

NAME: _____

DATE: _____

BOOK #: _____

Port Covington

EAST WATERFRONT PARK

**PRESENTATION TO THE URBAN
DESIGN & ARCHITECTURE
REVIEW PANEL**

December 1, 2016



EAST WATERFRONT PARK

Introduction

CAROLINE PAFF
Sagamore Development
Vice President

PRIOR ACTIONS

January 28, 2016 East Waterfront Park Schematic: Approval with comments

March 3, 2016 East Waterfront Park Final Design: Continued

RELATED PROJECTS

January 7, 2016 Master Plan Framework and Systems

February 18, 2016 Hanover Street and West End Districts

March 3, 2016 Ecology and Streetscape

March 24, 2016 Hanover and West End Districts

April 14, 2016 Cromwell Street and East Waterfront Districts

May 5, 2016 East End and Founders Park Districts

May 26, 2016 Comprehensive Master Plan

URBAN DESIGN GOALS

Create a sense of arrival and make it a destination.

Make strong connections between uses, ecology and people.

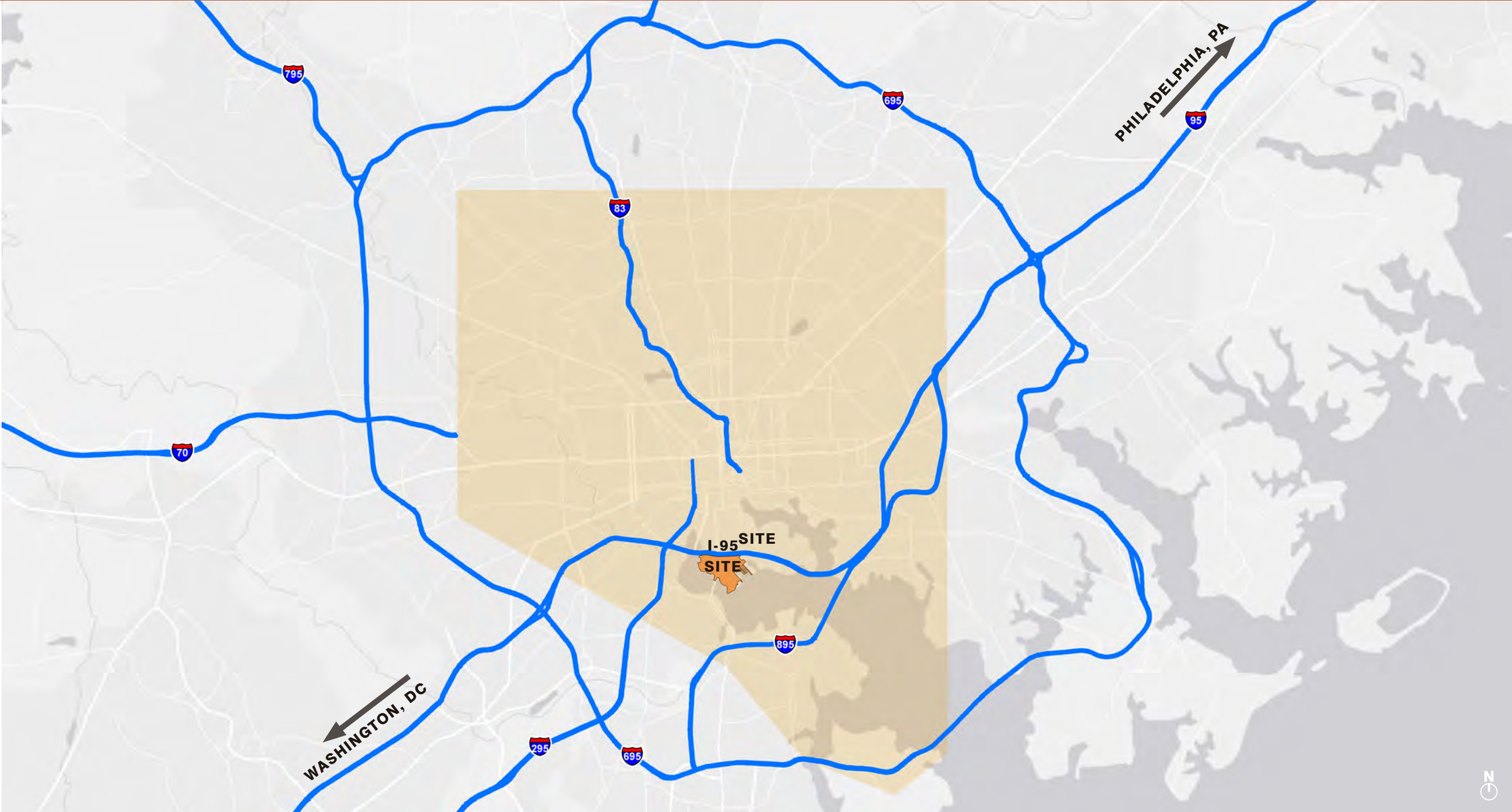
Induce multi-modal behaviors through great design and investment in the public realm.

Make it walkable.

Include multiple points of view to ensure diversity and plan resiliency.

Innovate.

REGIONAL CONTEXT MAP



EXISTING CONDITIONS



SPRING GARDEN SWING BRIDGE

SWANN PARK

SCHUSTER CONCRETE

AFP

ALLIED WASTE

CITY GARAGE

WEST COVINGTON PARK

NICK'S FISH HOUSE

LOCKE INSULATORS

HANOVER STREET BRIDGE

CROMWELL STREET

BALTIMORE SUN

SAGAMORE SPIRIT DISTILLERY

WINANS COVE








SOUTH LOCUST POINT

MIDDLE BRANCH OF THE PATAPSCO RIVER

ENVIRONMENTAL CONSTRAINTS



LEGEND

-  I-95 Multi-Lane Highway
-  CSX Railroad Tracks
-  Hanover Street Commuter Route
-  1000-Foot Chesapeake Bay Critical Area
-  100-Foot Chesapeake Bay Critical Area Buffer
-  100-Year Floodplain
-  Habitat Protection Area

MAY 26, 2016 FRAMEWORK PLAN



WESTPORT

SOUTH BALTIMORE

RIVERSIDE

95

SOUTH LOCUST POINT

MIDDLE BRANCH

WINANS COVE

HANOVER STREET BRIDGE

FERRY BAR CHANNEL

MIDDLE BRANCH PARK



MAY 26, 2016 PARKS PLAN



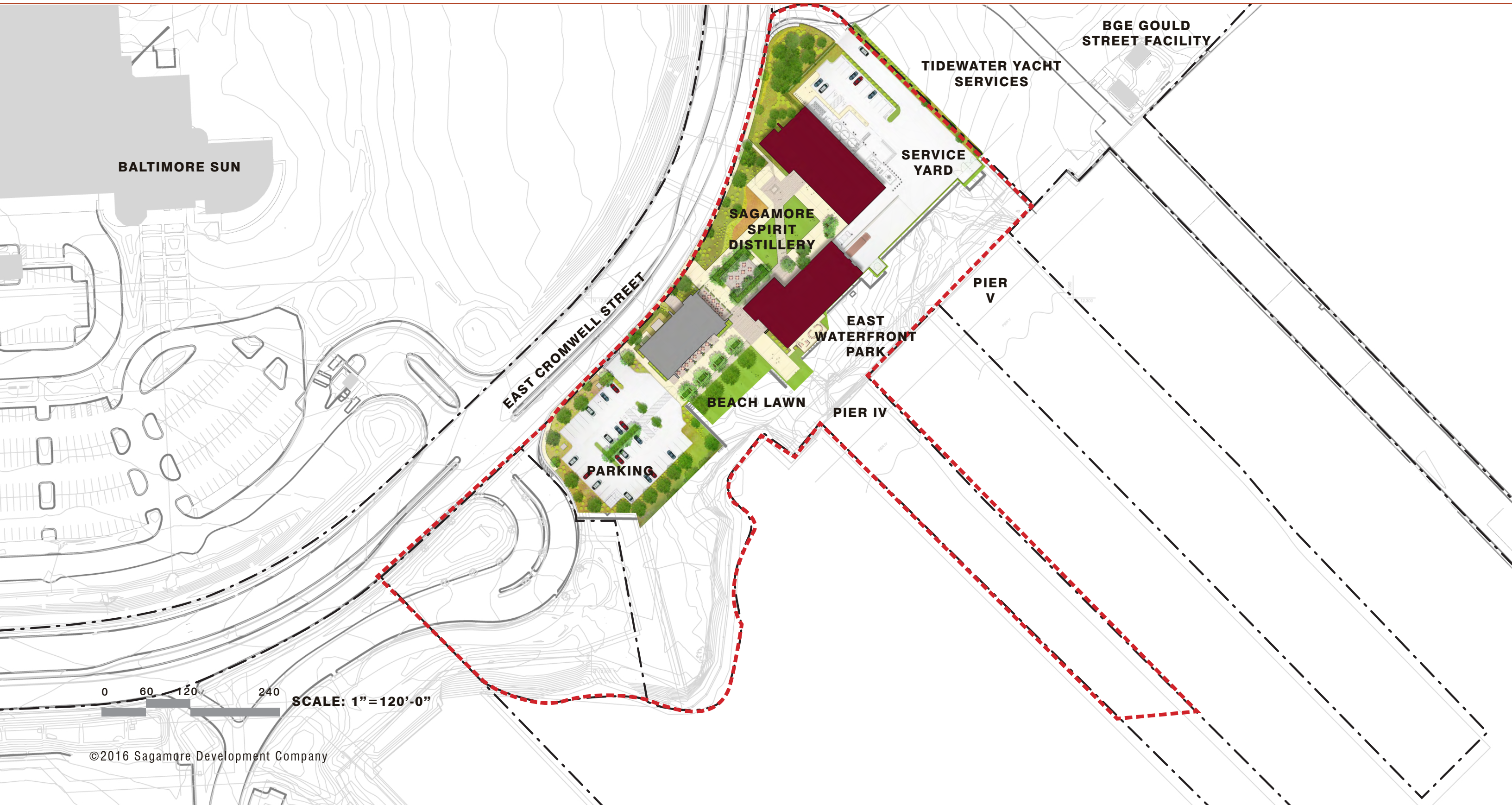
EAST WATERFRONT PARK LOCATION



EXISTING CONDITIONS
AERIAL VIEWS



EXISTING SITE CONDITIONS



0 60 120 240 SCALE: 1" = 120'-0"

MARCH 3, 2016 SITE PLAN



MARCH 3, 2016 PANEL COMMENTS

Consider the park's east-most terminus and how the multiuse path relates to the park spaces and other paths.

Provide lighting, signage and furniture strategies.

Search for a clear, authentic visual language for the peninsula landscape.

PRESENTATION OVERVIEW

LANDSCAPE AND PARK DESIGN

Betsy Boykin, Core Studio Design

ECOLOGICAL CONTEXT

Chris Streb, Biohabitats

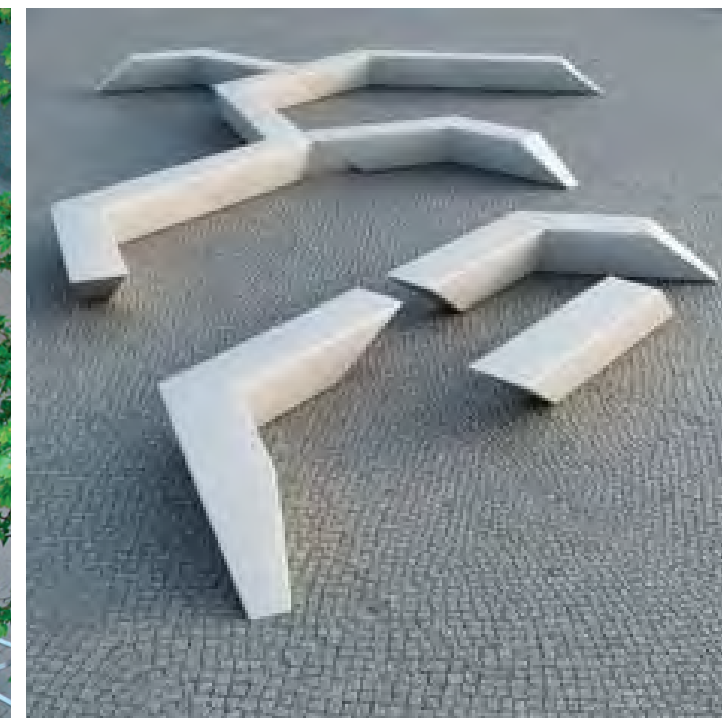
SIGNAGE

Ronnie Younts, Younts Design Inc.

LIGHTING

Claude Engle, Claude R. Engle, Lighting Consultant

THE NEXT GREAT BALTIMORE BENCH



DESIGNER DEAN BROWN





Port
Covington

EAST WATERFRONT PARK
Landscape and Park Design

BETSY BOYKIN

Core Studio Design
President

SITE PLAN



SITE PHASING PLAN

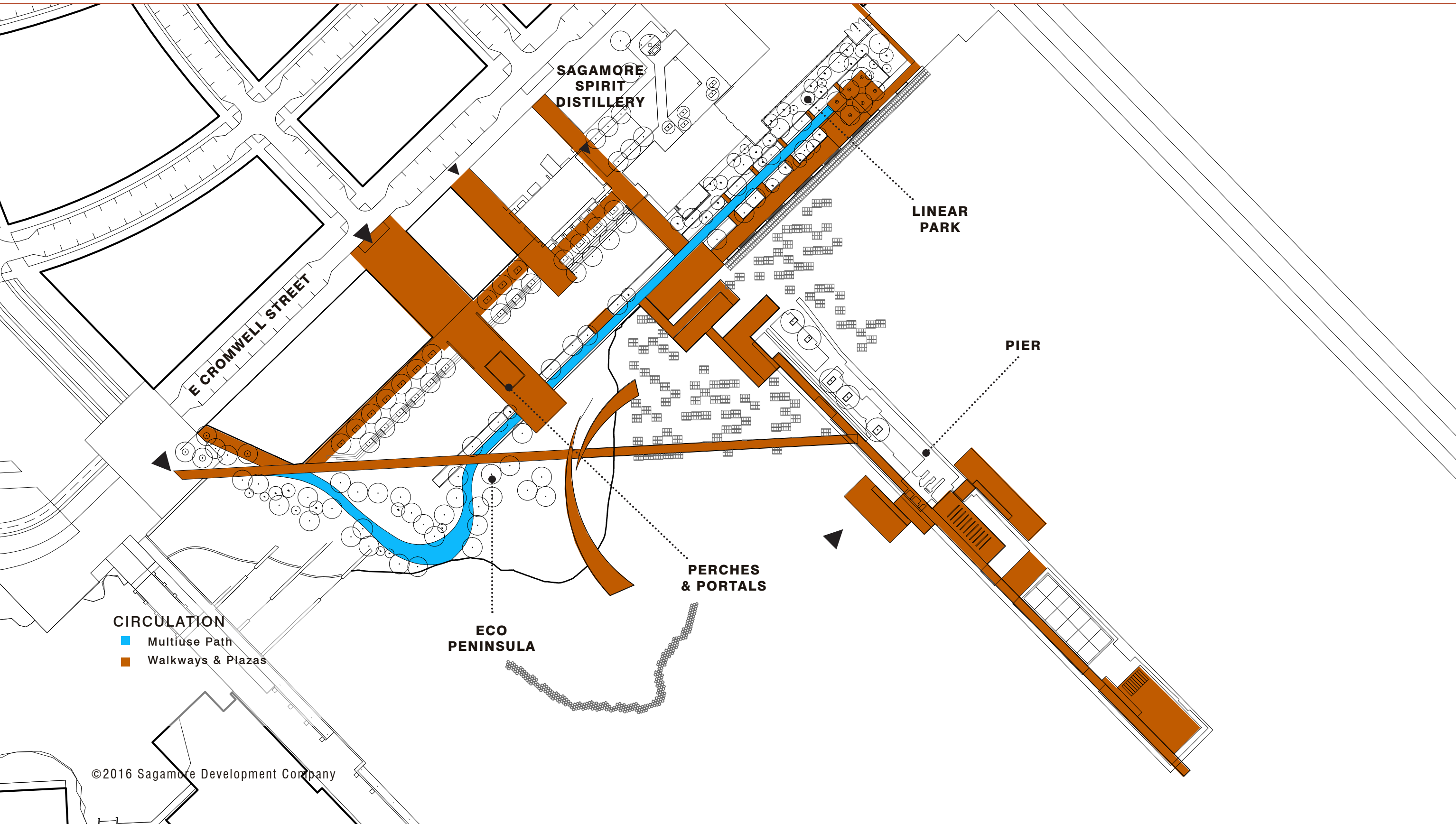


SITE PLAN WITHOUT TREES



0 60' 120' 240'

CIRCULATION DIAGRAM



SAGAMORE
SPIRIT
DISTILLERY

LINEAR
PARK

PIER

E CROMWELL STREET

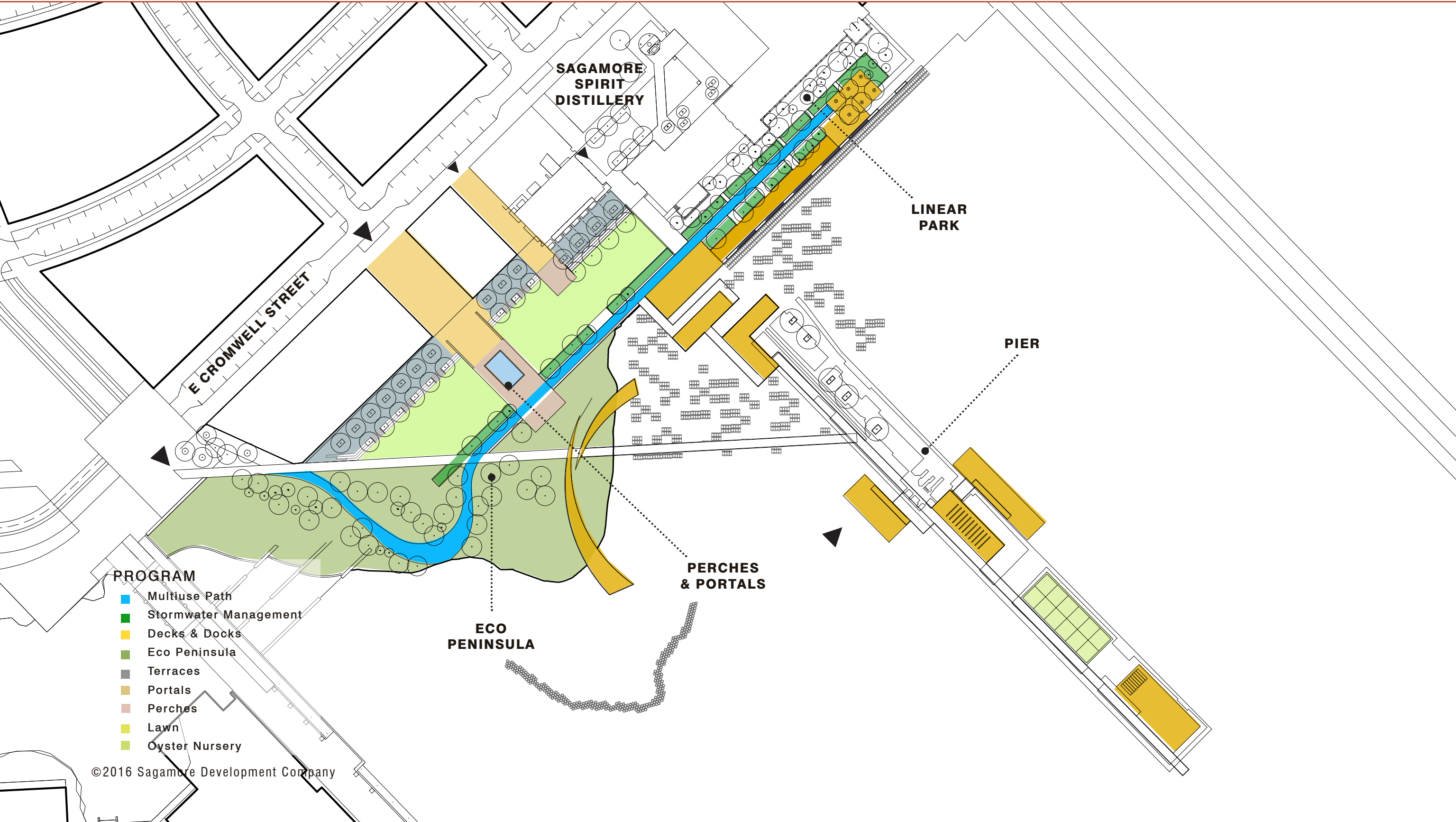
PERCHES
& PORTALS

ECO
PENINSULA

CIRCULATION

- Multiuse Path
- Walkways & Plazas

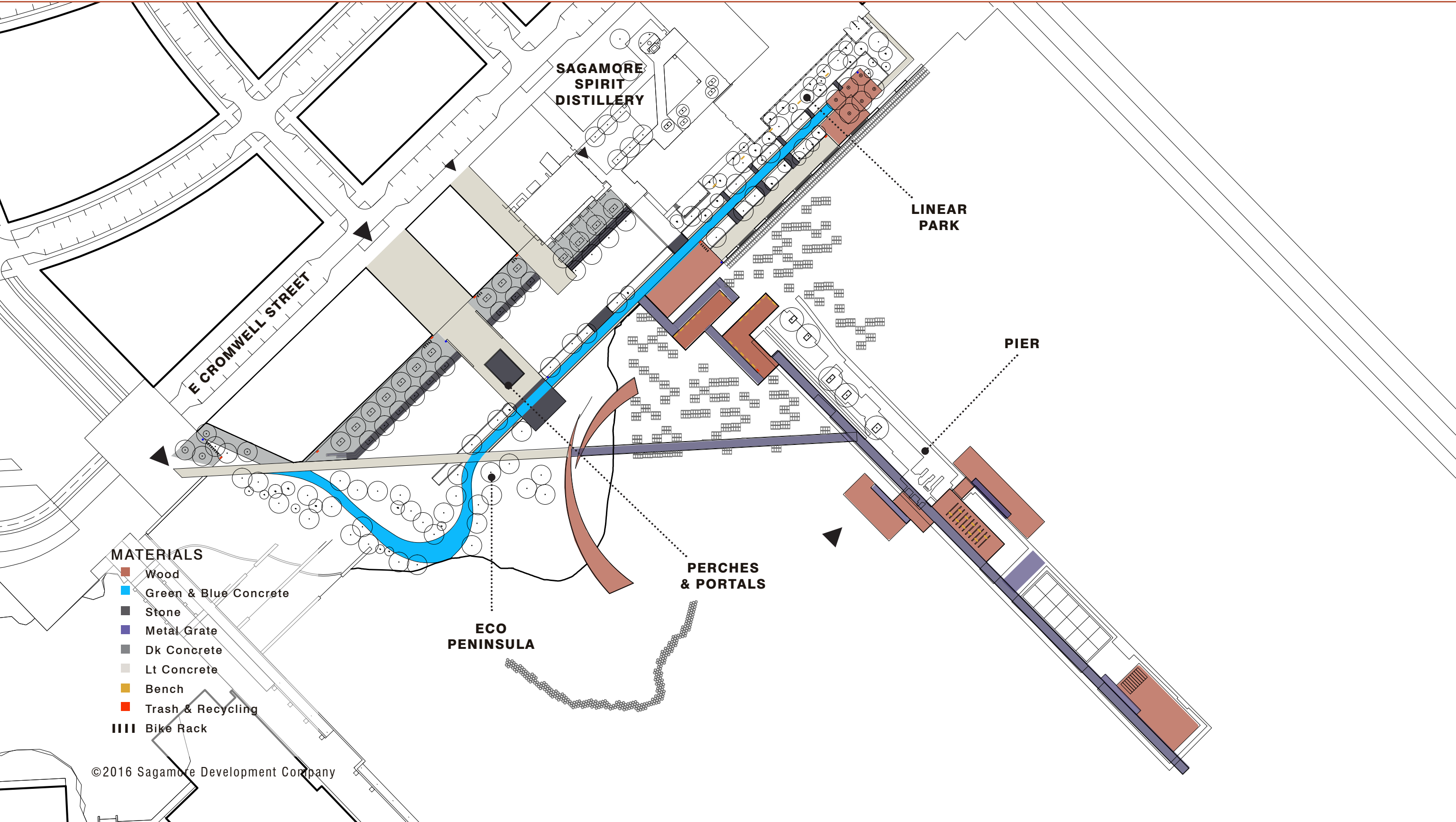
PROGRAM DIAGRAM



PROGRAM

- Multiuse Path
- Stormwater Management
- Decks & Docks
- Eco Peninsula
- Terraces
- Portals
- Perches
- Lawn
- Oyster Nursery

MATERIALS DIAGRAM



MATERIALS

- Wood
- Green & Blue Concrete
- Stone
- Metal Grate
- Dk Concrete
- Lt Concrete
- Bench
- Trash & Recycling
- Bike Rack

