## Town Facilities @ One Rod Highway Fairfield, CT.

#### UConn's presentation will include:

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- UConn's Role on Project
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- Location
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- Succession Growth
- Riparian Buffer
- Bio-diversity Patterns

#### 6. Next steps



### 1. Project Team and Mission

UConn's Community Research & Design Collaborative (CRDC) is the umbrella organization for the outreach work of the landscape architecture faculty.

- Our mission is to be a regional leader in sustainable planning and design. We help our client's plan and design affordable, equitable, and ecologically healthy environments.
- Our mission is accomplished by providing our client's with objective, multi-disciplinary, state-of-the-art planning and design expertise.
- We promote and encourage academic-based collaborative research (service learning) with an emphasis on "real world" projects as they apply to sustainable development.



The Fairfield Team from left to right: Adjunct Instructor Natalie Miniutti,
Associate Professor Peter Miniutti and Graduate Student Samantha Stewart.



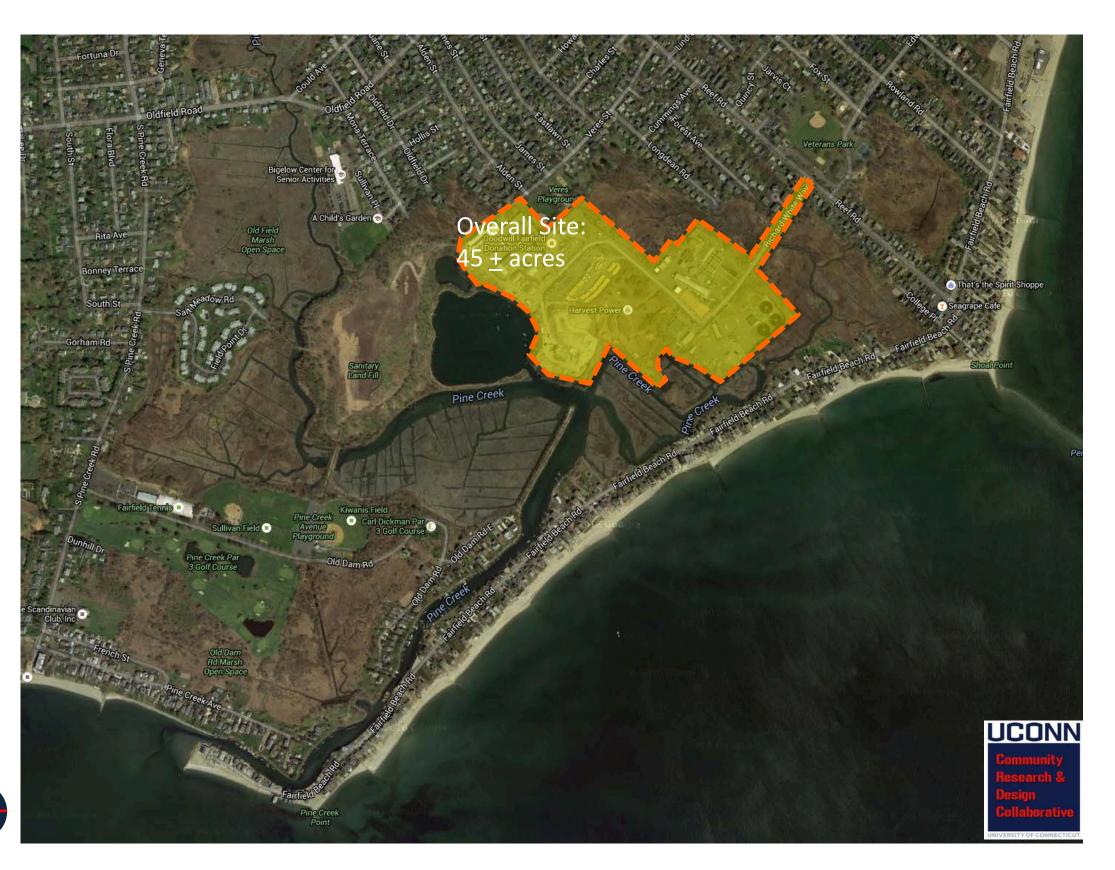
### 1. UConn's Role on Project

- <u>Facilitate</u> communication between the public and town officials for the mitigation of some of the uses at the Town Facilities @ One Rod Highway:
  - Visual impact of fill operation and tree operation
  - Sound control
  - Wildlife concerns
- <u>Coordinate</u> the work efforts of town officials (Joe and Scott), contractors working at the town facility and consultants working on the mitigation project.
- <u>Create</u> an intervention that will allow the existing uses to continue while reducing the negative impact(s) on the adjacent neighborhoods.

My definition of landscape architecture is the creation of meaningful and memorable exterior spaces.



# 1. Project Site - Context





# 1. Project Site - Photographs









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# 2. Audience Input - Location









### 2. Survey 1

**Comments:** Unacceptable The views to the *Fill Area* in the summer months are: 10 (good) Unacceptable The views to the Fill Area in the winter months are: **•** 0 (bad) 10 (good) Unacceptable The views to the <u>Tree Operation Area</u> in the summer months are: **•** 10 (good) Unacceptable The views to the Tree Operation Area in the winter months is: 0 (bad) 10 (good) Unacceptable The \_\_\_\_\_ from the <u>Fill Area</u> in the summer months is: 

**A** Views

The \_\_\_\_\_from the Fill Area in the summer months is:

O (bad)

The \_\_\_\_\_from the Fill Area in the winter months is:

O (bad)

Unacceptable

O (bad)

Unacceptable

O (bad)

The \_\_\_\_\_from the Tree Operation Area in the summer months is:

O (bad)

Unacceptable

Unacceptable

Unacceptable

O (bad)

**B** Other

My overall environmental concerns regarding the Fill Area are:

0 (low) 5 (moderate) 10 (high)

My water quality concerns regarding the Fill Area are:

0 (low) 5 (moderate) 10 (high)

My wildlife health concerns regarding the Fill Area:

0 (low) 5 (moderate) 10 (high)

My \_\_\_\_\_ concerns regarding the Fill Area:

0 (low) 5 (moderate) 10 (high)



**C** Environment

# 2. Survey 1 — Part A Results: Views

#### **Comments:**

"A view of a heavy industrial site over a "once" bucolic marshland now devoid of water fowl equally as bad."

"Can't see but smell."

"While walking and recreation on the creek kayaking boating."

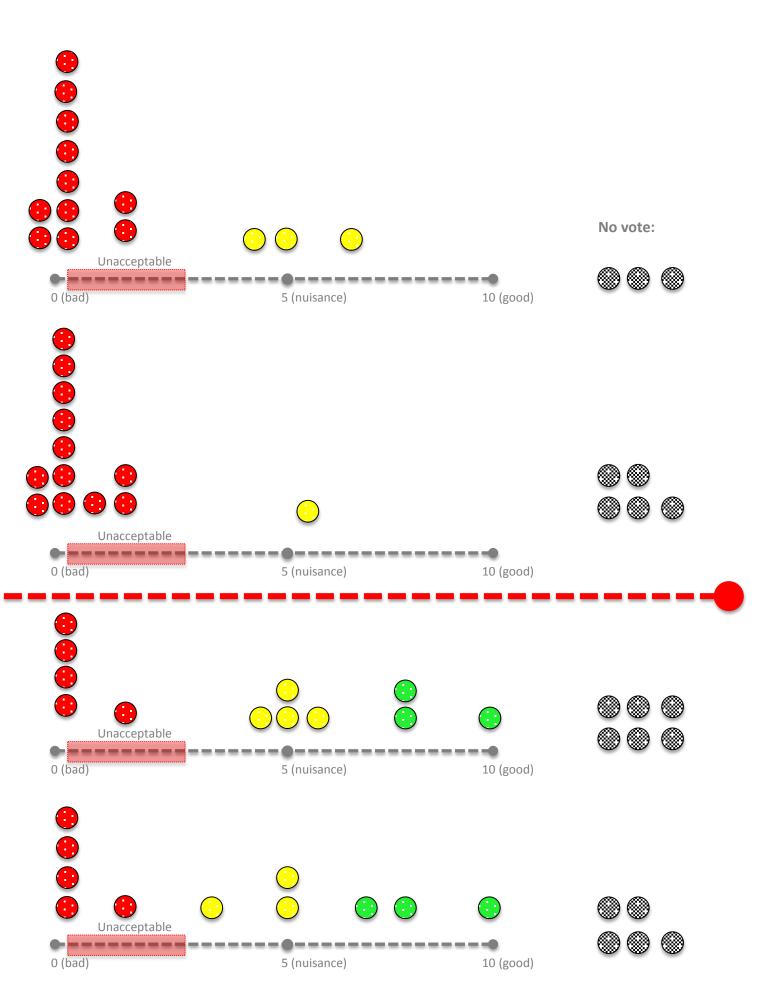
"Home is north of pile."

