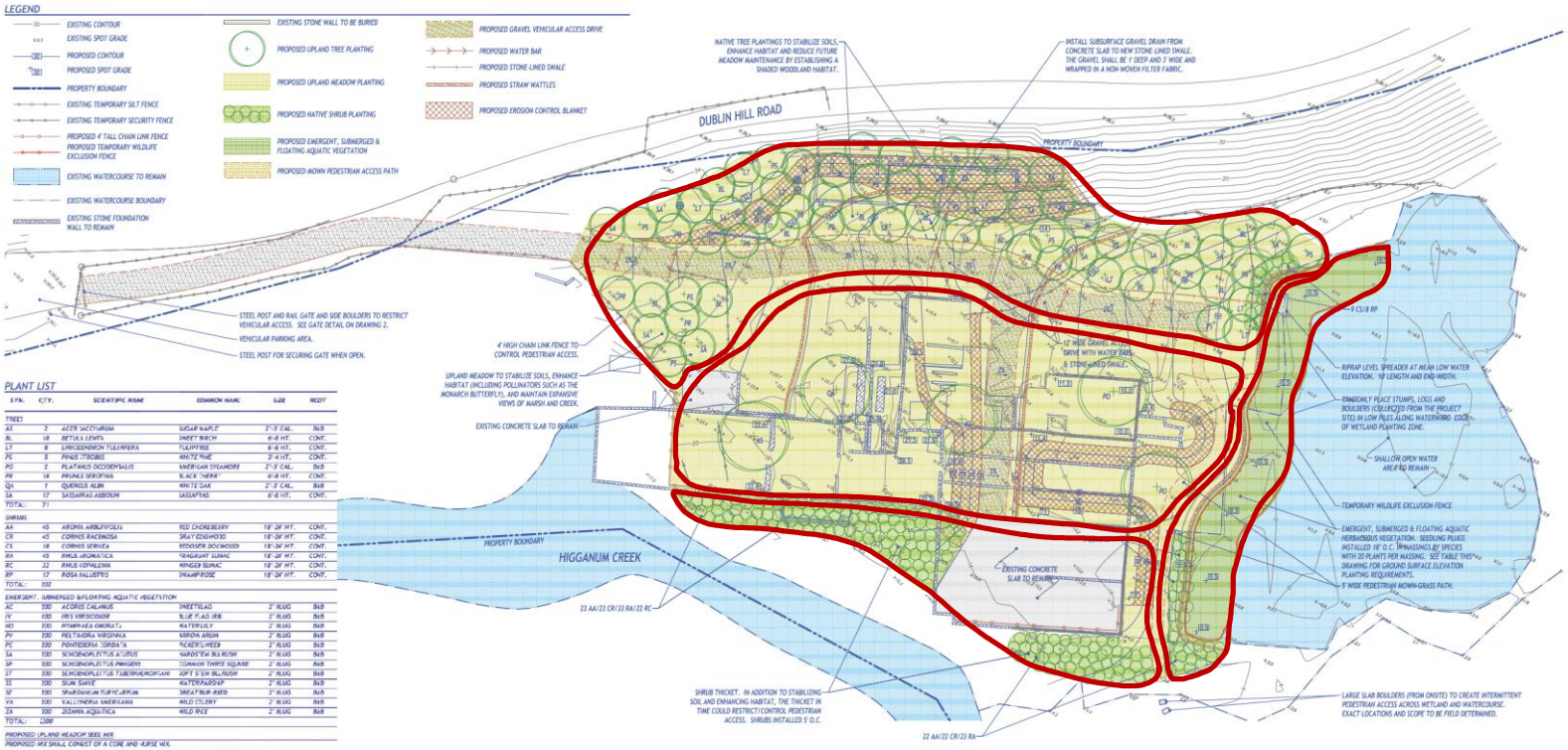
Higganum Cove

Higganum Cove

Superfund Cleanup

Higganum Cove

Superfund Cleanup
Higganum Cove



PLANT LIST

SYM.	QTY.	SCIENTIFIC NAME	COMMON NAME	SIZE	MCDT
TREES					
AS	2	ACER SACCHARUM	SUGAR MAPLE	2"-3" CAL.	B&B
BL	18	BETULA LENTA	SWEET BIRCH	6'-8' HT.	CONT.
LT	8	LIRIODENDRON TULIPIFERA	TULIPTREE	6'-8' HT.	CONT.
PS	5	PINUS STROBUS	WHITE PINE	3'-4' HT.	CONT.
PO	2	PLATANUS OCCIDENTALIS	AMERICAN SYCAMORE	2"-3" CAL.	B&B
PW	18	PRUNUS SEROTINA	BLACK CHERRY	6'-8' HT.	CONT.
QA	1	QUERCUS ALBA	WHITE OAK	2"-3" CAL.	B&B
SA	17	SASSAFRAS ALBIDUM	SASSAFRAS	6'-8' HT.	CONT.
TOTAL:	71				
SHRUBS					
AA	45	ARONIA ARBUTIFOLIA	RED CHOKEBERRY	18"-24" HT.	CONT.
CR	45	CORNUS RACEMOSA	GRAY DOGWOOD	18"-24" HT.	CONT.
CS	18	CORNUS SERICEA	RED OSIER DOGWOOD	18"-24" HT.	CONT.
RA	45	RHUS AROMATICA	FRAGRANT SUMAC	18"-24" HT.	CONT.
RC	22	RHUS TYPHALINA	HINGED SUMAC	18"-24" HT.	CONT.
RP	17	ROSA PALUSTRIS	SWAMP ROSE	18"-24" HT.	CONT.
TOTAL:	192				
EMERGENT, SUBMERGED & FLOATING AQUATIC VEGETATION					
AC	100	ACORUS CALAMUS	SWEETFLAG	2" PLUG	B&B
IV	100	IRIS VERSICOLOR	BLUE FLAG IRIS	2" PLUG	B&B
NO	100	NYMPHAEA ODORATA	WATERLILY	2" PLUG	B&B