MATERIALS

CONCRETE



STONE



METAL



MATERIALS

WOOD



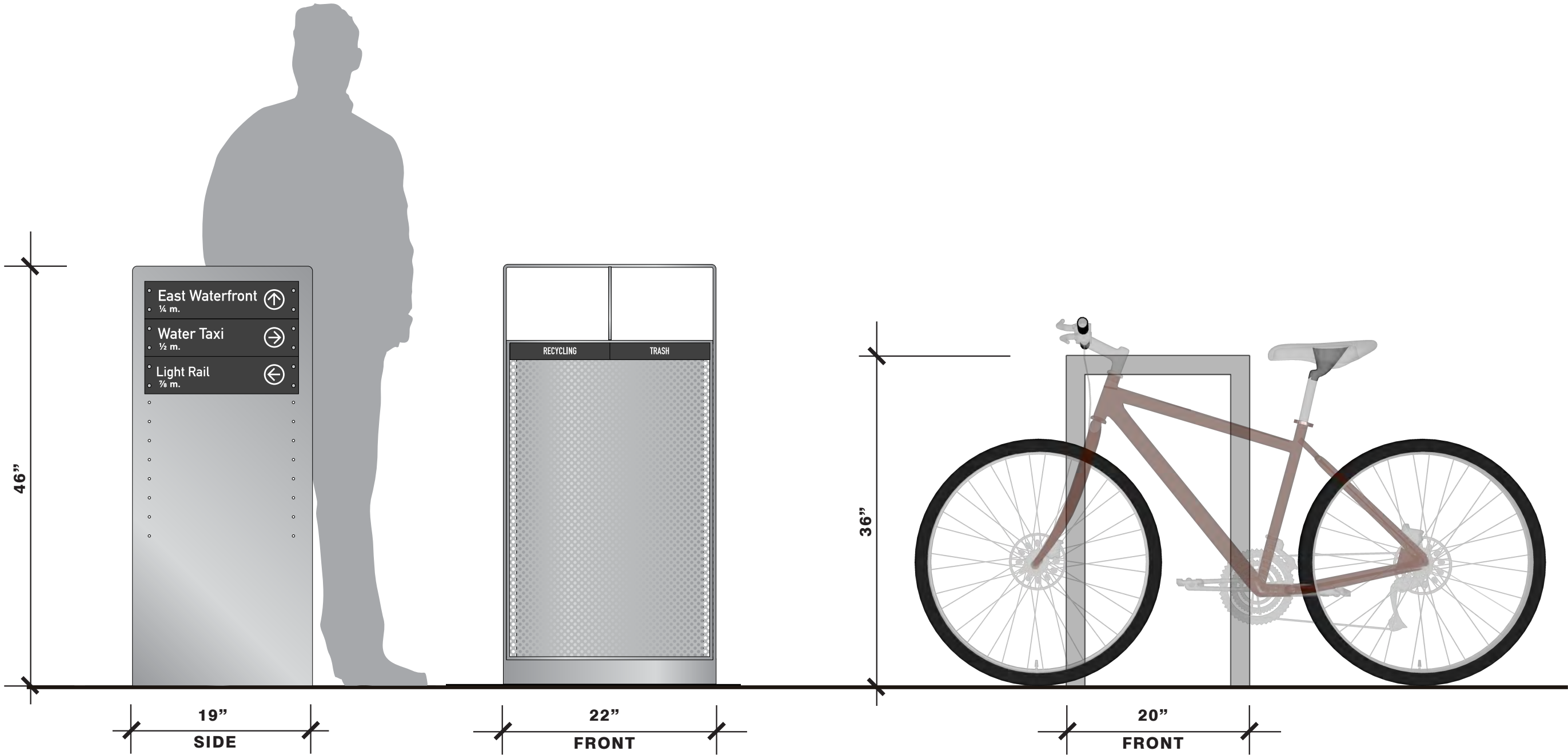
SPECIAL MATERIALS



ECOLOGY



SITE FURNITURE



TRASH AND RECYCLING

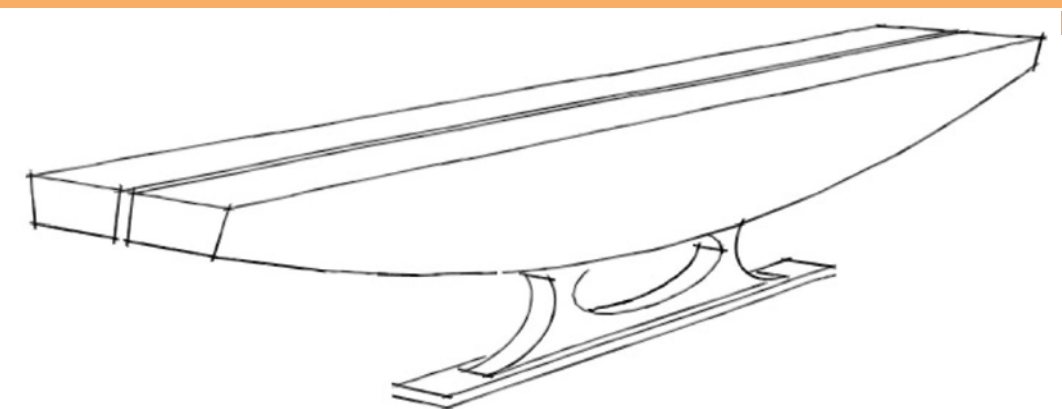
BIKE RACK



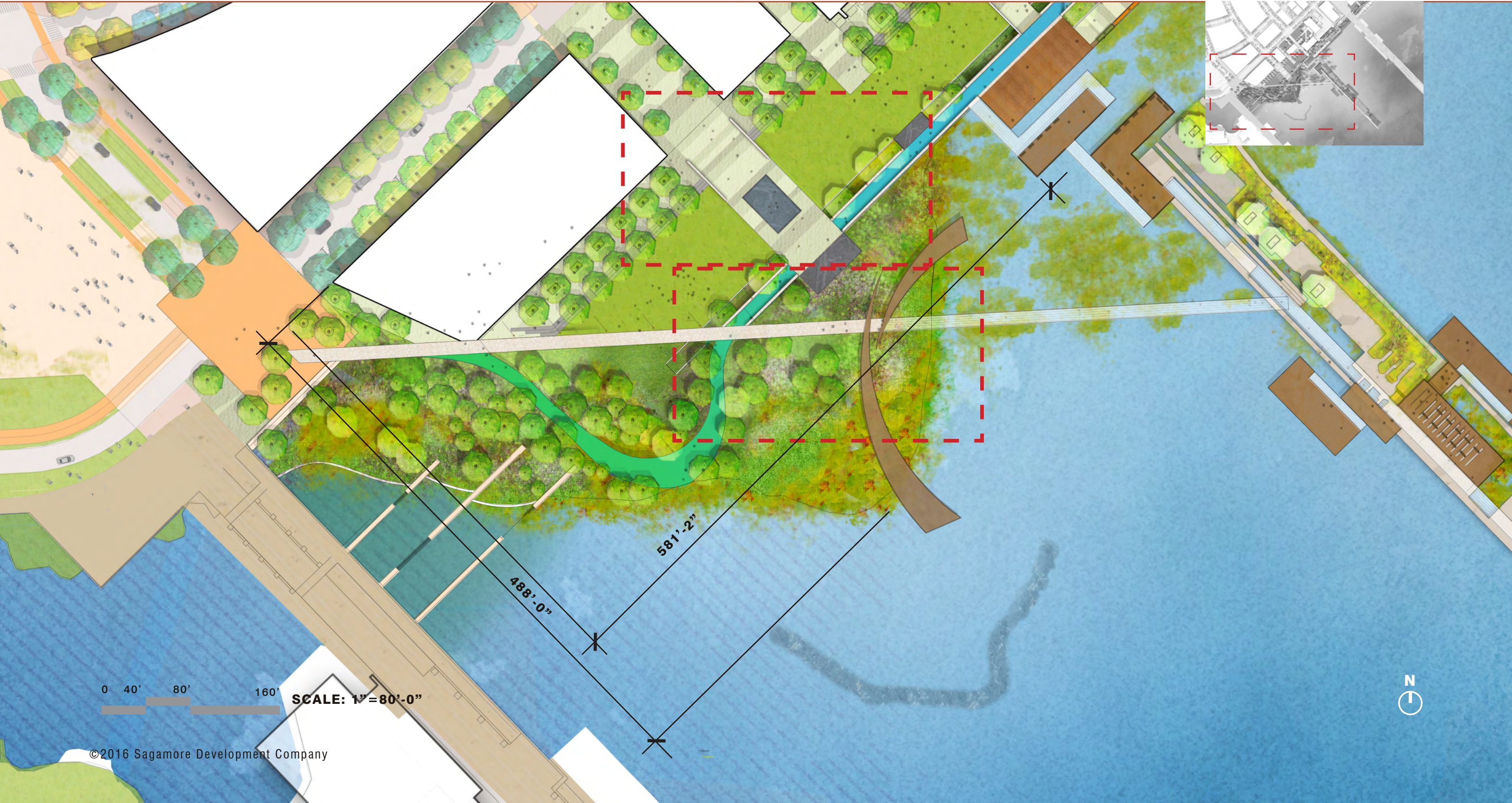
THE NEXT GREAT BALTIMORE BENCH



CLEATS

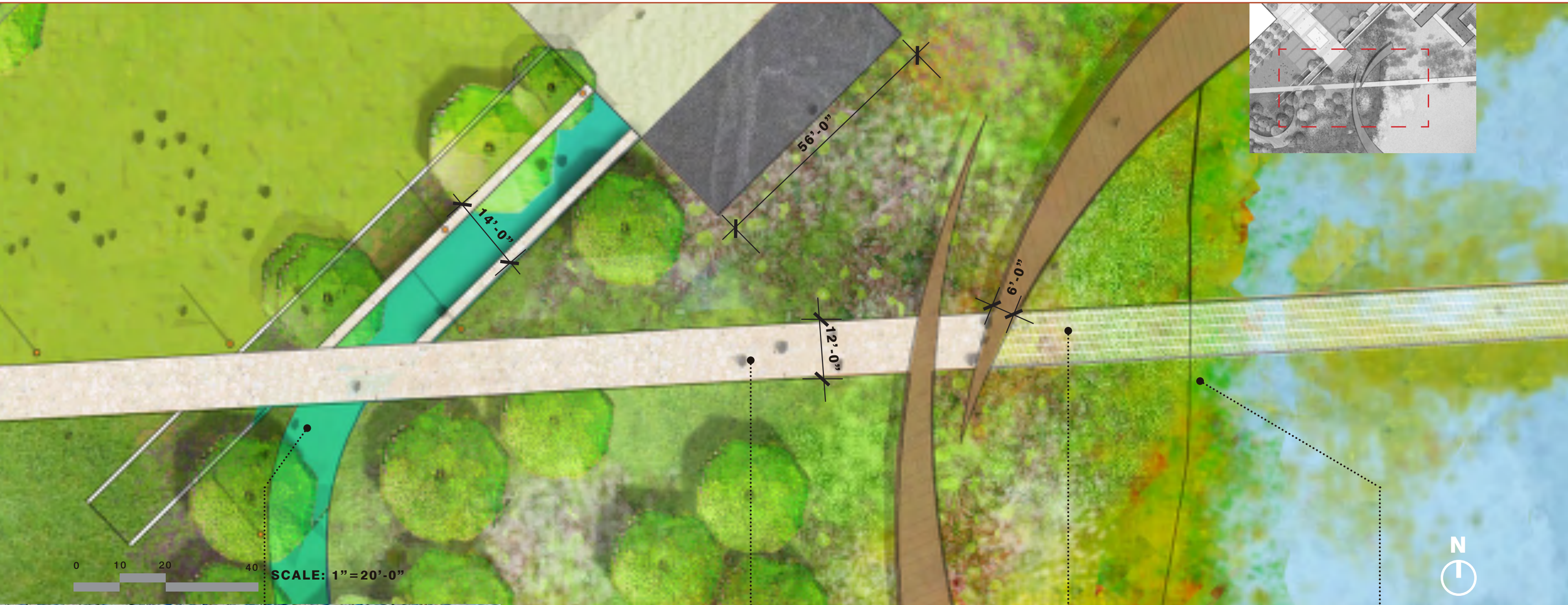


ECO PENINSULA SITE PLAN



0 40' 80' 160' **SCALE: 1"=80'-0"**

PATHS ENLARGEMENT PLAN



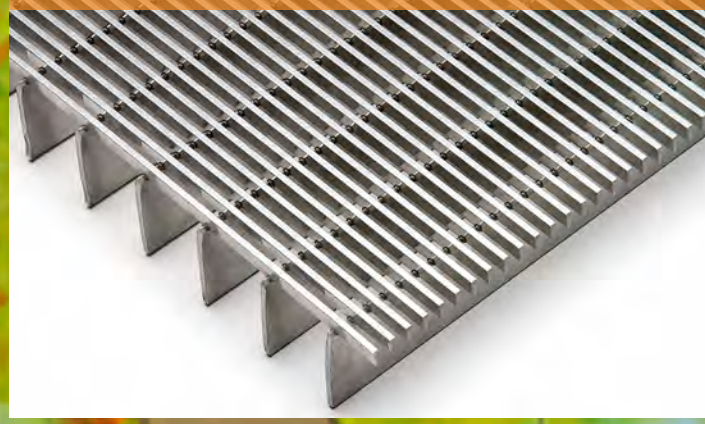
MULTIUSE PATH: GREEN & BLUE CONCRETE



WALKWAY: LIGHT DECORATIVE CONCRETE



BRIDGE: STAINLESS STEEL GRATE



INTERTIDAL PLANTING



PERCH ENLARGEMENT PLAN



CONCRETE: GRAY AGGREGATE



FOUNTAIN: WATER JETS



PAVING: GRANITE



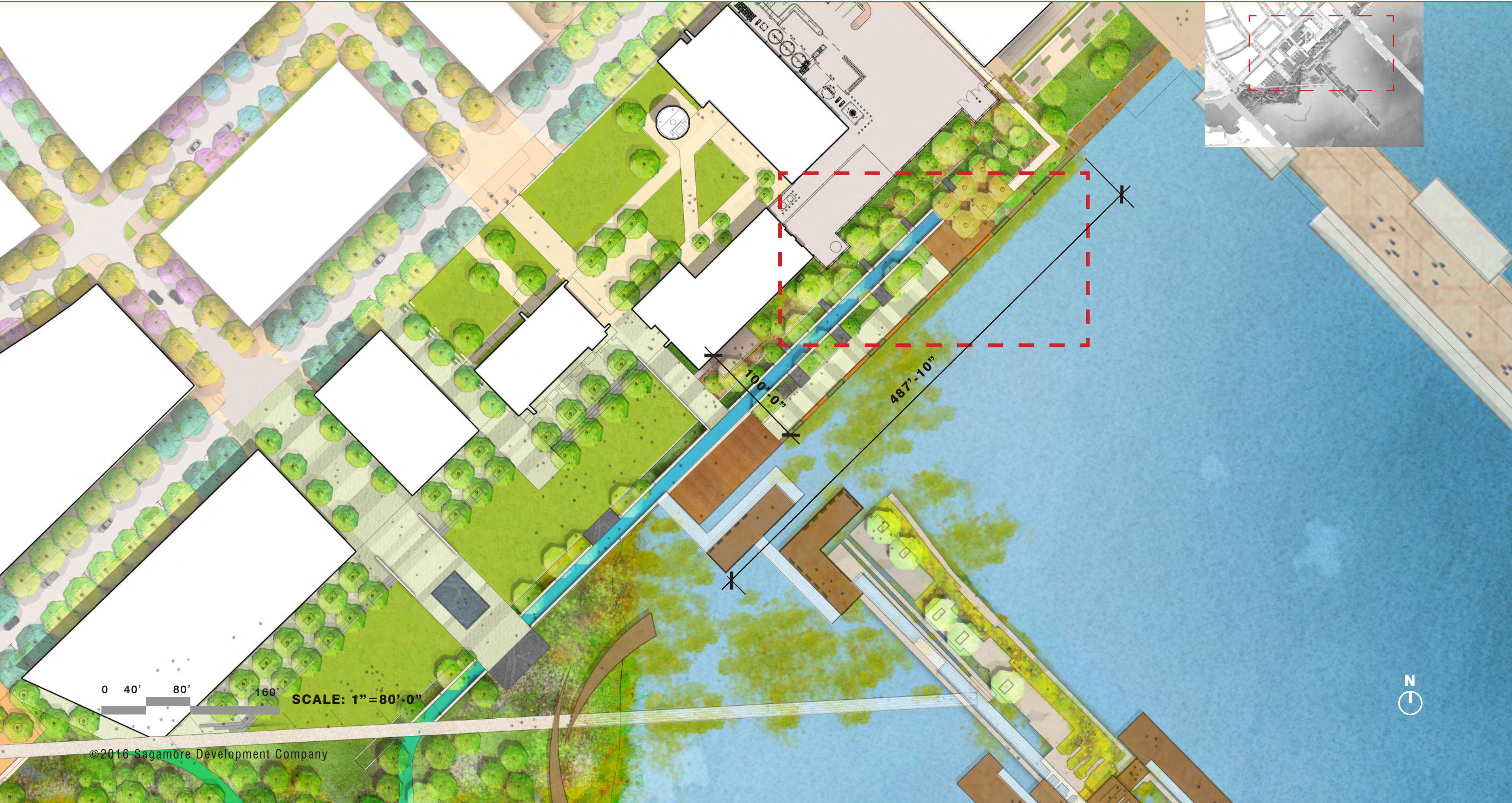
TERRACE: STONE STEPS



SUSTAINABLE WOOD DOCKS AND DECKS



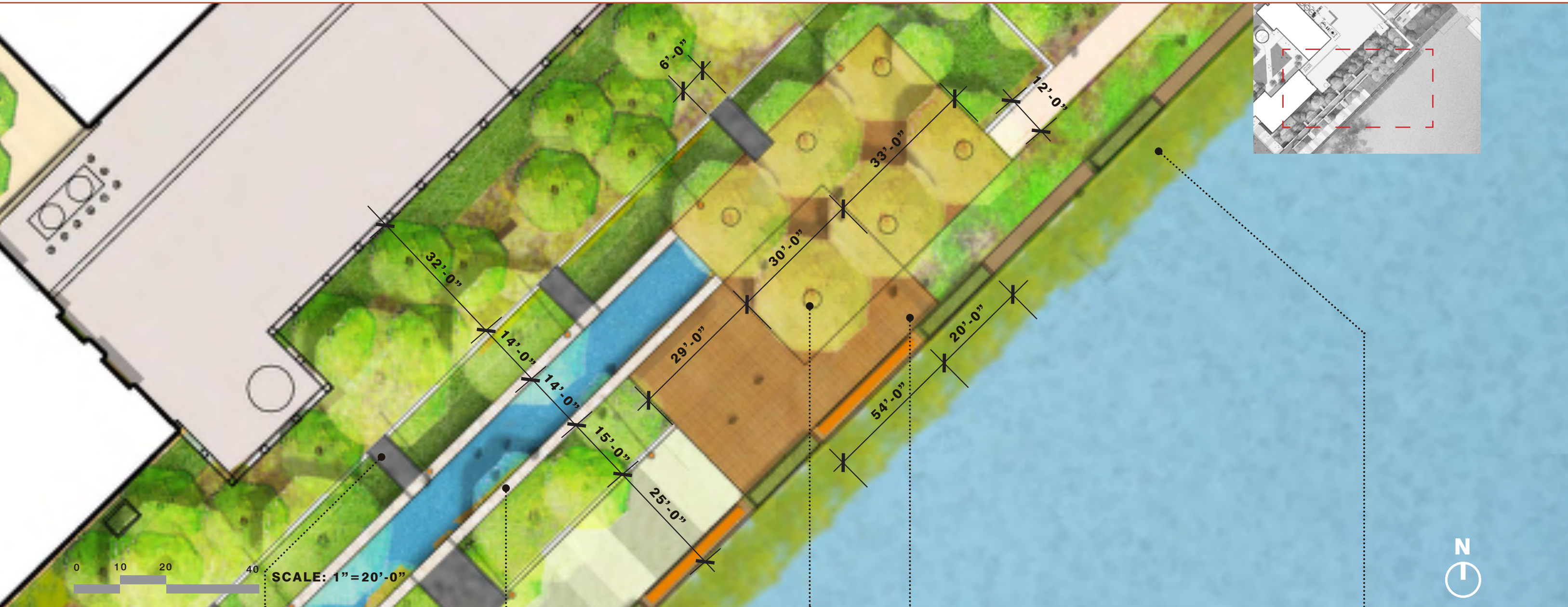
LINEAR PARK SITE PLAN



0 40' 80' 160' SCALE: 1"=80'-0"



LINEAR PARK ENLARGEMENT PLAN



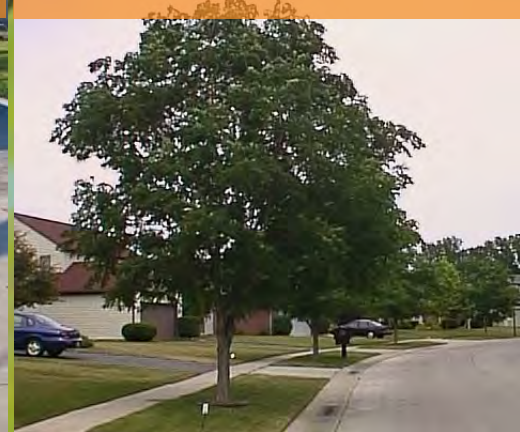
STONE BRIDGES



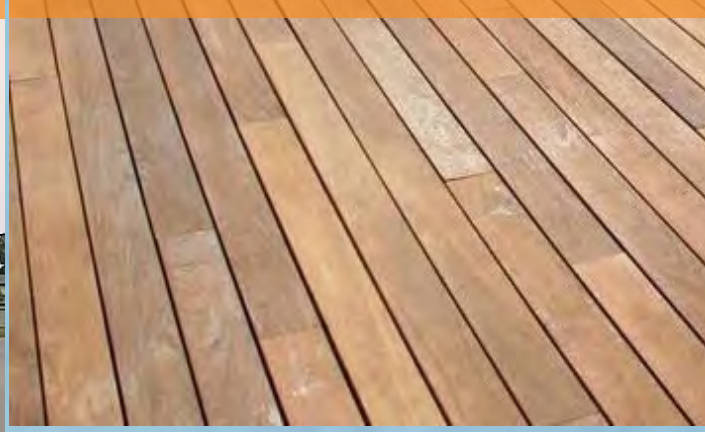
PATH EDGE: MOLDED CONCRETE



KENTUCKY COFFEETREE



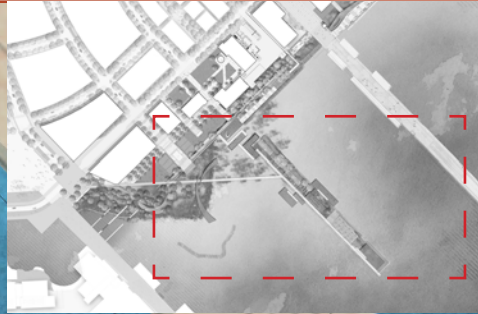
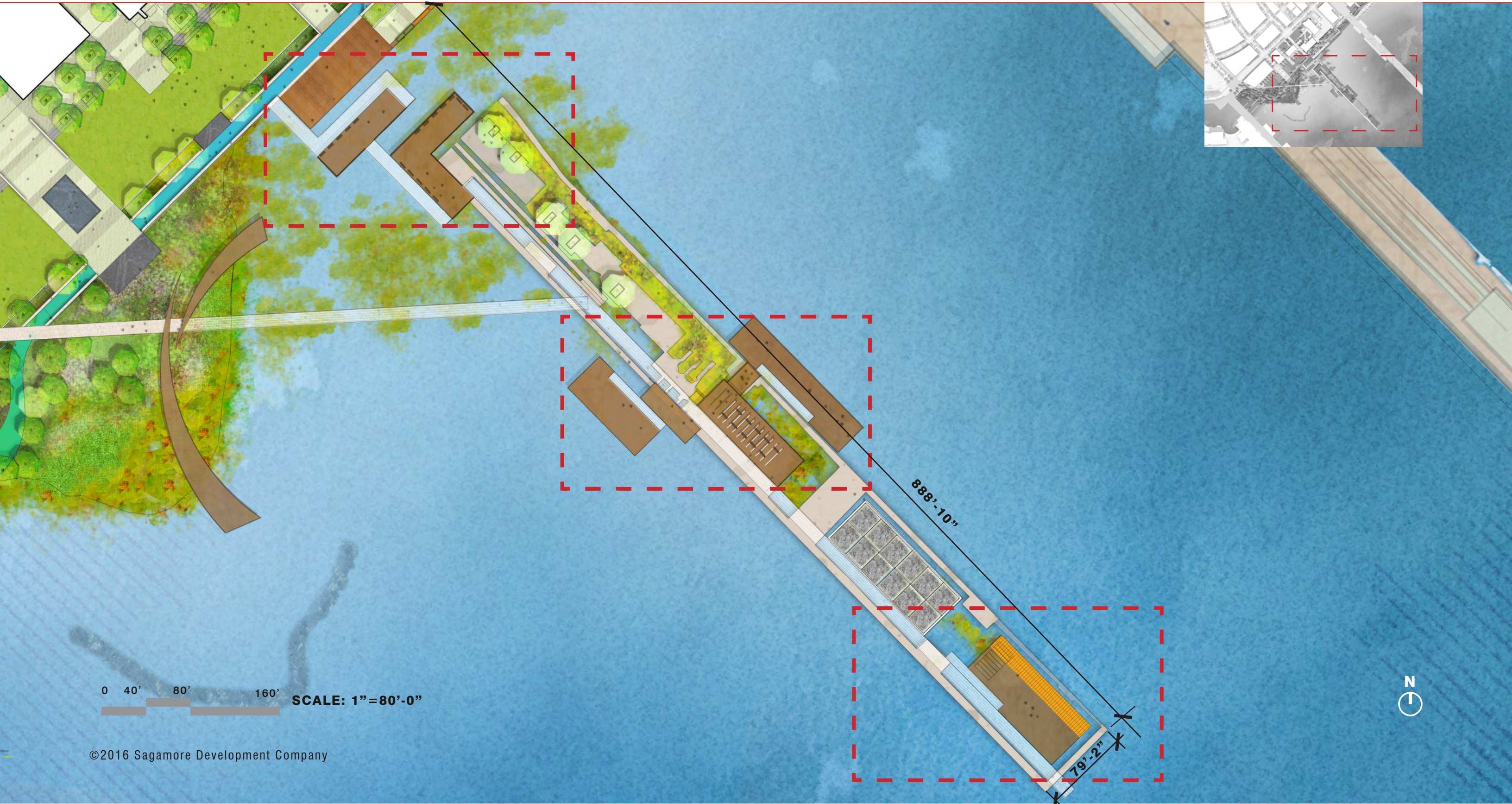
NORTH DECK: SUSTAINABLE WOOD



FLOATING WETLANDS



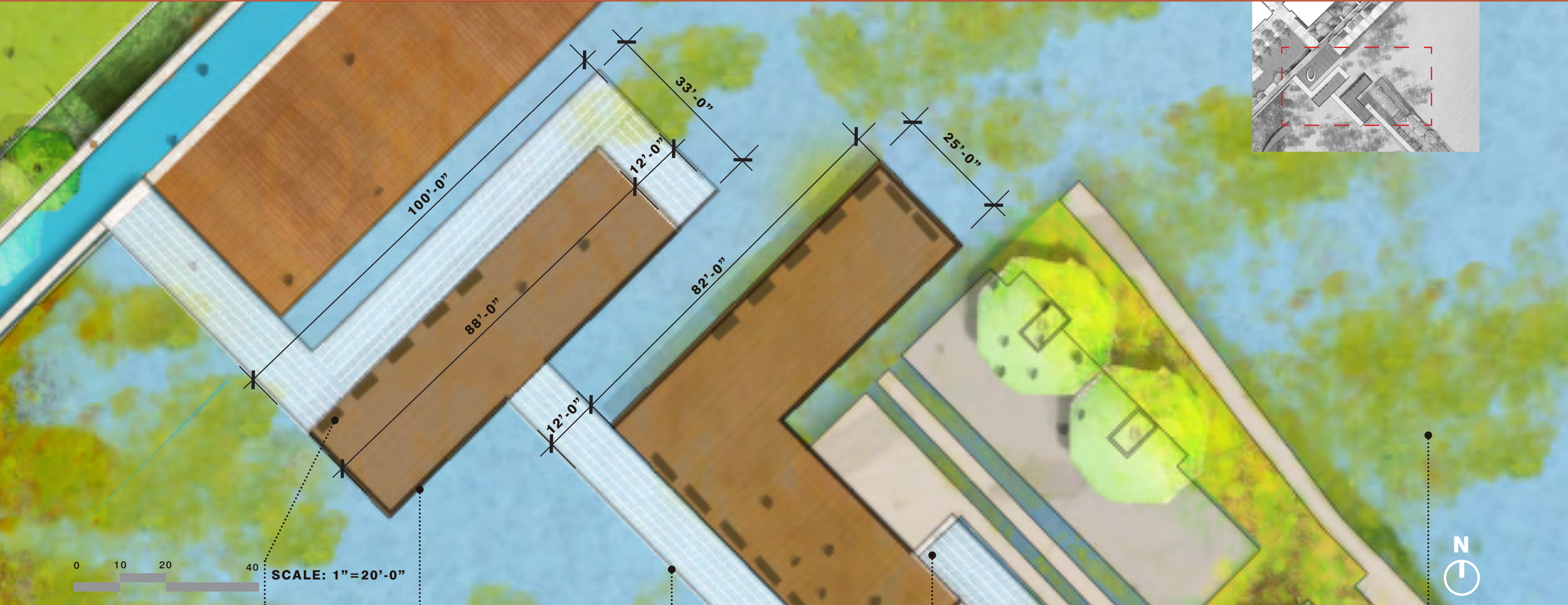
PIER SITE PLAN



0 40' 80' 160' SCALE: 1"=80'-0"



