



# **THE BOWTIE PARCEL MASTER PLAN**

UCLA LD6: Concept Development

Instructor: Steven Chavez

Summer 2021

**TIMOTHY HAYWARD**



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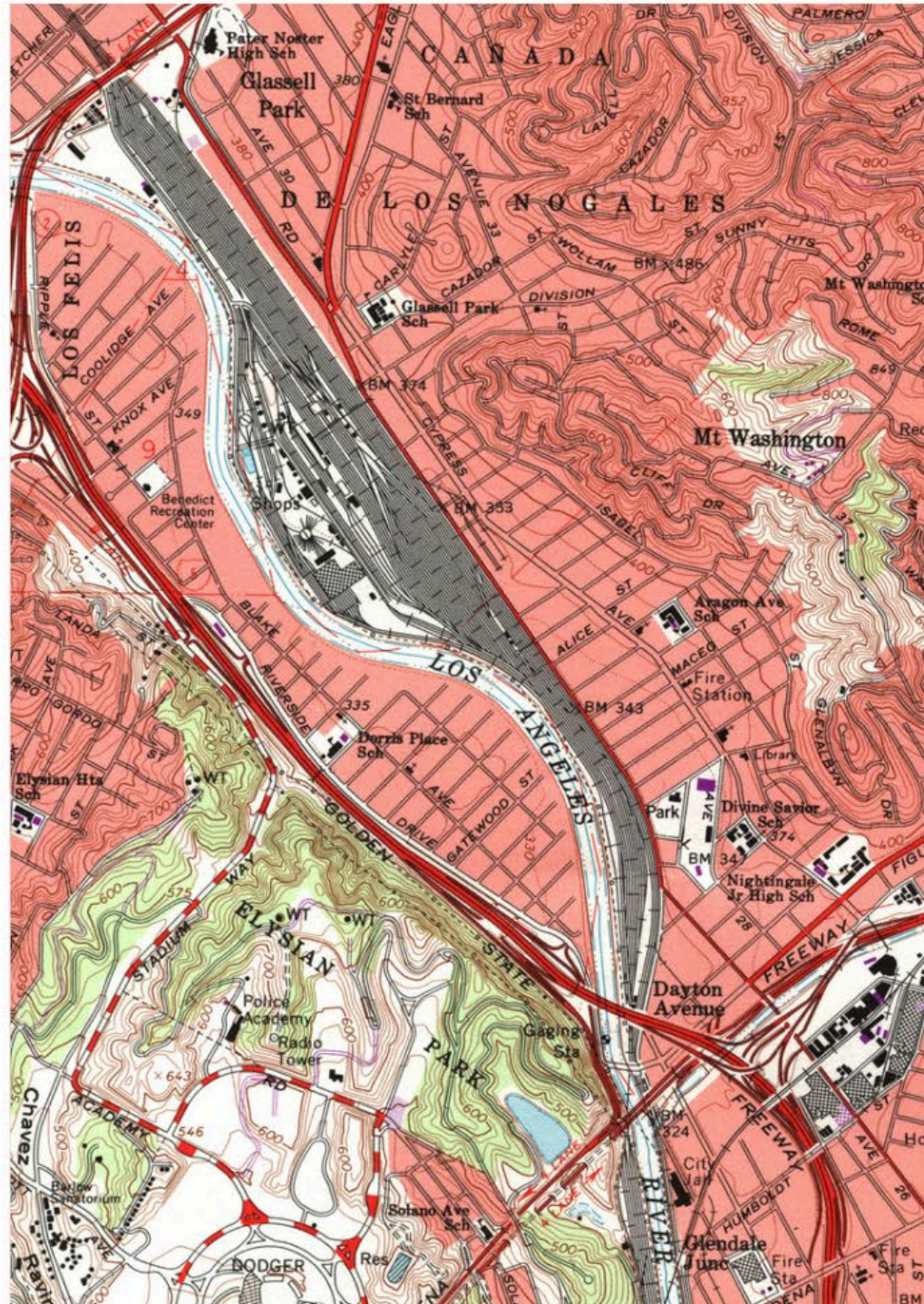
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“THE HEALTH AND VITALITY OF A COMMUNITY DEPEND ON ITS GREEN SPACE, ITS OPEN SPACE.”

—LUIS RINCON, COMMUNITY ENGAGEMENT COORDINATOR FOR CALIFORNIA STATE PARKS



# OVERVIEW AND HISTORY

The Bowtie Parcel (also known as G1) is 18 acres of unprogrammed open space on the edge of the Los Angeles River, formerly train service areas, in the northeast Los Angeles neighborhood of Glassell Park.

The area has a rich history and long connection to the LA River. The Tongva people are the earliest known inhabitants of this area living for thousands of years along its fertile basin.

Fast forward to Mexico ceding California in 1847, and Los Angeles saw an enormous growth due the expansion of railroad lines. In 1876, the Southern Pacific Railroad line was completed, running through the bowtie parcel and what would become to be known, by 1925, as Taylor Yard.

During Taylor Yard's glory days in the 1960s and 1970s, this 18-acre parcel of land was covered by a complex network of train tracks, roads, large and repair shops and office buildings.

By 1996, after years of financial problems, the Southern Pacific Transportation Company was taken over by the Union Pacific Corporation, the rail workers were transferred, and Taylor Yard became just an empty shell of old railroad buildings along the Los Angeles River. Now, the buildings are gone, though piles of rubble and rebar are scattered about the site and the environmental damage and soil toxicity remains a challenge.

In 2003, the California State Parks Department bought the Bowtie property to preserve the land for nature conservation and support efforts to restore the Los Angeles River and in 2014 partnered with 'Clockshop' to activate the G-1 parcel with art and cultural programming.

When complete, the Bowtie will be part of neighboring Rio de Los Angeles State Park. This area of the Los Angeles River is an important part of the river's ecosystem, one of the only places where the river has a "soft bottom," meaning it does not have a concrete bed and is still in its natural state.

While posing many challenges, this site offers incredible opportunities. The sound of the river, the beautiful scenic borrowed views, and the potential for a more naturalized setting. Habitat restoration as well as passive and active recreational activities will be addressed in this redesign to unlock the potential of this special space.



THE L.A. RIVER CAN'T BE ALL THINGS TO ALL PEOPLE, BUT IT CAN BE BETTER THAN WHAT WE HAVE NOW.

—THE LOS ANGELES TIMES EDITORIAL BOARD



# SITE HISTORY TIMELINE

A brief overview of the site's history with cultural history in blue and environmental factors in green.



PRE 1750 TO  
..... 1900

- Pre 1750s Tongva People occupied the region for centuries.
- 1784 Jose Maria Verdugo receives a grant for 36,000 acres of land which includes the bowtie parcel.
- 1876 Southern Pacific Railroad completed.
- Railroad runs through parcel.
- Residential development spreads throughout Los Angles.

## 1938 LA RIVER FLOODED

- A four day storm leads to epic flooding. As a result the Army Corps of Engineers channelized the river and encases it in concrete.

## 1985 TAYLOR YARD CLOSES

- Loss of jobs due to the Cajon Pass routes leads to closure of the yards. Environmental damage has been done however.
- Area gets developed for warehouses and zoned for mixed use.
- By the 1990s over half of the rails are vacated. Fedex and Metrolink develop near the site.

## 2019 100 ACRE PARTNERSHIP AT TAYLOR YARD

- after a 2015 passage of a \$1.3 billion dollar plan to revitalize the LA River, Governor Newsom approves \$500K for initial design proposal to the Bowtie parcel.



## 1908 TAYLOR YARD ESTABLISHED

- Taylor Family settles on parcel and starts business
- By the 1920s it becomes a major rail-yard facility.



## 1960 RAILROAD RE-ROUTED ALONG CAJON PASS

- Diesel shops are built along the river to serve the growing need for gas powered engines.
- Taylor Yard is the hub of the Southern Pacific Freight network with over 5000 employees.



## 2003 CALIFORNIA STATE PARKS ACQUIRES THE BOWTIE PARCEL

- But not before previously being labeled as Taylor Yard is designated as a brownfield site.

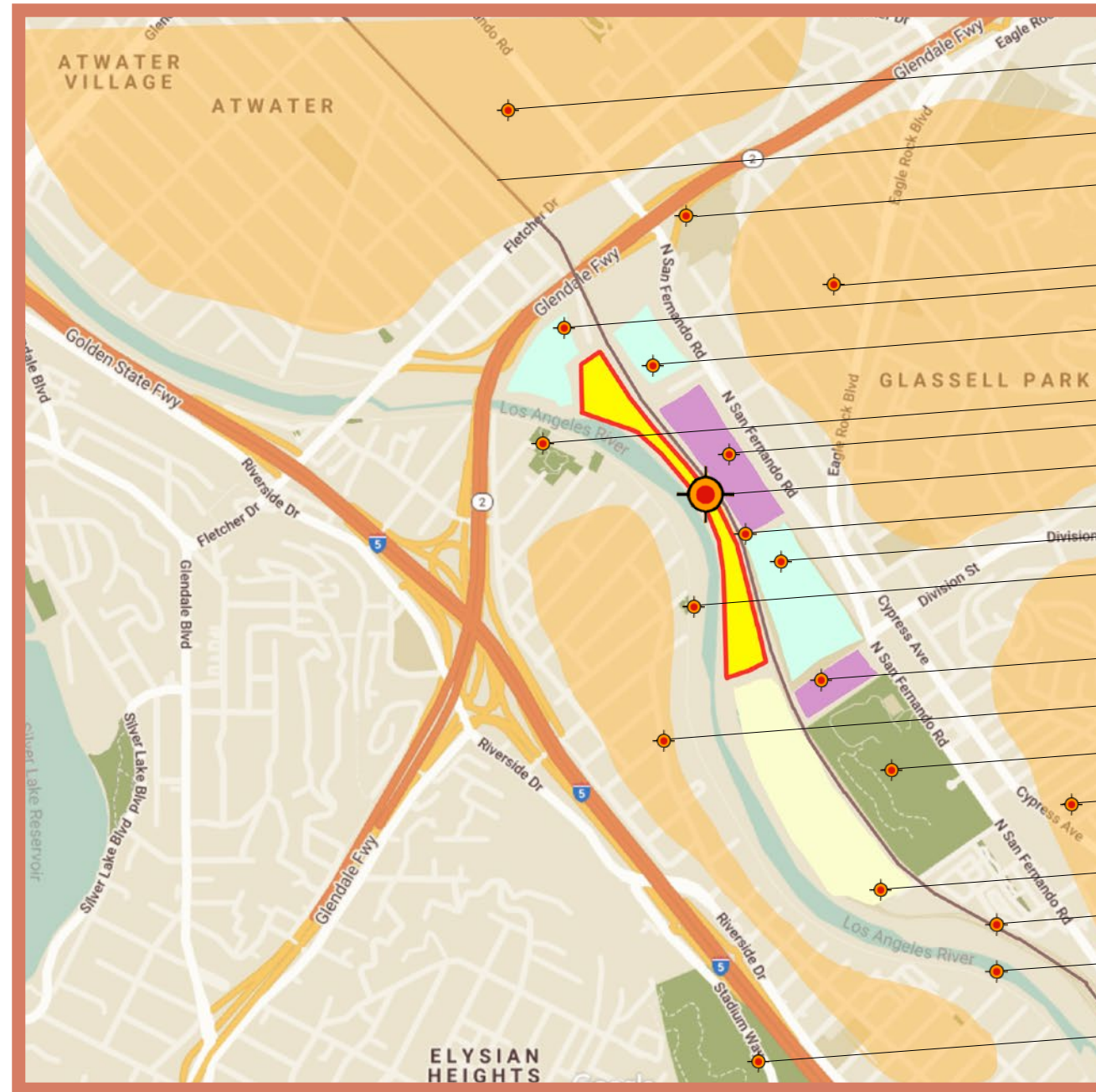
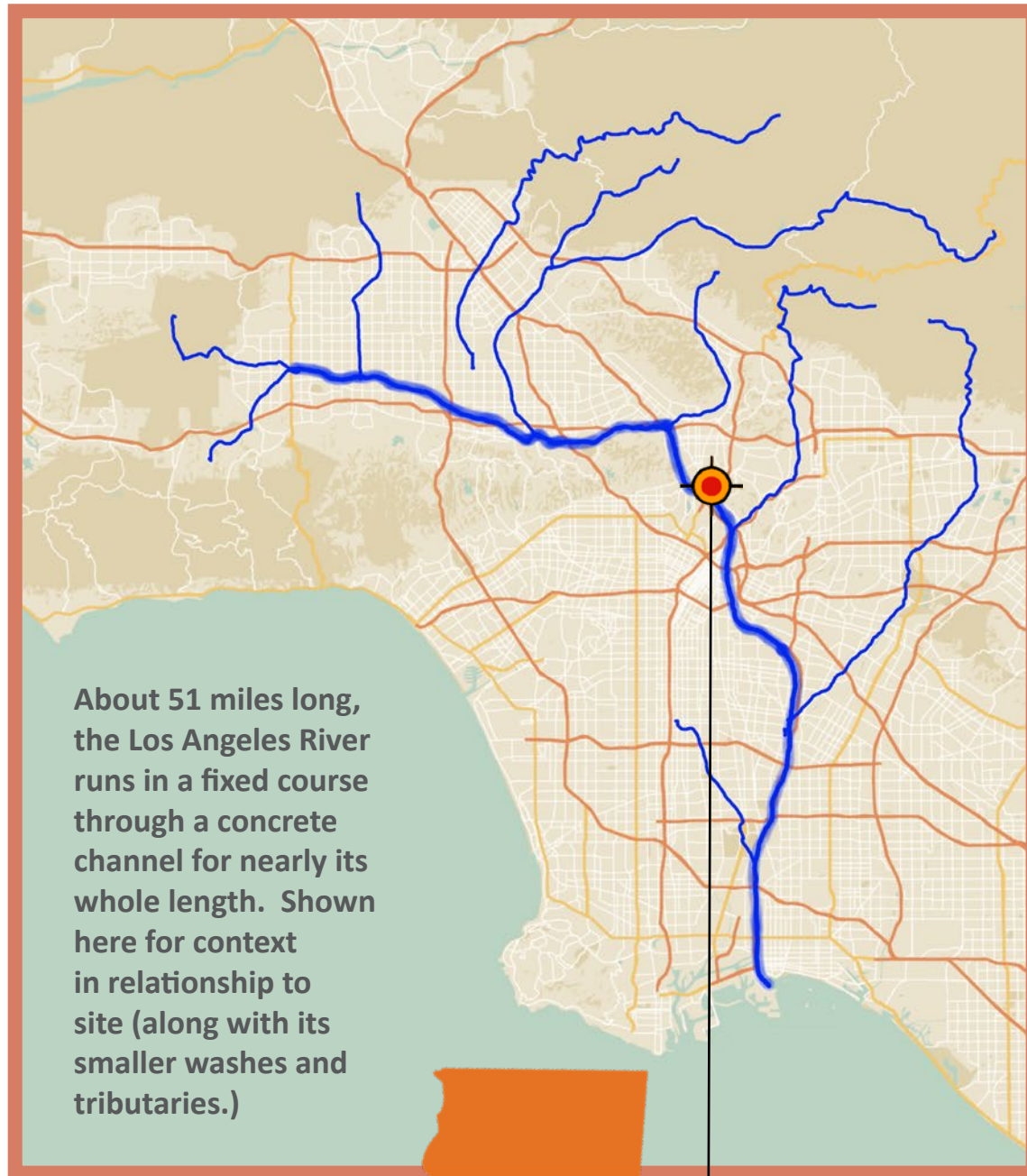
## 2014 CLOCK SHOP BOWTIE PROJECT

- CA State Parks and Clockshop partner up to bring cultural and artistic programming the underdeveloped and underutilized parcel.