The views to the <u>Fill Area</u> in the summer months are:

The views to the <u>Fill Area</u> in the winter months are:

The views to the <u>Tree Operation Area</u> in the summer months are:

The views to the <u>Tree Operation Area</u> in the winter months is:





# 2. Survey 1 - Part B Other (smell and noise)

#### Other comments:

"Composting smell worse north of Veres Street."

The \_\_\_\_\_ from the <u>Fill Area</u> in the summer months is:

View Noise smell flies

The \_\_\_\_\_ from the <u>Fill Area</u> in the winter months is:

Smell noise view

The \_\_\_\_\_ from the <u>Tree Operation</u>
Area in the summer months is:

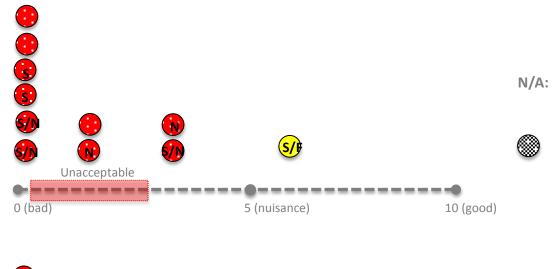
View Smell

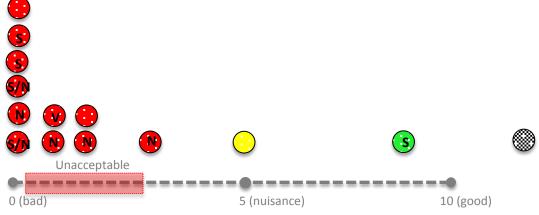
noise

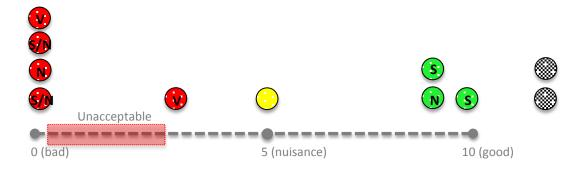
The \_\_\_\_\_ from the <u>Tree Operation</u>
Area in the winter months is:

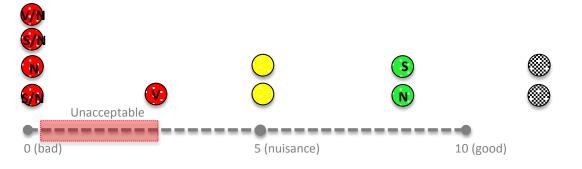
Smell noise

VIew











### 2. Survey 1 - Part C Environment

#### **Comments:**

"Concern is growth of fill north."

"Children while swimming"

"The banks on the marsh and creek."

"The birds, fiddler crabs, fish (and even the rats!) are all precious."

"Lack of marsh birds, white escets are gone."

"Dog swims in water."

"Disrupts birds"

"Nobody monitors the content of the debris. I would believe some must be contaminated and the site is a very easy disposal at minimal expense." "Water fowl is gone from a previously populated site." "The wildlife will not breed in the current conditions."



My overall environmental concerns

My water quality concerns regarding the Fill Area are:

My wildlife health concerns regarding the Fill Area:

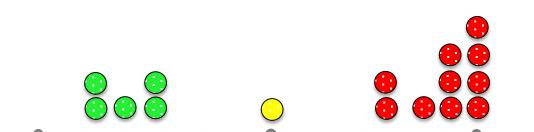
concerns regarding the Fill Area:

> Financial Land/ property value aesthetic personal Noise overall

regarding the Fill Area are:

0 (low)

0 (low)

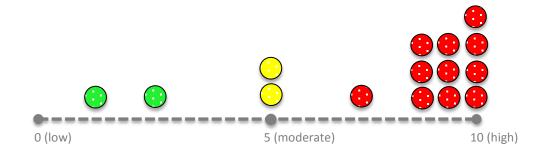


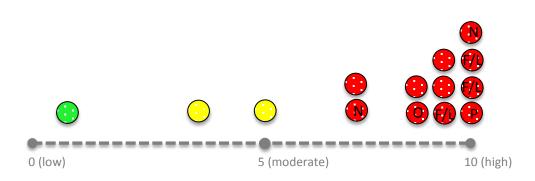
5 (moderate)

5 (moderate)

N/A:

10 (high)





### 2. Survey 1 - Participants

#### **Survey Completed**

Dru Georgradis
Edward Soderland
Doug Macshane
Jon & Jackie Davis
Peter & Rena Wiswell
Helen Hapgood
David Garrell
Richard Rowan
Silas Howland
Zecchi

Soderlund

Russo

Nancy Samuelson Kristin Nick G. Sargent Unknown William Bodine

#### **No Information Given**

Kathleen Griffin

#### **Survey 1 Other Comments:**

"The Town admits mismanagement. The time frame is too long. They weed to contribute some funds say 50% to lower the timeline to 8 months."?

"Would love to see the buses housed elsewhere!"

"I hear it everyday."

"Too high."



### 2. Survey 2

The steps to reduce the visual impact (along with other issues) of the Fill Area include:

- Step I: UConn, working with town officials, community and consultants, will develop a series of alternative concept plans which will be reviewed and discussed at public workshops. Ultimately, this step will culminate with an agreed upon Final Concept Plan
- Step 2: UConn will develop the Final Concept Plan into Schematic Level Documents. The documents will include:
  - Layout Plan
  - Grading Plan
  - Planting Plan
  - Other supporting documentation including consultant work
- Step 3: Begin implementation (construction) of the agreed upon plan.
- Step 4: Completion of agreed upon plan