PIER ENLARGEMENT PLAN



CUSTOM BENCHES



GUARDRAIL I: STAINLESS WIDE PROFILE



GUARDRAIL II: STAINLESS



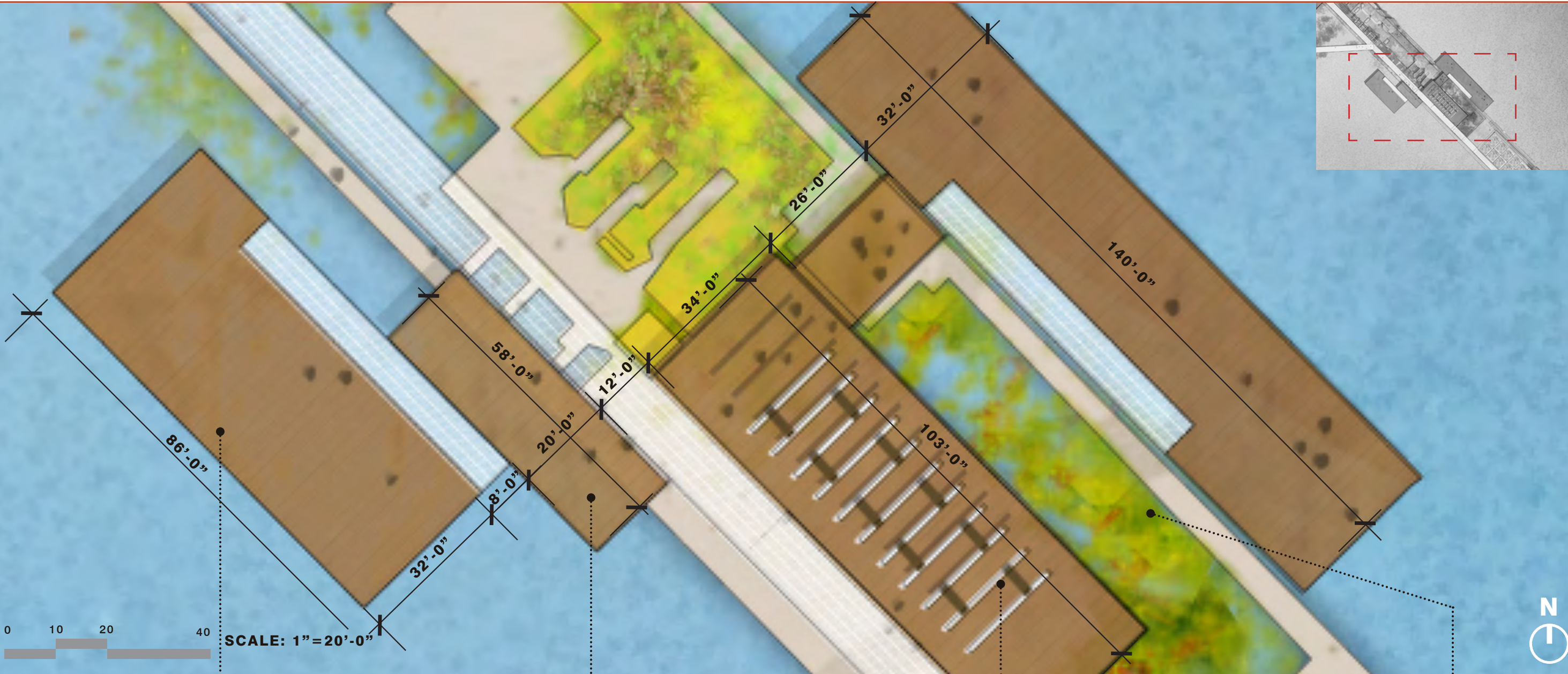
PIER WALKWAY: STAINLESS STEEL GRATE



FLOATING WETLANDS



PIER ENLARGEMENT PLAN



WATER TAXI LANDING: WOOD DOCK



ELEVATED DECK: WOOD



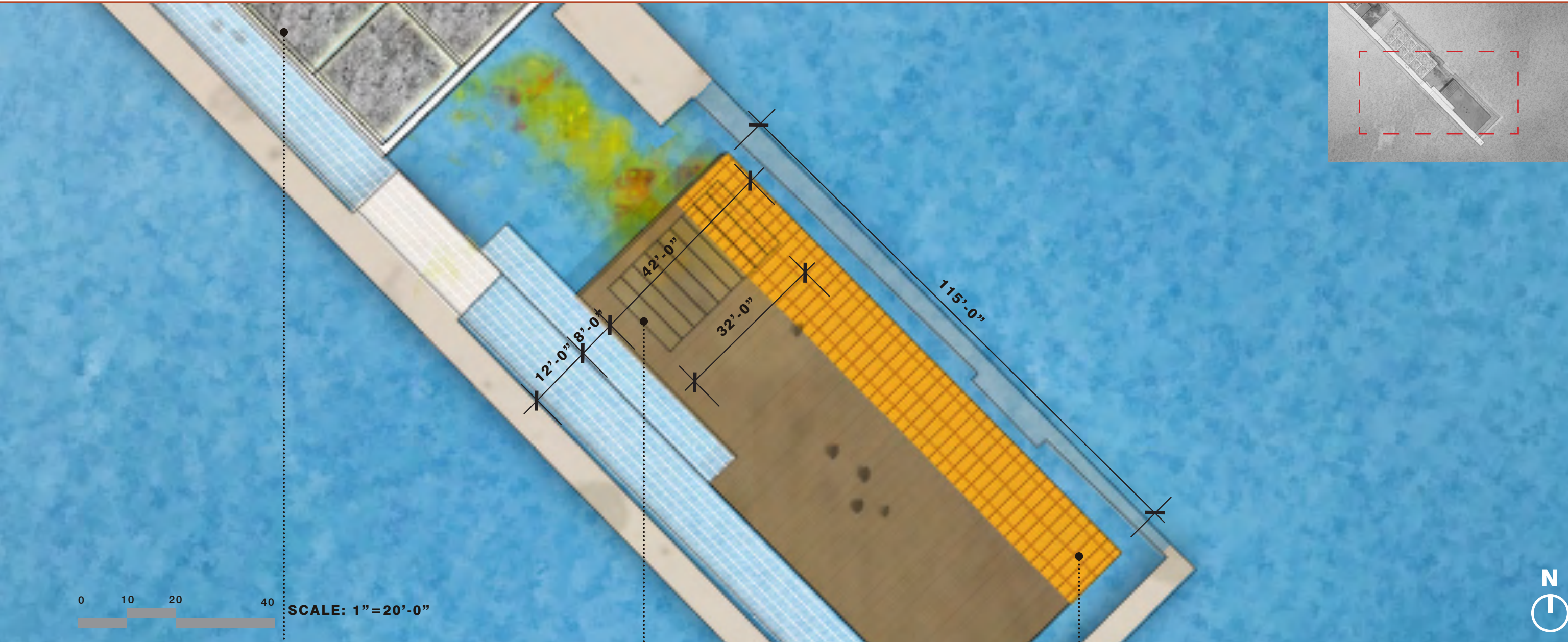
SHADE STRUCTURE: WOOD & STAINLESS STEEL



PIER GARDEN



PIER ENLARGEMENT PLAN



OYSTER NURSERY: WIRE BASKETS



KAYAK STORAGE: METAL TUBING RACKS



KAYAK LANDING: FIBERGLASS DECKING



PLANTING DIAGRAM



PLANT PALETTE

TERRACE

TREES



Acer saccharum

Red Maple

Height 40-80'
 Spread 30-60'
 Flower Green
 Bloom Time April
 Sun Full sun to part shade



Acer rubrum 'Bow-hall'
Red Maple

Height 40-50'
 Spread 15-25'
 Flower Red
 Bloom Time March-April
 Sun Full sun to part shade



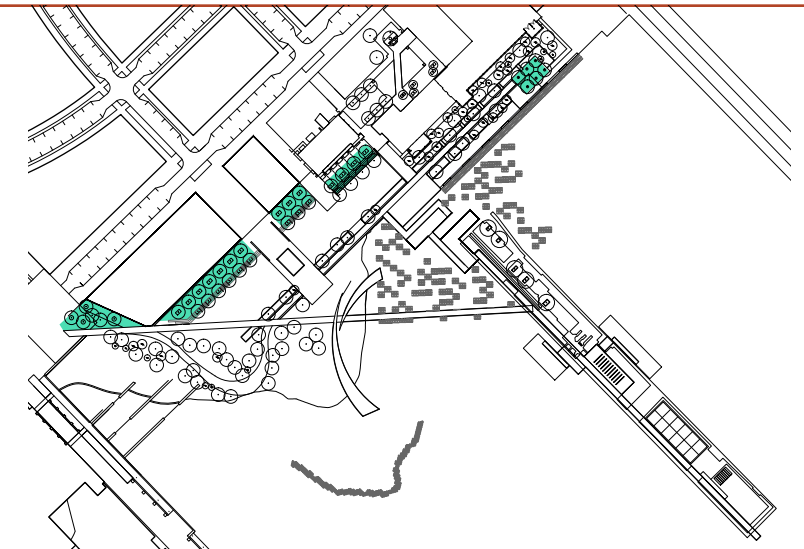
Acer rubrum 'Red Sunset'
Red Maple

Height 40-50'
 Spread 30-40'
 Flower White
 Bloom Time July-August
 Sun Full sun to part shade



Amelanchier arborea
Serviceberry

Height 15-25'
 Spread 15-25'
 Flower White
 Bloom Time March-April
 Sun Full sun



Gleditsia triacanthos 'Shademaster'
Seedless Honeylocust

Height 50-60'
 Spread 35-40'
 Flower Green
 Bloom Time May-June
 Sun Full sun



Gymnocladis dioica
Kentucky Coffeetree

Height 60-80'
 Spread 40-55'
 Flower Green
 Bloom Time May
 Sun Full sun



Nyssa sylvatica
Black Gum

Height 30-50'
 Spread 20-30'
 Flower Green
 Bloom Time May
 Sun Full sun to part shade



Quercus phellos
Willow Oak

Height 50-70'
 Spread 40-60'
 Flower Green
 Bloom Time April
 Sun Full sun



Ulmus americana 'Valley Forge'
American Elm

Height 60-70'
 Spread 50-60'
 Flower Green
 Bloom Time March
 Sun Full sun to part shade

PLANT PALETTE

MEADOW

HERBACEOUS



Agastache foeniculum

Anise Hyssop
 Height 2-4'
 Spread 1-3'
 Flower Purple
 Bloom Time June-August
 Sun Full sun to part shade



Asclepias syriaca

Milkweed
 Height 2-3'
 Spread 1'
 Flower Pink
 Bloom Time June-August
 Sun Full sun



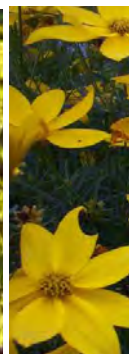
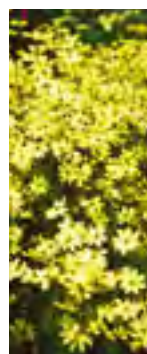
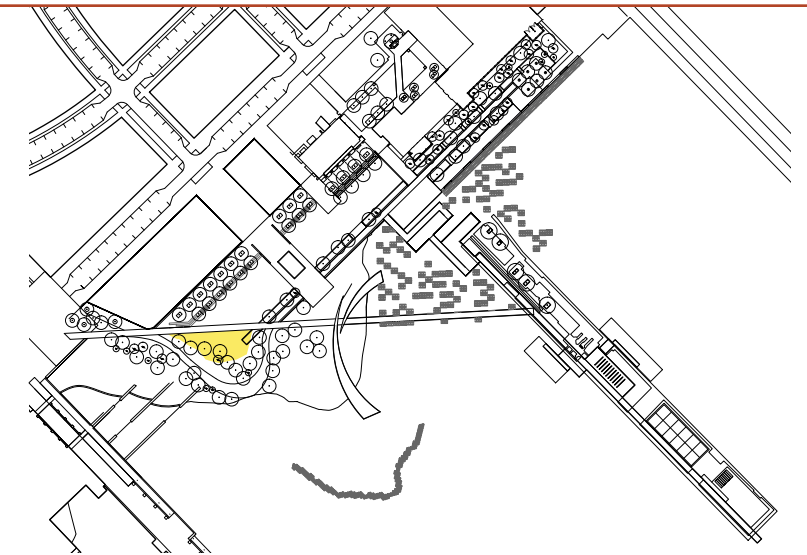
Asclepias tuberosa

Butterfly Milkweed
 Height 1-3'
 Spread 1-2'
 Flower Orange
 Bloom Time June-August
 Sun Full sun



Aster novae angliae

New England Aster
 Height 18"-2'
 Spread 2-3'
 Flower Purple
 Bloom Time August - September
 Sun Full sun



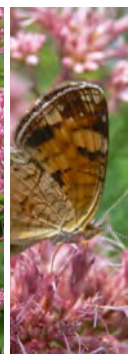
Coreopsis verticillata
Threadleaf Coreopsis

Height 2.5-3'
 Spread 1.5-2'
 Flower Yellow
 Bloom Time June - September
 Sun Full sun



Echinacea purpurea

Purple Coneflower
 Height 2-5'
 Spread 18"-2'
 Flower Purple
 Bloom Time June-August
 Sun Full sun to part shade



Eupatorium fistulosum
Joe Pye Weed

Height 4-7'
 Spread 2-4'
 Flower Rose
 Bloom Time July-September
 Sun Full sun to part shade



Monarda fistulosa

Wild Bergamot
 Height 2-4'
 Spread 2-3'
 Flower Purple
 Bloom Time July-September
 Sun Full sun to part shade



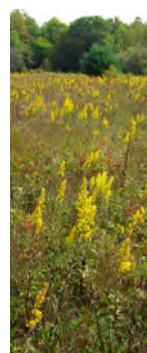
Schizachyrium scoparium

Little Bluestem
 Height 2-4'
 Spread 1-2'
 Flower Purple
 Bloom Time August-February
 Sun Full sun



Solidago canadensis

Wild Goldenrod
 Height 4-5'
 Spread 4-5'
 Flower Yellow
 Bloom Time August-October
 Sun Full sun



Solidago speciosa

Showy Goldenrod
 Height 2-3'
 Spread 2-3'
 Flower Yellow
 Bloom Time July-September
 Sun Full sun

PLANT PALETTE

UPLAND COASTAL

TREES



Carya ovata

Shagbark Hickory

Height	70-90'
Spread	50-70'
Flower	Green
Bloom Time	April-May
Sun	Full sun to part shade



Chionanthus virginicus

Fringe Tree

Height	12-20'
Spread	12-20'
Flower	White
Bloom Time	May-June
Sun	Full sun to part shade



Diospyros virginia

Common Persimmon

Height	50-60'
Spread	35-50'
Flower	White
Bloom Time	May-June
Sun	Full sun to part shade



Juniperus virginiana

Eastern Red Cedar

Height	30-65'
Spread	8-25'
Flower	N/A
Bloom Time	N/A
Sun	Full sun



Pinus taeda

Loblolly Pine

Height	40-90'
Spread	20-40'
Flower	N/A
Bloom Time	N/A
Sun	Full sun



Pinus virginiana

Virginia Pine

Height	15-30'
Spread	10-20'
Flower	N/A
Bloom Time	N/A
Sun	Full sun



Quercus imbricaria

Shingle Oak

Height	40-60'
Spread	40-60'
Flower	Green
Bloom Time	April
Sun	Full sun



Quercus macrocarpa

Bur Oak

Height	60-80'
Spread	60-80'
Flower	Green
Bloom Time	April
Sun	Full sun



Comptonia peregrina

Sweetfern

Height	2-5'
Spread	4-8'
Flower	Yellow
Bloom Time	April-May
Sun	Full sun to part shade

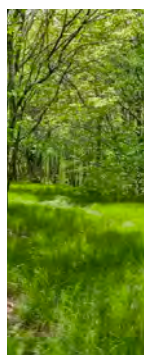


Rhus copallinum

Winged Sumac

Height	7-15'
Spread	10-20'
Flower	Green
Bloom Time	July-August
Sun	Full sun to partial shade

HERBACEOUS



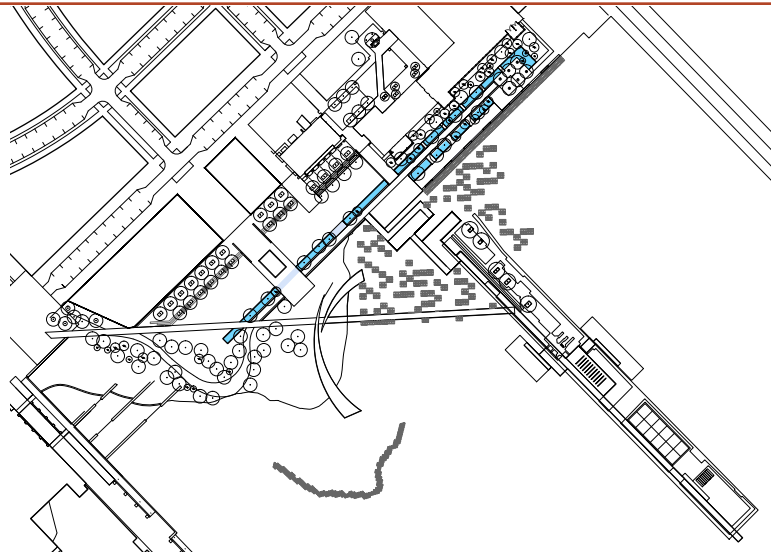
Carex appalachia

Appalachian Sedge

Height	6"
Spread	1'
Flower	Green
Bloom Time	April
Sun	Partial shade

PLANT PALETTE

MULTIUSE PATH AND BIORETENTION CHANNEL



TREES



Cercis canadensis
Eastern Redbud

Height	20-30'
Spread	25-35'
Flower	Pink
Bloom Time	April
Sun	Full sun to part shade



Chionanthus virginicus
Fringe Tree

Height	12-20'
Spread	12-20'
Flower	White
Bloom Time	May-June
Sun	Full sun to part shade



Halesia caroliniana
Silverbell

Height	30-40'
Spread	25-35'
Flower	White
Bloom Time	April-May
Sun	Full sun to part shade



Magnolia grandiflora
Southern Magnolia

Height	60-80'
Spread	30-50'
Flower	White
Bloom Time	May-June
Sun	Full sun to part shade

SHRUBS



Magnolia virginiana
Sweetbay Magnolia

Height	30-40'
Spread	20-30'
Flower	White
Bloom Time	June
Sun	Full sun to part shade



Platanus occidentalis
Sycamore

Height	75-100'
Spread	50-70'
Flower	Yellow
Bloom Time	April
Sun	Full sun



Amorpha fruticosa
False Indigo

Height	4-12'
Spread	6-15'
Form	Woody Shrub
Native	Yes
Habitat Value	Intermediate



Aronia arbutifolia
Chokeberry

Height	6-12'
Spread	3-6'
Flower	White
Bloom Time	April
Sun	Full sun to part shade



Lindera benzoin
Spicebush

Height	6-12'
Spread	6-12'
Flower	Yellow
Bloom Time	March
Sun	Full sun to part shade



Myrica pensylvanica
Bayberry

Height	5-10'
Spread	5-10'
Flower	Green
Bloom Time	May
Sun	Full sun to part shade

HERBACEOUS



Rosa virginiana
Virginia Rose

Height	4-5'
Spread	2-4'
Flower	Pink
Bloom Time	June
Sun	Full sun



Andropogon virginicus
Broom Sedge

Height	2-3'
Spread	2-3'
Flower	Purple
Bloom Time	September - February
Sun	Full sun



Aster novae angliae
New England Aster

Height	18"-2'
Spread	2-3'
Flower	Purple
Bloom Time	August - September
Sun	Full sun



Acorus americanus
American Sweet Flag

Height	2-3'
Spread	2-3'
Flower	Brown
Bloom Time	August-October
Sun	Full sun



Carex stricta
Tussock Sedge

Height	2-3'
Spread	2-3'
Flower	Brown
Bloom Time	August-October
Sun	Full sun



Iris versicolor
Blue Flag Iris

Height	2-3'
Spread	2-3'
Flower	Brown
Bloom Time	August-October
Sun	Full sun

PLANT PALETTE SHORELINE

SHRUBS



Baccharis halimifolia
Groundsel

Height	5-12'
Spread	5-12'
Flower	White
Bloom Time	August-September
Sun	Full sun to part shade



Ilex glabra 'Shamrock'
Inkberry

Height	3-4'
Spread	3-4'
Flower	White
Bloom Time	May-June
Sun	Full sun to part shade



Myrica cerifera
Southern Bayberry

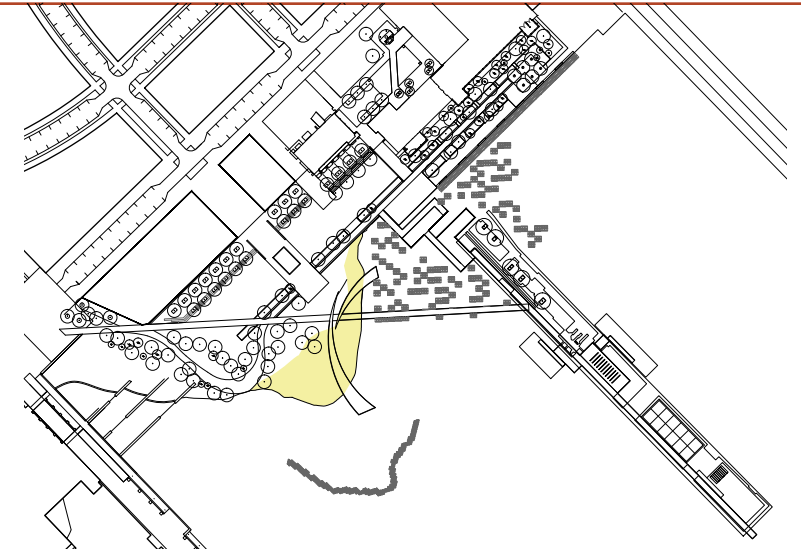
Height	12'
Spread	8-10'
Flower	Green
Bloom Time	April
Sun	Full sun to part shade

HERBACEOUS



Distichlis spicata
Spike Grass

Height	6-8"
Spread	4-6"
Flower	Yellow
Bloom Time	April-October
Sun	Full sun



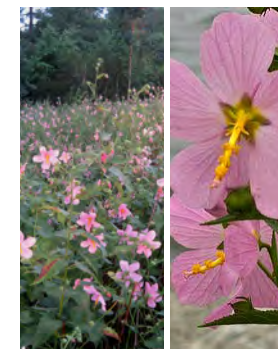
Hibiscus moscheutos
Marsh Hibiscus

Height	3-7'
Spread	2-4'
Flower	Pink
Bloom Time	July-September
Sun	Full sun



Juncus effusus
Common Rush

Height	2-4'
Spread	2-4'
Flower	Yellow
Bloom Time	June-August
Sun	Full sun



Kosteletzkya virginica
Seashore Mallow

Height	3-4'
Spread	2-3'
Flower	Pink
Bloom Time	June-September
Sun	Full sun



Panicum virgatum
Switchgrass

Height	3-4'
Spread	2-3'
Flower	Pink
Bloom Time	July-February
Sun	Full sun



Scirpus robustus
Saltmarsh Bullrush

Height	5-15'
Spread	2-3'
Flower	Brown
Bloom Time	July-October
Sun	Full sun



Solidago sempervirens
Seaside Goldenrod

Height	3-6'
Spread	2-3'
Flower	Yellow
Bloom Time	August-October
Sun	Full sun



Spartina patens
Saltmeadow Cord Grass

Height	1-3'
Spread	1-2'
Flower	Green
Bloom Time	May-August
Sun	Full sun

PLANT PALETTE WETLANDS

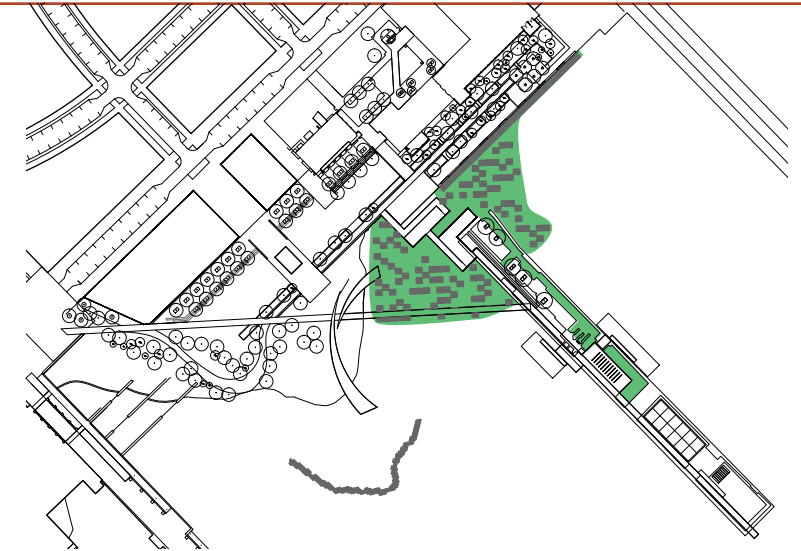
TREES



Taxodium distichum

Bald Cypress

Height	50-100'
Spread	20-45'
Flower	N/A
Bloom Time	N/A
Sun	Full sun



HERBACEOUS



Juncus gerardii

Saltmeadow Rush

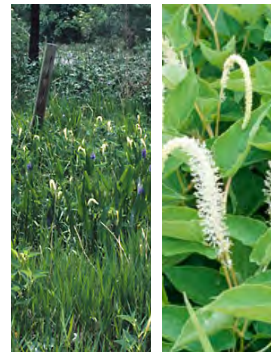
Height	1-2'
Spread	1'
Flower	Greenish
Bloom Time	July-October
Sun	Full sun



Juncus roemerianus

Blackneedle Thrush

Height	1-6'
Spread	1'
Flower	Greenish
Bloom Time	July-October
Sun	Full sun



Soururus cernuus

Lizard's Tail

Height	1-5'
Spread	1-2'
Flower	Greenish
Bloom Time	July-October
Sun	Full sun



Scirpus americanus

Three Square Bulrush

Height	2-4'
Spread	1-2'
Flower	Greenish
Bloom Time	July-October
Sun	Full sun



Spartina alterniflora

Smooth Cordgrass

Height	4-5'
Spread	1-2'
Flower	Greenish
Bloom Time	July-October
Sun	Full sun



Spartina cynosuroides

Big Cordgrass

Height	4-10'
Spread	1-2'
Flower	Greenish
Bloom Time	July-October
Sun	Full sun

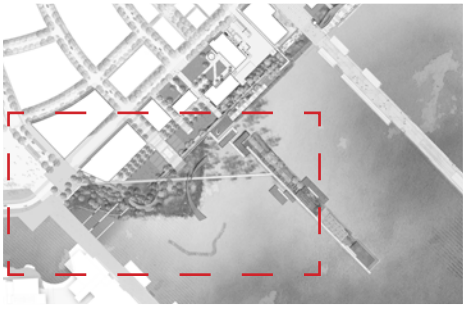


Zizania aquatica

Wild Rice

Height	6-10'
Spread	1-2'
Flower	Greenish
Bloom Time	July-October
Sun	Full sun

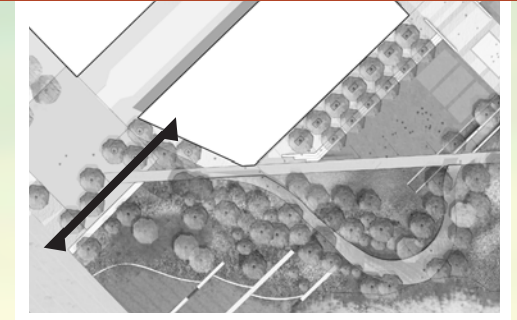
ECO PENINSULA SITE PLAN



0 40' 80' 160' **SCALE: 1"=80'-0"**



SOUTHWEST ENTRANCE



MULTIUSE PATH ENTRANCE

21' - 6"

0 4 8 16

PLANTING ZONE

31' - 0"

DIAGONAL PATH

18' - 0"

LINEAR SEATWALL (BY OTHERS)

SCALE: 1/8" = 1'-0"

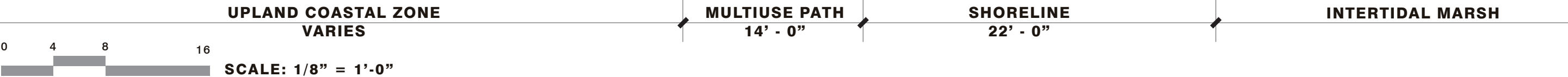
ECO PENINSULA PERSPECTIVE



MULTIUSE PATH PERSPECTIVE



MULTIUSE PATH AT INTERTIDAL MARSH



MULTIUSE PATH AT OVERLOOK



**UPLAND COASTAL ZONE
VARIES**

0 4 8 16

SCALE: 1/8" = 1'-0"