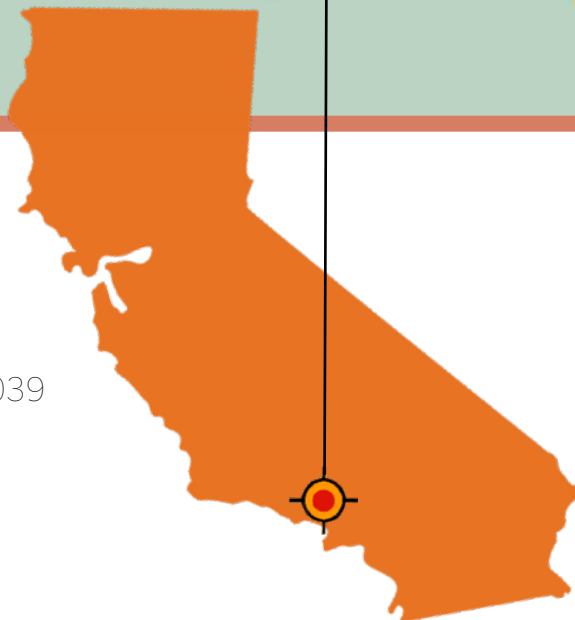




# SITE CONTEXT



**THE BOWTIE PARCEL**  
 GLASSELL PARK  
 2780 W Casitas Ave,  
 Los Angeles, CA 90039

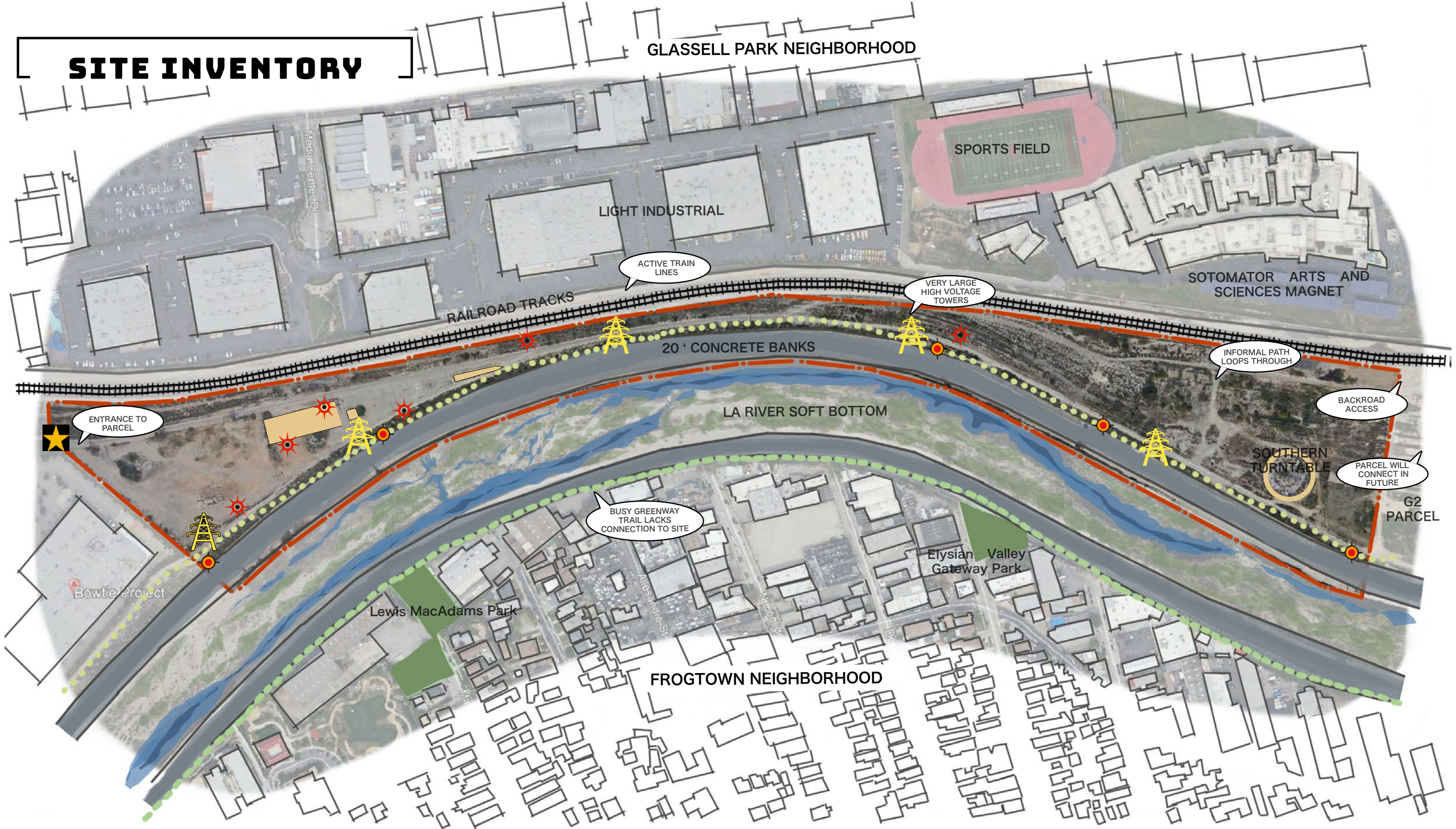


THE BOWTIE IS MANY THINGS AT ONCE. IT'S ONE OF THE FEW REMAINING URBAN HABITATS FOR PLANTS AND ANIMALS LIKE COYOTES, RABBITS, AND THE SIDE-BLOTCHED LIZARD. IT'S A TRAIN YARD FILLED WITH GHOSTS FROM ITS PAST, DECORATED BY NEW GRAFFITI. IT'S ALSO A REFUGE FOR MANY — HOUSED AND HOMELESS ALIKE — WHO SEEK AN ESCAPE FROM THE STRESS AND CONGESTION OF THE CITY. —SOUTH OF FLETCHER: STORIES FROM THE BOWTIE













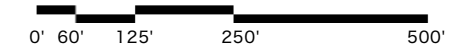


# SITE INVENTORY



## LEGEND

-  SCOPE OF WORK
-  EXISTING ACTIVE TRAIN TRACKS
-  INFORMAL BIKE/ FOOT PATH ALONG RIVER
-  LOS ANGELES GREENWAY TRAIL
-  EXISTING ENTRANCE
-  STORM PIPE OUTLETS
-  CLOCKWORKS ART INSTALLATION
-  HIGH VOLTAGE ELECTRICAL TOWER
-  EXISTING CONCRETE PADS
-  20 FOOT HIGH CONCRETE BANKS LEADING TO THE SOFT BOTTOM AREA OF THE LA RIVER FILLED WITH LUSH NATIVE AND NON-NATIVE PLANTING.





# SITE INVENTORY

## FLORA

NON-NATIVE HEAVYWEIGHTS AT THE BOWTIE PARCEL ARE PROMINENTLY ARUNDO DONAX, MEXICAN FAN PALMS, AND FOUNTAIN GRASS, WHICH ORIGINATES IN AFRICA AND THRIVES BECAUSE IT HAS NO NATURAL PREDATORS, AND CAN GROW IN ROCKS. SEVERAL NATIVE PLANTS ALSO THRIVE HOWEVER, SUCH AS CALIFORNIA BUCKWHEAT, FRAGRANT WHITE SAGE, AND YERBA SANTA.

### NON-NATIVE



*Arundo donax*



*Washingtonia robusta*



*Pennisetum setaceum*

### NATIVE



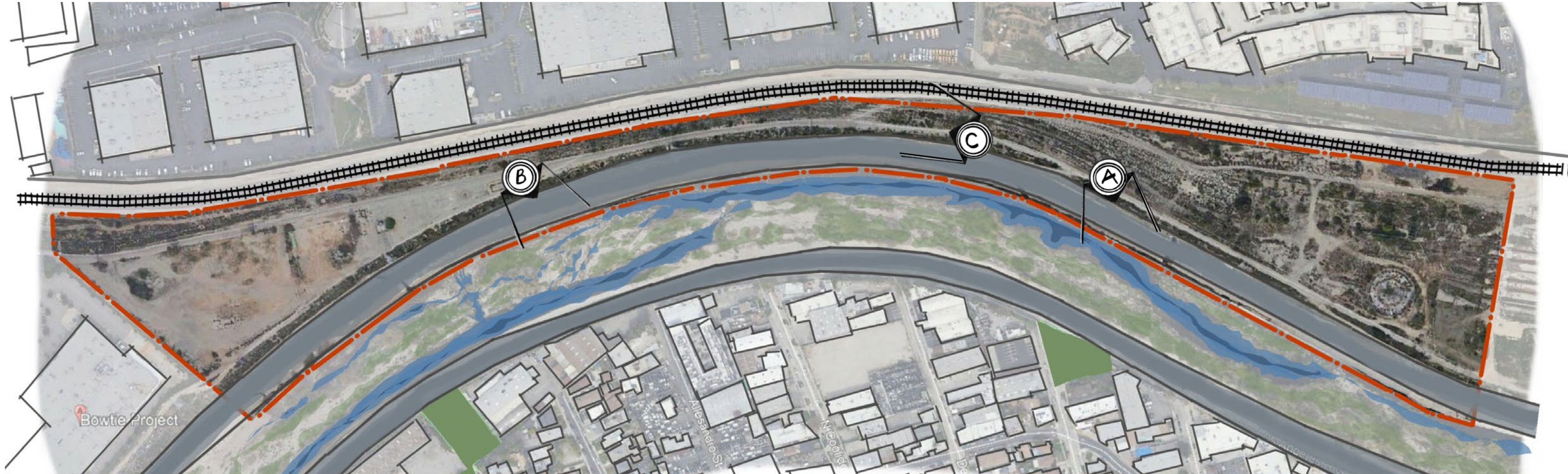
*Eriogonum fasciculatum*



*Salvia apiana*



*Eriodictyon californicum*



## USERS



Kayakers take advantage of the soft bottom and open current. Note the invasive grasses like *Arundo donax* (giant cane), an invasive grass from Southeast Asia



A biker takes advantage of the informal path at the rim of the LA river. This connects the neighborhoods and offers long stretches of uninterrupted views and passive and active recreational opportunities.



Walker taking advantage of the open space that lack a friendly tree canopy. High tension wires are seen to the right and note the non-native fountain grass and Mexican fan palms that runs through the site.

0' 60' 125' 250' 500'



PG



# SITE INVENTORY

## FAUNA

THIS STRETCH OF THE RIVER IS PART OF THE PACIFIC FLYWAY, THE MIGRATORY ROUTE FOR BIRDS THAT PASS ALONG THE PACIFIC COAST. REGULARS HERE INCLUDE OSPREY, LONG-NECKED STILTS, HERONS, CORMORANTS, HAWKS AND VARIETIES OF DUCKS AND GEESE. OTHER ANIMALS INCLUDE REPTILES, AMPHIBIANS AND MAMMALS.