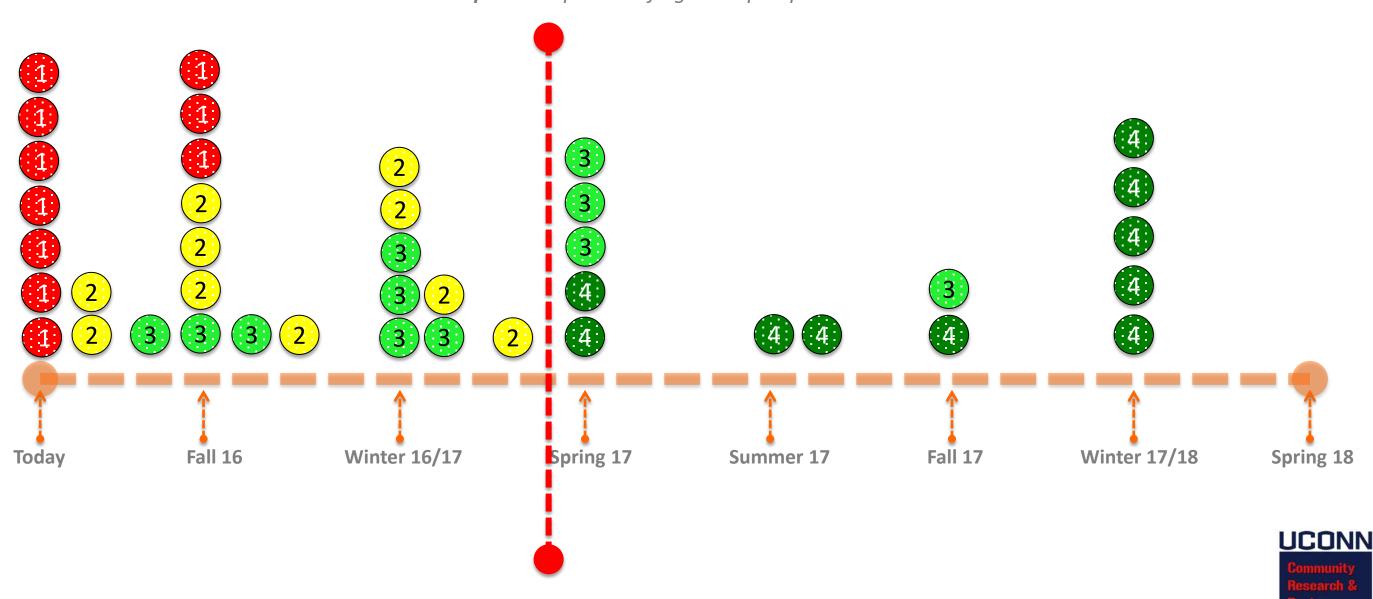




### 2. Survey 2 Results

- **Step I:** UConn, working with town officials, community and consultants, will develop a series of alternative concept plans which will be reviewed and discussed at public workshops. Ultimately, this step will culminate with an agreed upon Final Concept Plan
- Step 2: UConn will develop the Final Concept Plan into Schematic Level Documents.
- **Step 3**: Begin implementation (construction) of the agreed upon plan.

**Step 4:** Completion of agreed upon plan



# 2. Survey 2 Participants

#### **Survey Completed**

William Bodine & Victoria Fingelly
Gregory Sargent
Kristin & Tim Nick
Nancy Samuelson
Russo
Soderlund
Zecchi
Richard Rowan
Garrell
Jon & Jackie Davis

#### **No Information Given**

Silas Howland
Helen Hapgood
Peter & Rosa Weswell
Dru Geasraders
Doug Macshane
Edward Soderlund
Unknown

#### **Survey 2 Comments:**

"Avoid all summer months, the peak season."

"Let's sit back and really enjoy Spring/Summer of '18."

"What is the creek bottoms tests show. There has been a lot of materials dumped there over the years."

"Problem has existed for years. No management oversite, contractors do not comply with contract legal terms. Town does not enforce contract terms or write penalties in. Very amateurish!"



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- Bio-diversity Patterns

#### 6. Next steps

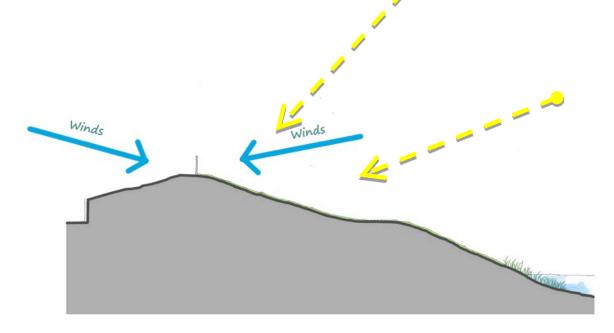


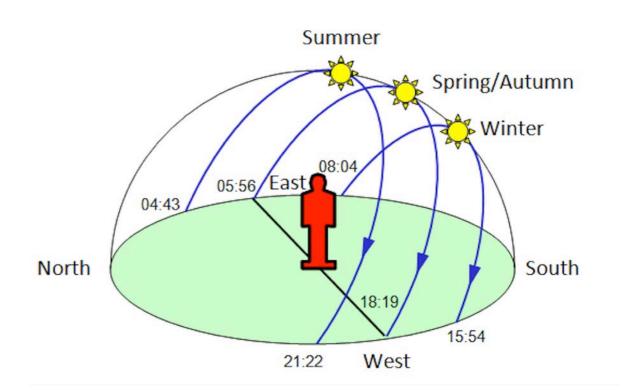
# 3. Site Analysis – View Sheds

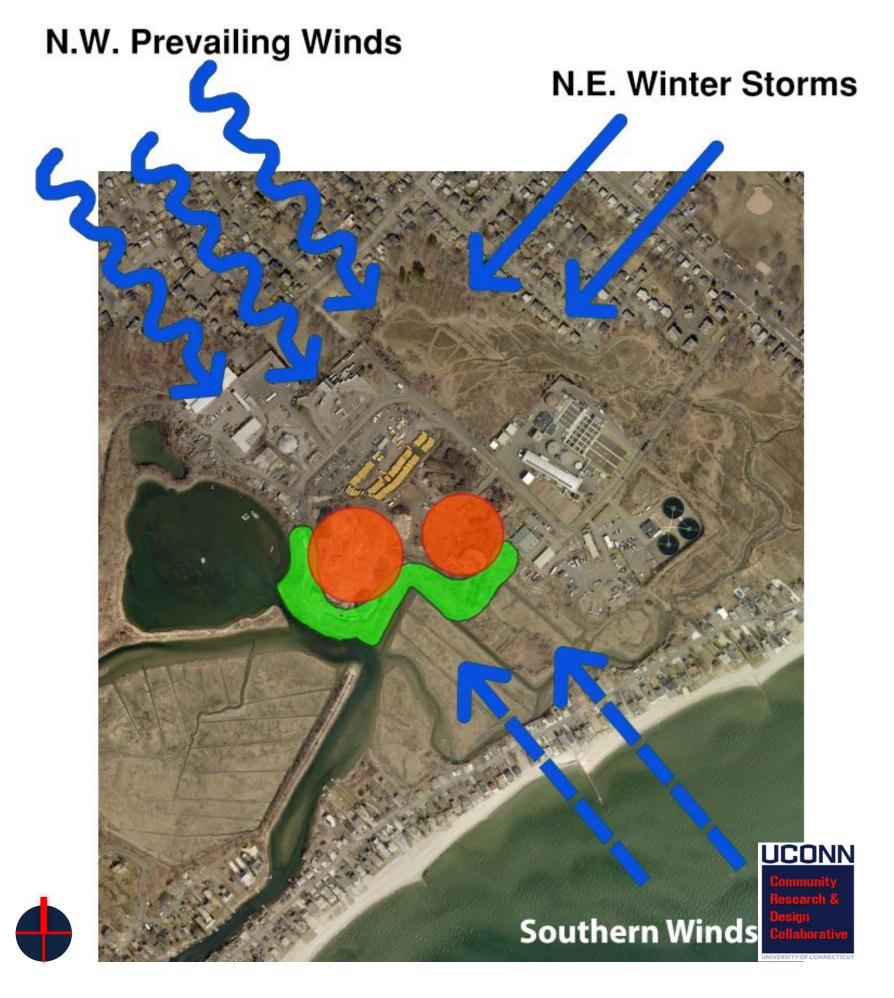




# 3. Site Analysis – Environmental Issues







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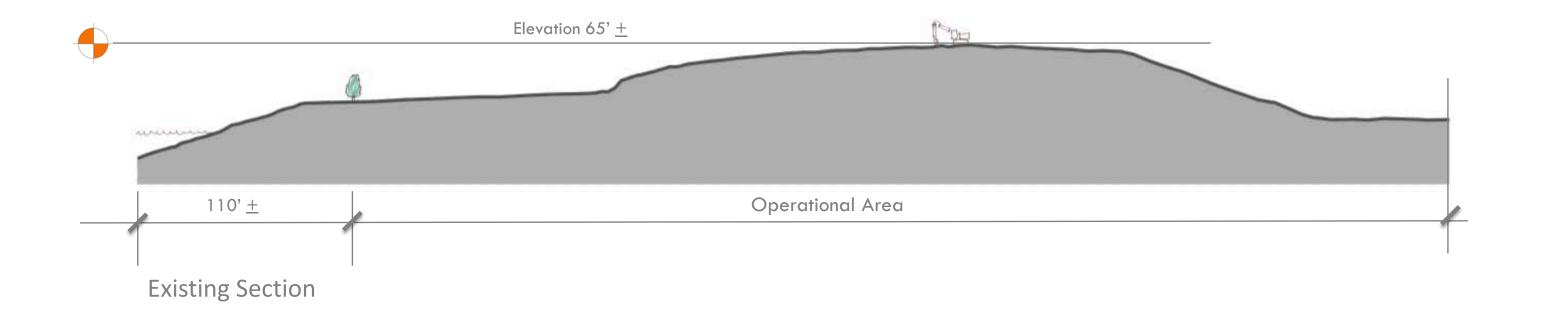
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#### 5. Principles:

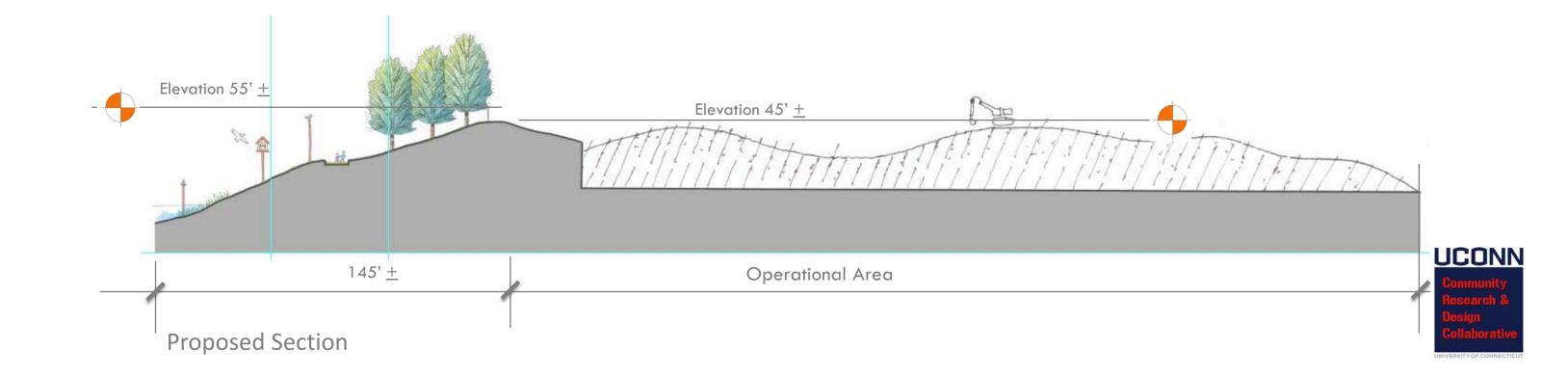
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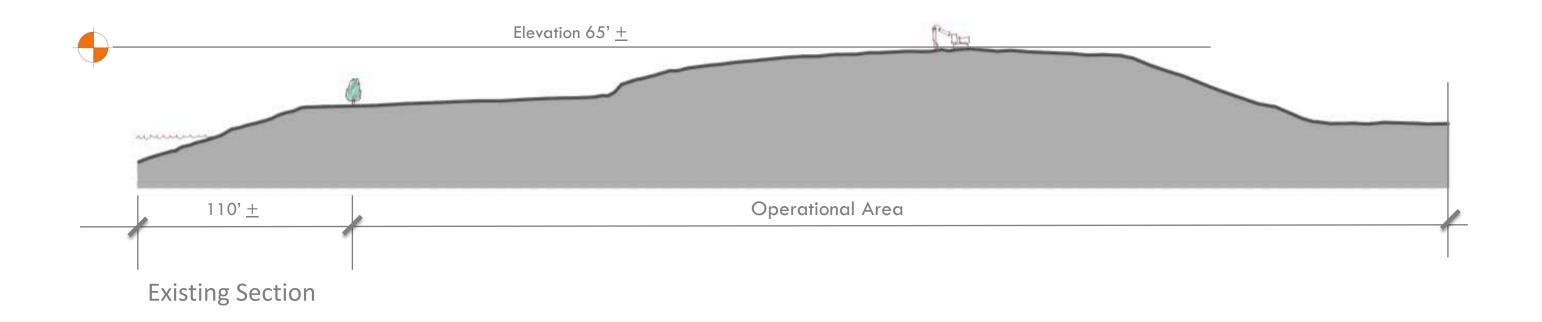
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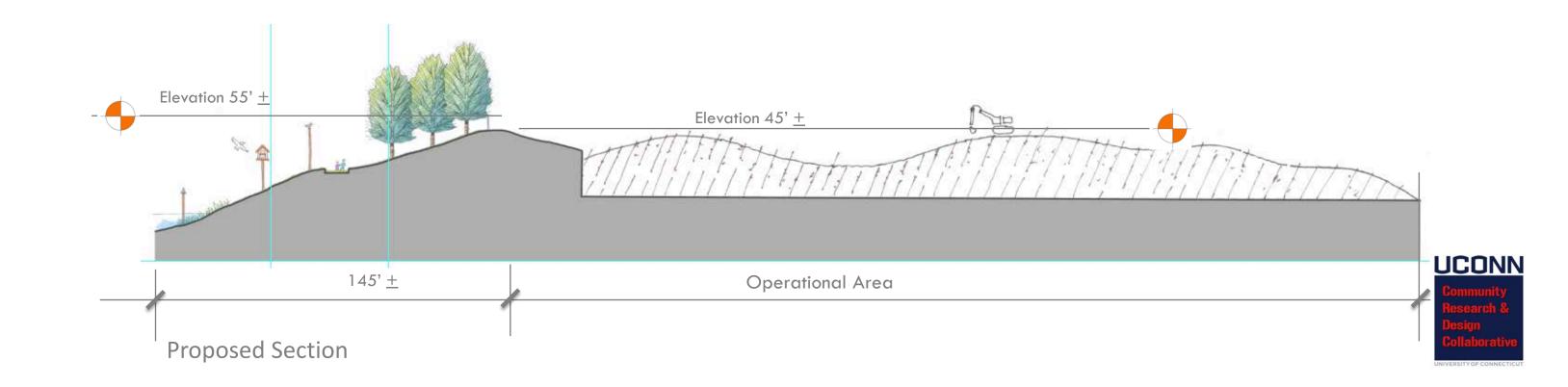