**MULTIUSE PATH
30' - 0"**

**SHORELINE
VARIES**

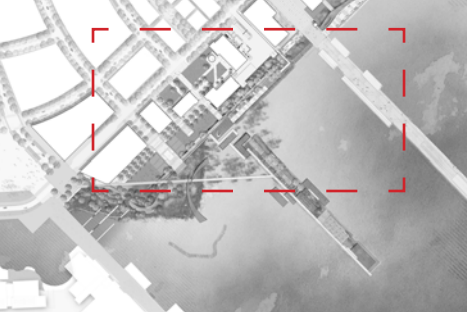
**INTERTIDAL MARSH
VARIES**

**BREAKWATER
12' - 0" +/-**

PERCH PERSPECTIVE



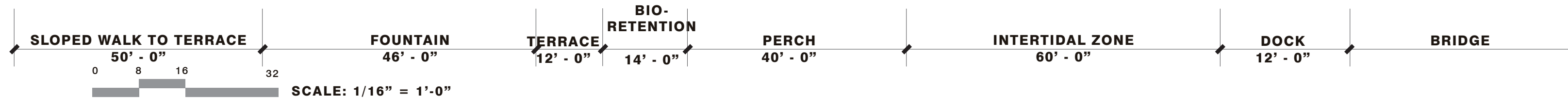
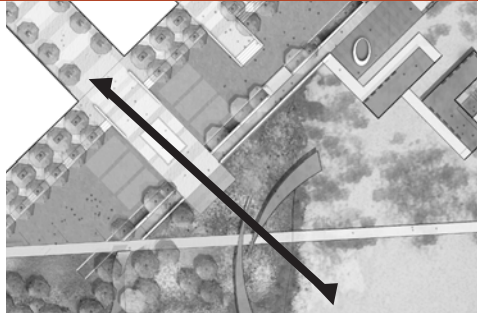
LINEAR PARK SITE PLAN



0 40' 80' 160' SCALE: 1"=80'-0"



FOUNTAIN AND PERCH

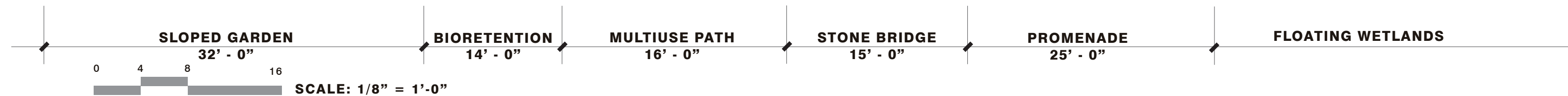


SCALE: 1/16" = 1'-0"

LINEAR PARK PERSPECTIVE



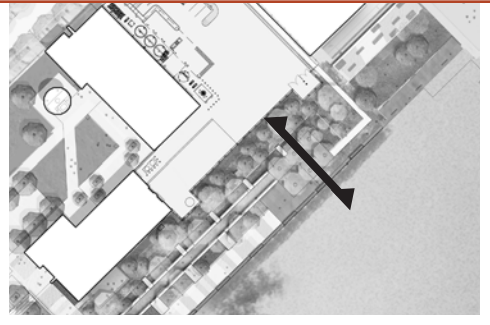
LINEAR PARK WALKWAY



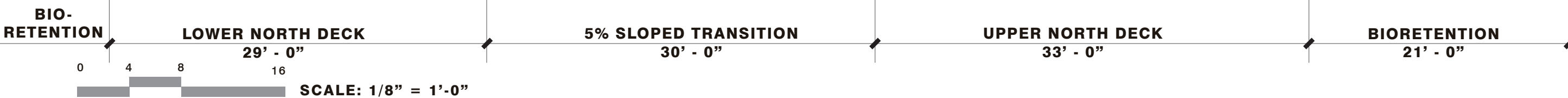
LINEAR PARK PERSPECTIVE



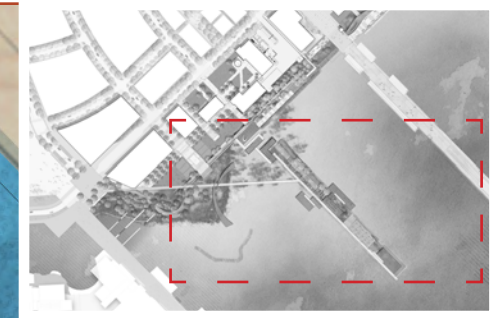
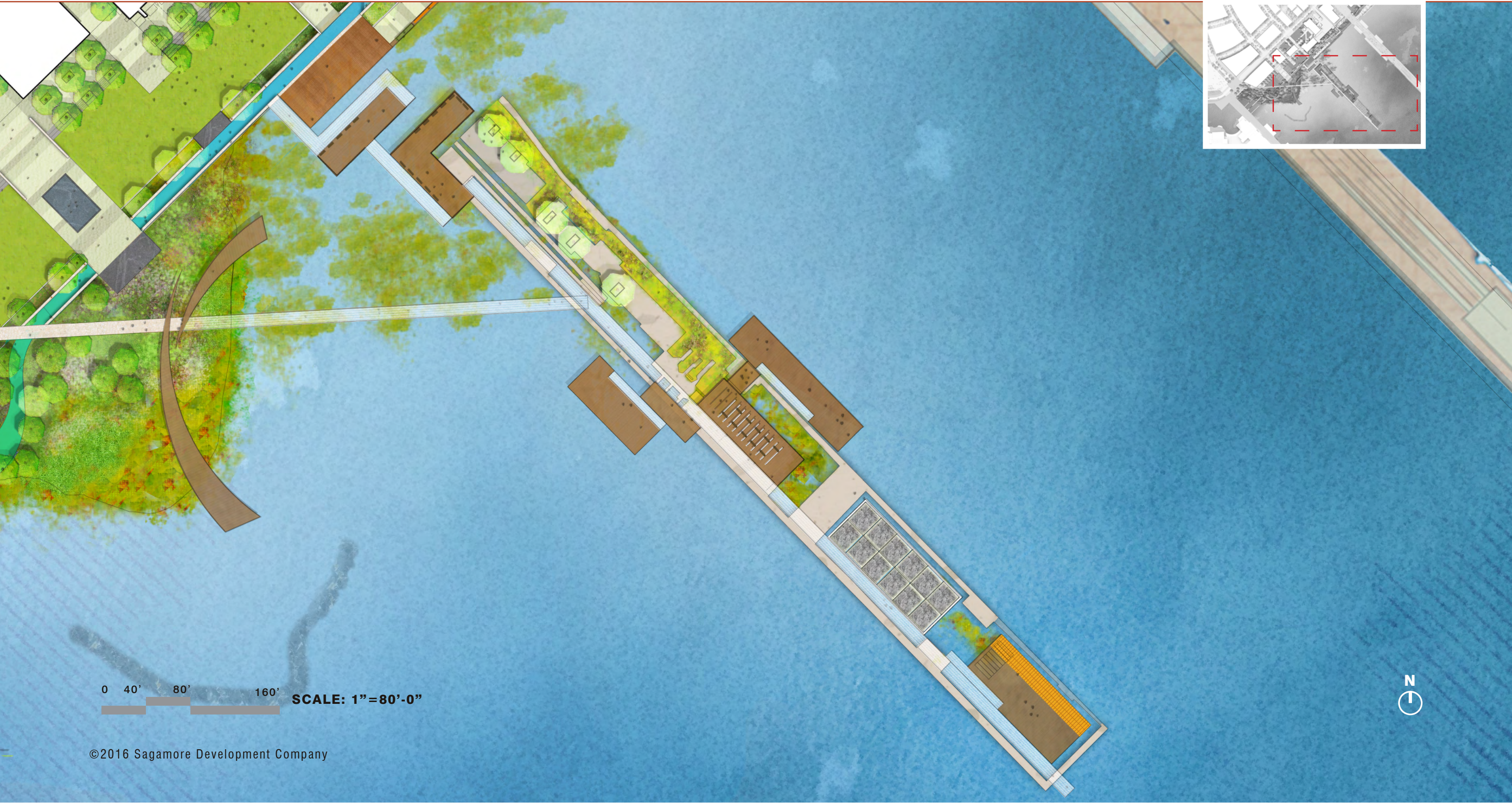
LINEAR PARK AT NORTH DECK



LINEAR PARK AT NORTH DECK



PIER SITE PLAN



0 40' 80' 160' SCALE: 1"=80'-0"



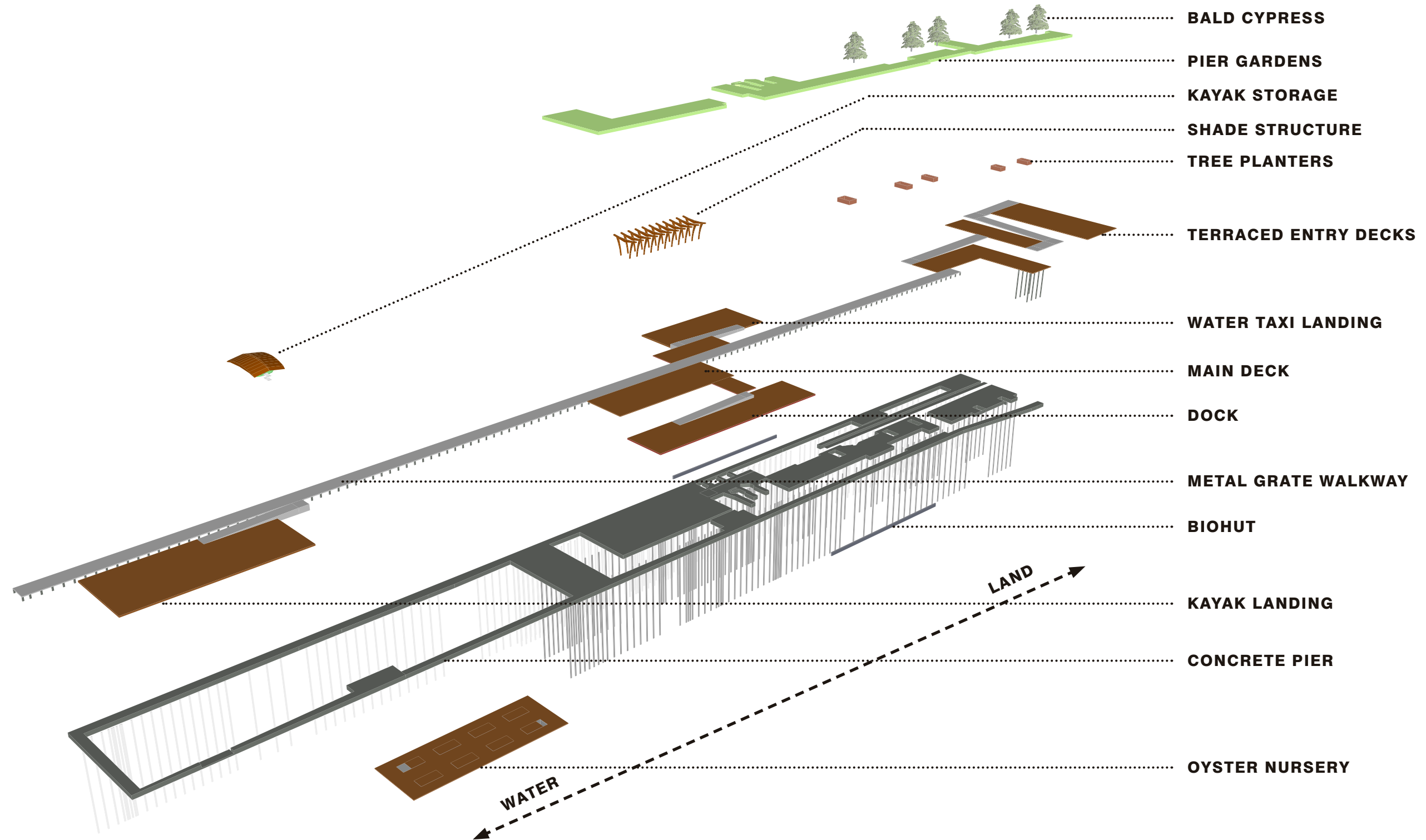
PIER AXONOMETRIC

VEGETATION

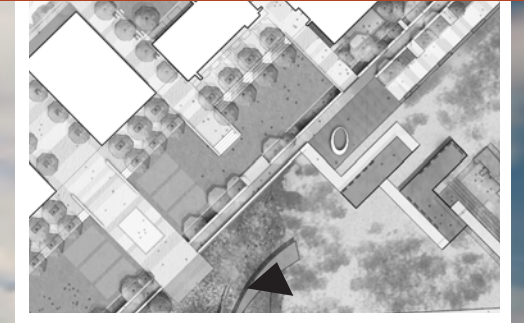
SITE ELEMENTS

SUPERSTRUCTURE

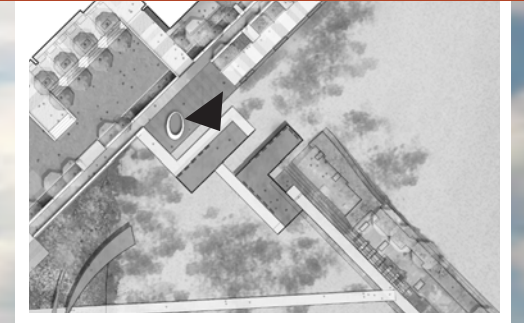
EXISTING STRUCTURE



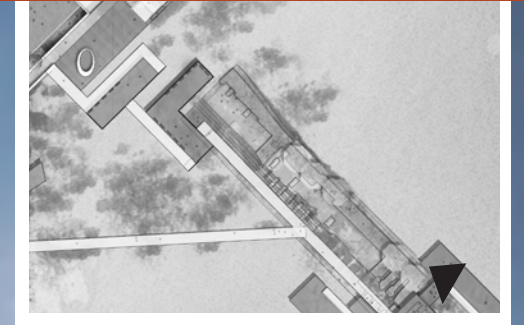
VIEW FROM PENINSULA



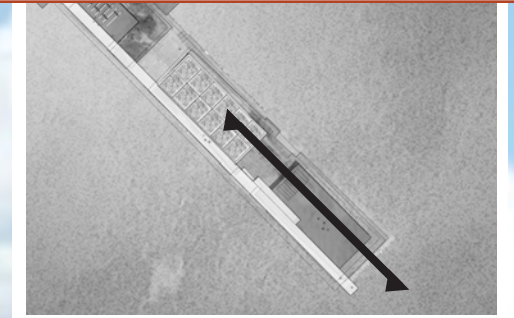
PIER VIEW



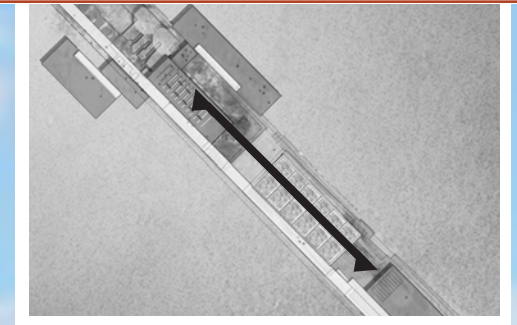
SHORELINE PERSPECTIVE



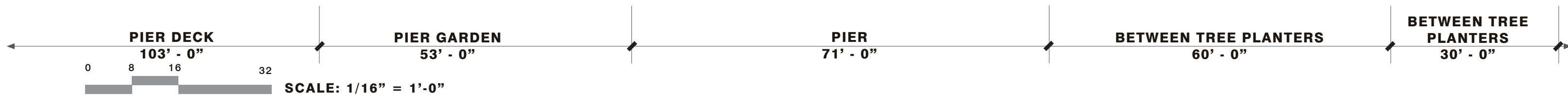
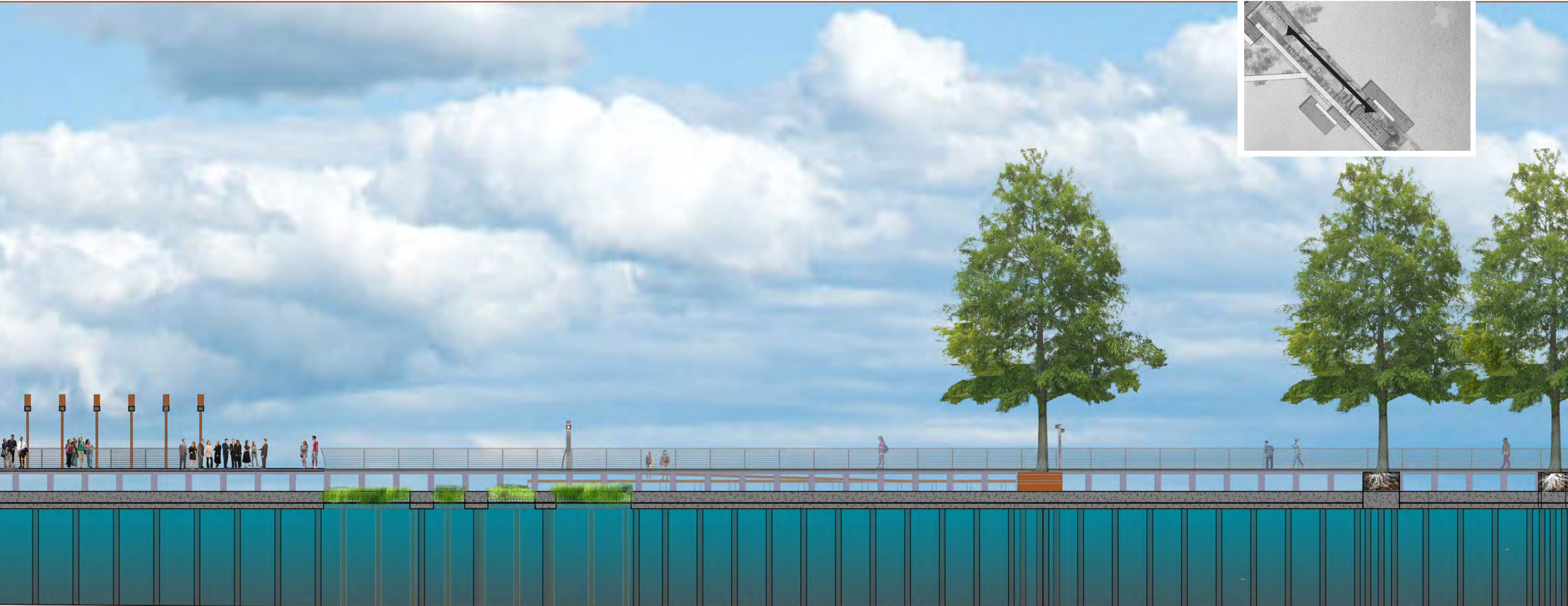
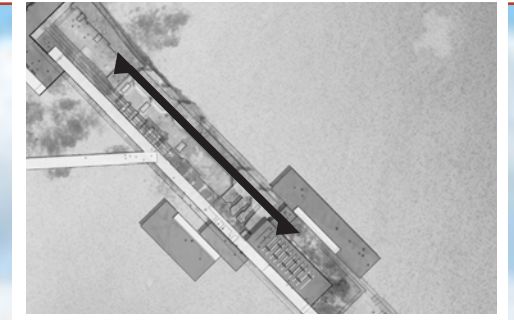
PIER SECTION 1



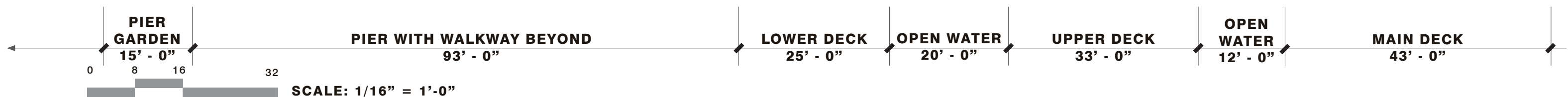
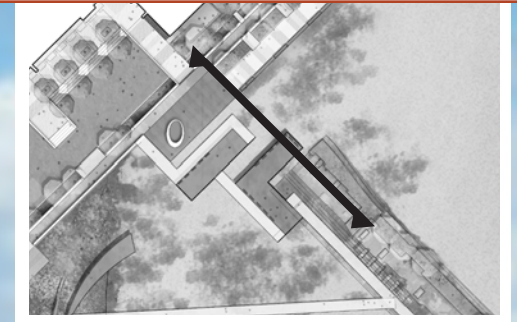
PIER SECTION 2



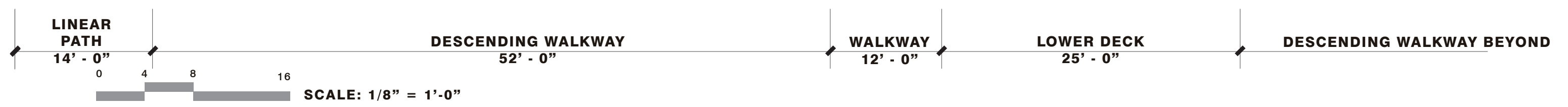
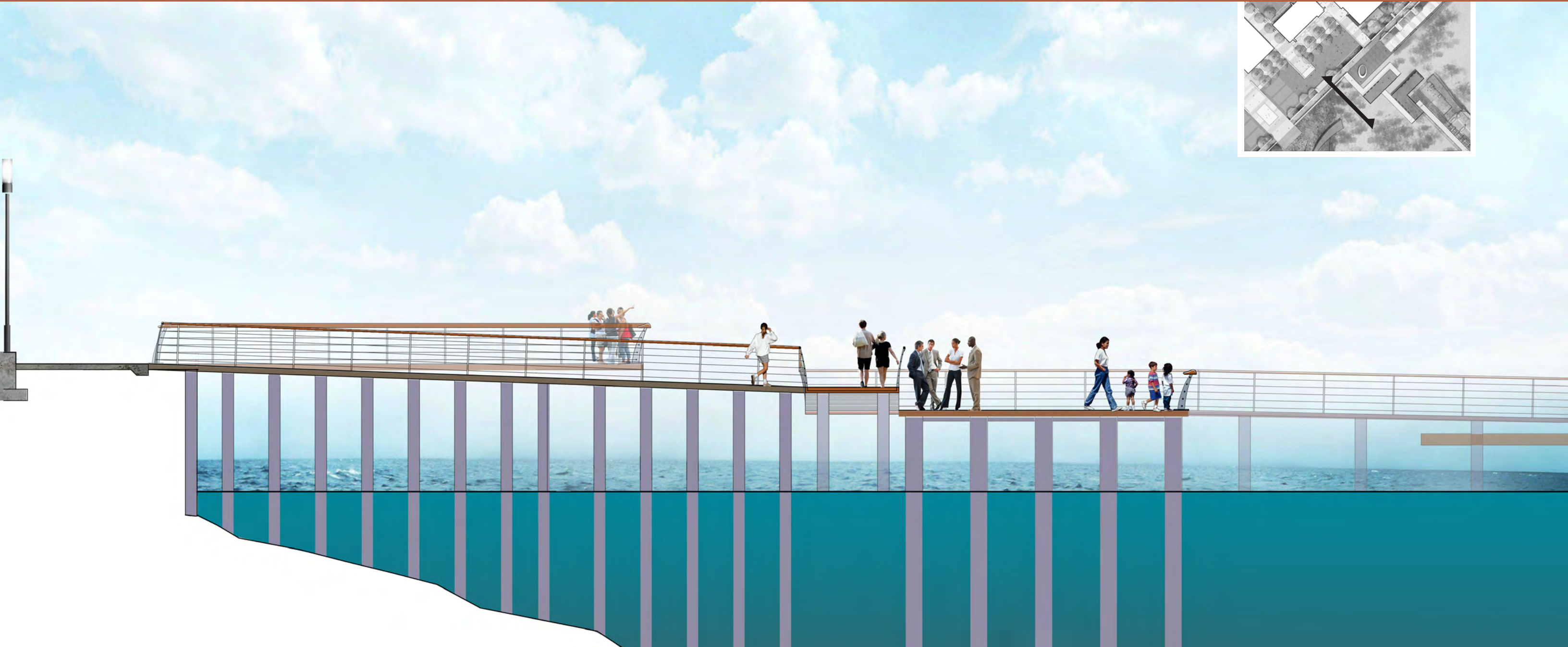
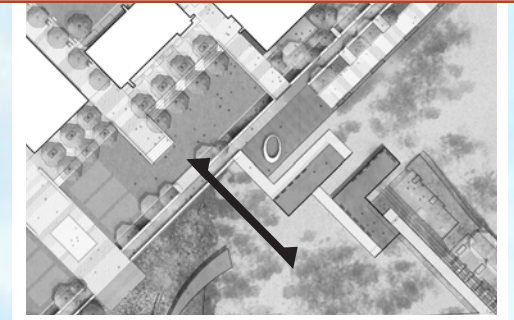
PIER SECTION 3



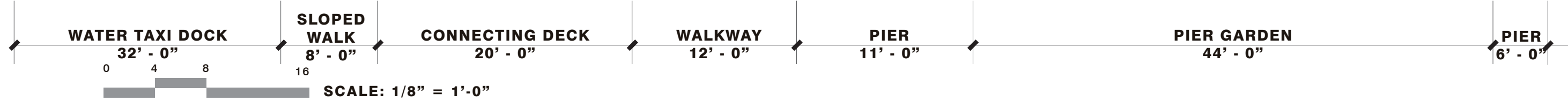
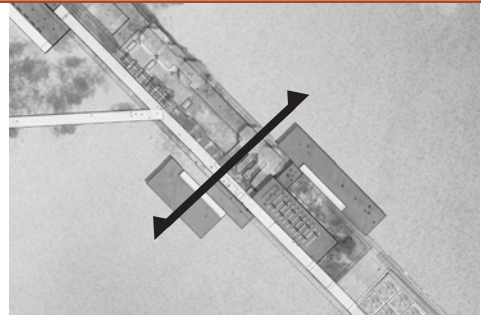
PIER SECTION 4



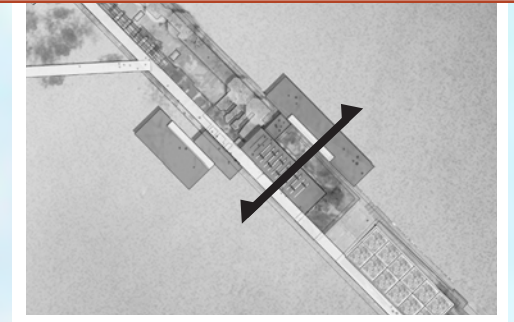
DECK CONNECTION TO PIER



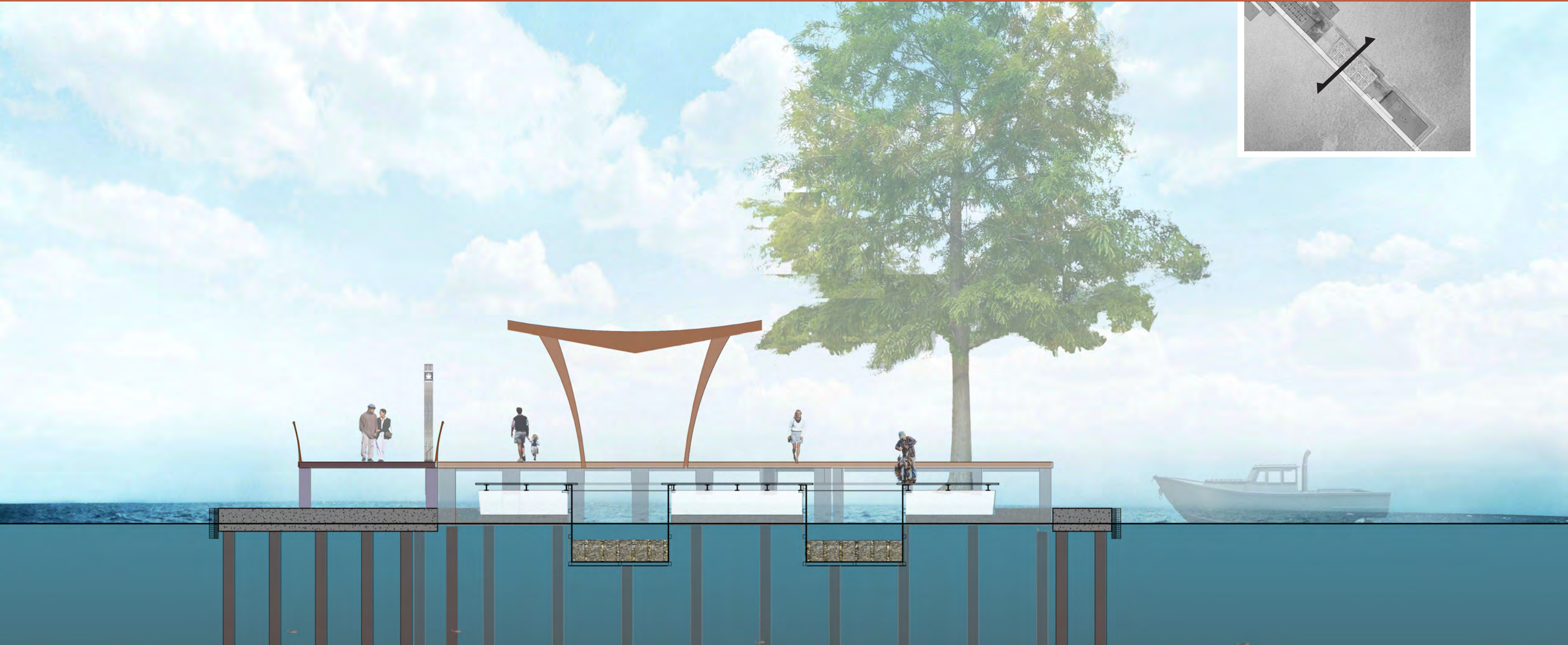
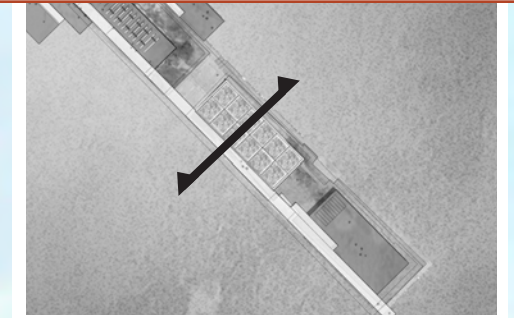
WATER TAXI LANDING



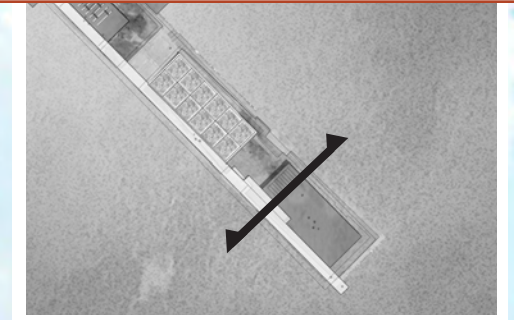
SHADE STRUCTURE AT PIER



OYSTER NURSERY



KAYAK DECK AND STORAGE





EAST WATERFRONT PARK

Ecological Context

CHRIS STREB PE, LEED AP

Biohabitats Inc.
Ecological Engineer

PORT COVINGTON ECOLOGICAL PRINCIPLES

Locally attuned.