### BIRDS



Osprey



Long Necked Stilts



Hérons

### REPTILES, AMPHIBIANS AND MAMMALS



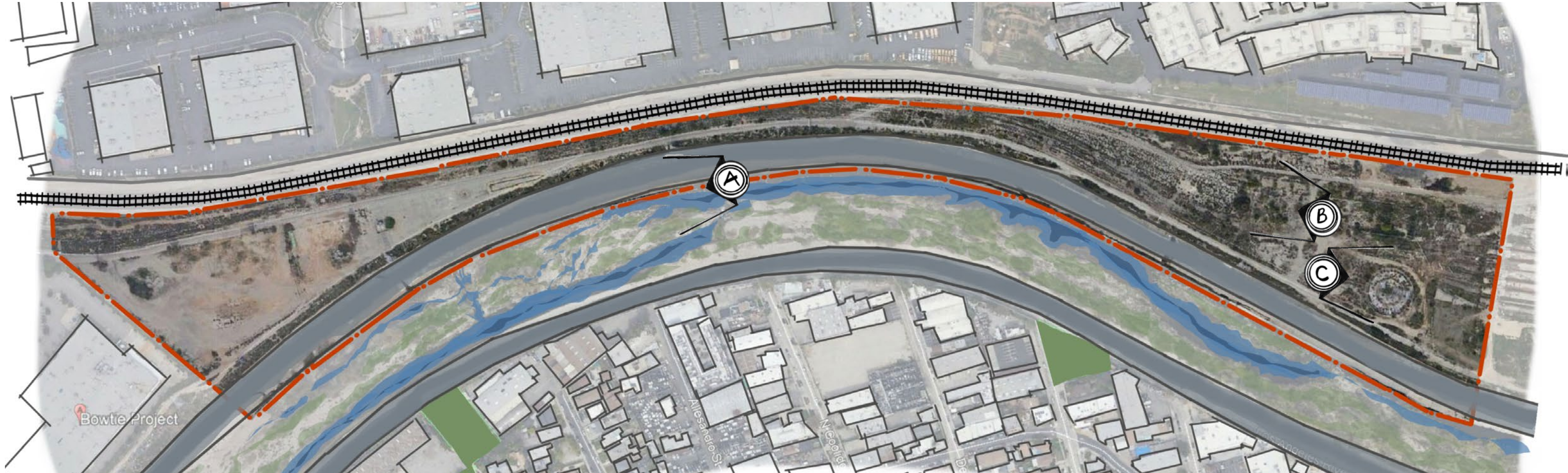
Ground Squirrel



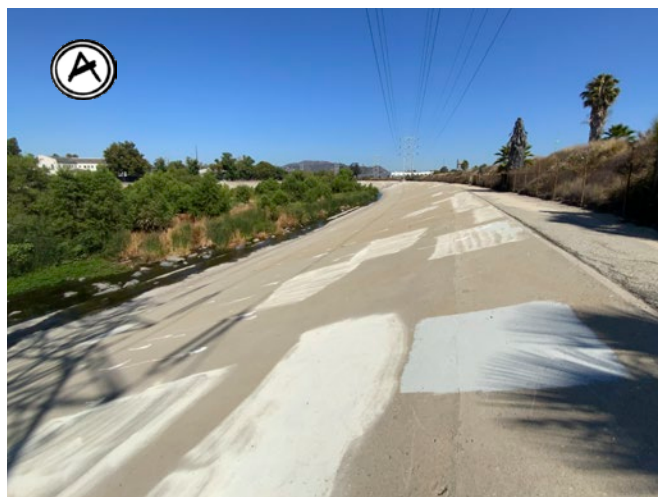
Pacific Tree Frog



Side Blotched Lizard



## OPEN SPACE



The lush soft opening of the LA river is broken up by the steep stretch of concrete along the river's walls.



Non-native fountain grass and Mexican fan palms runs through the brownfield. Hot and flat conditions throughout the Bowtie parcel, but beautiful views of the hills and mountains are seen beyond.



An old remnant of the South Turntable that would turn train cars around in this once bustling train yard. Graffiti and other from public art through the Clockworks program is seen throughout the site.

0' 60' 125' 250' 500'



PG

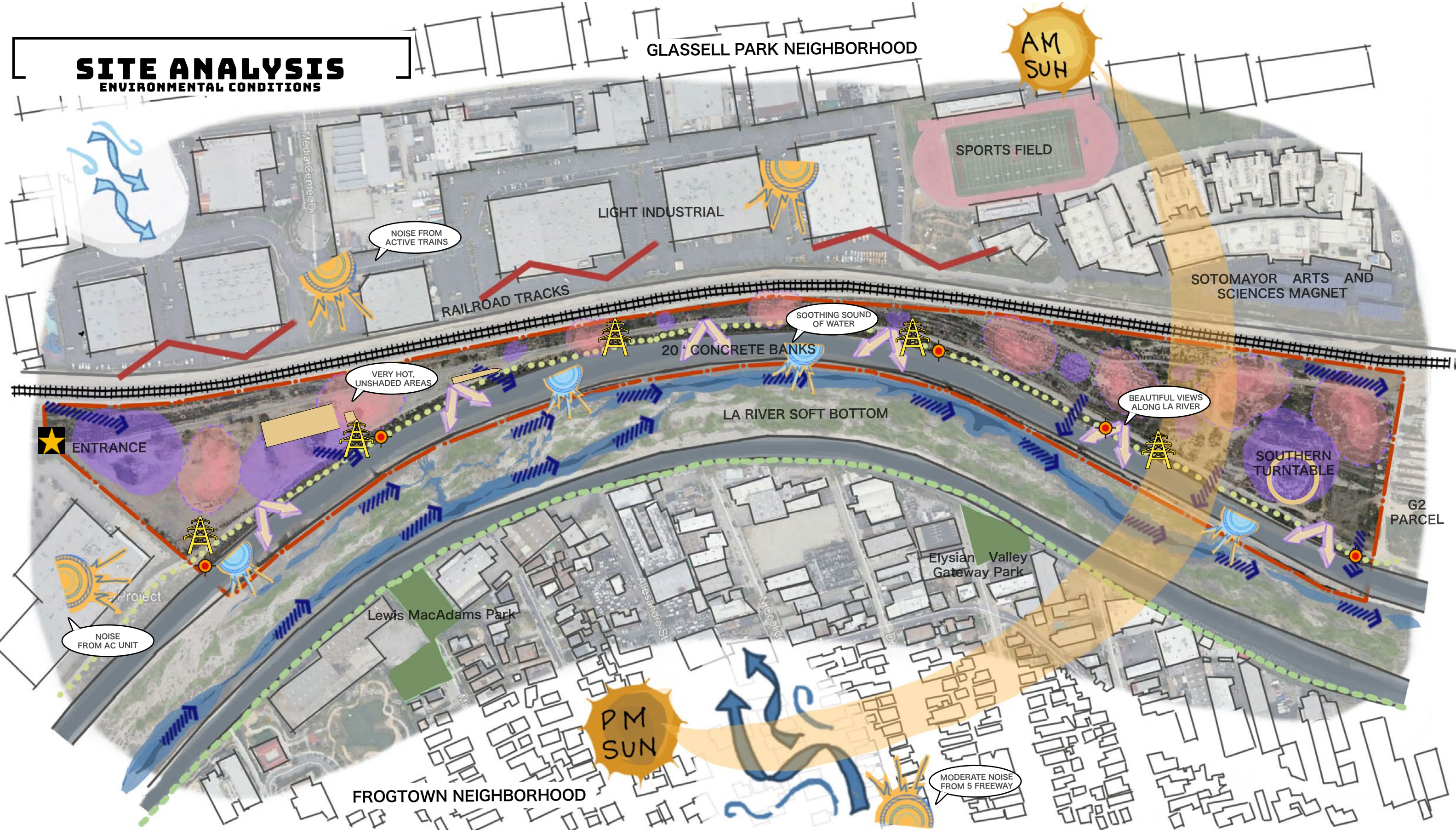
**THE BOWTIE PARCEL 7**

TIMOTHY HAYWARD LD6 SUMMER 2021



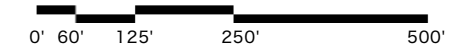
# SITE ANALYSIS

## ENVIRONMENTAL CONDITIONS



### LEGEND

-  SCOPE OF WORK
-  EXISTING ACTIVE TRAIN TRACKS
-  INFORMAL BIKE/ FOOT PATH ALONG RIVER
-  LOS ANGELES GREENWAY TRAIL
-  EXISTING ENTRANCE
-  STORM PIPE OUTLETS
-  HIGH VOLTAGE ELECTRICAL TOWER
-  EXISTING CONCRETE PADS
-  FLAT AND HOT OPEN AREAS
-  POOR SOIL CONDITIONS- LEAD, ARSENIC, DIESEL OIL
-  SUN PATH
-  PREVAILING WINDS
-  SANTA ANA SEASONAL WINDS
-  VIEWS TO CONSIDER BUFFERING
-  FLOW OF WATER OR STORM WATER RUNOFF
-  BEAUTIFUL VIEWS OF LA RIVER
-  SOOTHING SOUND OF BABBLING/RUSHING WATER
-  NOISE TO CONSIDER BUFFERING





# SITE CONSTRAINTS

- 1 DEAD END**  
LIMITED ACCESS AND NO PARKING
- 2 DIVIDED**  
LIMITED CONNECTIVITY TO RIVER AND NO ACCESS ACROSS
- 3 POLLUTION**  
CONTAMINATED STORM WATER/ URBAN DROOL
- 4 SHIFT**  
FLOODS AND FLUCTUATING WATER LEVELS

Only pedestrian access on North Side. No dedicated parking for site at all and no current connection to future G2 parcel so site dead ends in present state.

Chain link fence and 20 foot concrete side walls separate the parcel limiting access to its most compelling feature. No access or connection to the bustling adjacent Frogtown neighborhood across the river.

Storm drains run under the site feeding into the already contaminated LA River.

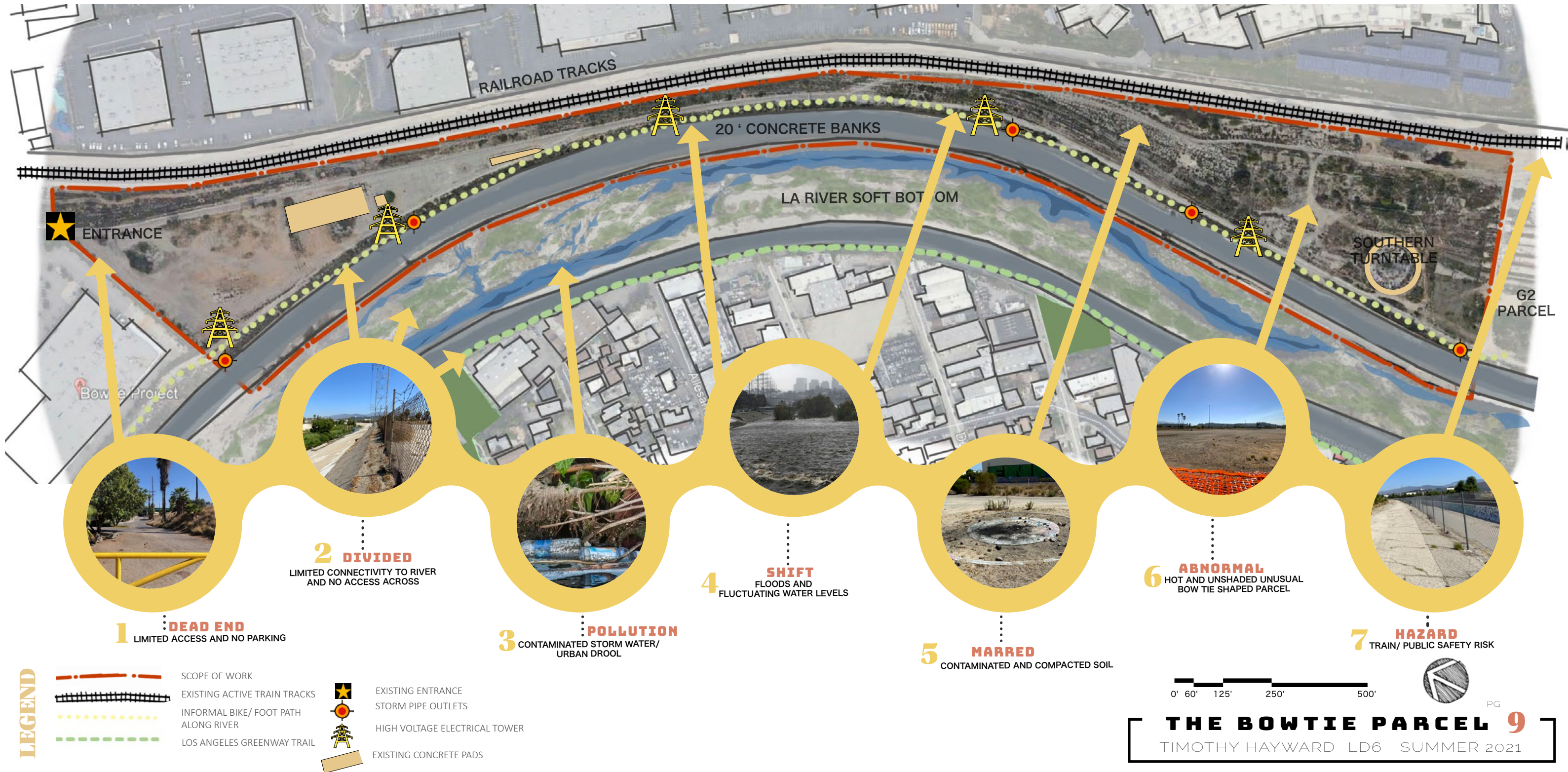
Channelization of the LA river has been a means for flood control. Fed by wastewater discharge from water treatment plants, storm-water and urban runoff it has a fluctuating water level requiring consideration.

- 5 MARRED**  
CONTAMINATED AND COMPACTED SOIL
- 6 ABNORMAL**  
HOT AND UNSHADED ABNORMAL SHAPED PARCEL
- 7 HAZARD**  
TRAIN/ PUBLIC SAFETY RISK

Heavily compacted soil from decades of train travel throughout the site as well as very poor soil quality with engine oil, lead and arsenic among other contaminants detected.

Site lacks tree canopy and is hot and unshaded throughout. Asphalt and concrete remnants contribute to the heat island effect. The parcel itself narrows in the middle creating an unusual shape.

An active train system moves to adjacent to the property requiring extra attention to public safety.