PV	100	PELTANDRA VIRGINICA	ARROW ARUM	2" PLUG	B&B
PC	100	PONTEDERIA CORDATA	PICKEREL WEED	2" PLUG	B&B
SA	100	SCIRPUS CYPERINUS	WOOLGRASS BULRUSH	2" PLUG	B&B
SP	100	SCIRPUS PANICEUS	COMMON THREE SQUARE	2" PLUG	B&B
ST	100	SCIRPUS TABERNAEMONTANI	SOFT STEM BULRUSH	2" PLUG	B&B
SE	100	SIUM SUAVE	WATERPARSNIP	2" PLUG	B&B
SF	100	SPARGANIUM EURYCARPUM	GREAT BUR-REED	2" PLUG	B&B
VA	100	VALLISNERIA AMERICANA	WILD CELERY	2" PLUG	B&B
ZA	100	ZIZANIA AQUATICA	WILD RICE	2" PLUG	B&B
TOTAL:	1300				

PROPOSED UPLAND MEADOW SEED MIX

PROPOSED MIX SHALL CONSIST OF A CORE AND NURSE MIX.

CORE MIX "NEW ENGLAND CONSERVATION/WILDLIFE MIX" AS PRODUCED BY NEWENGLAND WETLAND PLANTS (WWW.NEWP.COM). APPLIED AT A RATE OF 1 LB/ .750 SQUAREFEET. MUST INCLUDE COMMON MILKWEED.

NURSE MIX: ANNUAL RYEGRASS (LOLIUM MULTIFLORUM). APPLIED AT A RATE OF 10 LBS/ 1 ACRE.

GENERAL NOTES

1. UNLESS NOTED OTHERWISE, EXISTING CONDITIONS INFORMATION TAKEN FROM A DRAWING PREPARED BY KRATZERT, JONES & ASSOCIATES, INC.
2. PROPOSED SITE RESTORATION INFORMATION PROVIDED BY WILLIAM KENNY ASSOCIATES LLC.
3. PLEASE SEE DRAWING 2 OF 2 FOR SITE RESTORATION SPECIFICATIONS AND DETAILS.