High performance landscape.

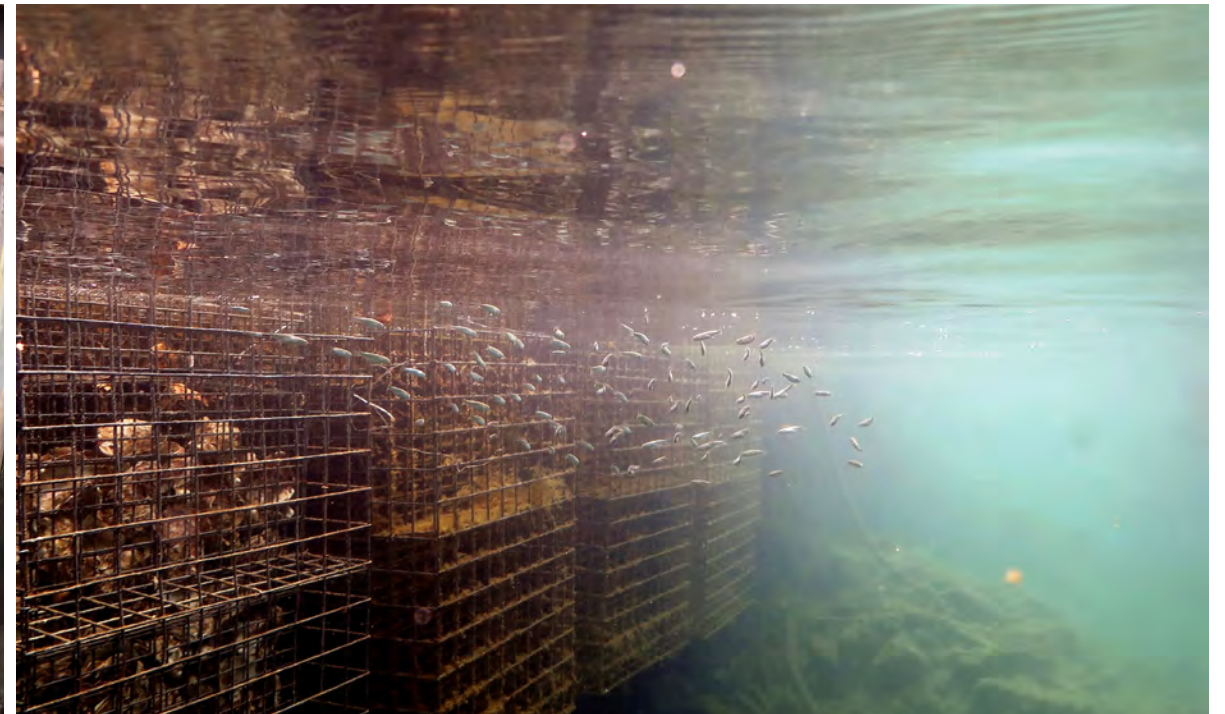
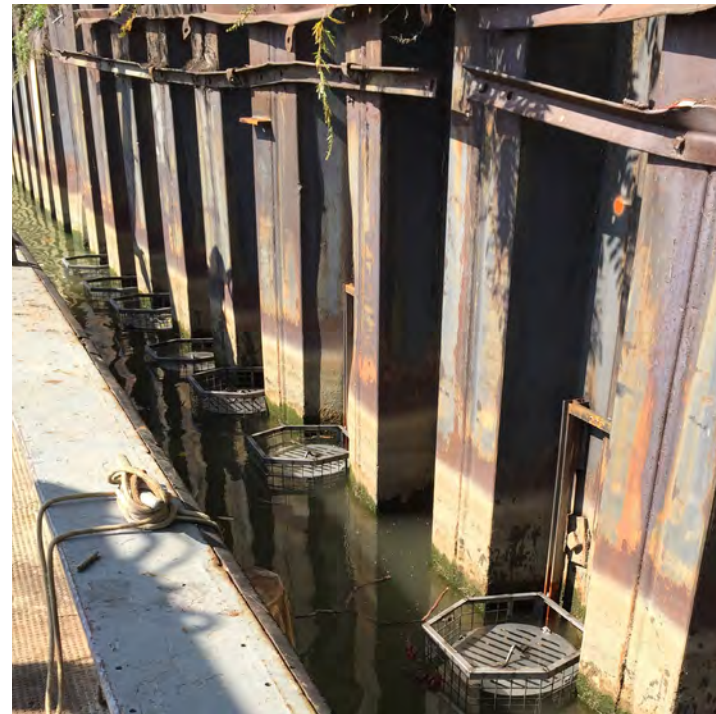
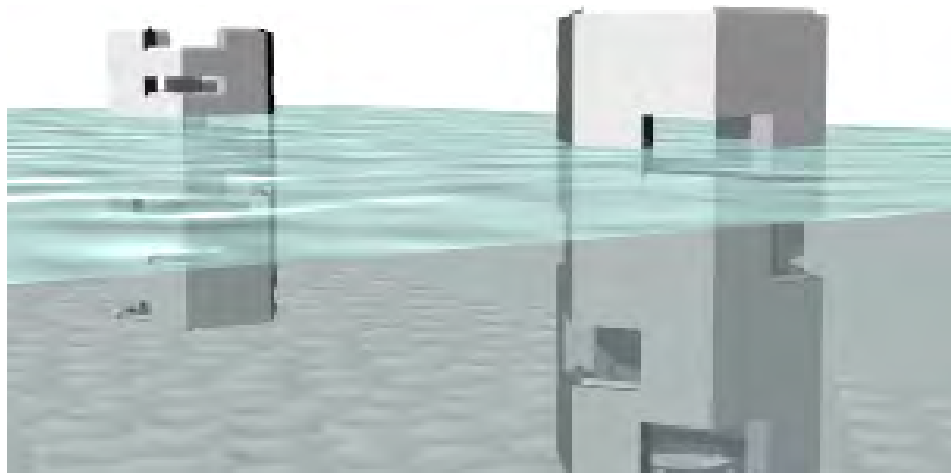
Celebrating water.

Community catalyst.

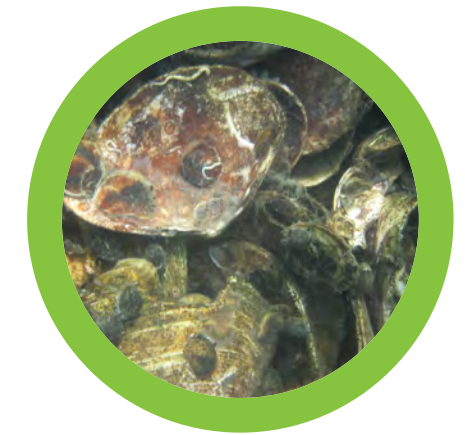
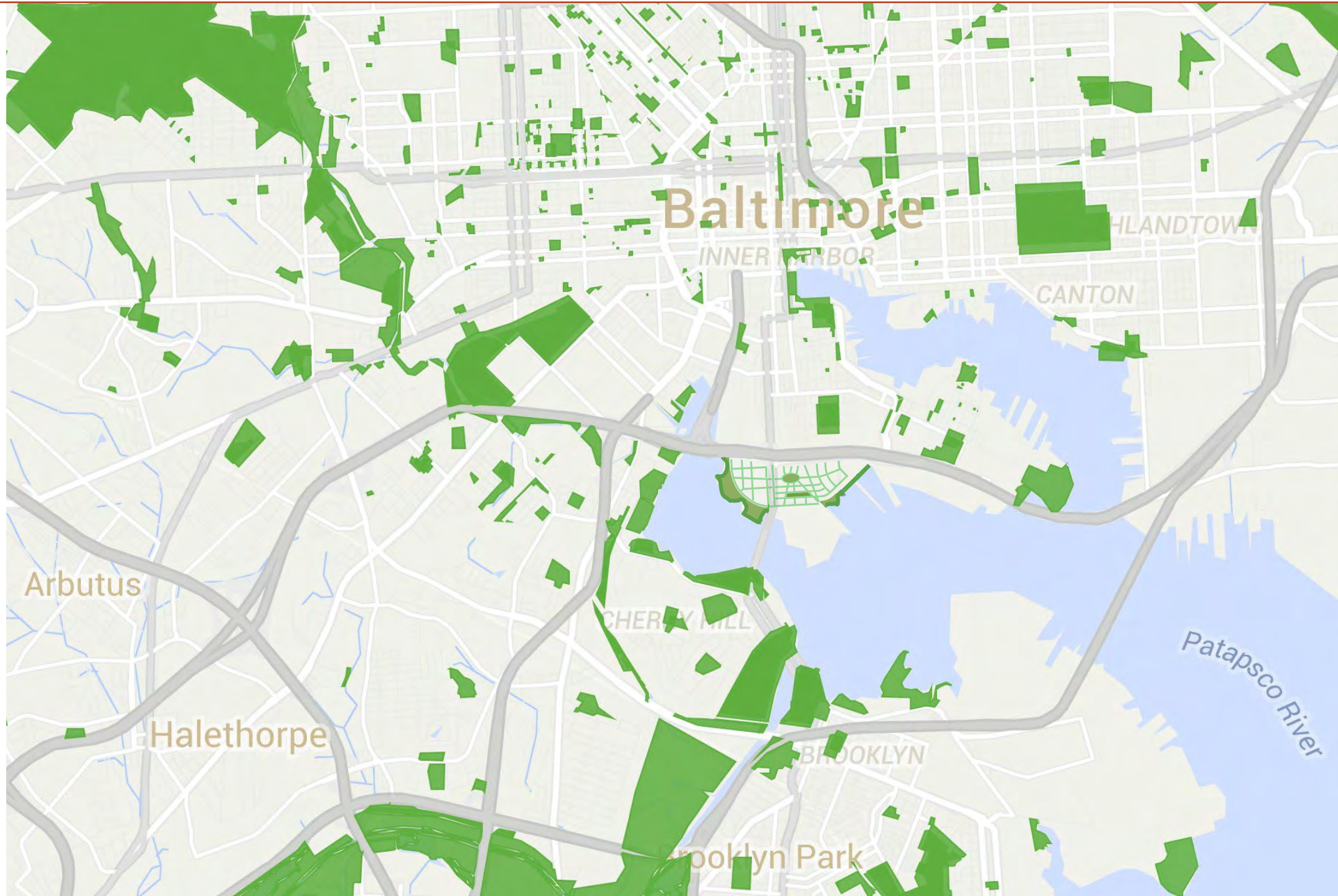
Authenticity.



INNOVATION PLATFORM



GREATER BALTIMORE WILDERNESS COALITION



EAST WATERFRONT PARK ECOZONES



RIPARIAN ZONE





- Intertidal Corridor
- Living Bulkhead or Piers
- 100' Riparian Buffer
- Riparian Shoreline Corridor

0 60' 120' 240' **SCALE: 1" = 120'-0"**

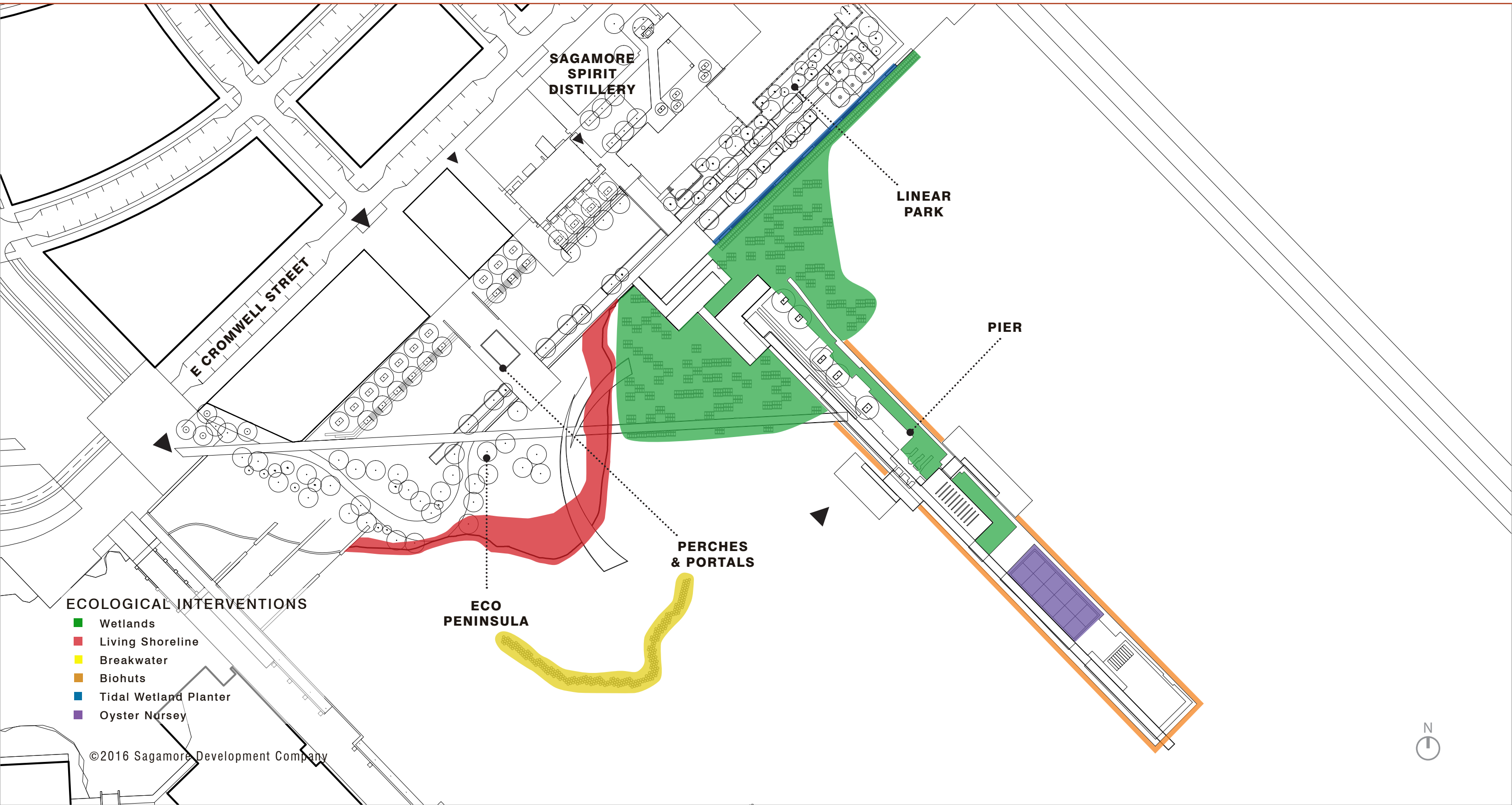


ECOSYSTEM SERVICES

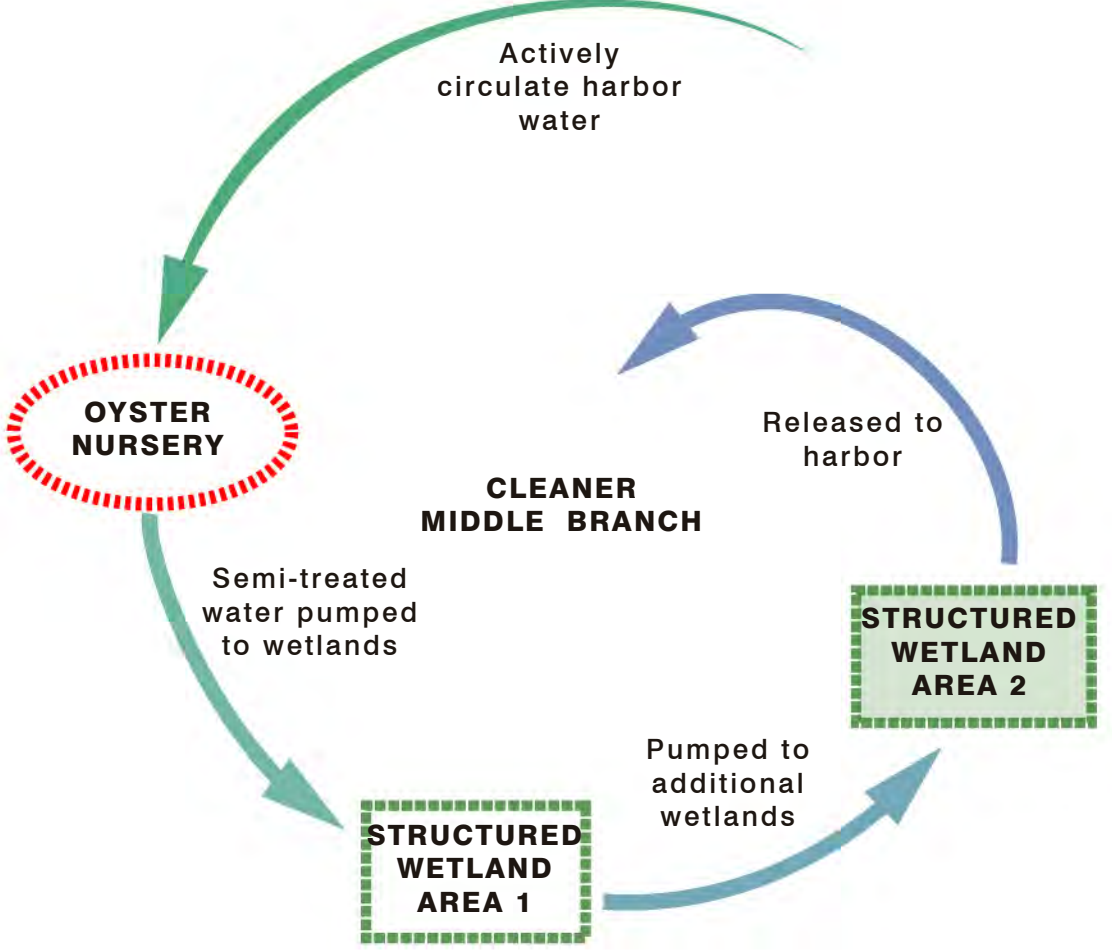
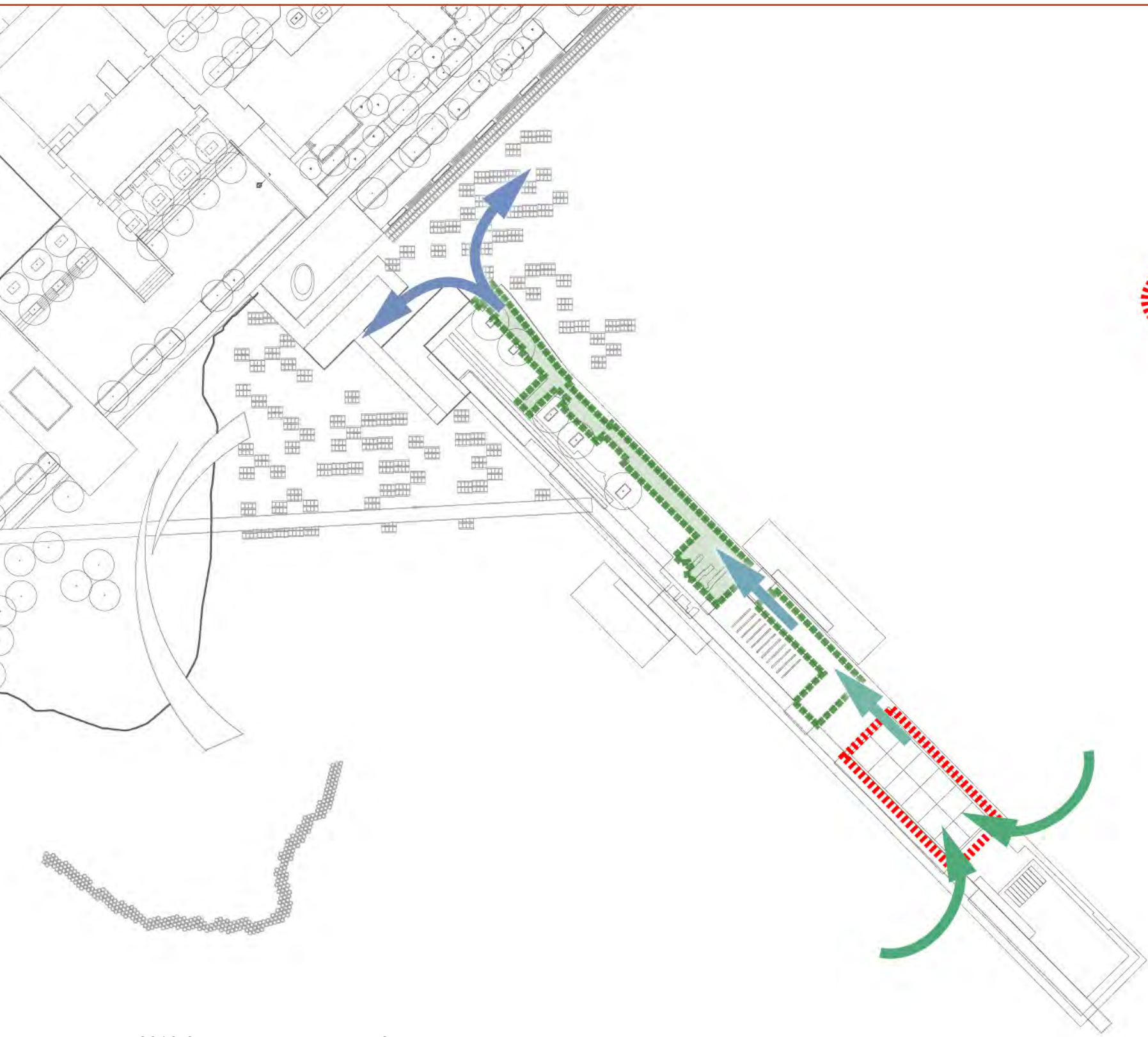
EAST WATERFRONT PARK

	LANDSCAPE POSITION	METRICS
PROVISIONING 	COLLECT, STORE & MANAGE WATER	UPLAND / SHORELINE (Native plantings and BMPs)
	FOOD/ URBAN AG	UPLAND (Planter boxes, green roofs)
	POLLINATION	UPLAND / SHORELINE (Living Shoreline and native plantings)
SUPPORTING 	CYCLE NUTRIENTS/ WASTE	UPLAND (Compost)
	HABITAT	UPLAND / SHORELINE (Living shoreline/gardens)
	BUILD SOILS	UPLAND (Native planting zones/BMPs)
	INCREASE BIODIVERSITY	UPLAND / SHORELINE (Living shoreline /gardens)
REGULATING 	CONTROL FLOODING	SHORELINE (Living shoreline)
	EVAPOTRANSPIRATION	UPLAND / SHORELINE (Native plantings and BMPs)
	PROTECT SHORELINE (CRITICAL AREA BUFFER)	SHORELINE / UPLAND (Native plantings)
	DARK SKY COMPLIANCE	UPLAND / SHORELINE / BUILDINGS (Low intensity and timed lighting)
	URBAN HEAT ISLAND	UPLAND (increased tree canopy and native plantings)
	CARBON SEQUESTRATION	UPLAND / SHORELINE (increased tree canopy and native plantings)
	FILTER AIR AND WATER (SWM)	UPLAND / SHORELINE (BMPs)
	CONTROL PESTS/ INVASIVE SPECIES	UPLAND / SHORELINE (through habitat creation)
CULTURAL 	EDUCATION	UPLAND / SHORELINE (Signage, research, & outdoor classrooms)
	RESPITE	UPLAND / SHORELINE (Seating and trails)
	AESTHETICS	UPLAND / SHORELINE (Native plantings, tree canopy)
	RECREATION	UPLAND / SHORELINE (trails connections)
	JOBS	UPLAND / SHORLINE / BUILDINGS (open space maintenance)

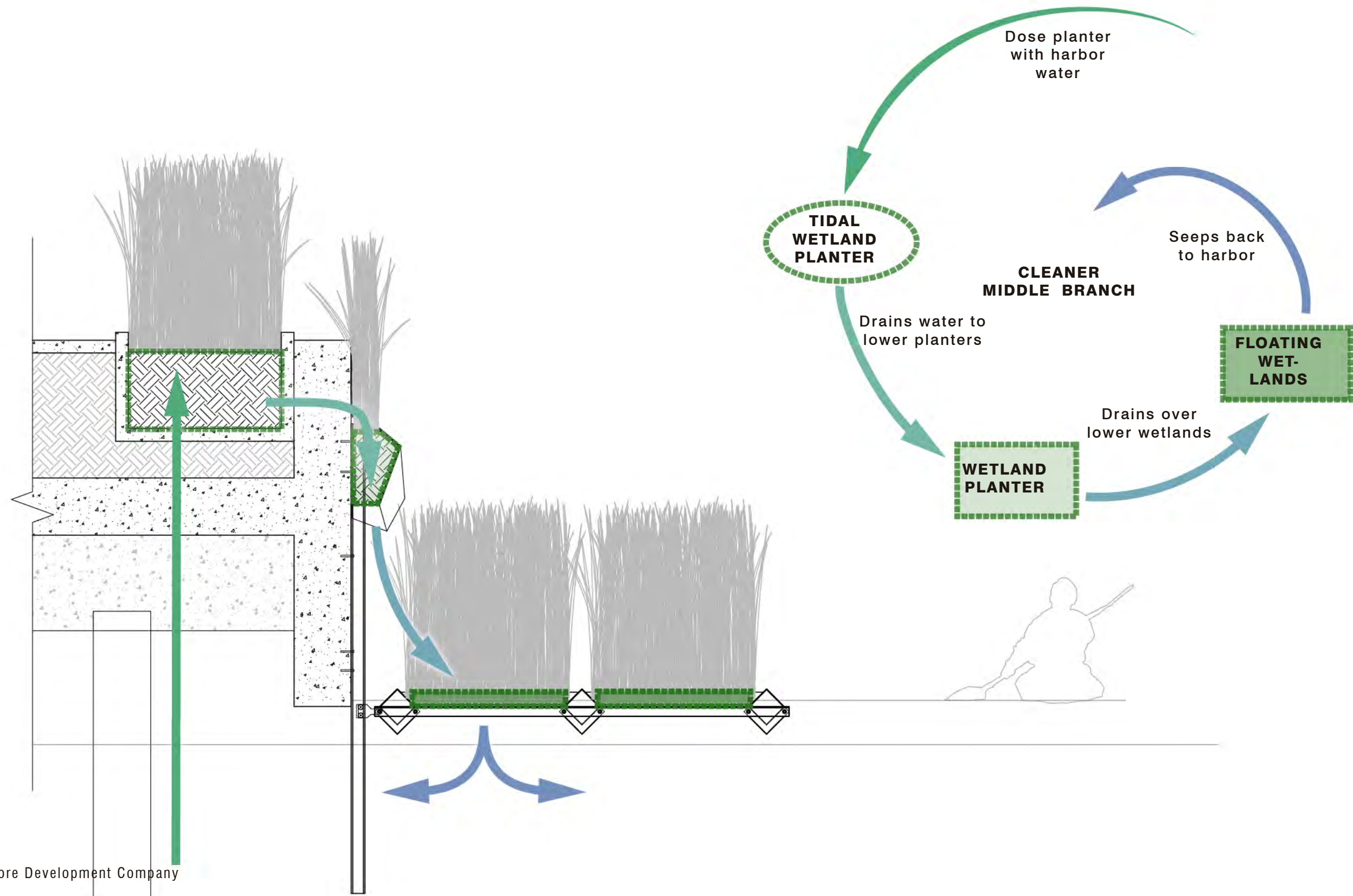
ECOLOGICAL INTERVENTIONS



WATER CYCLING



TIDAL WETLAND CYCLING





Port
Covington

EAST WATERFRONT PARK
Signage

RONNIE YOUNTS

Younts Design Inc.