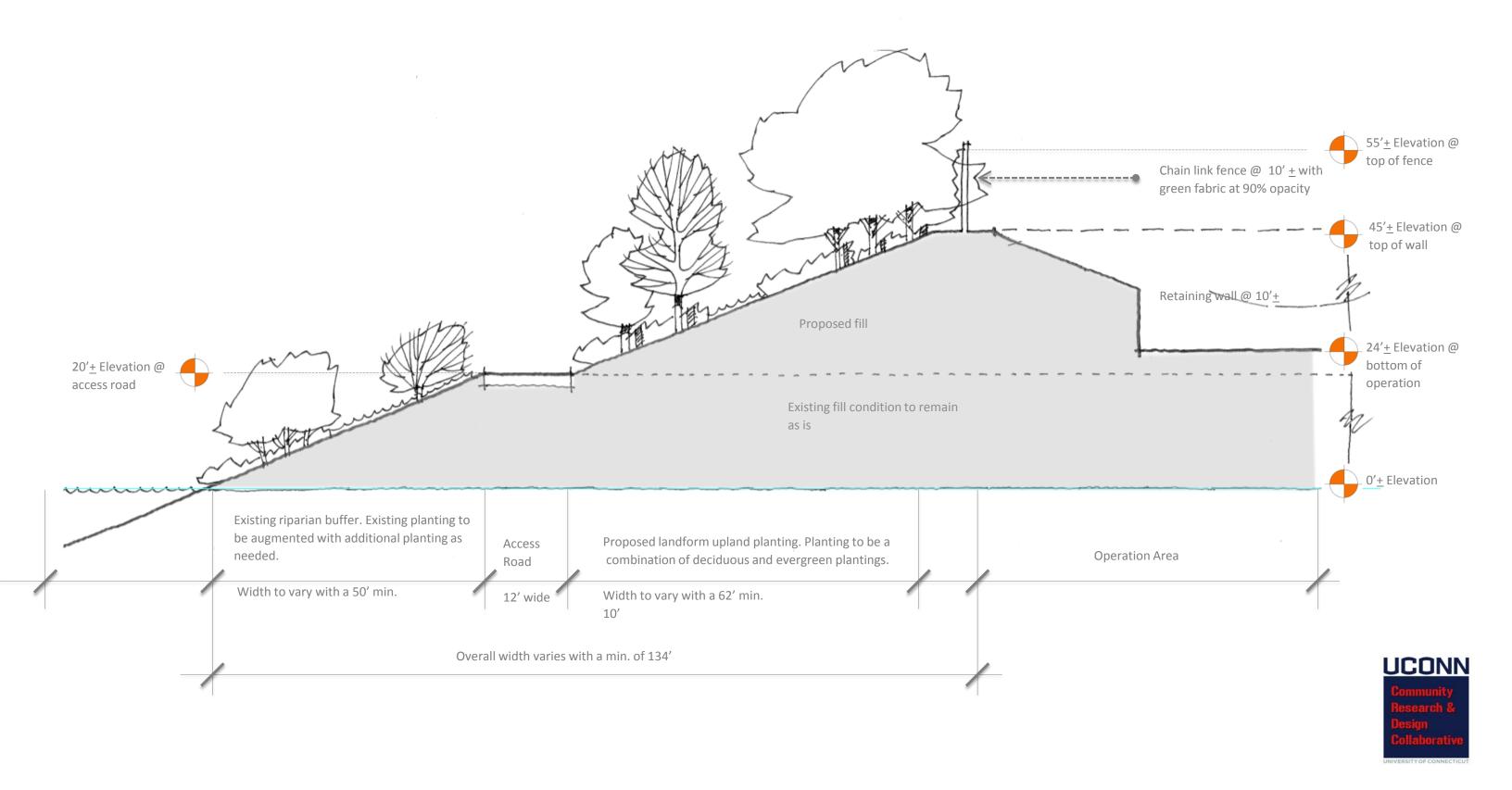












# 4. Preliminary Ideas — Plan



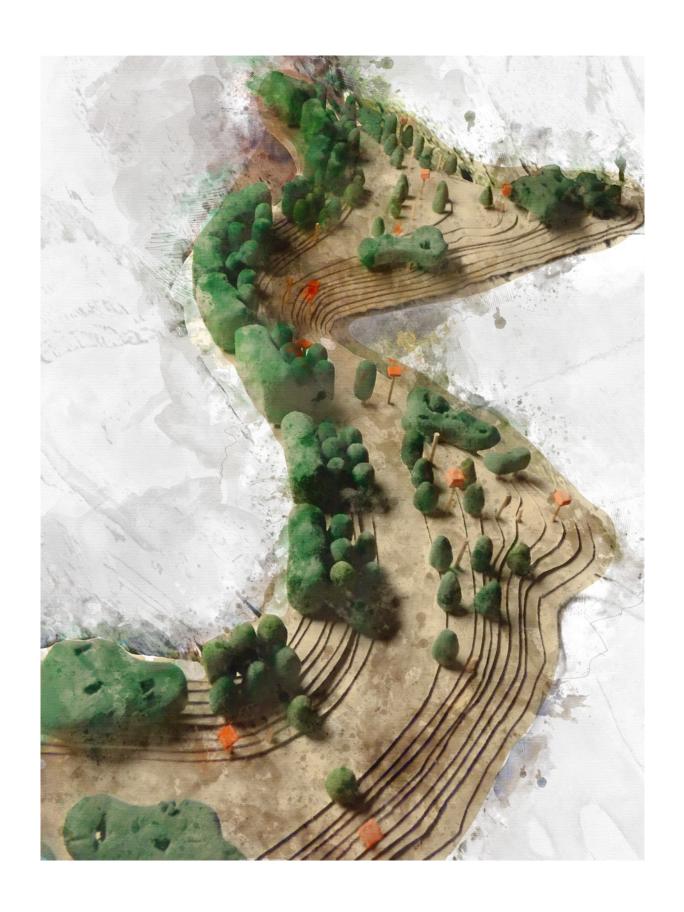


# 4. Preliminary Ideas – Walking View





# 4. Preliminary Ideas - Bird's Eye View



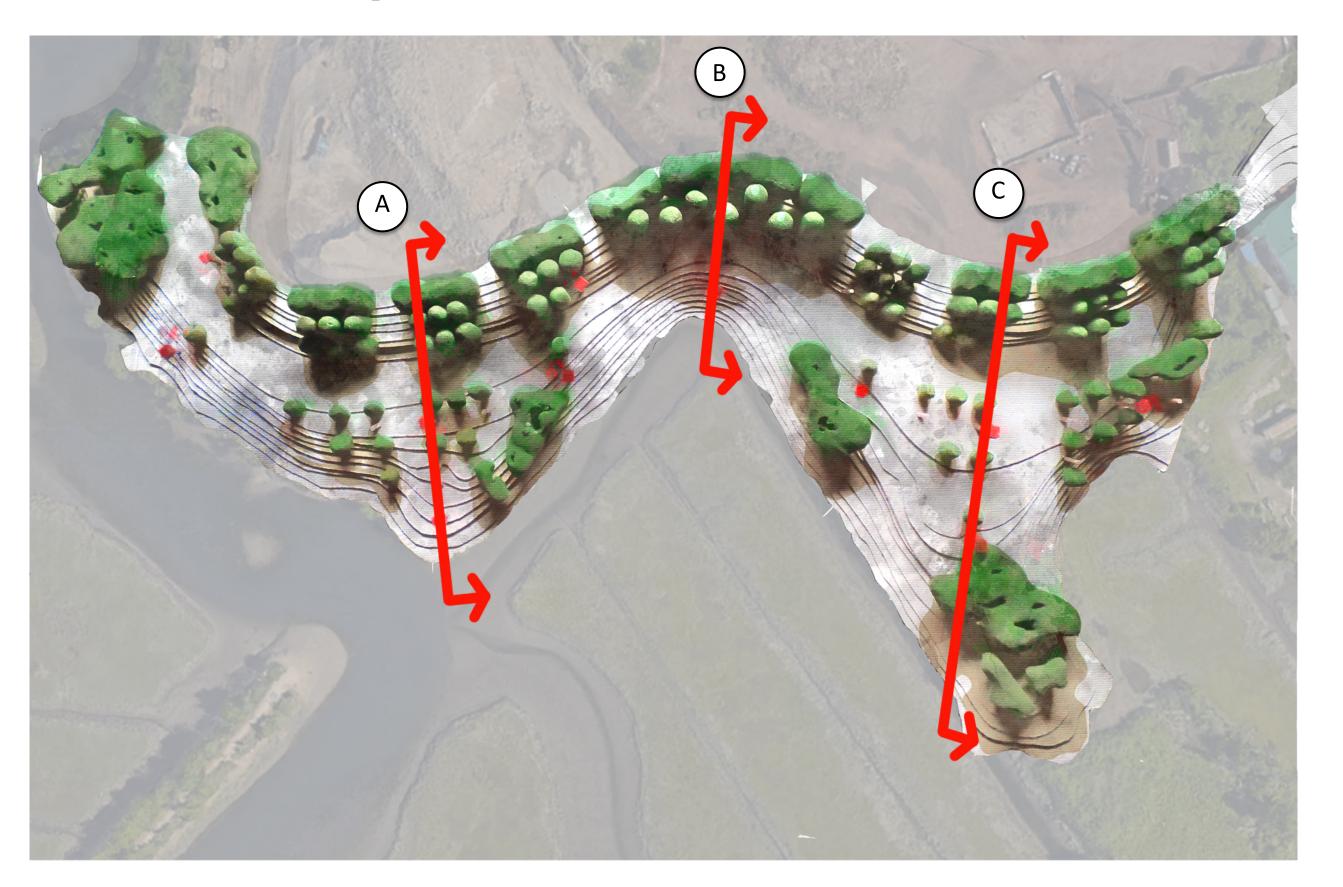


# 4. Preliminary Ideas - Bird's Eye View



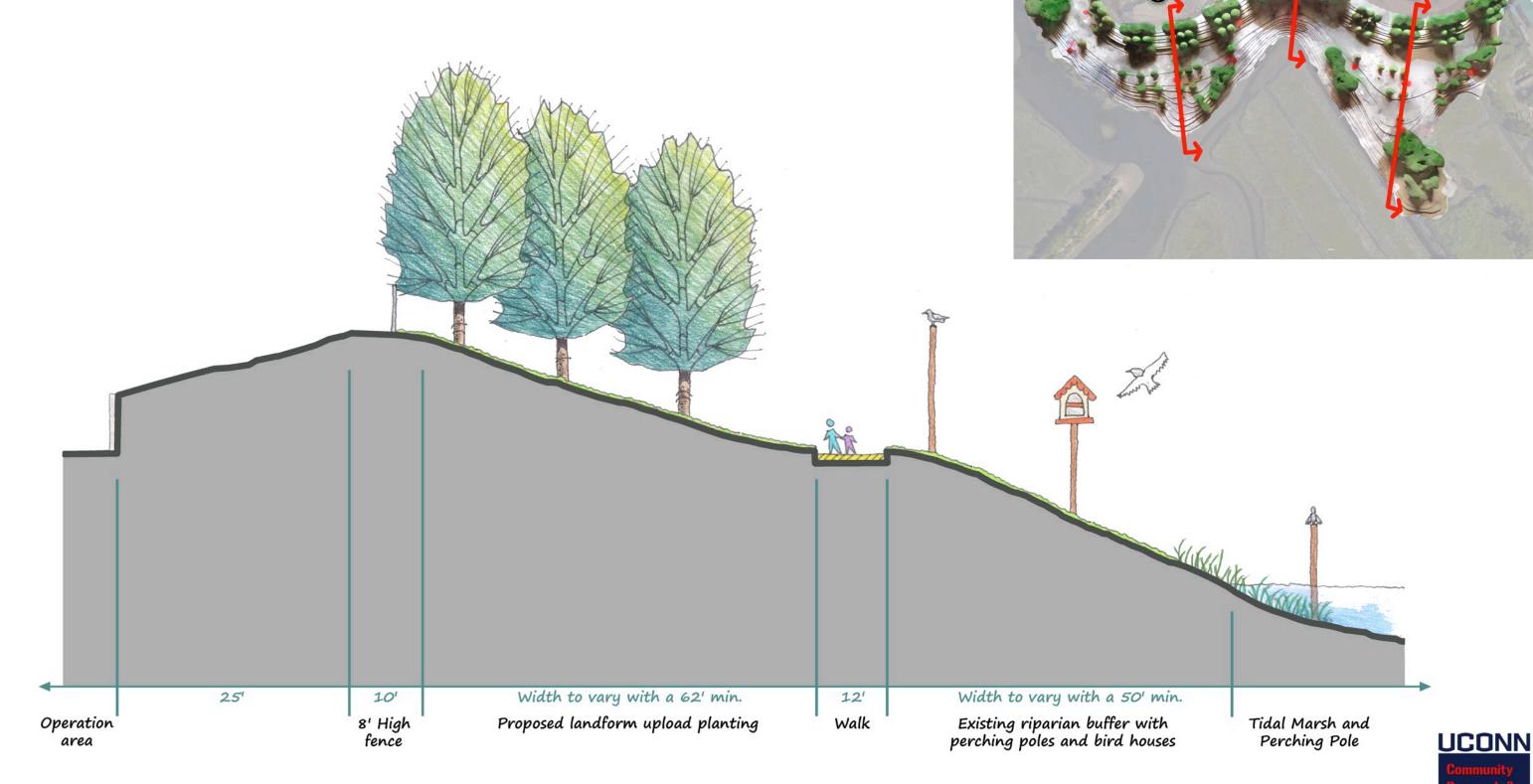


# 4. Preliminary Ideas — Sections



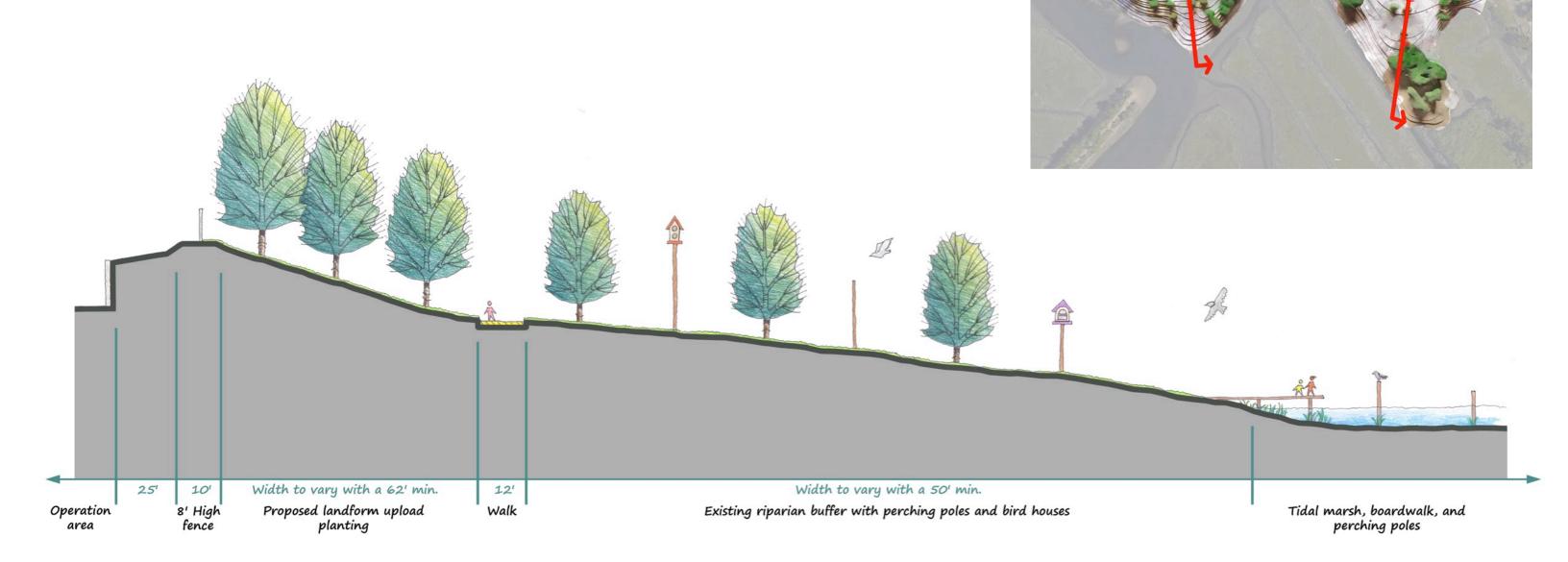


# 4. Preliminary Ideas - Sections



**Section B** 

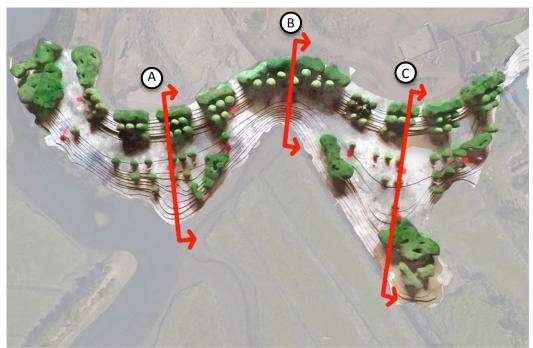
# 4. Preliminary Ideas - Sections

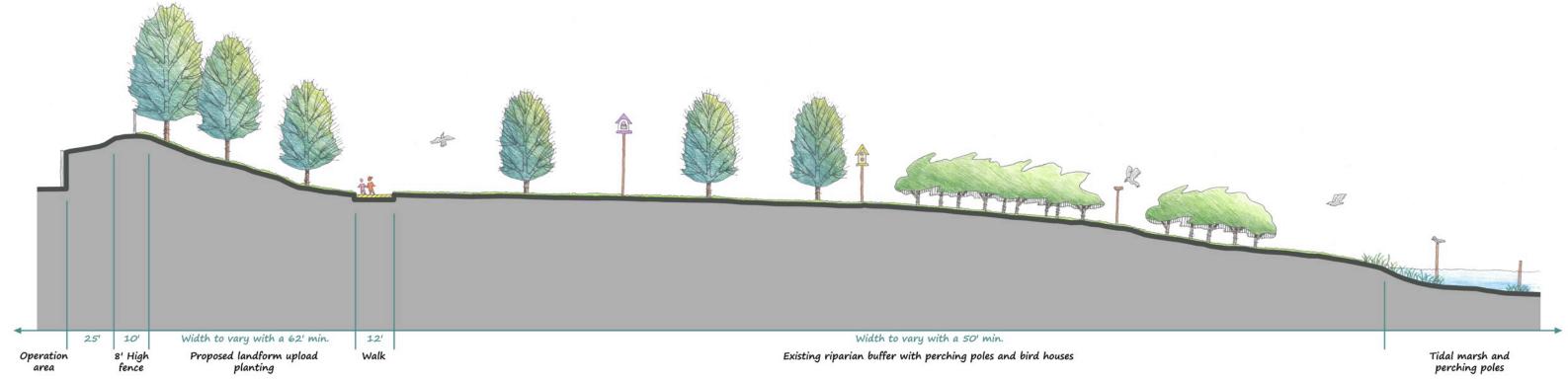