GROUND SURFACE ELEVATION PLANTING REQUIREMENTS FOR EMERGENT, SUBMERGED & FLOATING AQUATIC VEGETATION

SCIENTIFIC NAME	COMMON NAME	GROUND SURFACE ELEVATION	
		HIGH	LOW
ACORUS CALAMUS	SWEETFLAG	1.5	1
IRIS VERSICOLOR	BLUE FLAG IRIS	1.5	1
NYMPHAEA ODORATA	WATER LILY	0.5	-1.5
PELTANDRA VIRGINICA	ARROW ARUM	1.5	0.5
PONTEDERIA CORDATA	PICKEREL WEED	1.5	0.5
SCIRPUS CYPERINUS	WOOLGRASS BULRUSH	1.5	-1.5
SCIRPUS PANICEUS	COMMON THREE SQUARE	1.5	1
SCIRPUS TABERNAEMONTANI	SOFT STEM BULRUSH	1.5	0.5
SIUM SUAVE	WATER PARSNIP	1.5	1
SPARGANIUM EURYCARPUM	GREAT BUR-REED	1.5	0.5
VALLISNERIA AMERICANA	WILD CELERY	1.5	-0.5
ZIZANIA AQUATICA	WILD RICE	0	-3.5

WILLIAM KENNY ASSOCIATES LLC
SOIL SCIENCE
ECOLOGICAL SERVICES
LAND USE PLANNING
LANDSCAPE ARCHITECTURE

195 TUNXIS HILL ROAD
FAIRFIELD, CT 06825
PHONE: 203 366 0588
FAX: 203 366 0667
www.wkassociates.net

SITE RESTORATION PLAN

LOCATION:
HIGGANUM COVE
19 NOSAL ROAD
HADDAM, CONNECTICUT

DATE: JULY 14, 2015

SCALE: 0 10' 20'