## LEGEND

- SCOPE OF WORK
- EXISTING ACTIVE TRAIN TRACKS
- INFORMAL BIKE/ FOOT PATH ALONG RIVER
- LOS ANGELES GREENWAY TRAIL
- EXISTING ENTRANCE
- STORM PIPE OUTLETS
- HIGH VOLTAGE ELECTRICAL TOWER
- EXISTING CONCRETE PADS

0' 60' 125' 250' 500'





# SITE OPPORTUNITIES

**1 ACCESS**  
DEDICATED PARKING AND EASY ACCESS

Create a parking area and additional access and circulation throughout the site and it's surrounding areas.

**2 CONNECTION**  
REMOVE OR RE-ENVISION CONCRETE BANKS AND CREATE PEDESTRIAN BRIDGE TO FROGTOWN

Connection can be made to Frogtown and current concrete slopes of concrete river are a missed opportunity to enjoy the scenic sounds and views of the LA river and its soft bottom activity.

**3 CLEANSE**  
BIO-REMEDIATION/ PHYTOREMEDIATION AND RESTORE RICH RIPARIAN HABITAT

Further emphasis on bio-remediation and restoration to the natural riparian habitat for a cleaner more natural setting.

**4 ENGAGE**  
ADD PROGRAMING AND STRENGTHEN PUBLIC ART

Add programming to activate the parcel including bolstering what Clockshop started with public art and attention getting installations.

**5 CREATE**  
REMOVE/ CAP CONTAMINATED SOIL

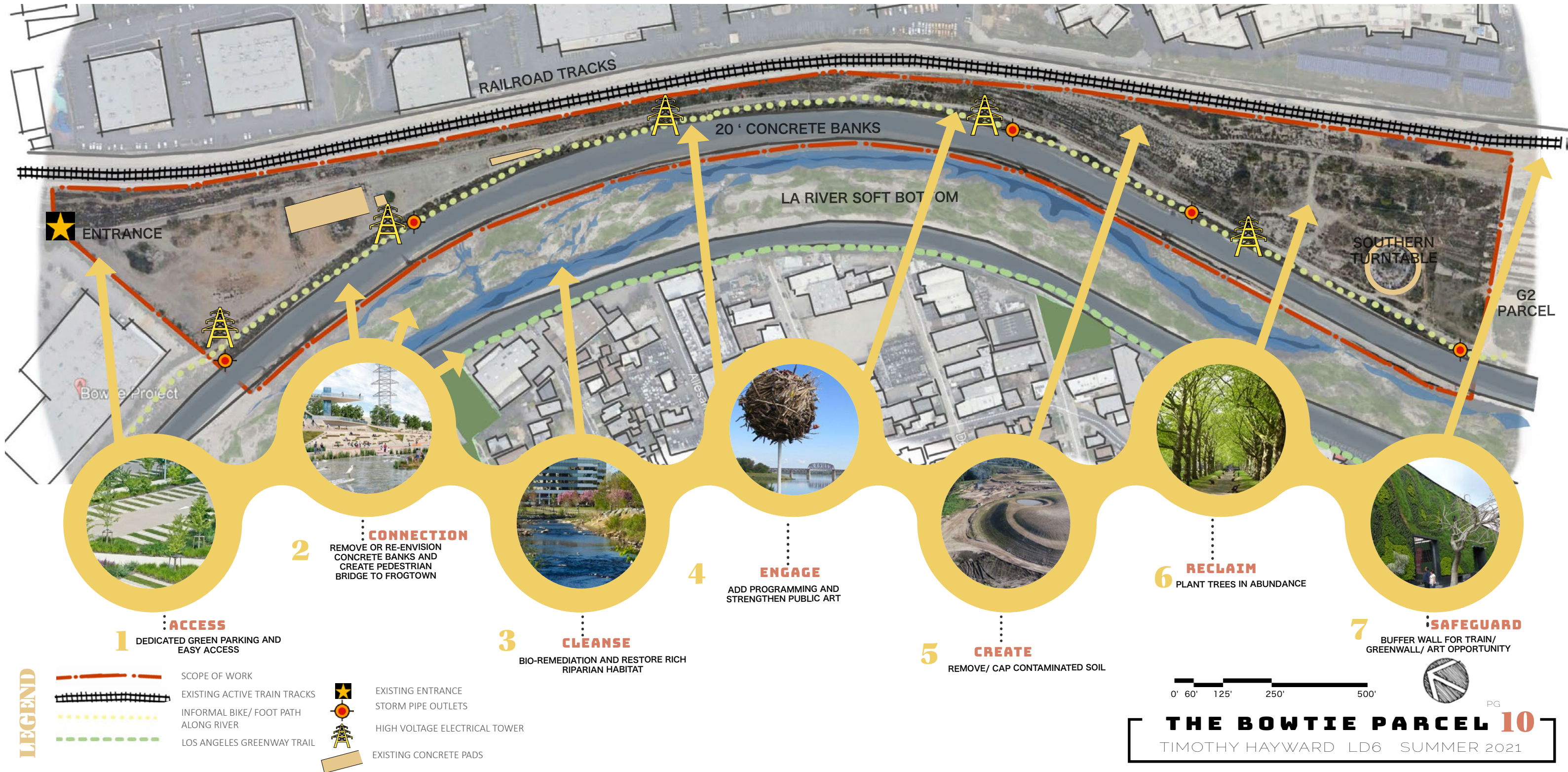
Removing or capping the contaminated water creates opportunity to have topography on this flat barren parcel.

**6 RECLAIM**  
PLANT TREES IN ABUNDANCE

Trees will offer both the benefit of shade in the hot environment, but will also naturally clean and filter the storm water.

**7 SAFEGUARD**  
BUFFER WALL FOR TRAIN/ GREENWALL/ ART OPPORTUNITY

A buffer wall can be created to infuse both public art and green space to be enjoyed by both park goers and passengers on the trains.



**1 ACCESS**  
DEDICATED GREEN PARKING AND EASY ACCESS

**2 CONNECTION**  
REMOVE OR RE-ENVISION CONCRETE BANKS AND CREATE PEDESTRIAN BRIDGE TO FROGTOWN

**3 CLEANSE**  
BIO-REMEDIATION AND RESTORE RICH RIPARIAN HABITAT

**4 ENGAGE**  
ADD PROGRAMING AND STRENGTHEN PUBLIC ART

**5 CREATE**  
REMOVE/ CAP CONTAMINATED SOIL

**6 RECLAIM**  
PLANT TREES IN ABUNDANCE

**7 SAFEGUARD**  
BUFFER WALL FOR TRAIN/ GREENWALL/ ART OPPORTUNITY

LEGEND

- SCOPE OF WORK
- EXISTING ACTIVE TRAIN TRACKS
- INFORMAL BIKE/ FOOT PATH ALONG RIVER
- LOS ANGELES GREENWAY TRAIL
- EXISTING ENTRANCE
- STORM PIPE OUTLETS
- HIGH VOLTAGE ELECTRICAL TOWER
- EXISTING CONCRETE PADS

0' 60' 125' 250' 500'



PG

**THE BOWTIE PARCEL 10**

TIMOTHY HAYWARD LD6 SUMMER 2021



# PRECEDENT CASE STUDY #1

## 01 BEFORE-MANUFACTURING PLANT



## 02 AFTER-CLEAN RIVER HABITAT PARK



## 03 CONSTRUCTED WETLANDS



## 04 SITE PLAN



# RENAISSANCE PARK: CHATTANOOGA, TN

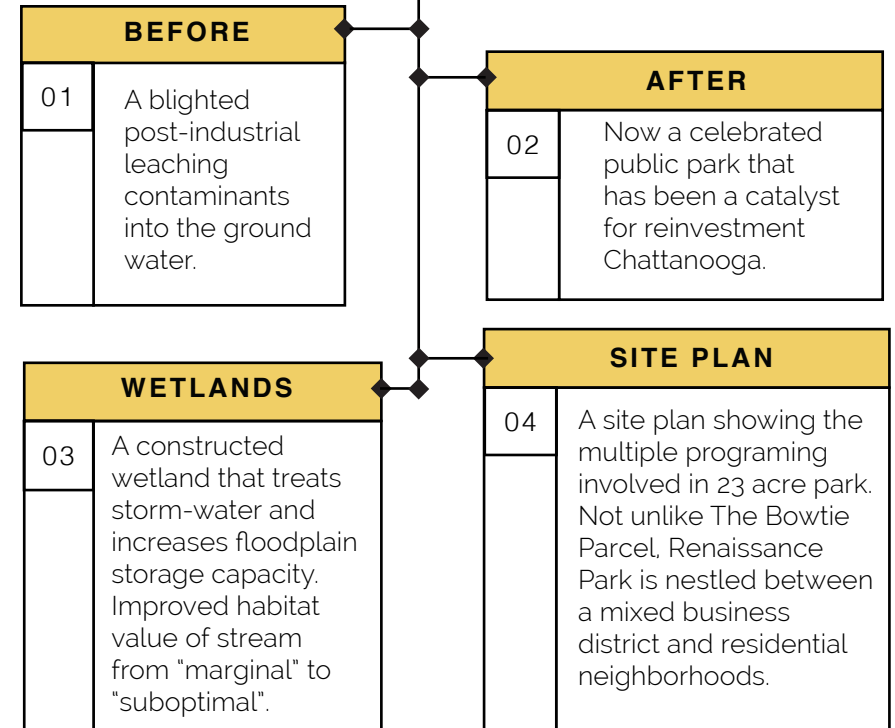
**Designer: Hargreaves Associates**

### ENVIRONMENTAL RECLAMATION

Renaissance Park is a 23 acre wetlands park designed to highlight this area's ecology and history. Once the site of manufacturing plants, by capping contaminated areas Renaissance Park shows how a polluted area can be returned to a clean river habitat and a natural park setting, offering many parallels to the Bowtie parcel. The park's design promotes the return of native plants and animals, enhances river ecosystems, and provides a balance between urban renewal and the conservation of natural resources. Renaissance Park also celebrates Chattanooga's rich heritage.

#### Areas of Improvement:

- Popularity of the location as an urban slope for year-round sledding has made it a challenge to keep the grass growing.
- Erosion concerns for one of the park's piers.
- During the process of excavating contaminated soils from the site, seasonal rains saturated the soil, leaching into the earth underneath.
- The densely vegetated nature of the preserved riparian floodplain forest raised public safety concerns with City administration. Photos show that the riparian nature returned quickly and maintenance is a factor for the Bowtie Parcel.
- E Coli has continued to be a problem on site.