**Section A** 



# 4. Preliminary Ideas — Sections





**Section C** 



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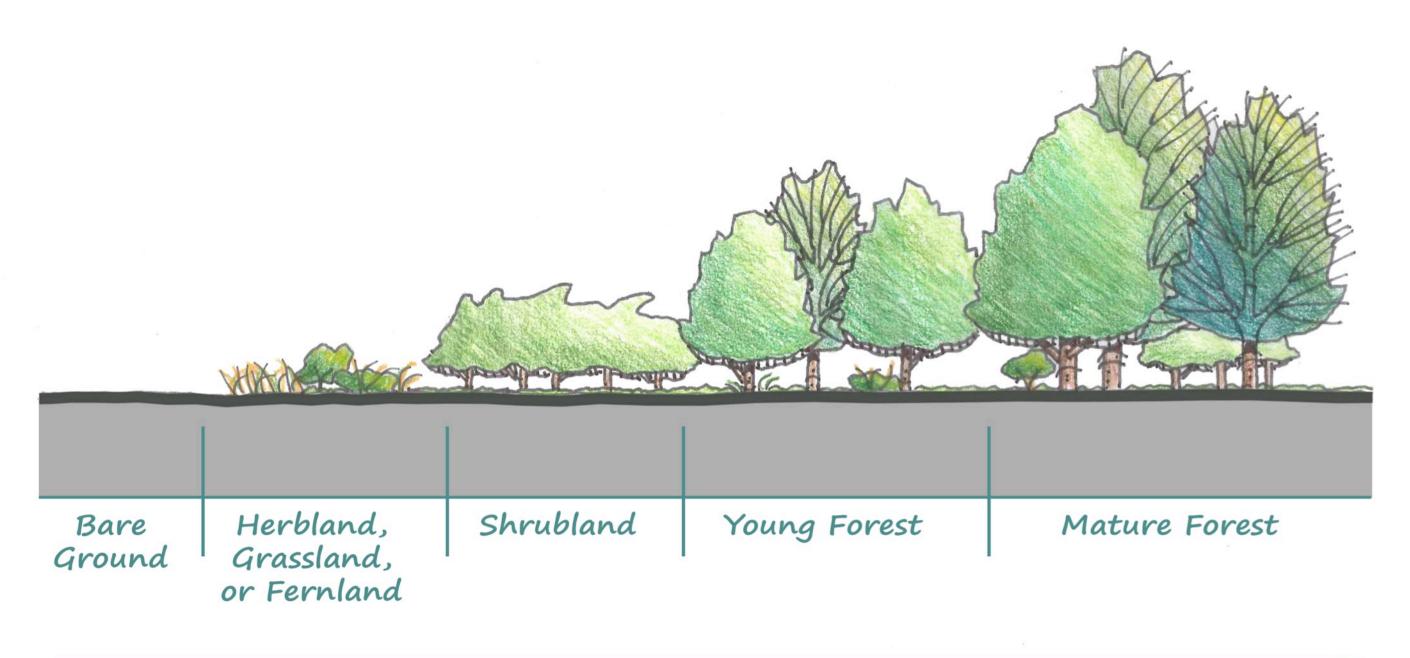
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### 5. Principles – Successional Growth

Ecological succession is the gradual process by which ecosystems change and develop over time. Nothing remains the same and habitats are constantly changing.



### 5. Principles - Successional Growth

#### The Stages of Succession

**Pioneer** 

Pioneer types are new lifeforms that enter into a primary succession and begin to take hold.