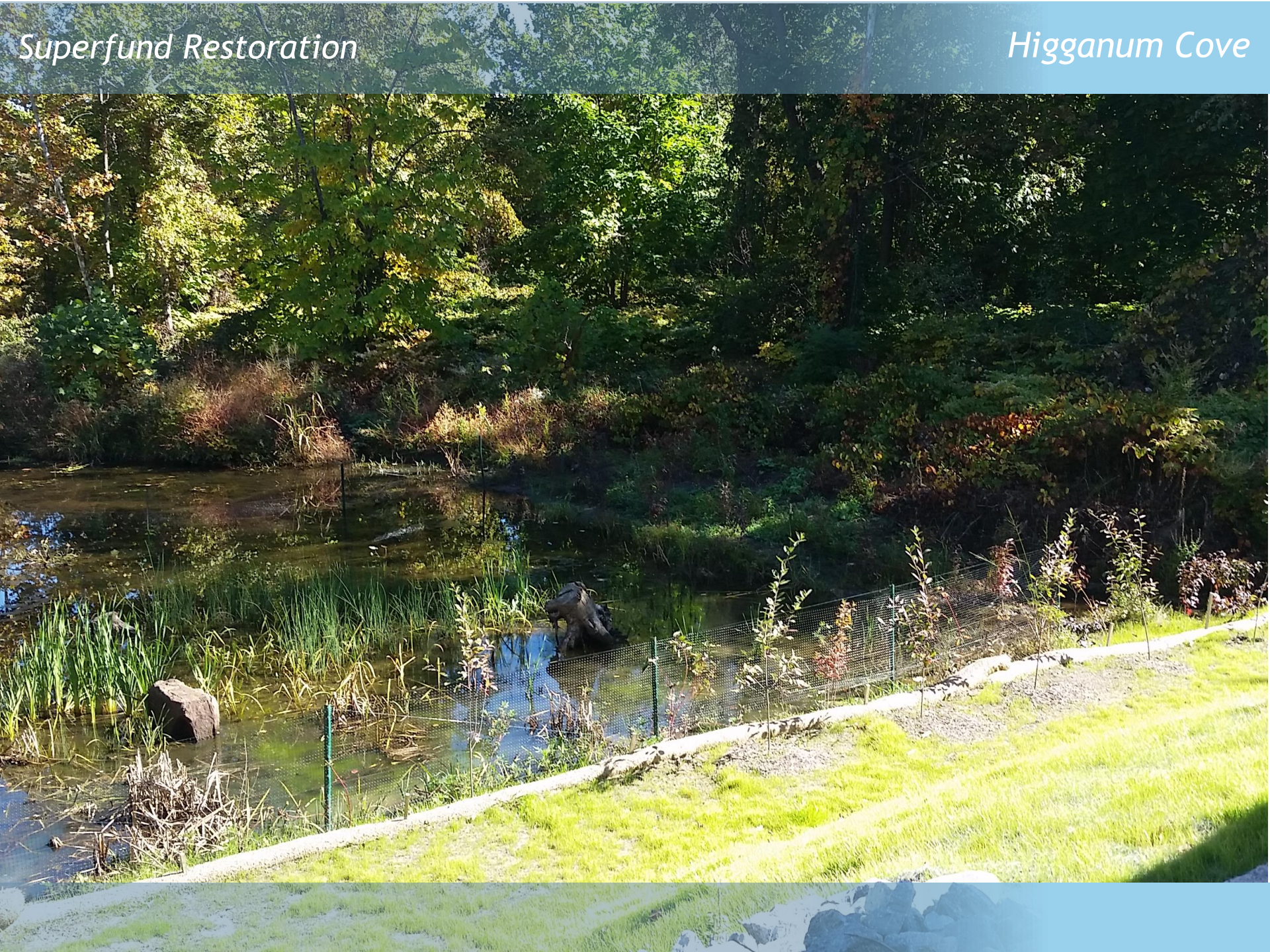
DRAWING NO:
1 of 2

REF. NO. 3069

Superfund Restoration

Higganum Cove

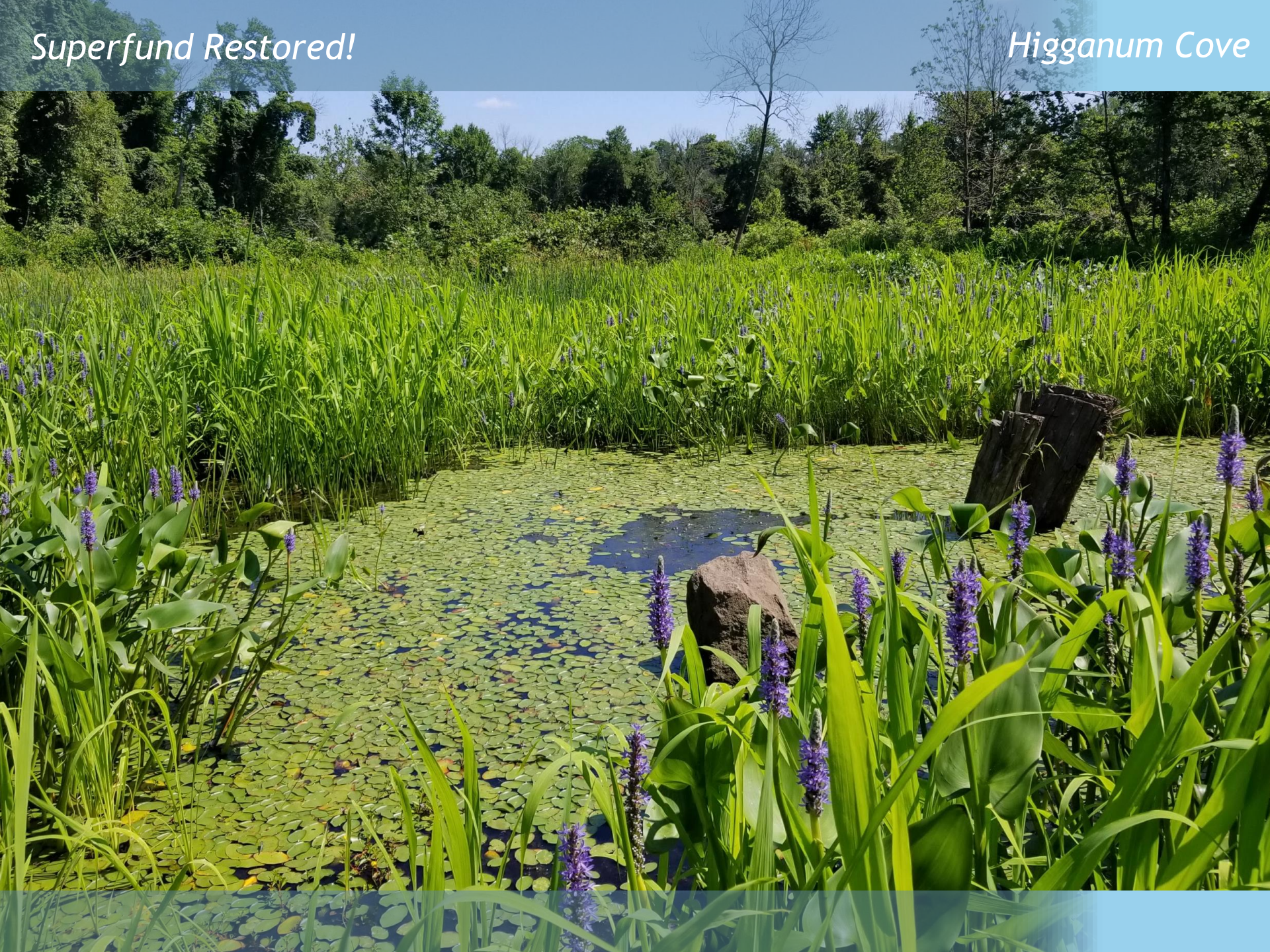
Superfund Restoration
Higganum Cove


Superfund Restoration
Higganum Cove

Superfund Restored!
Higganum Cove

Superfund Restored!
Higganum Cove

Superfund Restored!
Higganum Cove


Superfund Restored!
Higganum Cove

Higganum Cove
MASTER PLAN

Initial Programming Elements & Ideas		TOPICS					
		Bill Warner	Peter Baird	Dan Orisini	Ed Schwing	Tim Teran	Steve Gephard
Litter Receptacles		◆					
Restroom/CompostingToilet		◆					
Septic System						◆	
Timber Guide Rail from Parking down		◆					
Entry Gate		◆					
Entry Sign		◆					
Entry Sign w/ Rules		◆					
Welcome Sign w/ Maps						◆	
Local Connections Map			◆				
Terraced Seating		◆					
Picnicking	◆						
Cove Boardwalk		◆	◆		◆		◆
Educational Activities	◆						
Appropriate Events	◆						
Historical Exhibits - Mills	◆						◆
Environmental Exhibits - Ecology	◆		◆				◆
Environmental Exhibits - Geology			◆				
Power Source		◆				◆	
Water Source		◆				◆	
Daffodils		◆					
Wildflowers/shrubs			◆	◆			◆
Native Low Maintenance Plantings		◆	◆				
Mowable Lawn		◆					
Accessible Walking Trails				◆			
Rail Trails			◆				
Hiking Trails			◆				
Security Lighting				◆			
Site Lighting/Entry Sign Lighting						◆	
Remove Graffiti/prevent more				◆			
Views of River & Cove				◆			◆
Swimming Hole/Depot Rd Access		◆					

Initial Programming Elements & Ideas		TOPICS					