# PRECEDENT CASE STUDY #2

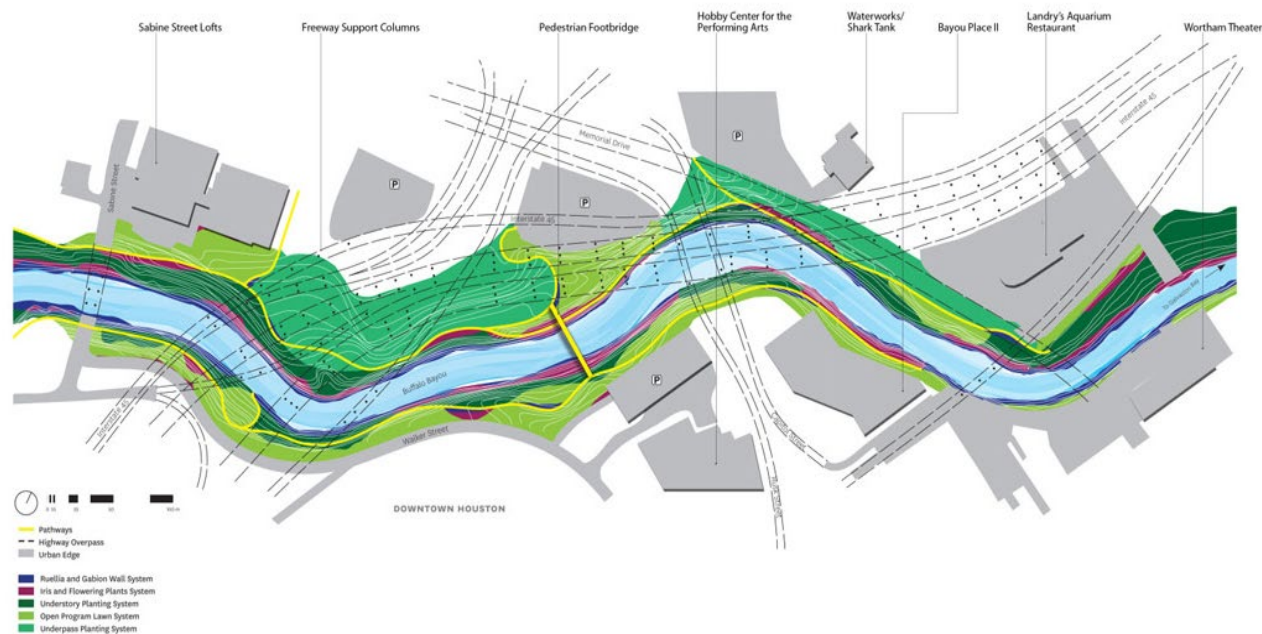
## 01 BEFORE- URBAN GREYFIELD



## 02 AFTER- THRIVING URBAN WATERFRONT



## 03 SITE PLAN



## 04 PARK/ OPEN SPACE



# BUFFALO BAYOU PROMENADE: HOUSTON, TX

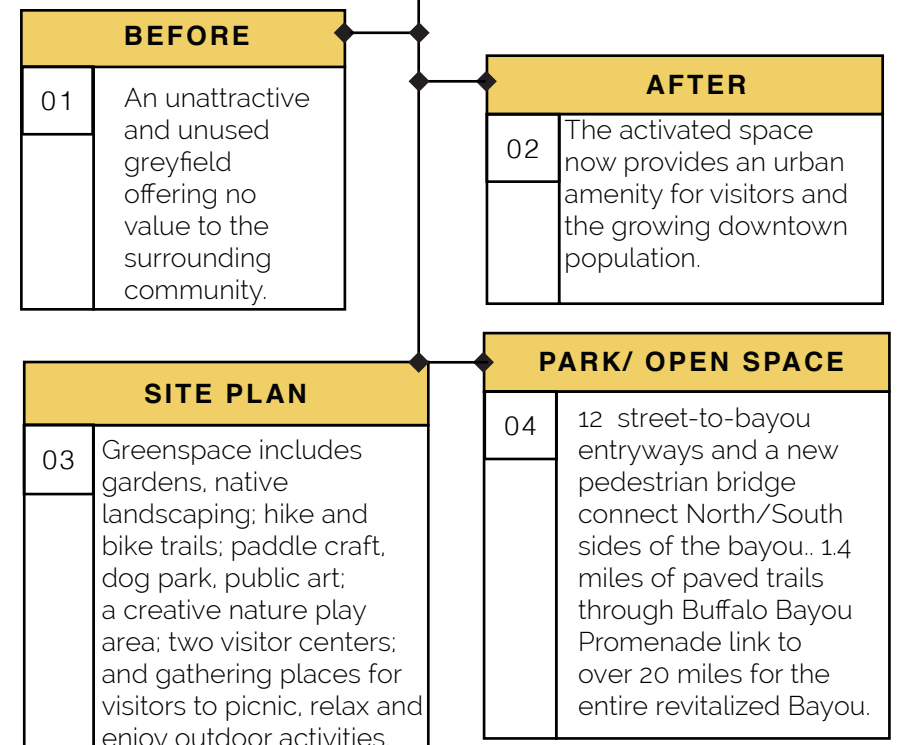
Designer: SWA Group

### ENVIRONMENTAL RECLAMATION

Buffalo Bayou Promenade is a 23-acre urban park and recreation area that transformed a trash infested urban greyfield into a thriving waterfront. The project improved flood control capacity and transformed a small space beneath the freeway into a safe and welcoming place for pedestrians. Gabion sacks and cages (made with recycled crushed concrete) on the river edge allow water egress and mimic the natural conditions of the channel. Native and naturalized riparian plantings improve the erosion control. The park system connects to the downtown area through 12 new ADA-compliant entries, with each portal highlighted by public sculptures by John Runnels, artistic lighting and perennial gardens.

#### Areas of Improvement:

- Still subject to Hurricane damage. This area was hit hard by Hurricane Harvey leaving heavy sand and silt deposits in the lower park areas.
- The freeway covers about 40% of the promenade, and creates an extreme condition of deep shade and lots of auto noise that isn't buffered.
- New design scraped up the banks with backhoes, removed a large amount of natural riparian vegetation and trees, and graded the banks with bulldozers, all of which runs counter to best management practices for riparian zones.





# PRECEDENT CASE STUDY #3

## 01 BEFORE- CONGESTED ELEVATED FREEWAY



## 02 AFTER- UNCOVERED WATERFRONT



## 03 SITE PLAN



## 04 RESTORATION MEETS OPENSOURCE



# CHEONGGYECHEON STREAM RESTORATION: SEOUL, SOUTH KOREA

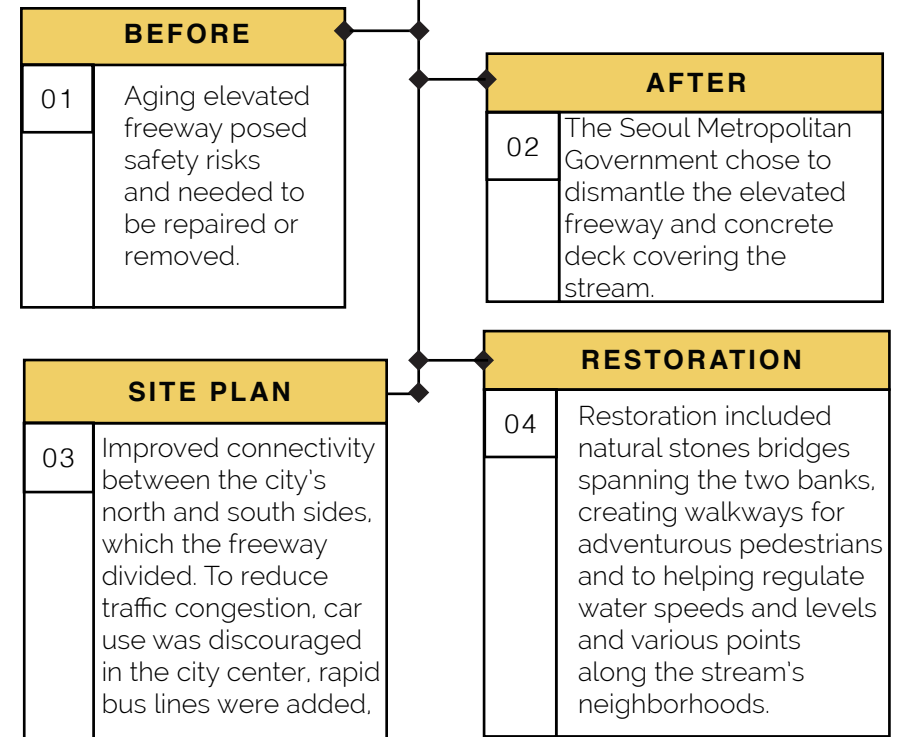
**Designer: SeoAhn Total Landscape**

### ENVIRONMENTAL RECLAMATION

The City of Seoul is changing from an auto and business oriented urban landscape to one that values the quality of life of its people and the importance of functioning ecosystems. By demolishing an elevated freeway and uncovering a section of the historic Cheonggyecheon Stream, the Cheonggyecheon Restoration Project created both ecological and recreational opportunities along a 3.6-mile corridor in the center of Seoul. The design provides flood protection for up to a 200-year flood event. Because water is only naturally present in the Cheonggyecheon during the summer rainy season, 120,000 tons of water from the Han River and several subway pump stations is pumped and treated to create a consistent flow. Native willow swamps, shallows and marshes were constructed in 29 different locations along the restoration, creating habitat for fish, amphibians, insects, and birds. Terraced vertical walls give visitors access as water levels change, create seasonal interest as levels submerge.

Areas of Improvement:

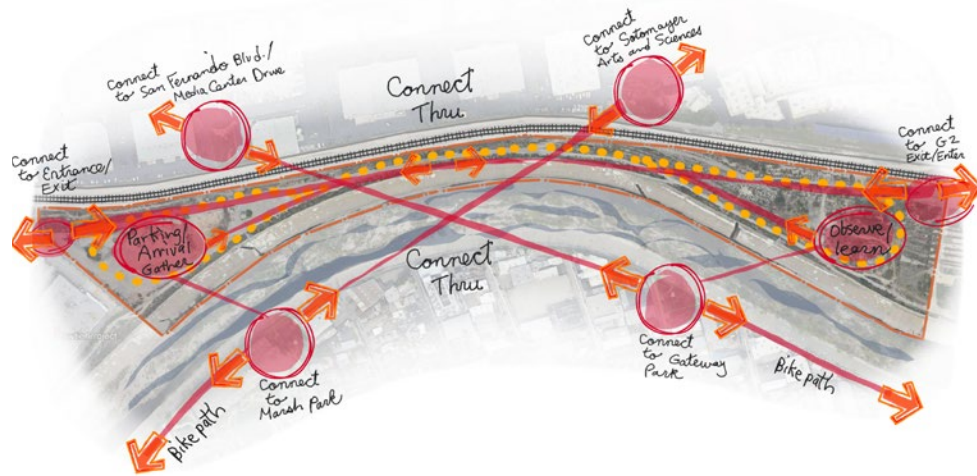
- ADA access is limited and was not a requirement as evidenced by photos.
- Water is not naturally present in the Cheonggyecheon for most of the year except during the summer rainy season, making it difficult to create a consistent urban amenity requiring non sustainable pumps.
- Transportation still very much an issue in Seoul and surrounding this area.





# SPACE FINDING DIAGRAMMING

## RELATIONSHIP DIAGRAM



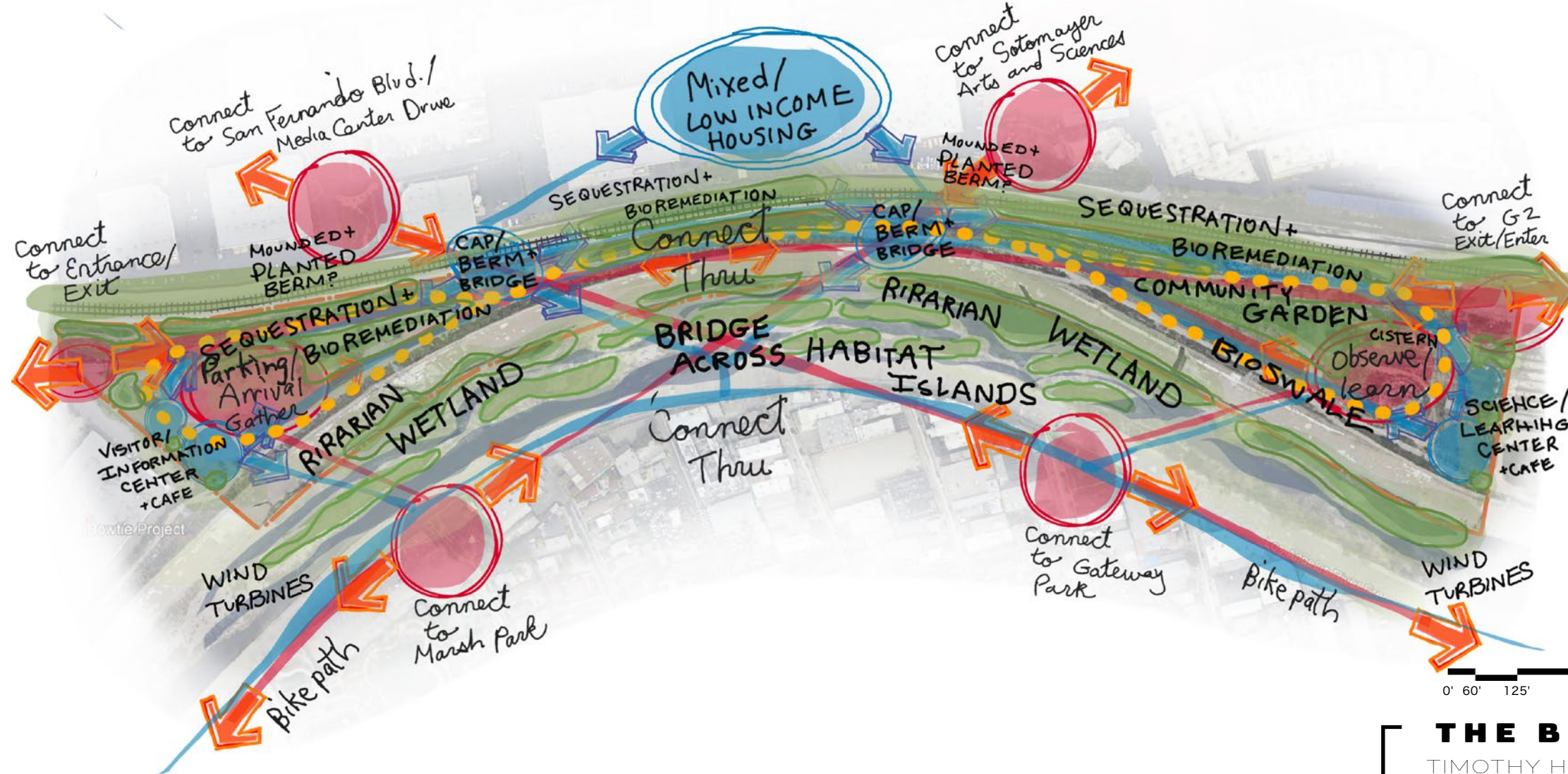
## STRUCTURAL DIAGRAM



## PLANTING DIAGRAM



## ALL TOGETHER





# DESIGN ALTERNATIVE 1

## EBBS AND FLOW ARROYO

**1 TIERS**  
PLANTED AND TRAVERSABLE TIERS

Peel back the concrete and replace with planted and traversable steps. Ramps for ADA access will be considered.

**2 SHADE STRUCTURE**  
TONGVA INSPIRED SHADE STRUCTURES ALONG MAIN PATHS

Shade structures throughout connect the property and create gathering nodes.

**3 CONTROLLED BIOSWALES**  
BIO-REMEDIATION/ PHYTOREMEDIATION AND RESTORE RICH RIPARIAN HABITAT

Storm drains have been daylighted creating opportunity to clean and restore water before returning to LA river.