ex: seeds, bacteria, insects, or animals

Establishing

Establishing is the process in which lifeforms identify elements in an ecosystem that can sustain their basic

needs. ex: food, water, safe habitat

Sustaining

Sustaining type means that life in the ecosystem has begun to enter a pattern that

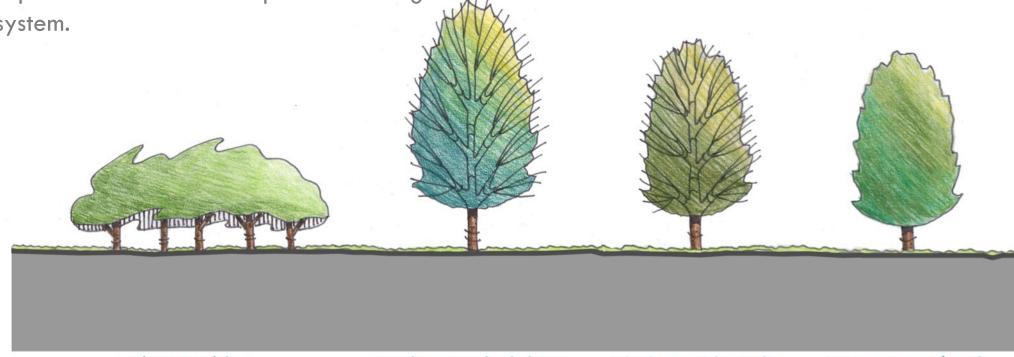
allows for a cycle of life to continue.

**Producing** 

This is when lifeforms are breeding and growing, but there is

migration because what is produced is also not capable of being

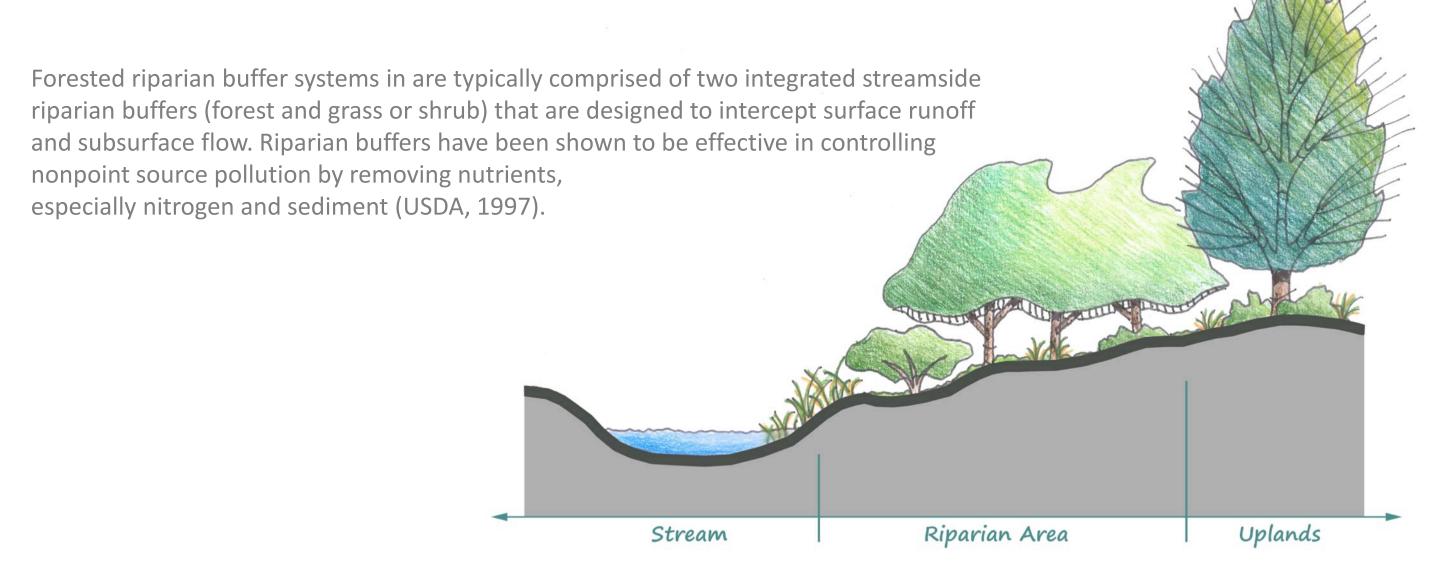
supported within the ecosystem.