		Bill Warner	Peter Baird	Dan Orisini	Ed Schwing	Tim Teran	Steve Gephard
Bird Watching	◆	◆	◆		◆		◆
Bird Boxes		◆					
Osprey platform		◆					
Fishing	◆	◆	◆				
Hiking	◆				◆		
Kayak Launching	◆			◆	◆	◆	◆
Walkable Connections to Village	◆						
Walkable Path to Upper Ruins		◆					
Pavilion	◆	◆			◆		◆
Pavilion at Water Tower			◆				
Gazebo		◆					
Bandshell		◆	◆				
Viewing Stations	◆				◆		◆
Nature Center/café						◆	
Viewing Platform / Mill Ruins			◆		◆		◆
Stream View - Below Waterline			◆				
Picnic Tables		◆		◆			
Benches		◆					
Bike Rack		◆					
Bike Repair Station			◆				
Grills		◆					

Higganum Cove Park Design Guidelines
31
DUBLIN HILL ROAD
DEPOT ROAD
HIGGANUM CREEK
HIGGANUM COVE WETLAND
N
Legend:
1 Parking Area – 9 spaces
2 Gateway – Sign Kiosk, Bollard
3 Upper Ruins Path
4 Thematic Wildflower Area
5 Main Path w/ Guardrail
6 Seating Area/Overlook
7 River & Turbine Viewing/Interpretive Platform
8 Mill History/Activity Area 30' x 40'
9 Intermediate Level
10 Stone Masonry Interpretive Area
11 Park Overlook/Bench
12 Lawn
13 Picnic Pavilion/Classroom
14 Planting and/or Interpretive area
15 Kayak Put-In
16 Performance Stage/Cove Viewing, Benches
17 Cove Boardwalk
18 Riverwalk Trail
19 30 x 30 Viewing Platform
20 Downstream Kayak Put-In

Higganum Cove

Higganum Cove

Higganum Cove Foundation

Higganum Cove Foundation

Higganum Cove

Town Park Construction

Higganum Cove

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