**4 CONNECTING BRIDGES**  
CURVILINEAR SWEEPING SHAPES

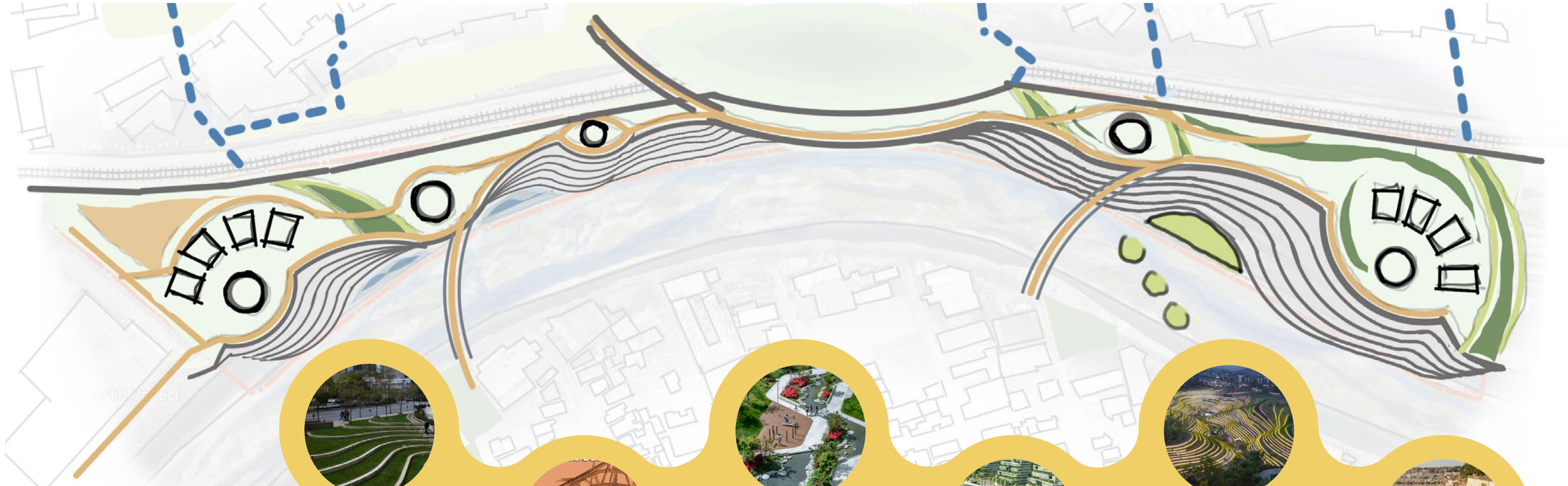
working with the curvilinear sweeping forms, dramatic bridges connect the site with the surrounding context.

**5 TERRAFORM SHAPES**  
PARAMETRIC DESIGN

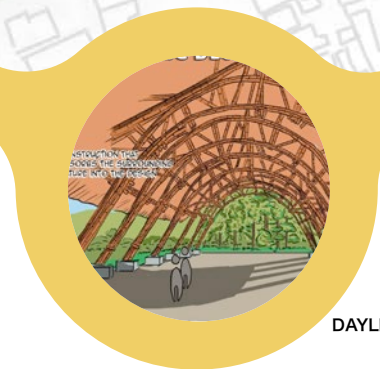
Parametric design created undulating and interesting form and opportunity.

**6 "BEACH"**  
TIERS LEAD TO OPEN "BEACH"

Direct connection to the river creates an opportunity to engage on all planes of the site, including the river's edge.



**1 TIERS**  
PLANTED AND TRAVERSABLE TIERS



**2 SHADE STRUCTURE/ GATHERING NODES**  
TONGVA INSPIRED SHADE STRUCTURES ALONG MAIN PATHS



**3 CONTROLLED BIOSWALES**  
DAYLIGHT STORM DRAINS BRING CONSTRUCTED CHANNELS TO CLEAN WATER



**4 CONNECTING BRIDGES**  
CURVILINEAR SWEEPING SHAPES



**5 TERRAFORM SHAPES**  
PARAMETRIC DESIGN



**6 "BEACH"**  
TIERS LEAD TO OPEN "BEACH"

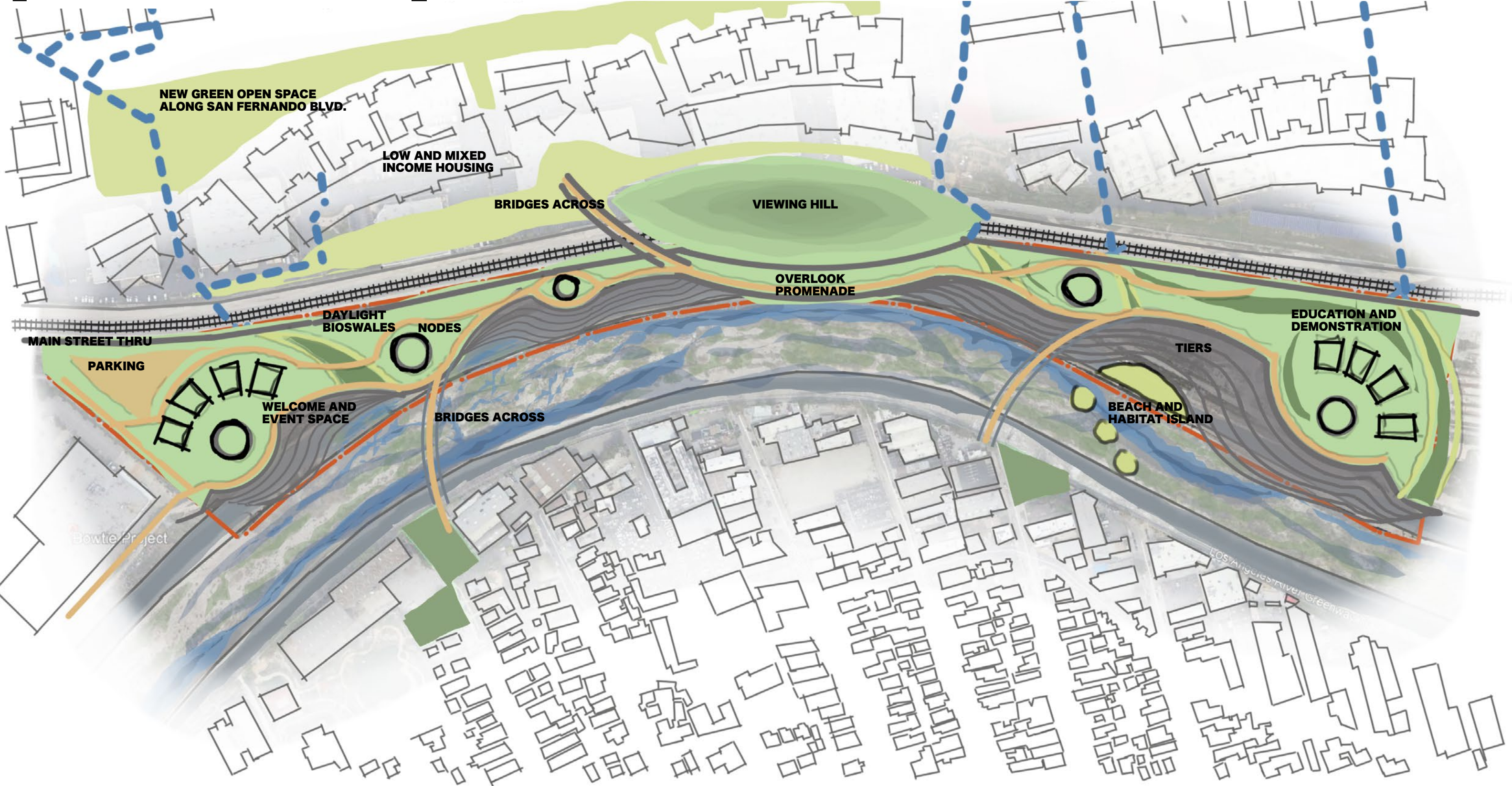
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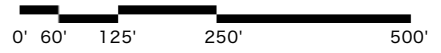
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# DESIGN ALTERNATIVE 1



## EBBS AND FLOW ARROYO





# DESIGN ALTERNATIVE 2

## BIOSWELL PARK

**1 ARROYO**  
DESIGN TO SLOW DOWN WATER

Inspired by water moving through sand, the primary focus is to take advantage of moving stormwater through the site.

**2 CLEANSE**  
STORMWATER FOCUS

Filtration/ Infiltration/ BioRemediation are key to the design.

**3 SWITCHBACK TO RIVER**  
MEANDERING PATHS SLOW DOWN HUMANS

The LA river's concrete sides are removed, creating a green wall. The river's edge can be accessed by a meandering switchback.

**4 STREAMLINE/ SLOW**  
SLOW DOWN WATER, AND HUMANS WITH STREAMLINE DESIGN

Slowing down humans and water are the main components of this design.

**5 BRIDGE CONNECTION**  
FLOWING SHAPE BRIDGES

Connections are made from Frogtown to site.

**6 BIODIVERSE**  
FOCUS ON BIODIVERSE/ HABITAT

Animals, Natural Habitat and Greenspace > Human in this design scheme. Nature is key.



**1 ARROYO**  
DESIGN TO SLOW DOWN WATER

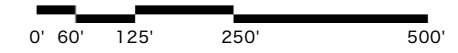
**2 CLEANSE**  
REMEDICATION FOCUS

**3 SWITCHBACK TO RIVER**  
MEANDERING PATHS SLOW DOWN HUMANS

**4 STREAMLINE/ SLOW**  
SLOW DOWN WATER, AND HUMANS WITH STREAMLINE DESIGN

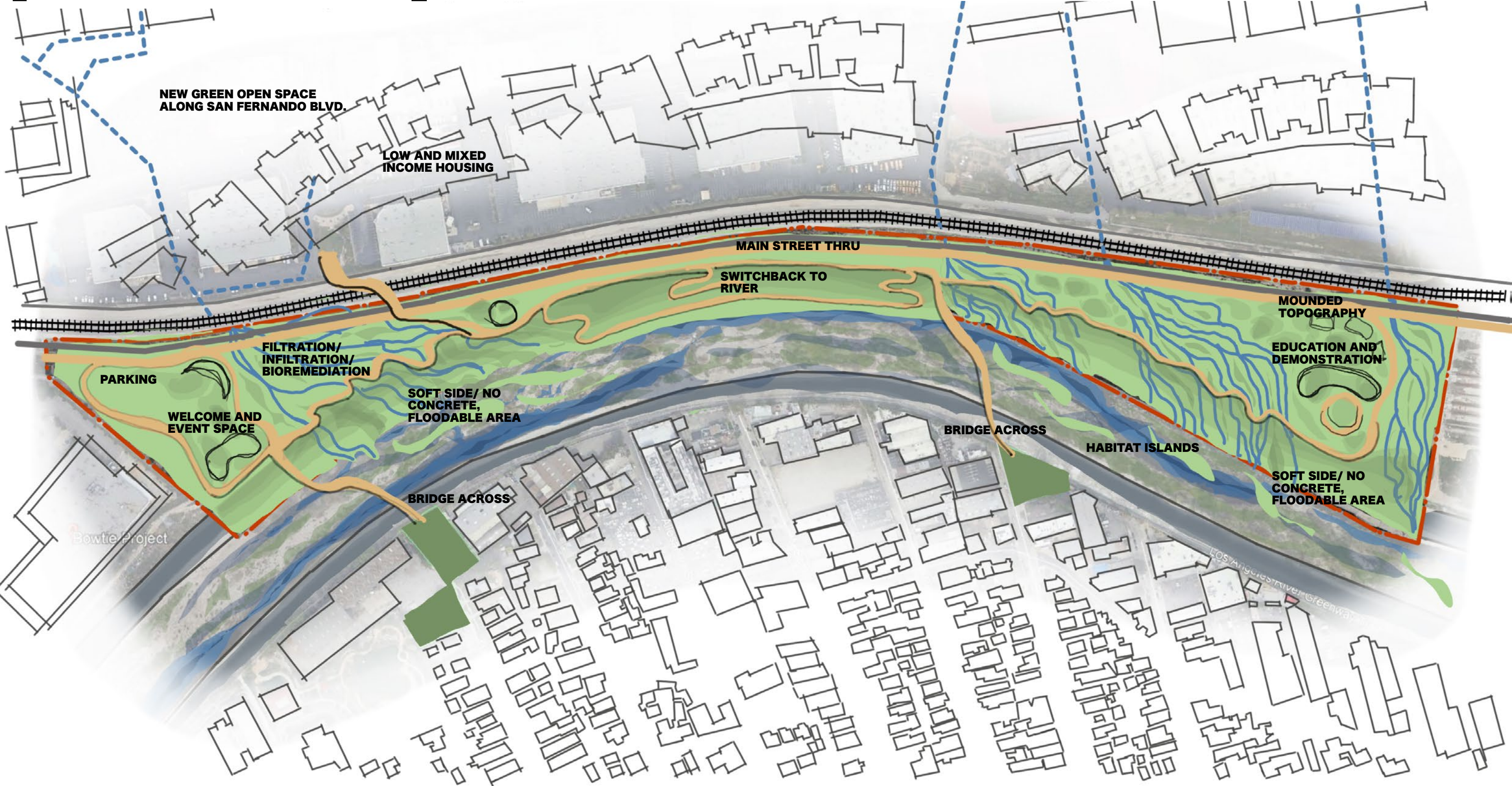
**5 BRIDGE CONNECTION**  
FLOWING SHAPE BRIDGES

**6 BIODIVERSE**  
FOCUS ON BIODIVERSE/ HABITAT

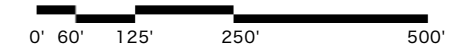




# DESIGN ALTERNATIVE 2



## BIOSWELL PARK





# DESIGN ALTERNATIVE 3

## CONNECTION/ INTERVENTION

**1 INFINITY LOOP**  
RETURN TO NATURE

Only pedestrian access on North Side. No dedicated parking for site at all and no current connection to future G2 parcel so site dead ends in present state.

**2 MAIN OVERLOOK**  
CANTILEVERED VIEWING PLATFORM

Connection can be made to Frogtown and current concrete slopes of concrete river are a missed opportunity to enjoy the scenic sounds and views of the LA river and its soft bottom activity.

**3 BERMED TRAIN**  
COVERED TRAIN CREATES OPPORTUNITY FOR HILLSIDE VIEWS

Storm drains run under the site feeding into the already contaminated LA River.