# 5. Principles – Riparian Buffer

The **USDA Forest Service** defines a riparian buffer as follows:

The aquatic ecosystem and the portions of the adjacent terrestrial ecosystem that directly affect or are affected by the aquatic environment. This includes streams, rivers, lakes, and bays and their adjacent side channels, floodplain, and wetlands. In specific cases, the riparian buffer may also include a portion of the hillslope that directly serves as streamside habitats for wildlife.

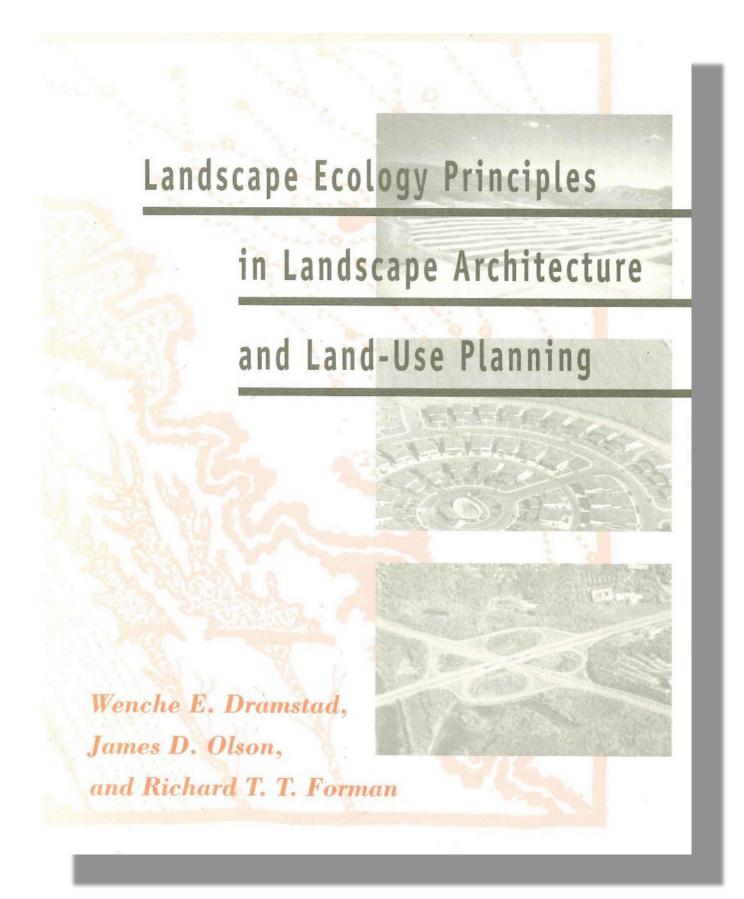




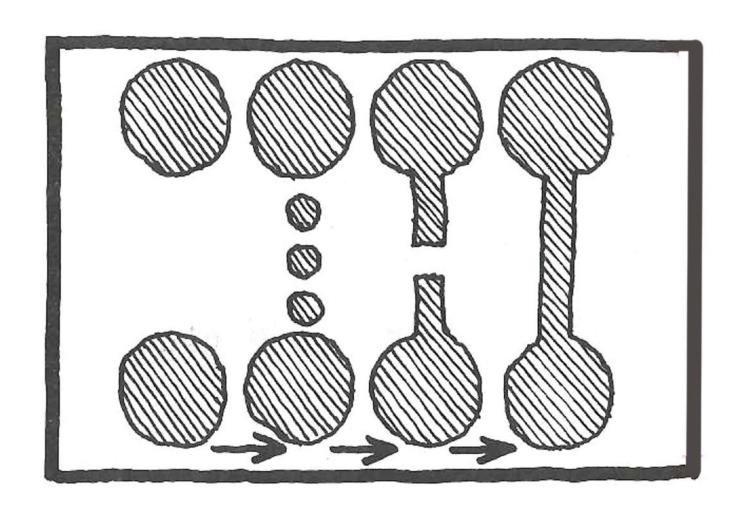
# 5. Principles – Riparian Buffer







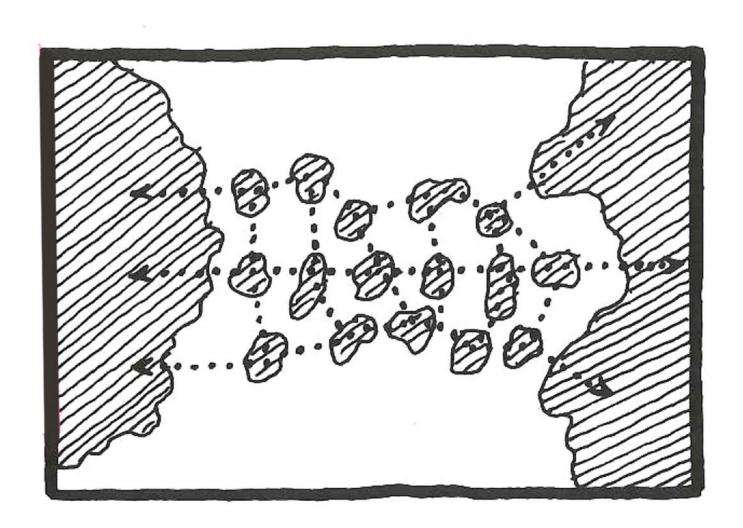




#### **Stepping Stone Connectivity**

A row of stepping stones (small patches) is intermediate in connectivity between a corridor and no corridor, and hence intermediate in providing for movement of interior species between patches.

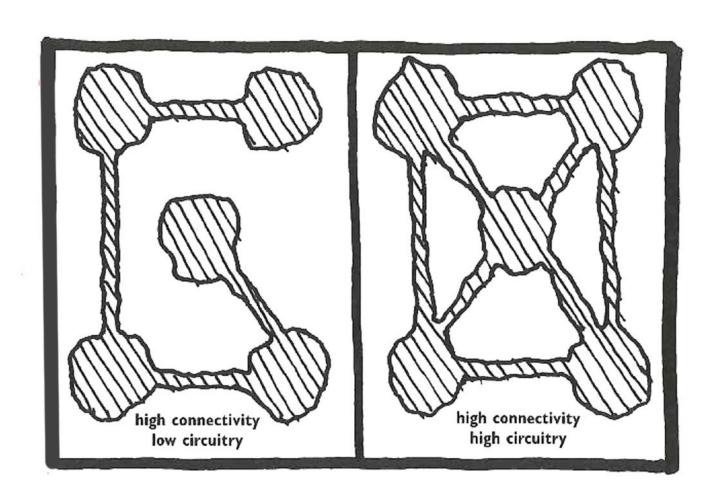




#### **Cluster of Stepping Stones**

The optimal spatial arrangement of a cluster of stepping stones between large patches provides alternate or redundant routes, while maintaining an overall linearly-oriented array between the large patches.

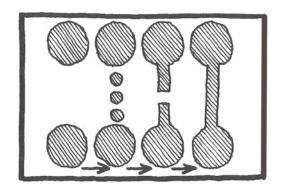


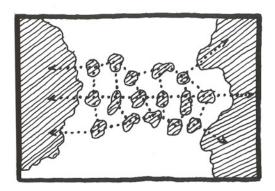


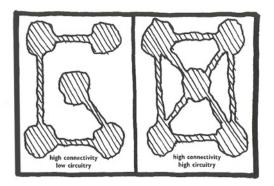
#### **Network Connectivity and Circuitry**

Network connectivity (i.e. the degree to which all nodes are linked by corridors), combined with network circuitry (i.e. the degree to which loops or alternate routes are present), indicates how simple or complex a network is, and provides an overall index of the effectiveness of linkages for species movement.













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