Principal

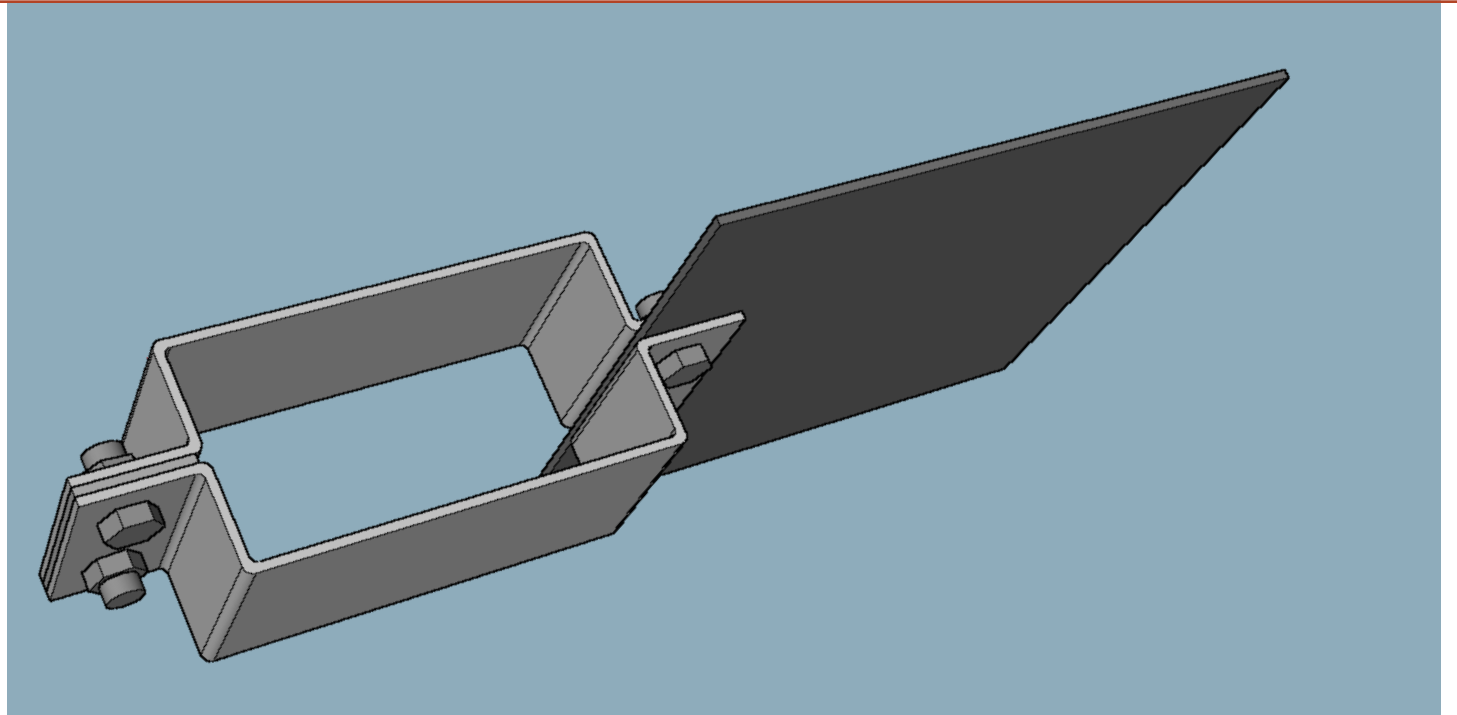
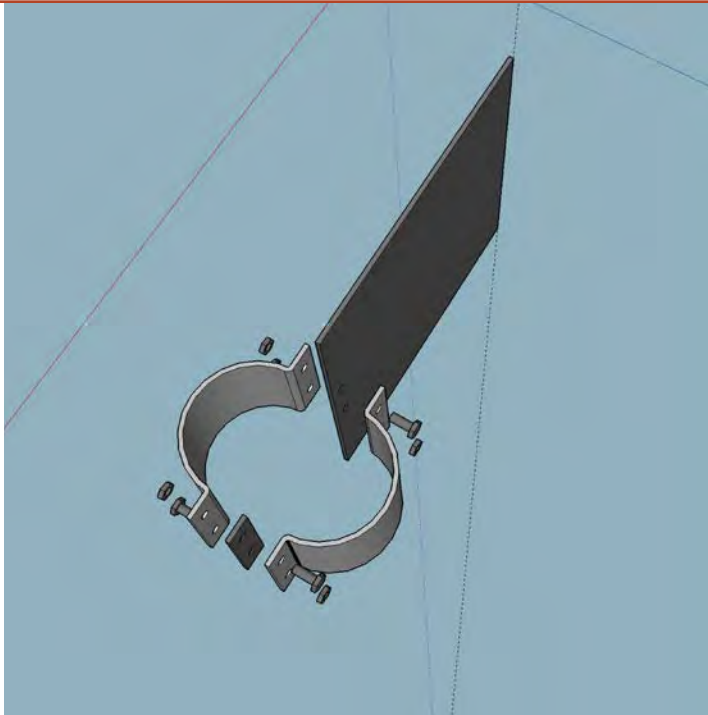
INSPIRATION



SIGNAGE MATERIALS



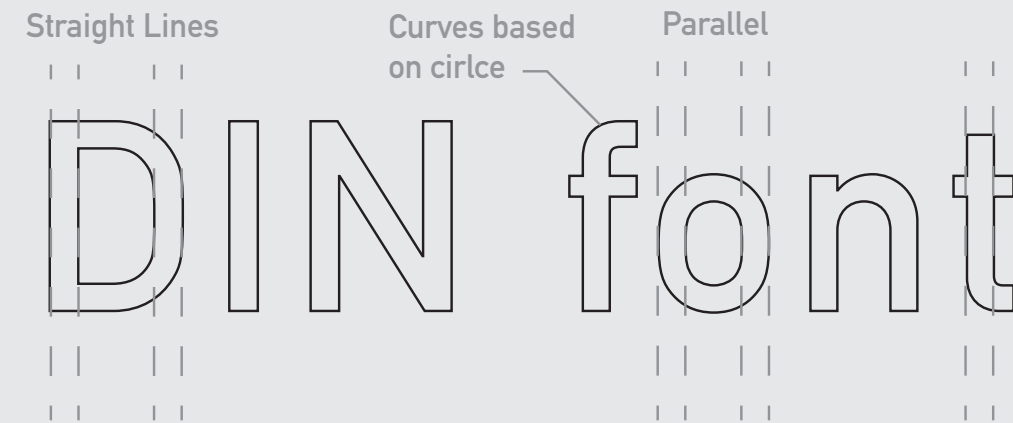
UNIVERSAL BRACKETS



TYPEFACES, ARROWS, PICTOGRAMS

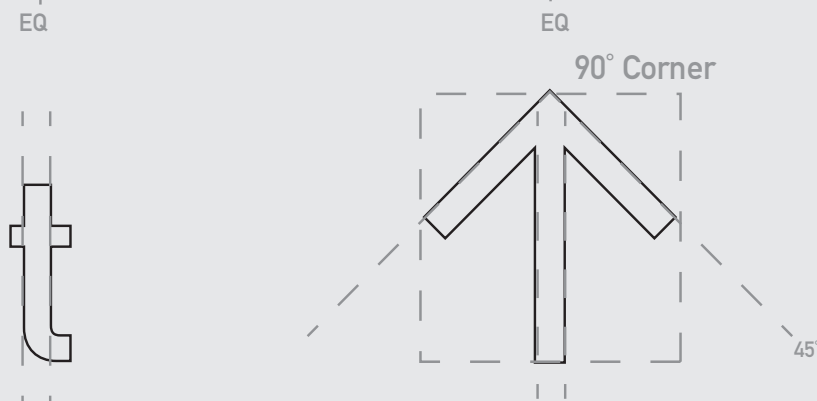
GEOMETRIC TYPEFACE

High Legibility, Slightly Condensed



GEOMETRIC ARROW

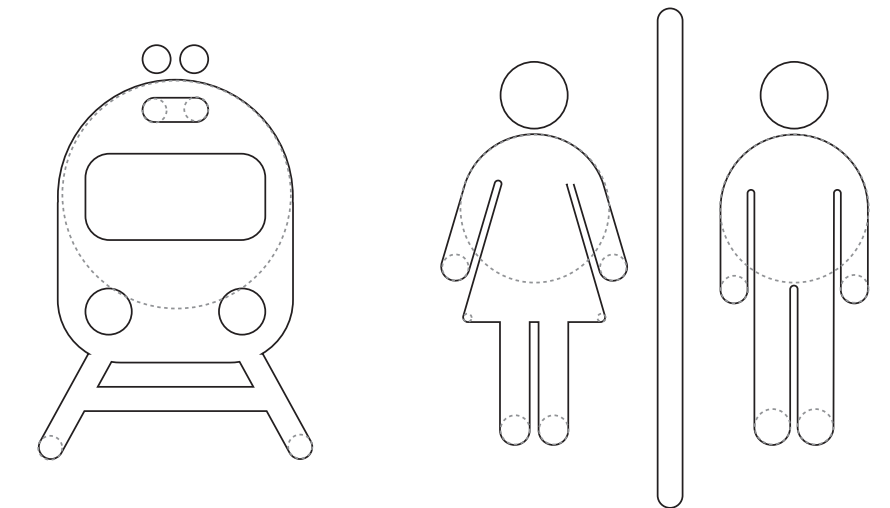
Weights of arrow adjusted to match font weight



Arrow Fits Into Square For Consistent Rotation

GEOMETRIC PICTOGRAMS

BASED ON CIRCLE



Light Rail

Unisex

DIN ENGESHRIPT

ABCDEFGHIJKLMNOPQRSTUVWXYZ

abcdefghijklmnopqrstuvwxyz

1234567890



DIN STENCIL

ABCDEFGHIJKLMNOPQRSTUVWXYZ

1234567890 ¼ ¾ ⅔ ½ ⅜ ⅝ ⅓ ⅛

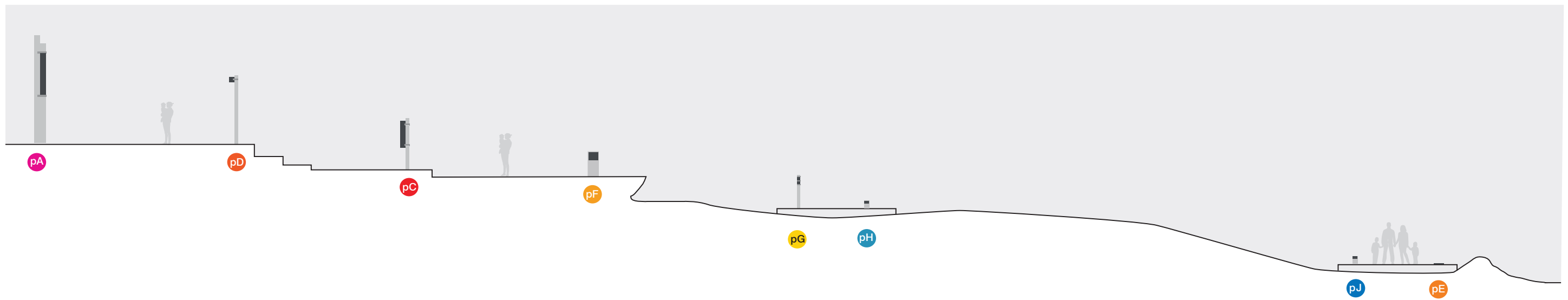
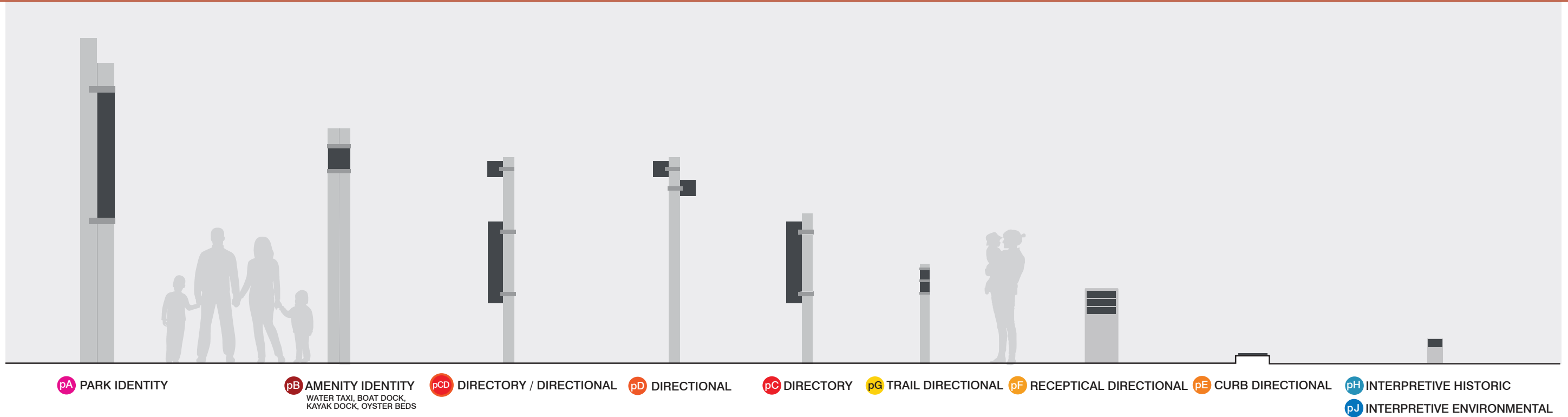


SIGNAGE DETAILS

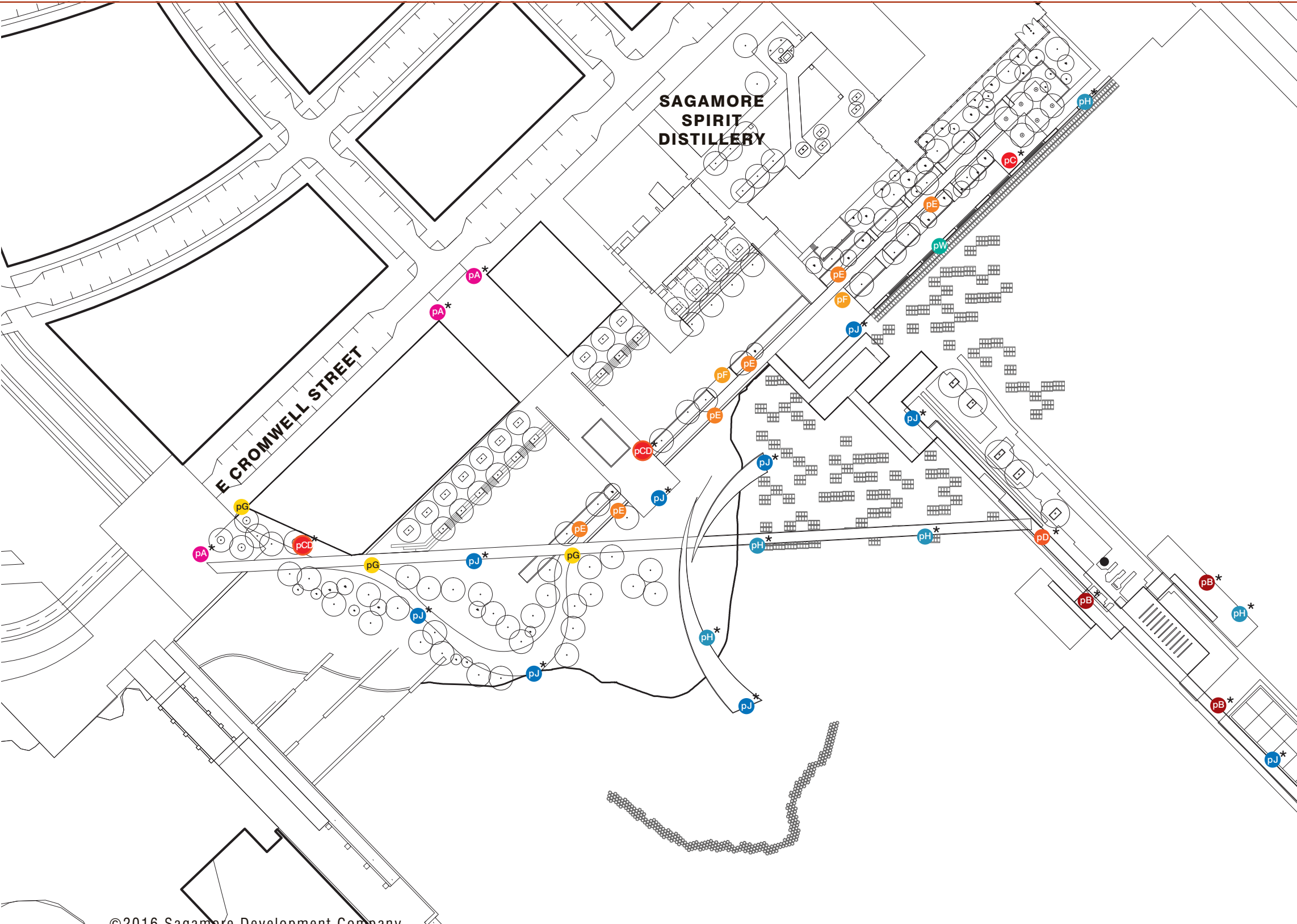


SIGN TYPES

SITE SECTION



SIGNAGE LOCATIONS



SIGNAGE LEGEND

- IDENTITY**
- pA Park Identity
 - pB Amenity Identity
 - pW Waterfront Identity
- WAYFINDING**
- pC Directory
 - pD Directional
 - pE Curb Directional
 - pF Trash Receptical Directional
 - pG Trail Directional
- EDUCATIONAL**
- pH Interpretive Historic
 - pJ Interpretive Environmental
 - pK Health and Motivational
- EDUCATIONAL**
- ★ Integrated Technology

WATERFRONT IDENTITY SIGNAGE



P O R T C O V I N G T O N



EAST WATERFRONT PARK

Lighting

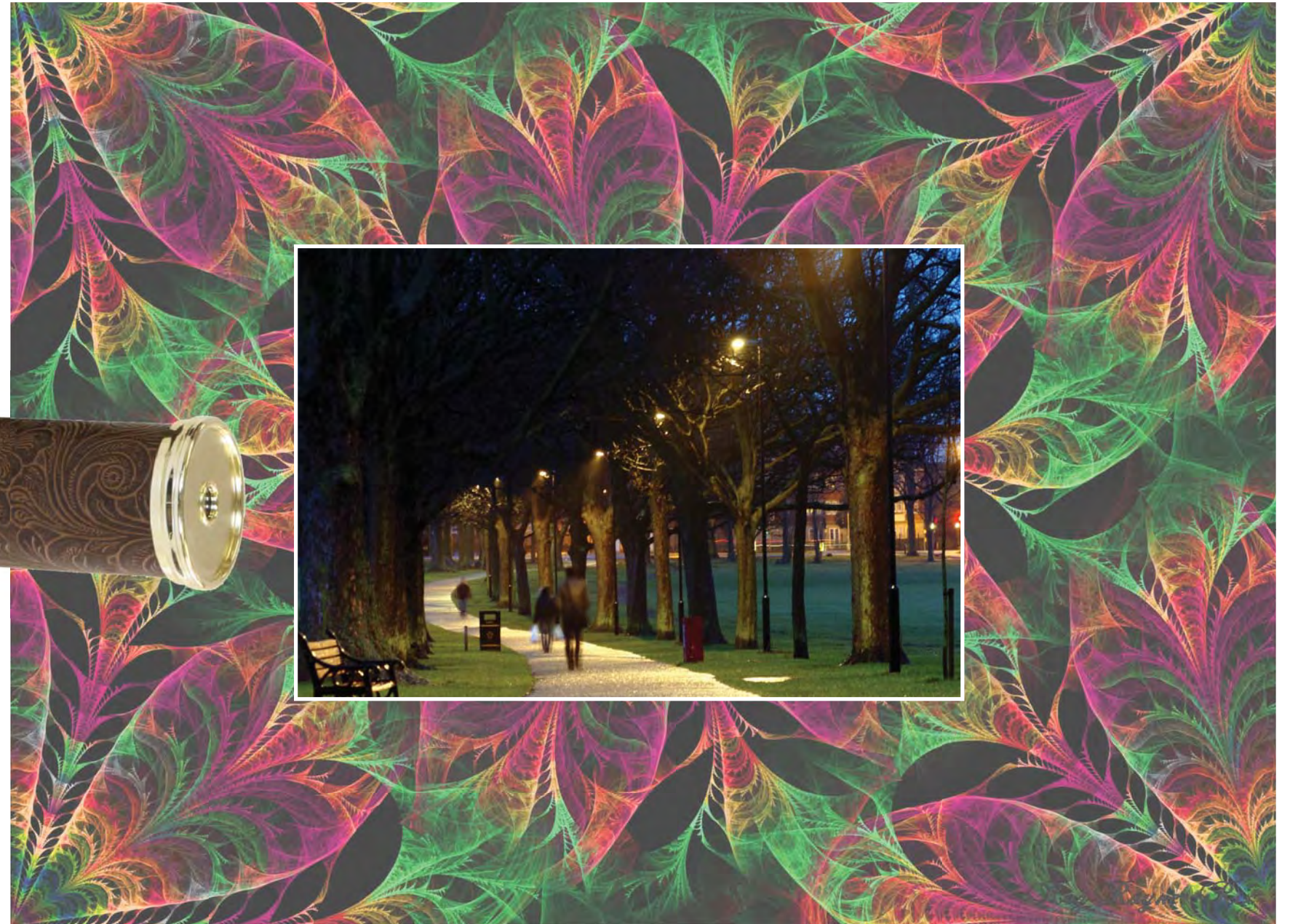
CLAUDE R. ENGLE, LIGHTING CONSULTANT

Claude Engle Lighting Design
Principal

LIGHTING CONCEPT



Front porch to Baltimore.



Along paths, a kaleidoscope of activity and users.



Preserve sight lines through park.

LIGHTING CONCEPT

Lighting delineates and illuminates.

Hierarchy of vertical lighting.

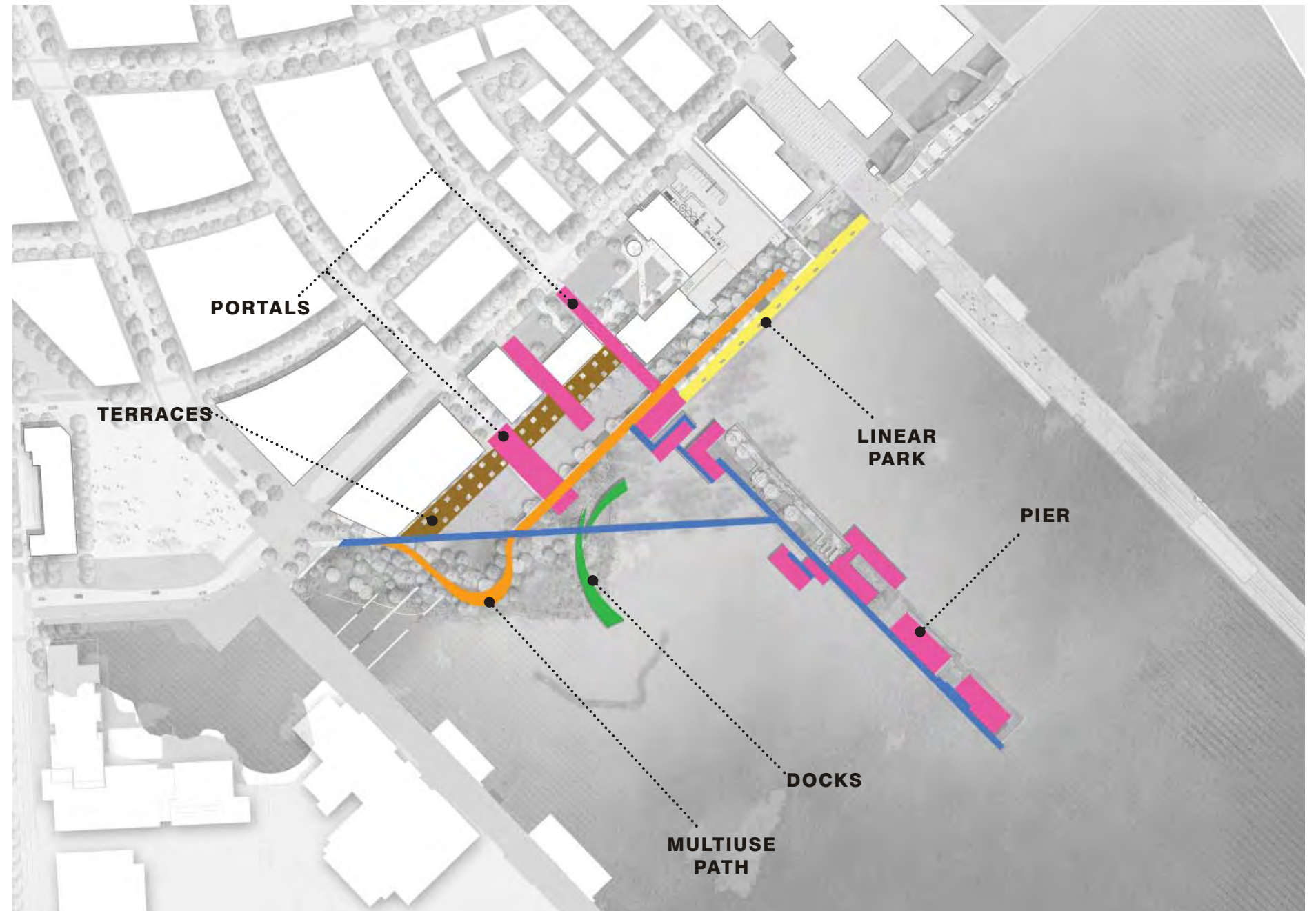
Varying light levels by activity.