**4 DAYLIGHT STORM DRAINS**  
CONTROLLED LINEAR BIOSWALES WITH RIPARIAN SIDE PLANTING

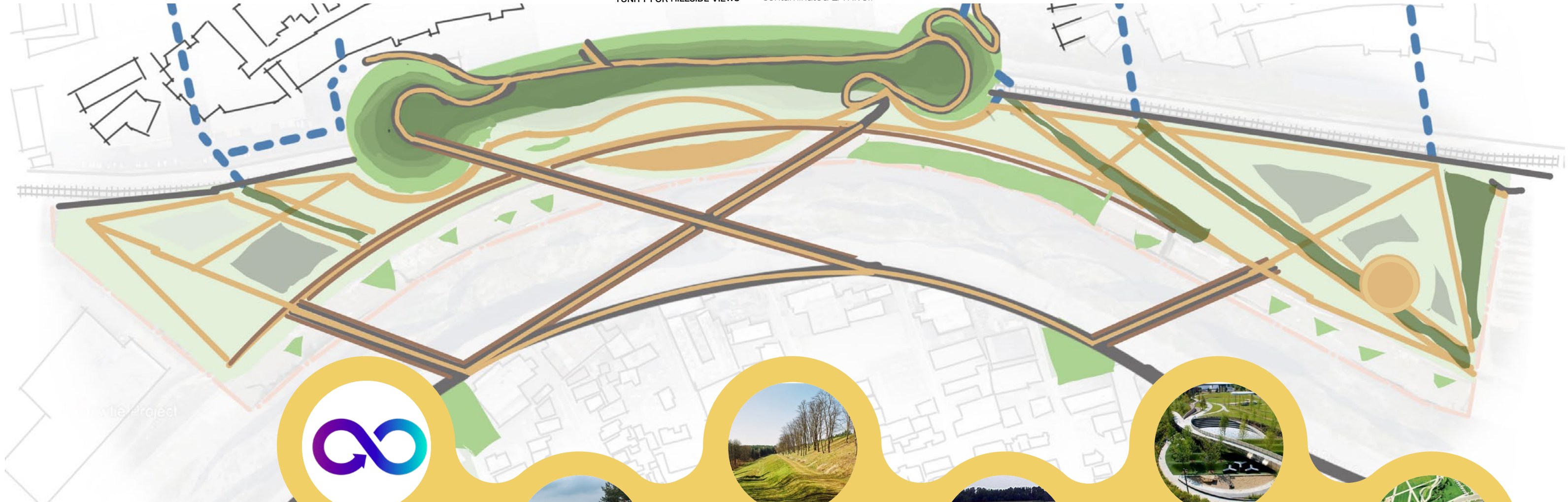
Programming to activate the parcel including bolstering what Clockshop started with public art and attention getting installations.

**5 OVER/ UNDER MAIN BRIDGE**  
PARAMETRIC DESIGN

Regrading or capping the contaminated water creates opportunity to have topography on this flat barren parcel.

**6 JUXTAPOSITION**  
RECTILINEAR AND CURVILINEAR SHAPES

Trees will offer both the benefit of shade in the hot environment, but will also naturally clean and filter the storm water.



**1 INFINITY LOOP**  
RETURN TO NATURE

**2 MAIN OVERLOOK**  
CANTILEVERED VIEWING PLATFORM

**3 BERMED TRAIN**  
COVERED TRAIN CREATES OPPORTUNITY FOR HILLSIDE VIEWS

**4 DAYLIGHT STORM DRAINS**  
CONTROLLED LINEAR BIOSWALES WITH RIPARIAN SIDE PLANTING

**5 OVER/ UNDER MAIN BRIDGE**  
DRAMATIC BRIDGE CROSSING

**6 JUXTAPOSITION**  
RECTILINEAR AND CURVILINEAR SHAPES

0' 60' 125' 250' 500'



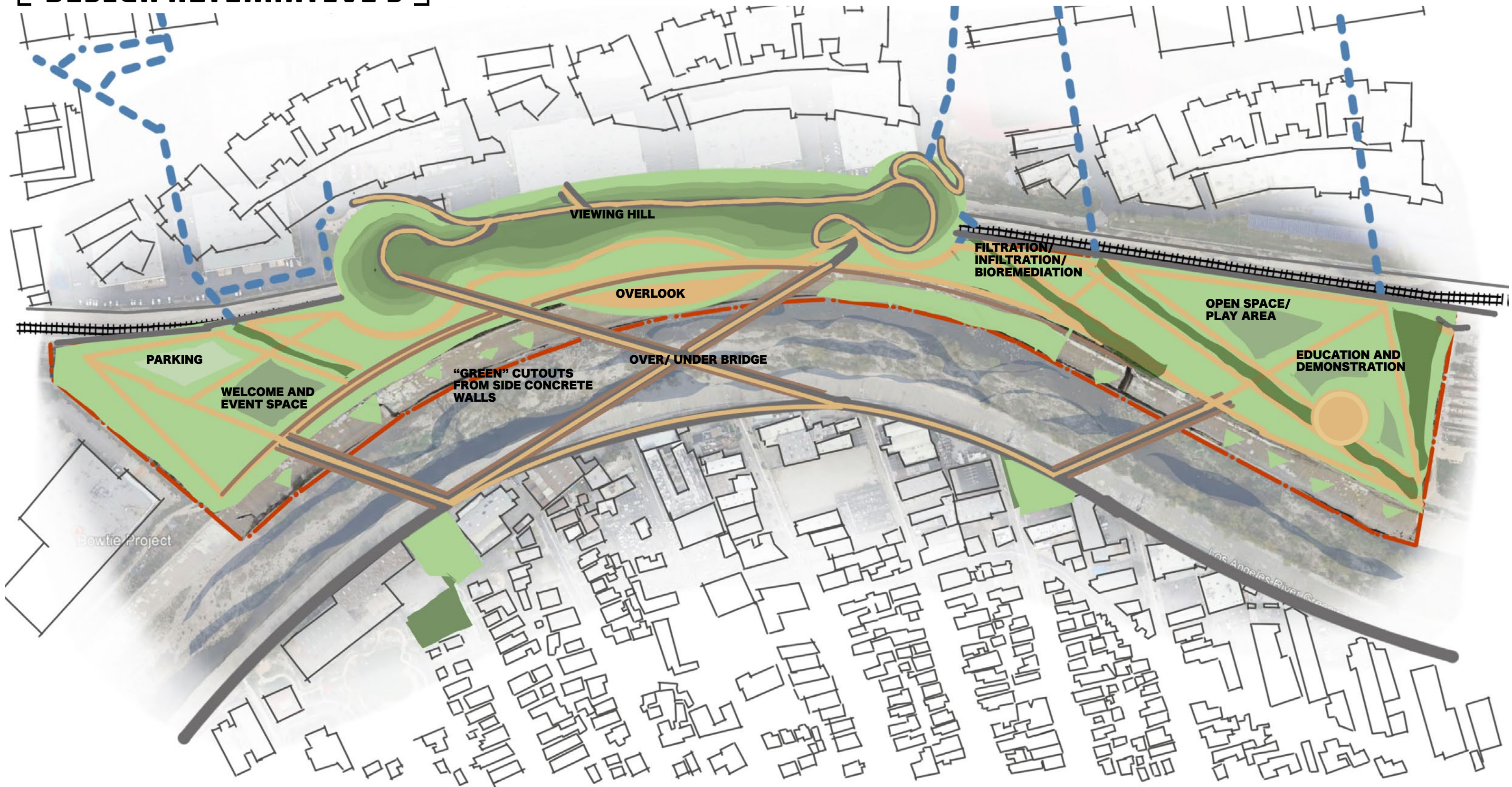
PG

**THE BOWTIE PARCEL 19**

TIMOTHY HAYWARD LD6 SUMMER 2021



# DESIGN ALTERNATIVE 3



# CONNECTION/ INTERVENTION

0' 60' 125' 250' 500'





# FINAL CONCEPT

## EBBS AND FLOW ARROYO

**1 TIERS**  
PLANTED AND TRAVERSABLE TIERS

Peel back the concrete and replace with planted and traversable steps. Ramps for ADA access will be considered.

**2 SHADE STRUCTURE**  
TONGVA INSPIRED SHADE STRUCTURES ALONG MAIN PATHS

Shade structures throughout connect the property and create gathering nodes.

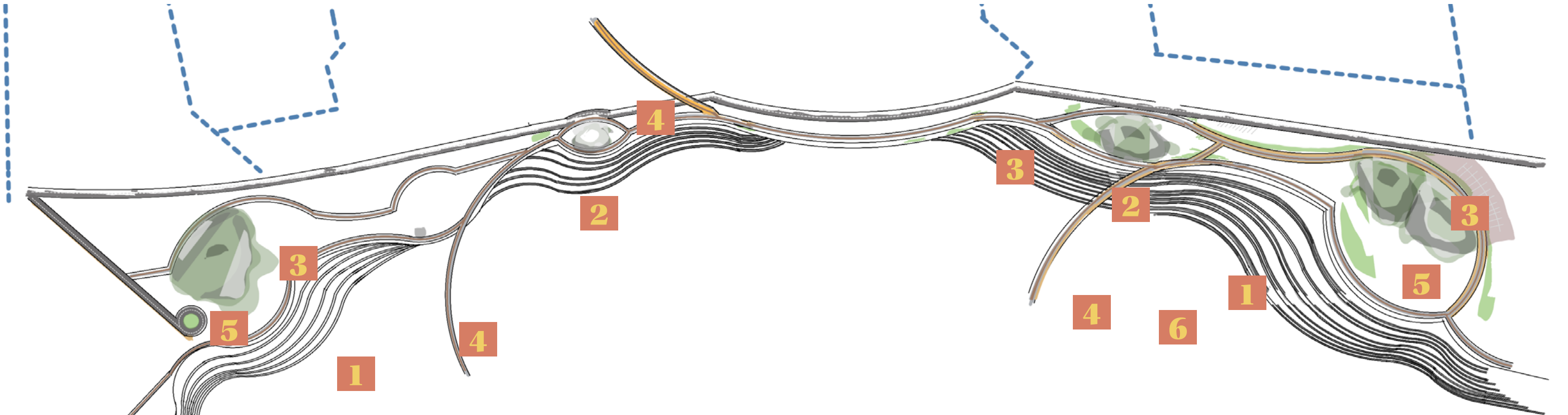
**3 CONTROLLED BIOSWALES**  
BIO-REMEDICATION/ PHYTOREMEDIATION AND RESTORE RICH RIPARIAN HABITAT

Storm drains have been daylighted creating opportunity to clean and restore water before returning to LA river.

**4 CONNECTING BRIDGES** working with the curvilinear sweeping forms, dramatic bridges connect the site with the surrounding context.  
CURVILINEAR SWEEPING SHAPES

**5 TERRAFORM SHAPES** Parametric design created undulating and interesting form and opportunity.  
PARAMETRIC DESIGN

**6 "BEACH"** Direct connection to the river creates an opportunity to engage on all planes of the site, including the river's edge.  
TIERS LEAD TO OPEN "BEACH"



### MASTER PLAN STATEMENT

The Bowtie master plan focuses on stormwater and natural biofiltration as a main goal - creating educational and dynamic treatment and design to be enjoyed by the entire community while improving habitat for plant and animal life. Pedestrian bridges make connections to Glassell Park and Frogtown, and planted tiers terrace down to the water, connecting the community to the river along a new riverfront path. A swale system flows from a daylighted stormdrain adjacent to the main road lets water travel East West through the site as it filters through the swales and down the terraced tiers and into the river. Two pedestrian bridges linking formerly isolated neighborhoods cross the river to Lewis Macadams Park and Elysian Valley Gateway Park. Another pedestrian bridge span the railroad tracks connecting to the river to Glassell Park and Sotomayor Magnet School and the new proposed low and mixed income housing, retail space and greenbelt along San Fernando Blvd. Along with acres of green space for passive recreation, the proposed design has active play areas a park, a welcome and event center as well as a preschool and senior center on the north end are meant to support the local neighborhood. The parking lot at the north end of the park is designed as a flexible space to accommodate farmers markets and food trucks with ample shade and seating. Moving south, there is a cantilevered viewing promenade/platform for local weekend gatherings. Across the middle of the main access road in the center of the site is a bermed hill where the train goes under. This creates a large viewing hill and open space for picnic and gathering. On either side, interesting multi-use structures house bathrooms, small cafes, and shade structures with dramatic views of the river. Moving further south is long term housing structure. The next to that building is THE CARBON CAPTURE INSTITUTE, a full time, Manhattan style project that works full time bringing the brightest scientific minds together through grants and research to help solve the problem of carbon capture and

The curvilinear forms of paths and peeled back tiered mirrors the curve of the river, the flow of water, natural arroyo's and natural flow and aerodynamic flow. The park is designed to withstand a 100 year flood with no buildings placed below the 100 year flood line. Wetland areas are situated at the output of three storm water pipes entering the park. Water enters the wetland area and infiltrates into the ground instead.





**INSPIRATIONAL PHOTOS**

**EBBS AND FLOW  
ARROYO**



**CURVILINEAR**

The Mariners' Museum & Park photo: Young Chae Park



**FLOW OF WATER**



**OVERLOOKS**

Torreblanca Park / Estudio Carme Pinós



**MOUNDED  
EARTH**

Rendering for Taylor Yard from the LA River Revitalization Master Plan. Courtesy of the City of Los Angeles.