Supports composition of park elements.

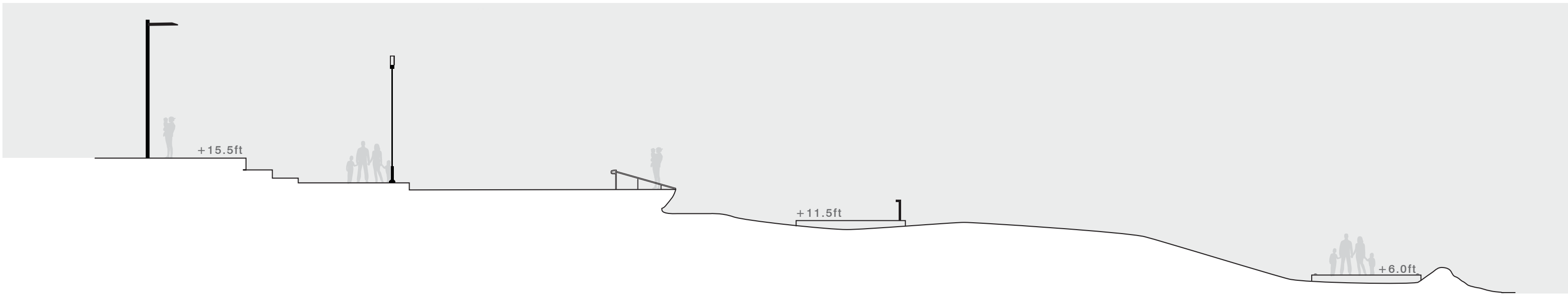
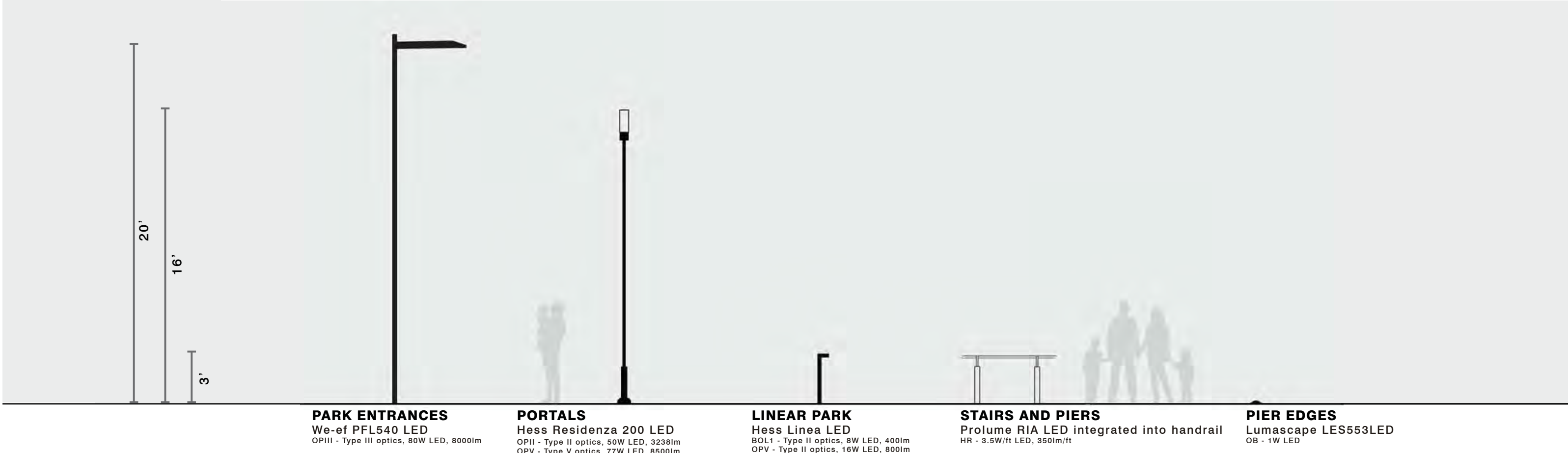
Eco-friendly light.

Security by surrounding with light.

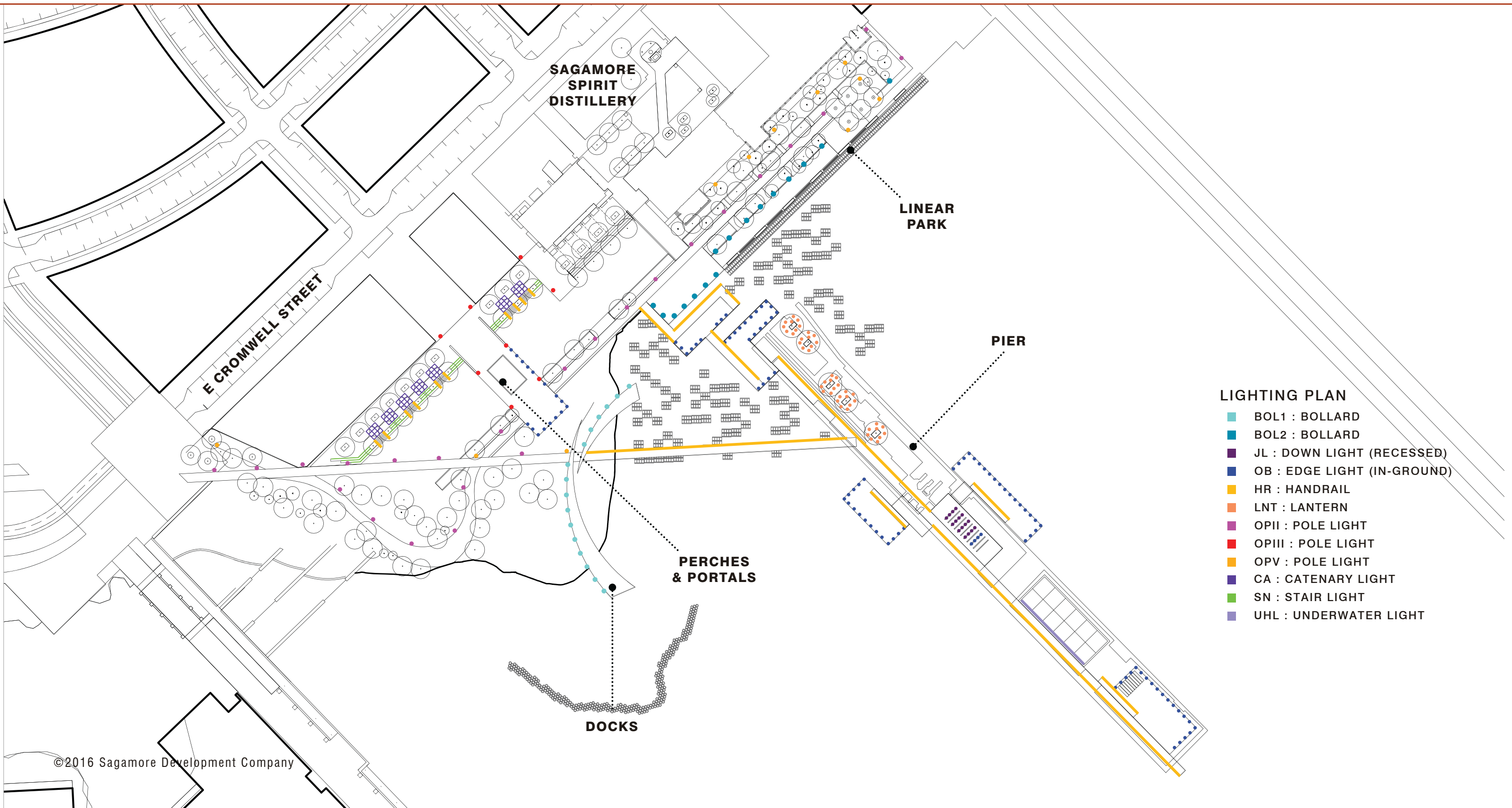
Lights that can have elements integrated into them.



LIGHTING ELEMENTS



LIGHTING SYSTEMS DIAGRAM

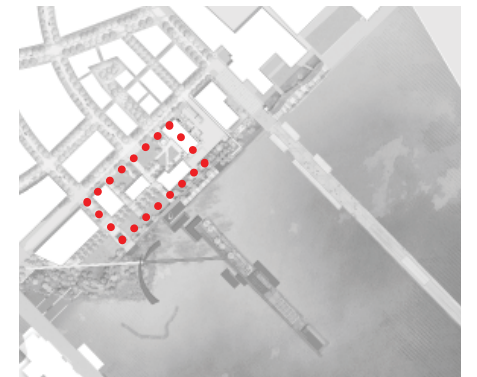
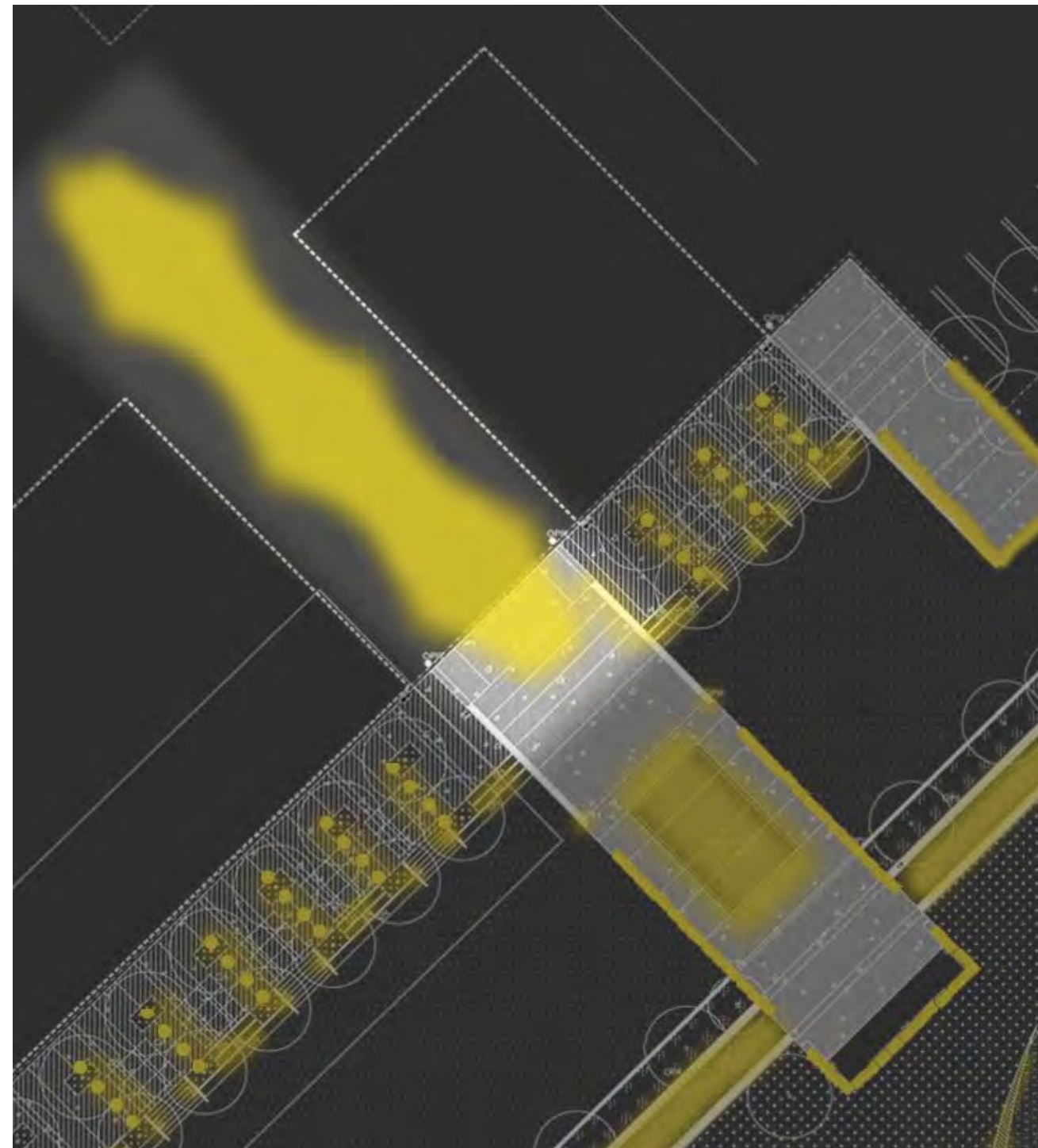


- LIGHTING PLAN**
- BOL1 : BOLLARD
 - BOL2 : BOLLARD
 - JL : DOWN LIGHT (RECESSED)
 - OB : EDGE LIGHT (IN-GROUND)
 - HR : HANDRAIL
 - LNT : LANTERN
 - OPII : POLE LIGHT
 - OPIII : POLE LIGHT
 - OPV : POLE LIGHT
 - CA : CATENARY LIGHT
 - SN : STAIR LIGHT
 - UHL : UNDERWATER LIGHT

PORTALS



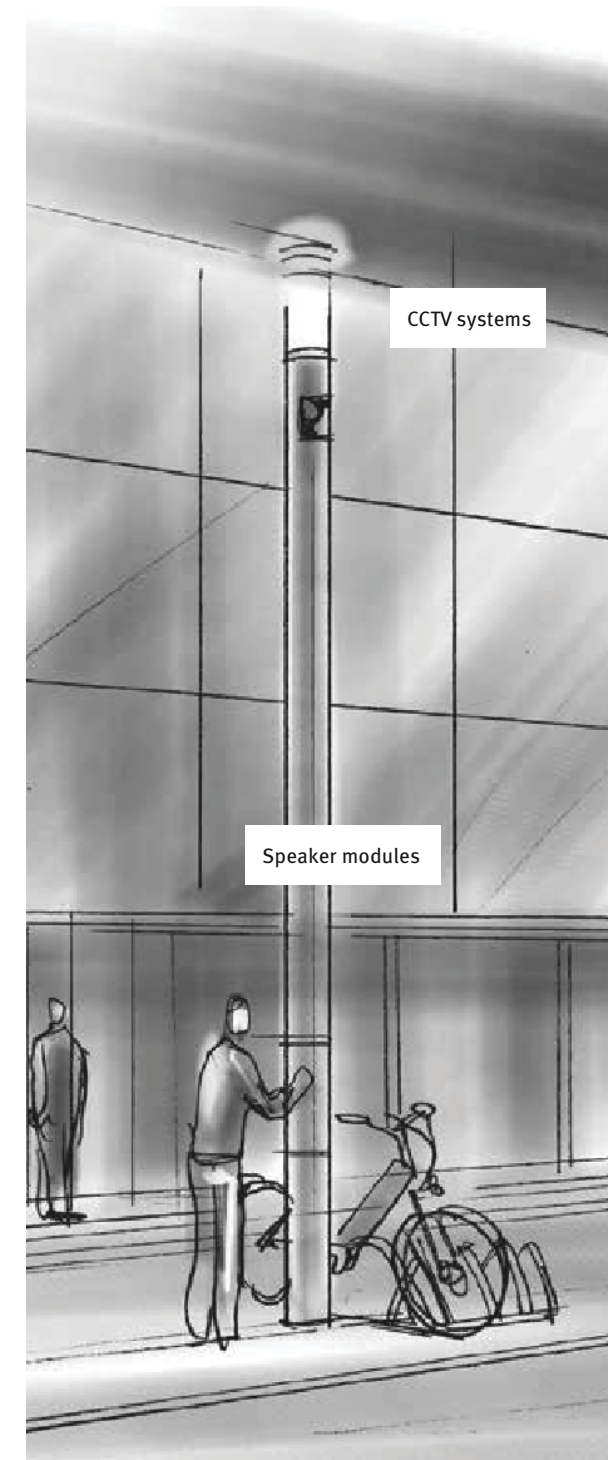
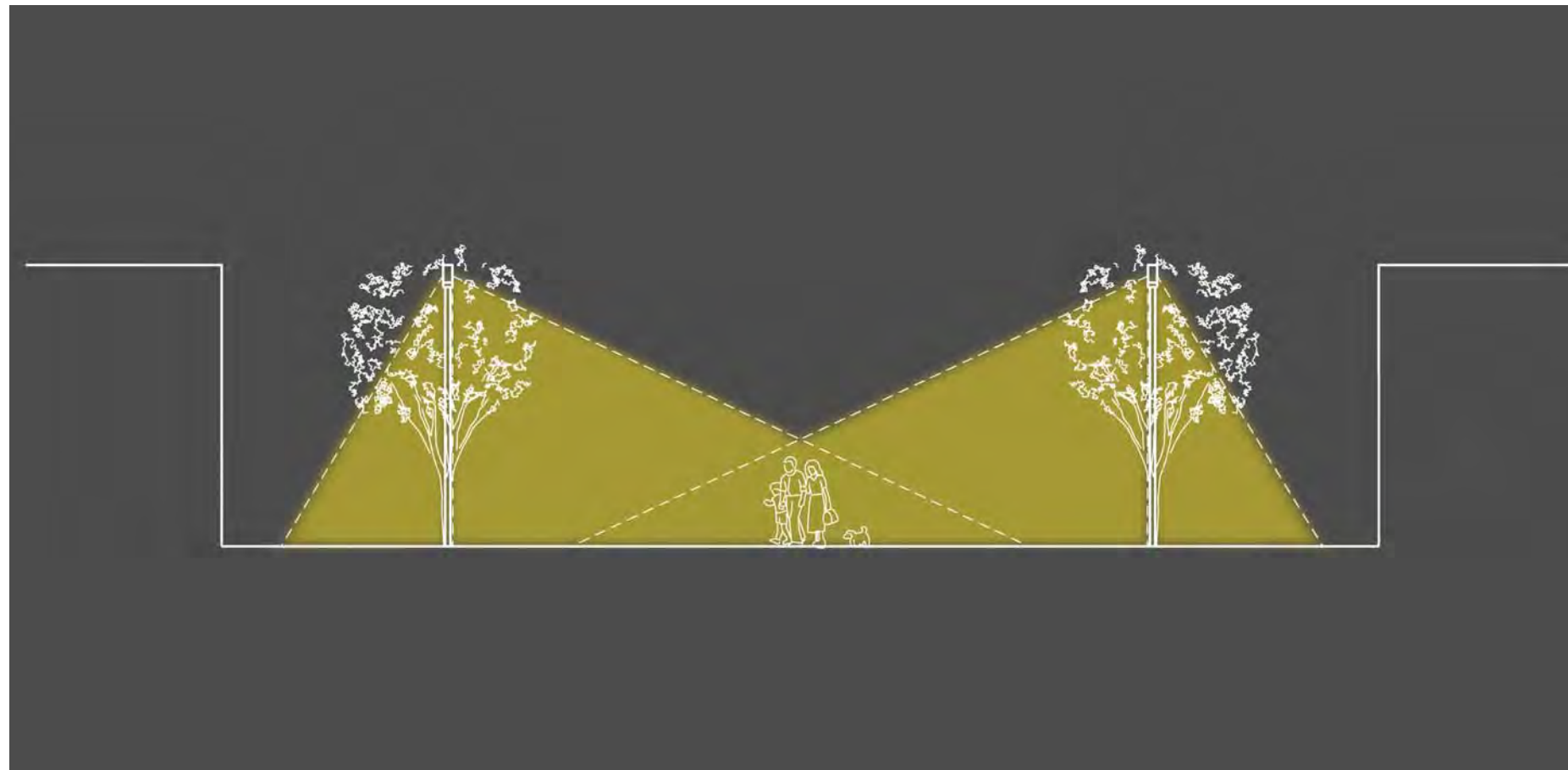
See faces, not light sources.
Smart lighting.



PORTALS

Light levels adjust for time of day.

Integral components.



PERCHES

Fountain is only vertically lighted element.

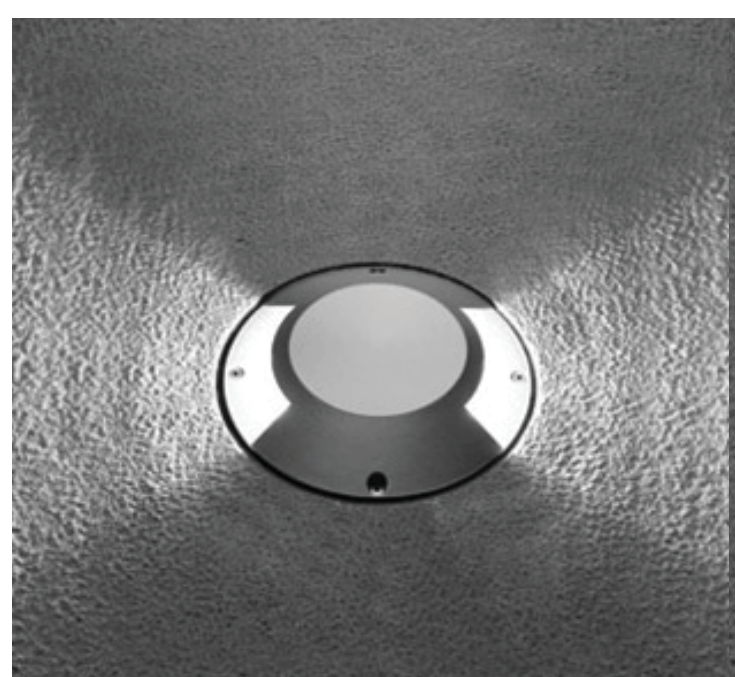
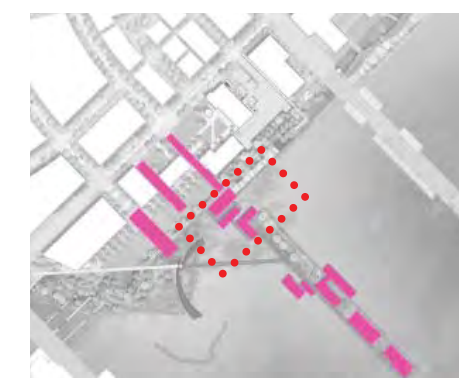
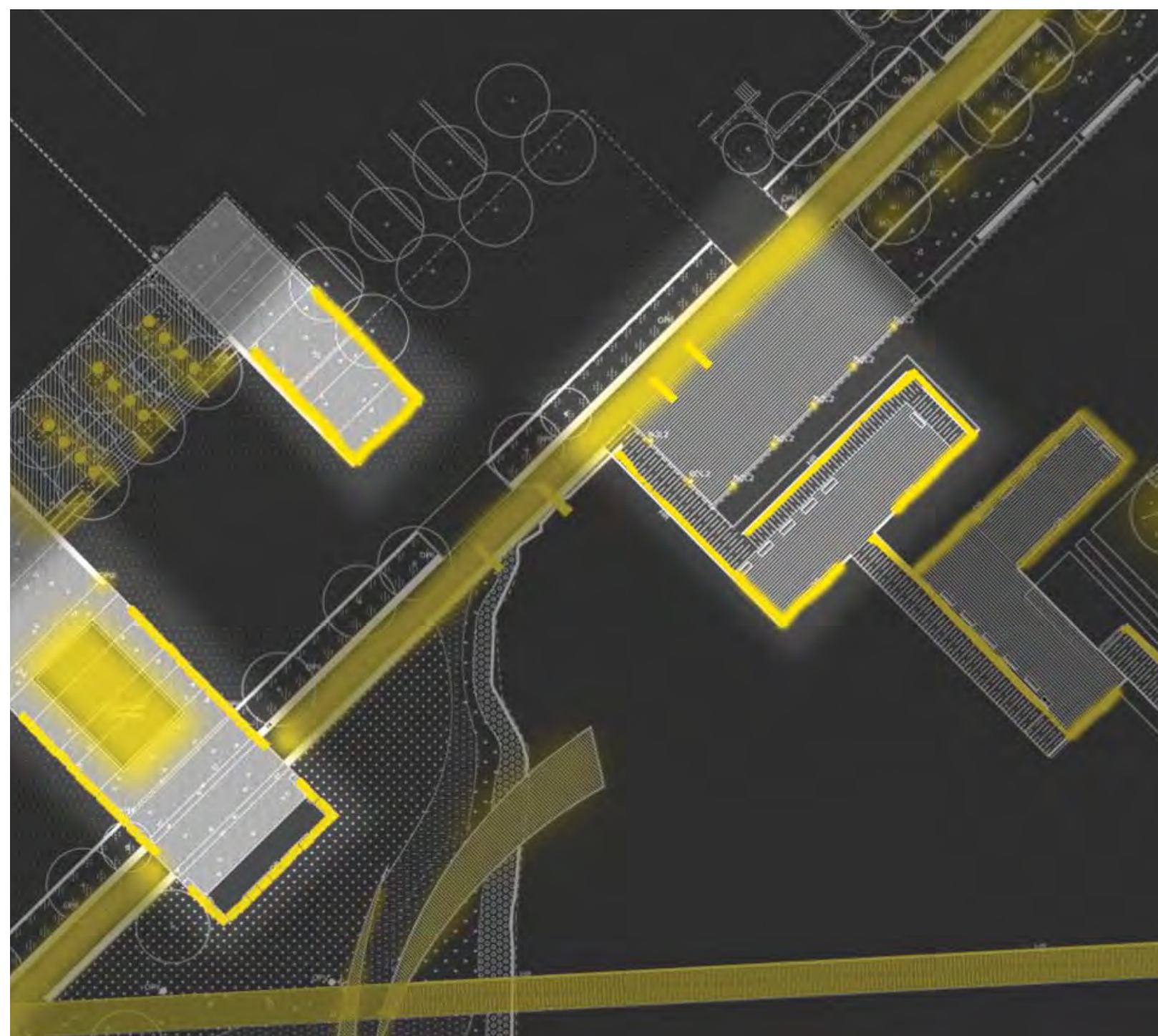
Smart infrastructure for special events.



OVERLOOK DECKS

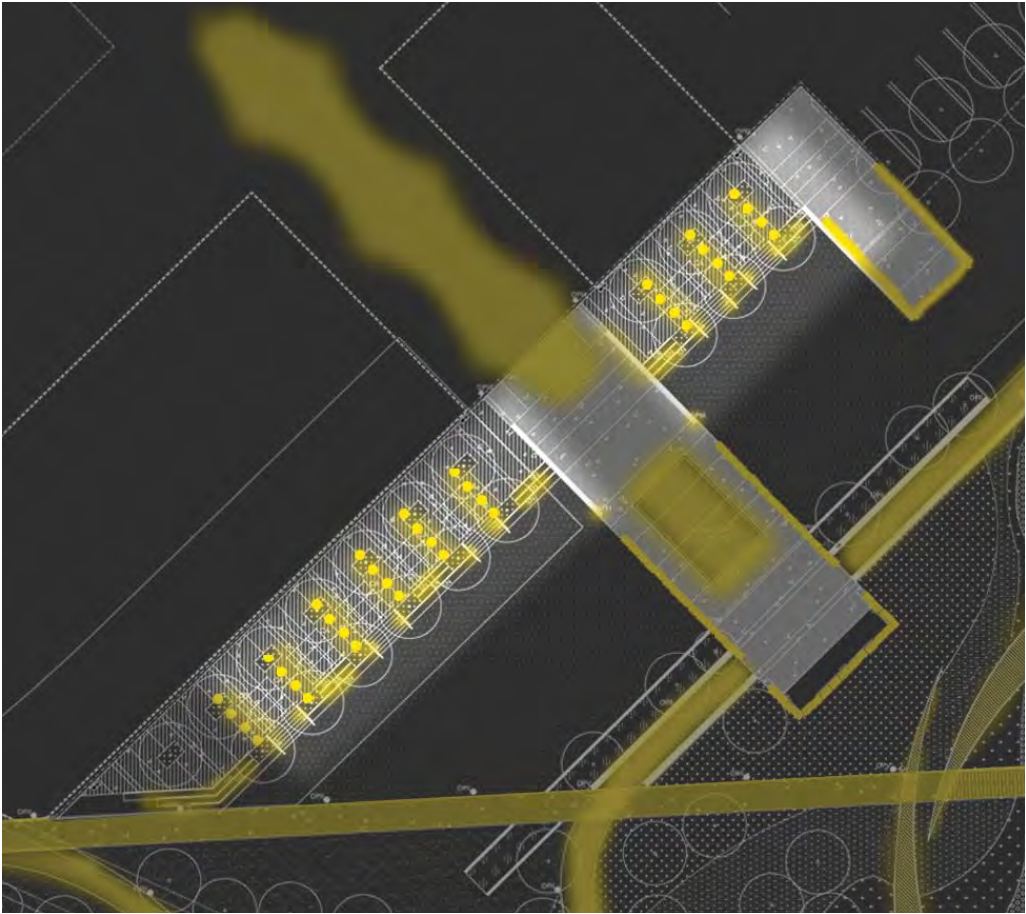
See faces, not light sources.

Smart lighting.



LINEAR TERRACE (BY OTHERS)

Terrace lighting provides border of light to northeast.



MULTIUSE PATH

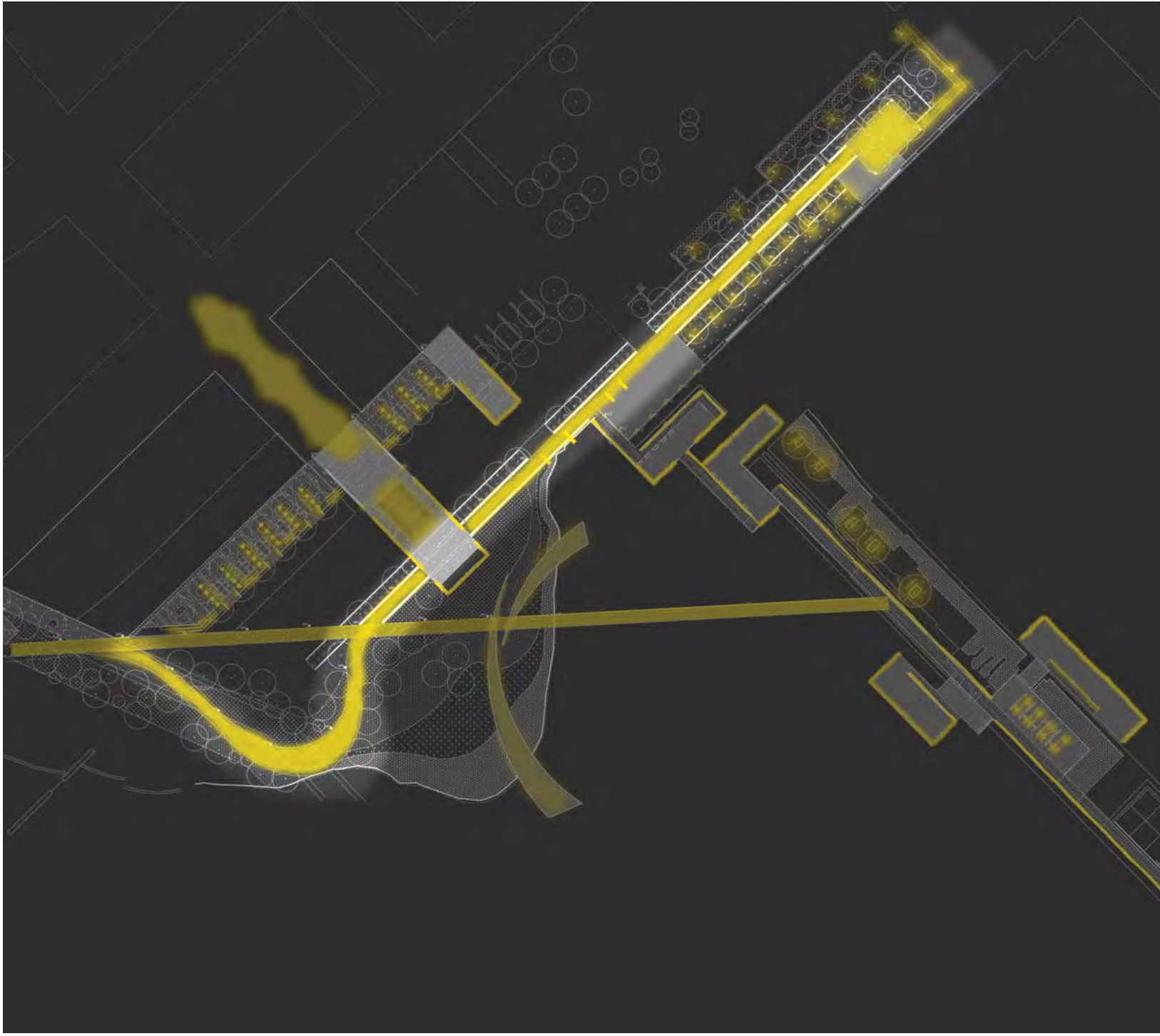
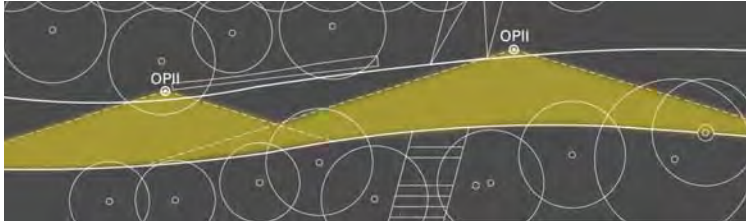
Light path but not landscape.



MULTIUSE PATH

Performance optics basis of lighting design.

Dark sky compliant.

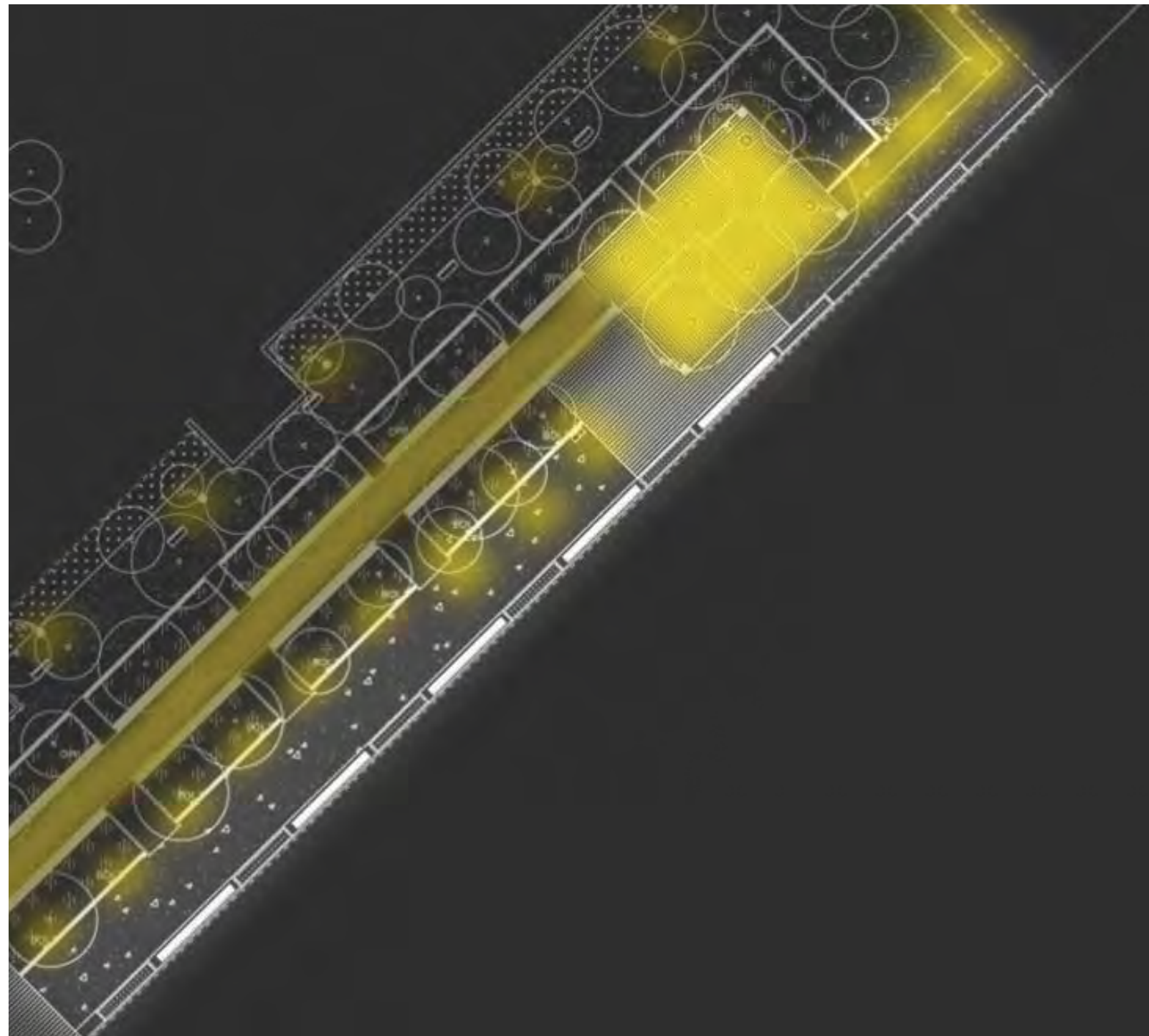


LINEAR PARK

No light between visitor and horizon.

Lighting path and not the water.

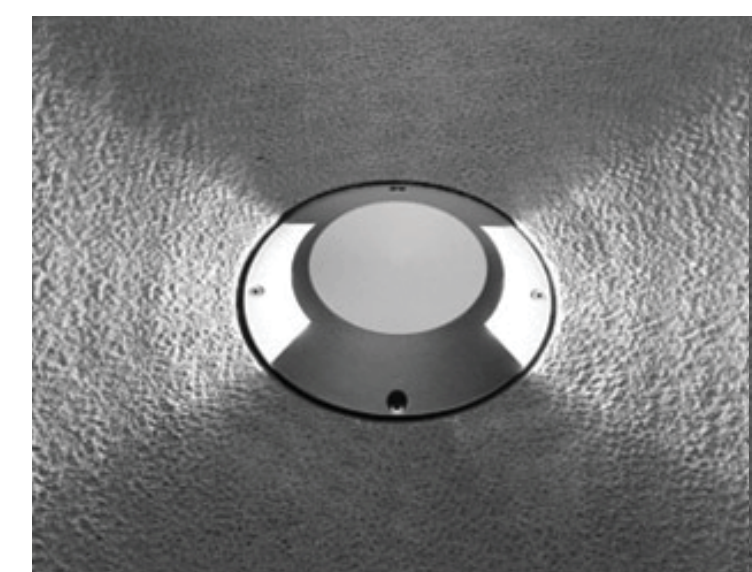
Low level lighting.



THE PIER

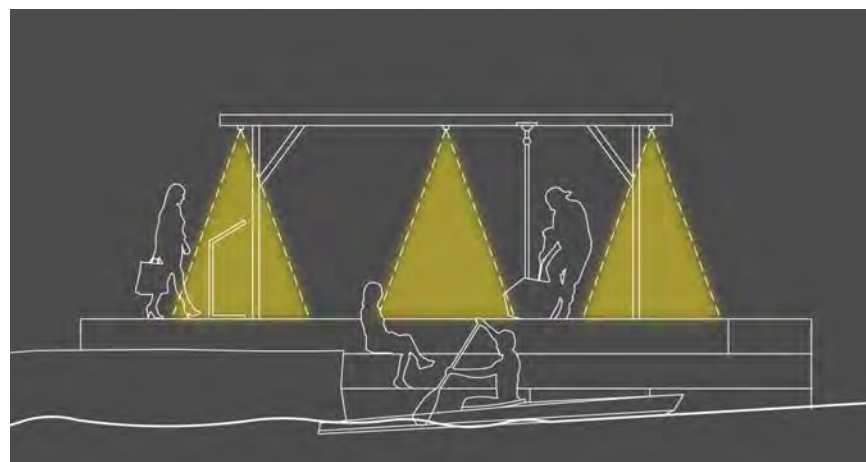
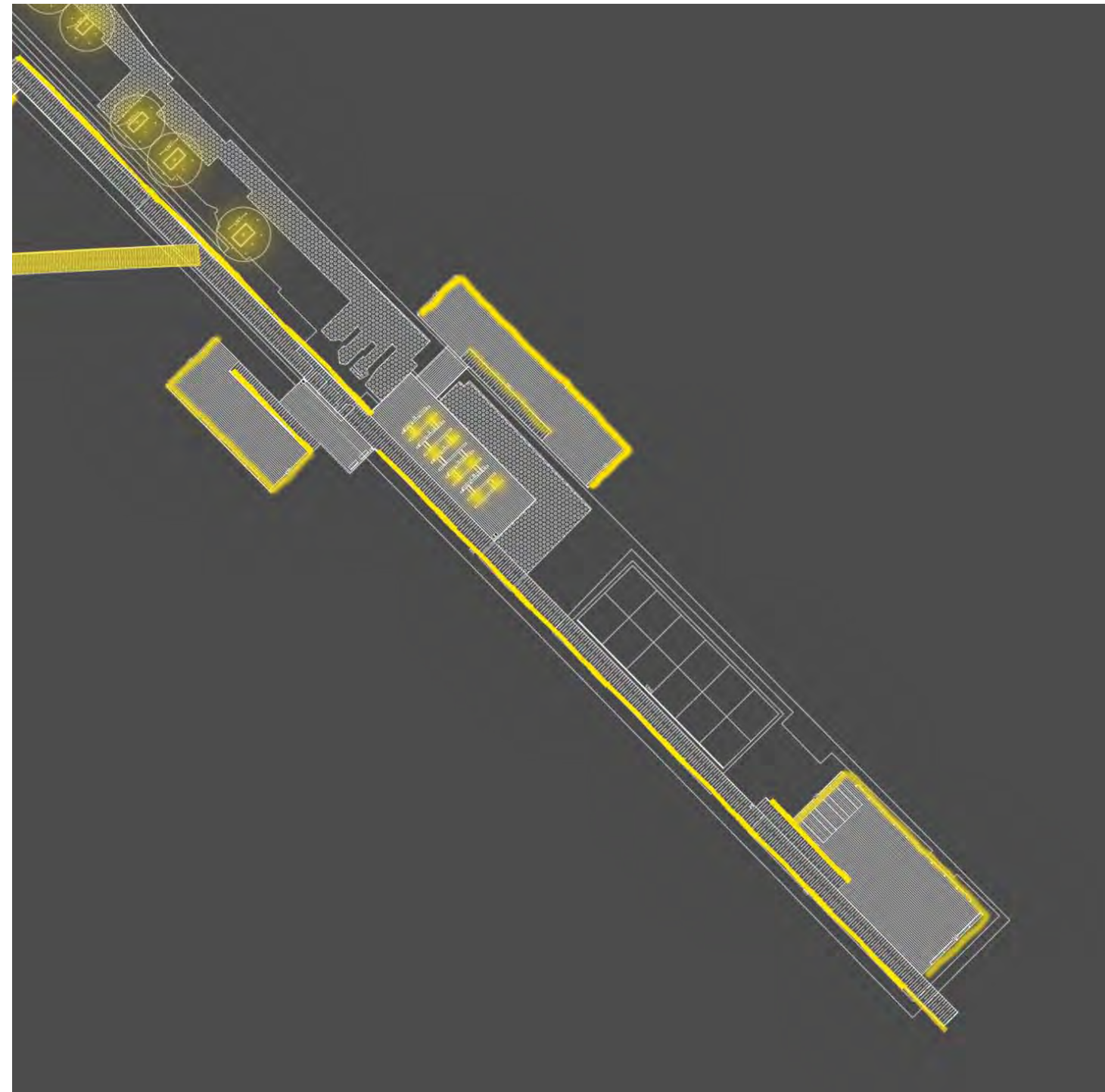
Docks defined by lighted perimeters.

Piers lighted by handrail lighting.



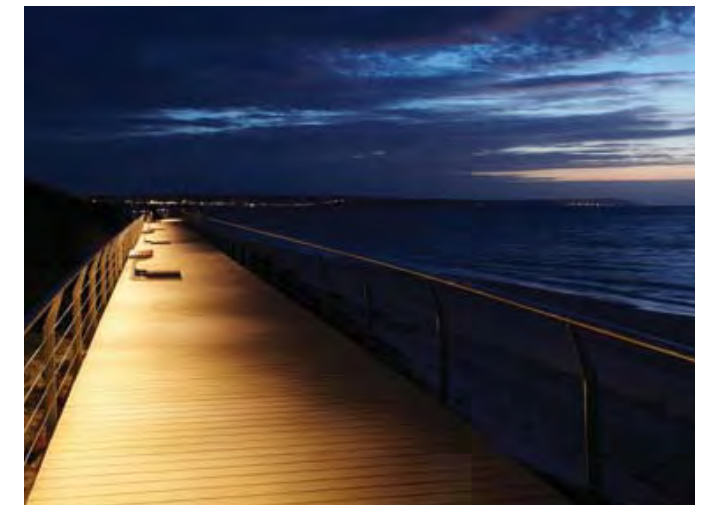
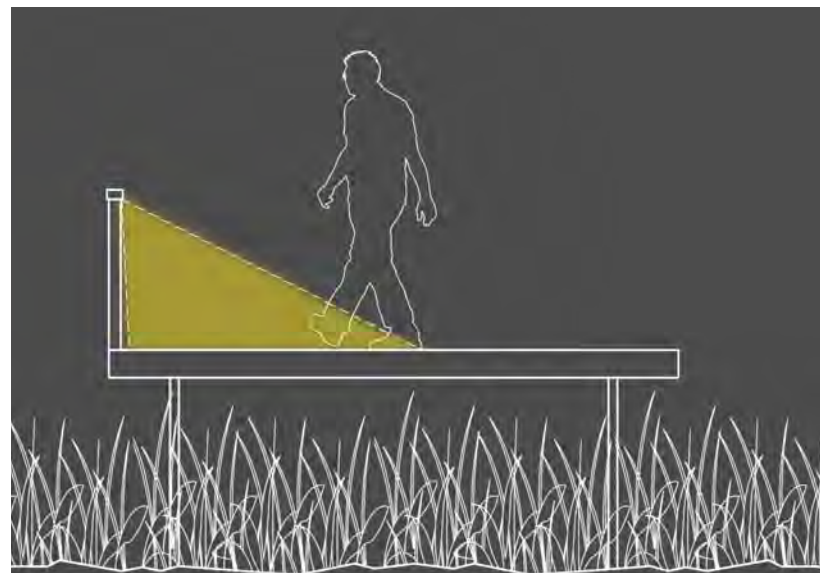
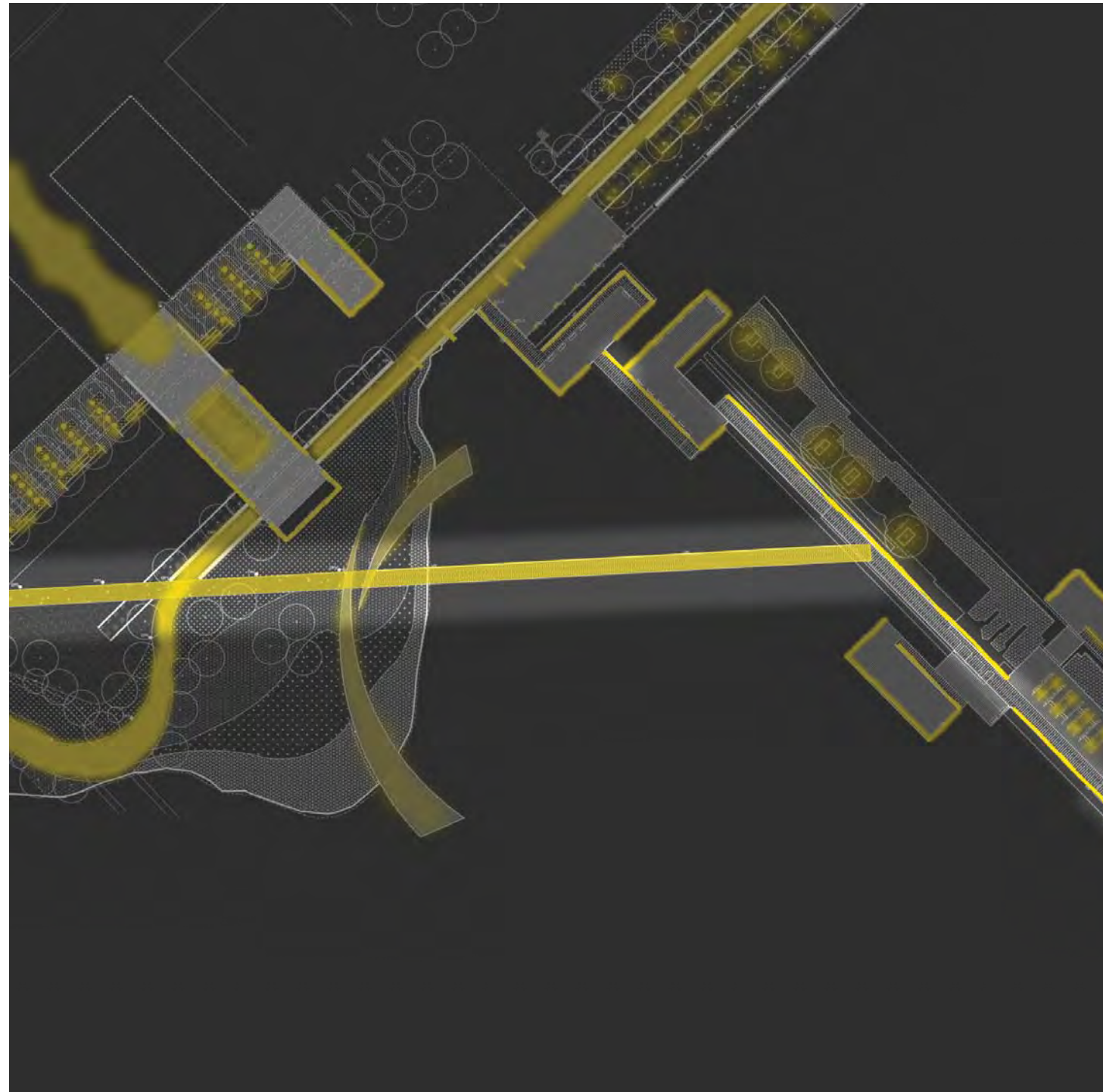
THE PIER

Handrail lighting accentuates path.



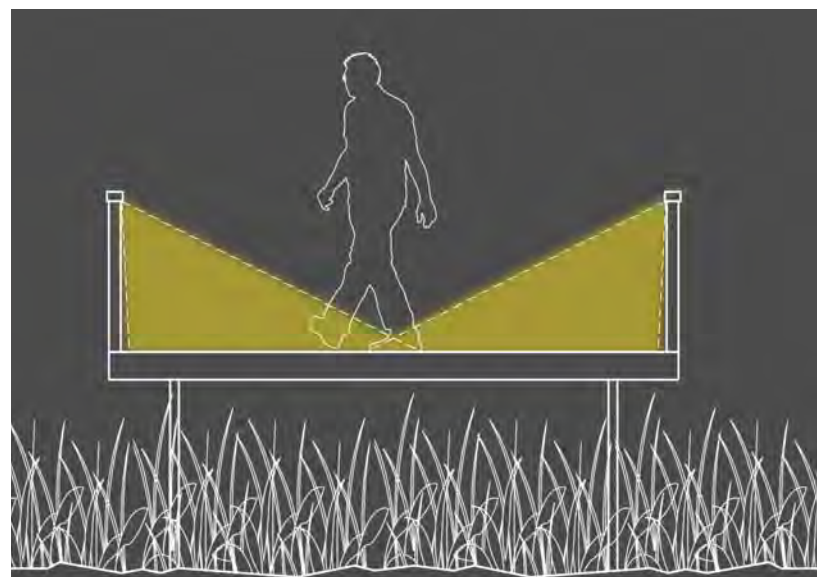
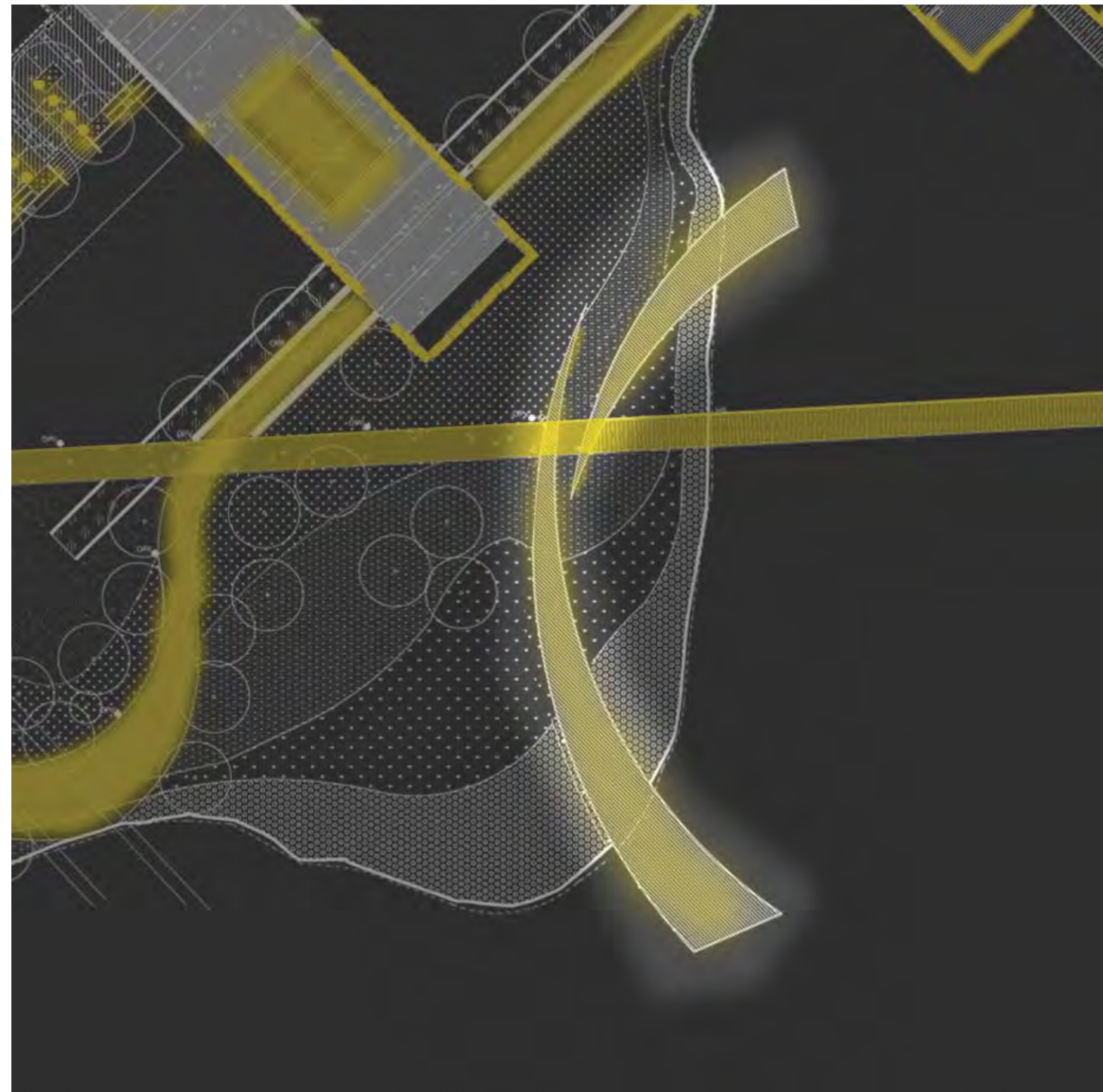
DIAGONAL PATH

Light walking surface only.



DOCKS

Ecological areas undisturbed at night.





**WE ARE FROM THIS CITY.
OF THIS CITY.**

**WE ARE GOING TO HELP CREATE
SOMETHING GREAT IN THIS CITY.**

— KEVIN PLANK