**TIERED  
"BEACH"**

Mulini Beach / Studio 3LHD Photographs: Joao Morgado



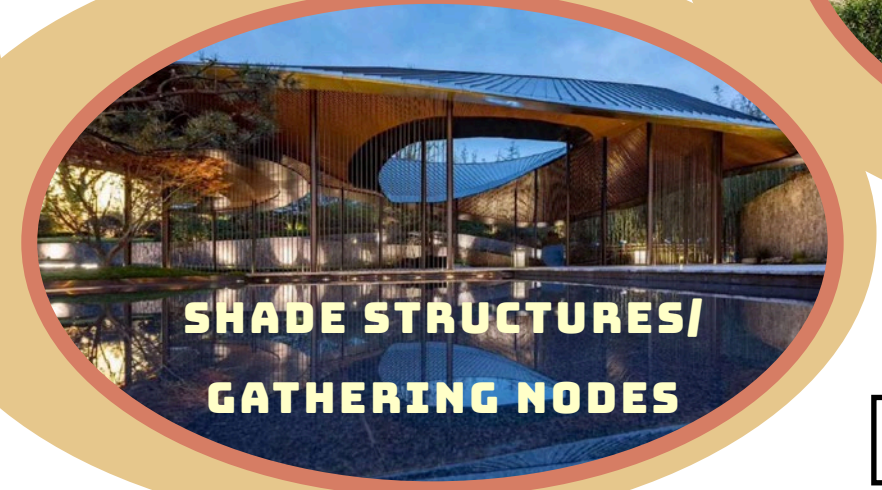
**EDUCATION AND RESEARCH ON ECOLOGY/  
CARBON CAPTURE**

National Ecology Center in Seocheon, South Korea photo: Young Chae Park



**BRIDGE CONNECTIONS  
(AND TIERED PLANTED WALLS)**

Los Angeles River rendering of a bridge at Rio Hondo Park. Image: Perkins + Will.



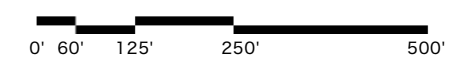
**SHADE STRUCTURES/  
GATHERING NODES**

Longfor Island by WISTO Image: WISTO



**STRONG CONTOUR CHANGES/  
UNDULATING TERRAIN**

Torreblanca Park / Estudio Carme Pinós





# FINAL CONCEPT

# EBBS AND FLOW ARROYO



LEGEND

- |   |   |   |                                      |  |   |
|---|---|---|--------------------------------------|--|---|
| 1 ENTRANCE                                    | 7 GABION SPUR DIKE  | 13 COMMUNITY GARDEN                             | 19 CANTILEVERED OVERLOOK PROMENADE   | 25 TIERS DOWN WITH ADA RAMP FOR PUBLIC ACCESS TO RIVER   | 31 PARKING LOT D                          |
| 2 MAIN ROAD/ EMERGENCY ACCESS ROAD            | 8 DAYLIGHTED STORM DRAIN/ BEGINNING OF RIPARIAN SWALE     | 14 PEDESTRIAN ACCESS BRIDGE TO/FROM NEW HOUSING | 20 PLANTED TIERS ACROSS RIVER        | 26 PARKING LOT C   | 32 RIPARIAN BIOSWALE #3                   |
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0' 60' 125' 250' 500'



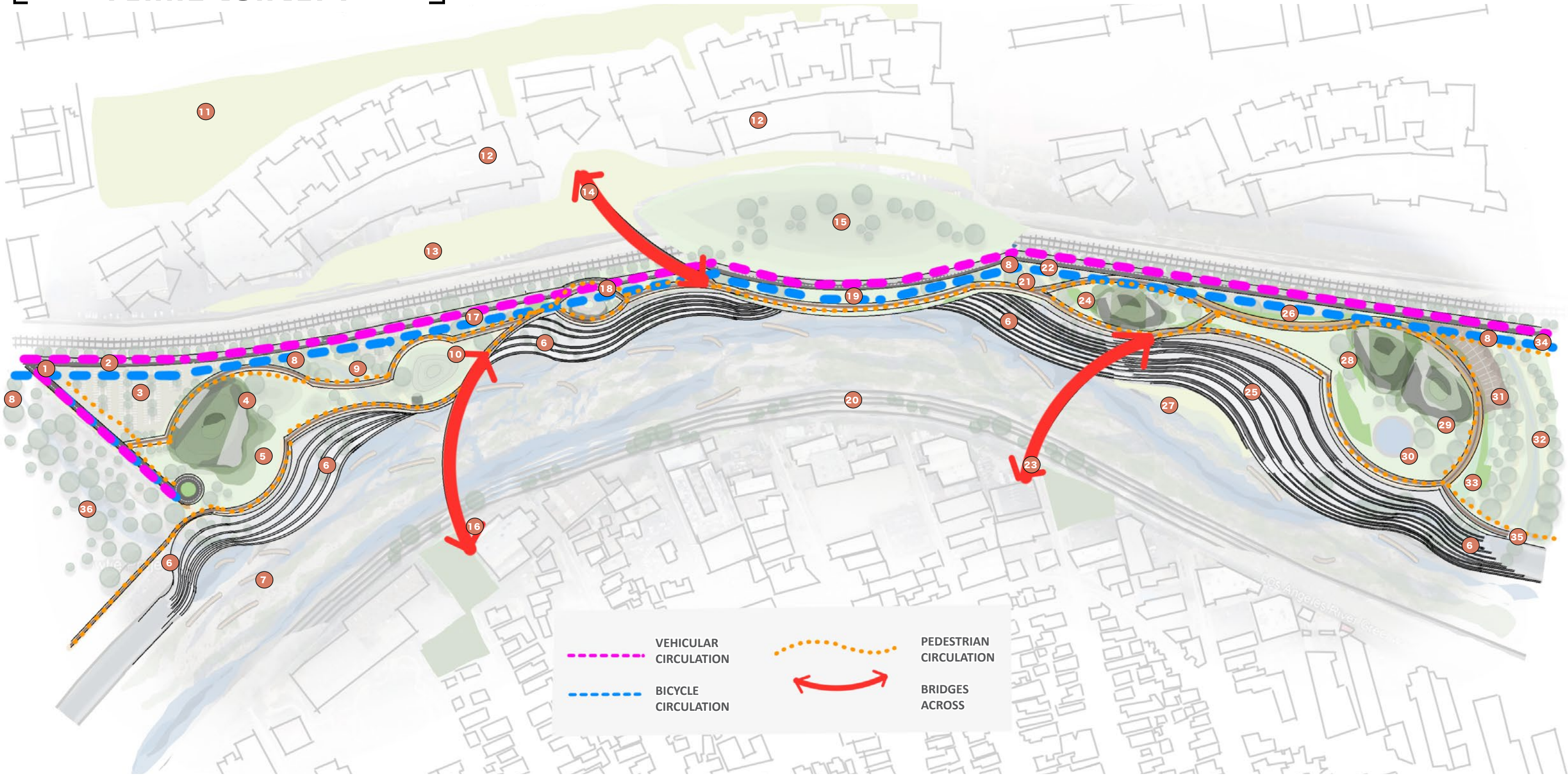
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**THE BOWTIE PARCEL 23**  
TIMOTHY HAYWARD LD6 SUMMER 2021



# FINAL CONCEPT

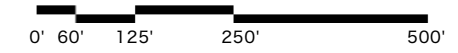
# CIRCULATION



- - - VEHICULAR CIRCULATION  
- - - BICYCLE CIRCULATION  
- - - PEDESTRIAN CIRCULATION  
↔ BRIDGES ACROSS

## LEGEND

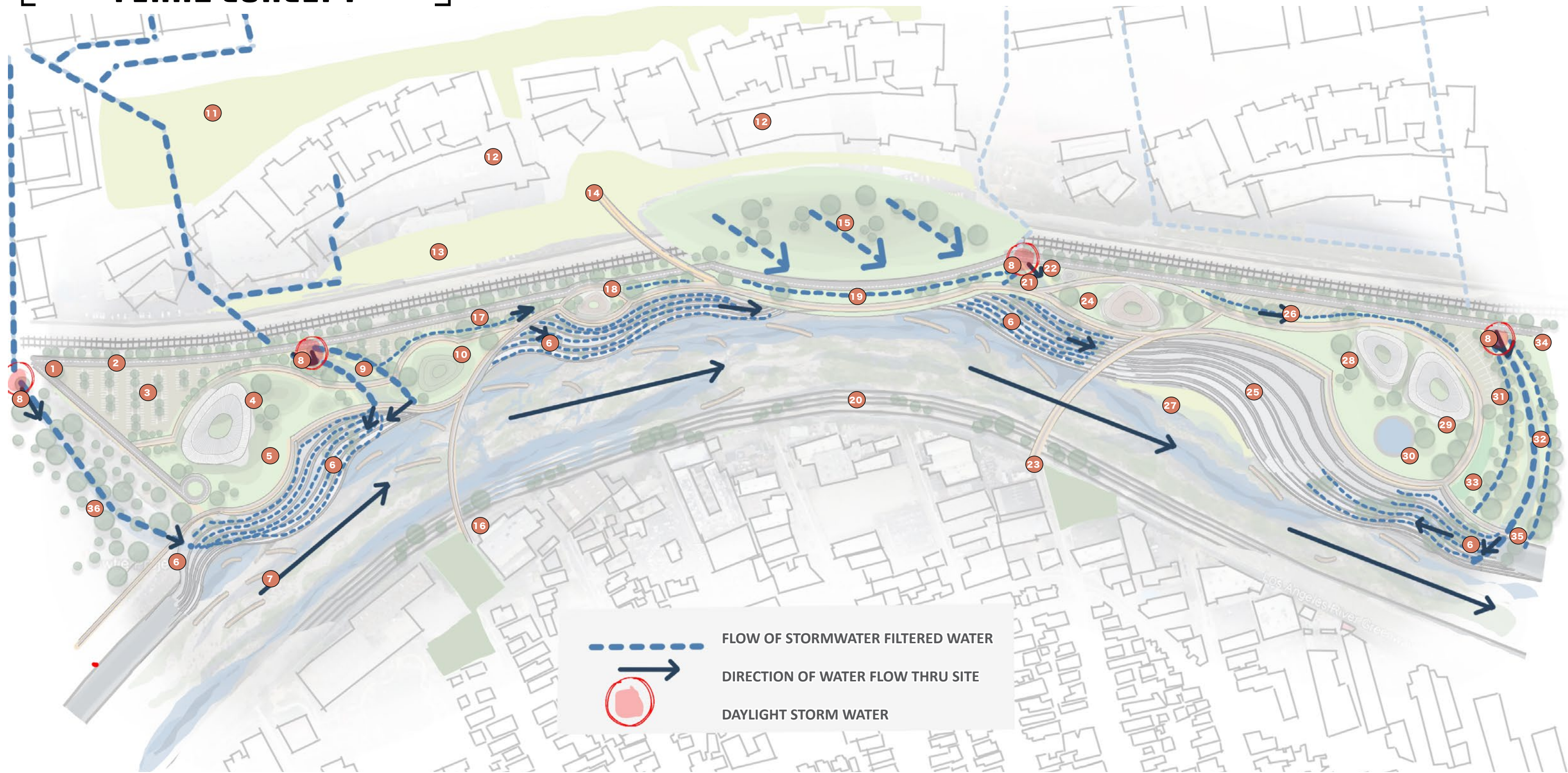
- |   |   |   |                                      |  |   |
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# FINAL CONCEPT

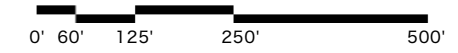
# STORMWATER MANAGEMENT



 FLOW OF STORMWATER FILTERED WATER  
 DIRECTION OF WATER FLOW THRU SITE  
 DAYLIGHT STORM WATER

## LEGEND

- |   |   |   |                                      |  |   |
|---|---|---|--------------------------------------|--|---|
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# FINAL CONCEPT

# FLOOD CONTROL

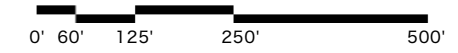


**BAD STORM FLOOD ZONE** \* Main circulation remain intact

**100 YEAR FLOOD ZONE** Lower tiers submerged and blocked in times of severe flood

## LEGEND

- 1 ENTRANCE
- 2 MAIN ROAD/ EMERGENCY ACCESS ROAD
- 3 PARKING LOT A
- 4 WELCOME CENTER/ EVENT SPACE / SENIOR CENTER
- 5 OPEN LAWN/ EVENT SPACE
- 6 PLANTED RIPARIAN.WETLAND TIERS
- 7 GABION SPUR DIKE
- 8 DAYLIGHTED STORM DRAIN/ BEGINNING OF RIPARIAN SWALE
- 9 RIPARIAN BIOSWALE #1
- 10 PLAYGROUND ON THE MOUND
- 11 GREEN BELT/ EXPANDED OPEN SPACE ALONG SAN FERNANDO RD.
- 12 NEW LOW AND MIXED INCOME HOUSING WITH RETAIL COMPONENT
- 13 COMMUNITY GARDEN
- 14 PEDESTRIAN ACCESS BRIDGE TO/FROM NEW HOUSING
- 15 OVERLOOK VIEWING HILL/ TRAIN BERM/ CAP
- 16 PEDESTRIAN BRIDGE TO MARSH PARK
- 17 PARKING LOT B
- 18 CAFE/ BATHROOM/ SHADE STRUCTURE
- 19 CANTILEVERED OVERLOOK PROMENADE
- 20 PLANTED TIERS ACROSS RIVER
- 21 RIPARIAN BIOSWALE #2
- 22 MAINTENANCE BUILDING
- 23 PEDESTRIAN BRIDGE TO GATEWAY PARK
- 24 CAFE/ BATHROOM/ SHADE STRUCTURE
- 25 TIERS DOWN WITH ADA RAMP FOR PUBLIC ACCESS TO RIVER
- 26 PARKING LOT C
- 27 PUBLIC "BEACH"
- 28 HOUSING FOR CARBON CAPTURE PUBLIC EDUCATION CENTER
- 29 CARBON CAPTURE INSTITUTE/ PUBLIC EDUCATION CENTER RECLAIMED WATER FEATURE/ CISTERN UNDERNEATH
- 30
- 31 PARKING LOT D
- 32 RIPARIAN BIOSWALE #3
- 33 DOG PARK
- 34 VEHICLE ACCESS THRU TO G2 PARCEL
- 35 PEDESTRIAN TRAIL CONNECTS TO G2 PARCEL
- 36 RIPARIAN BIOSWALE #4

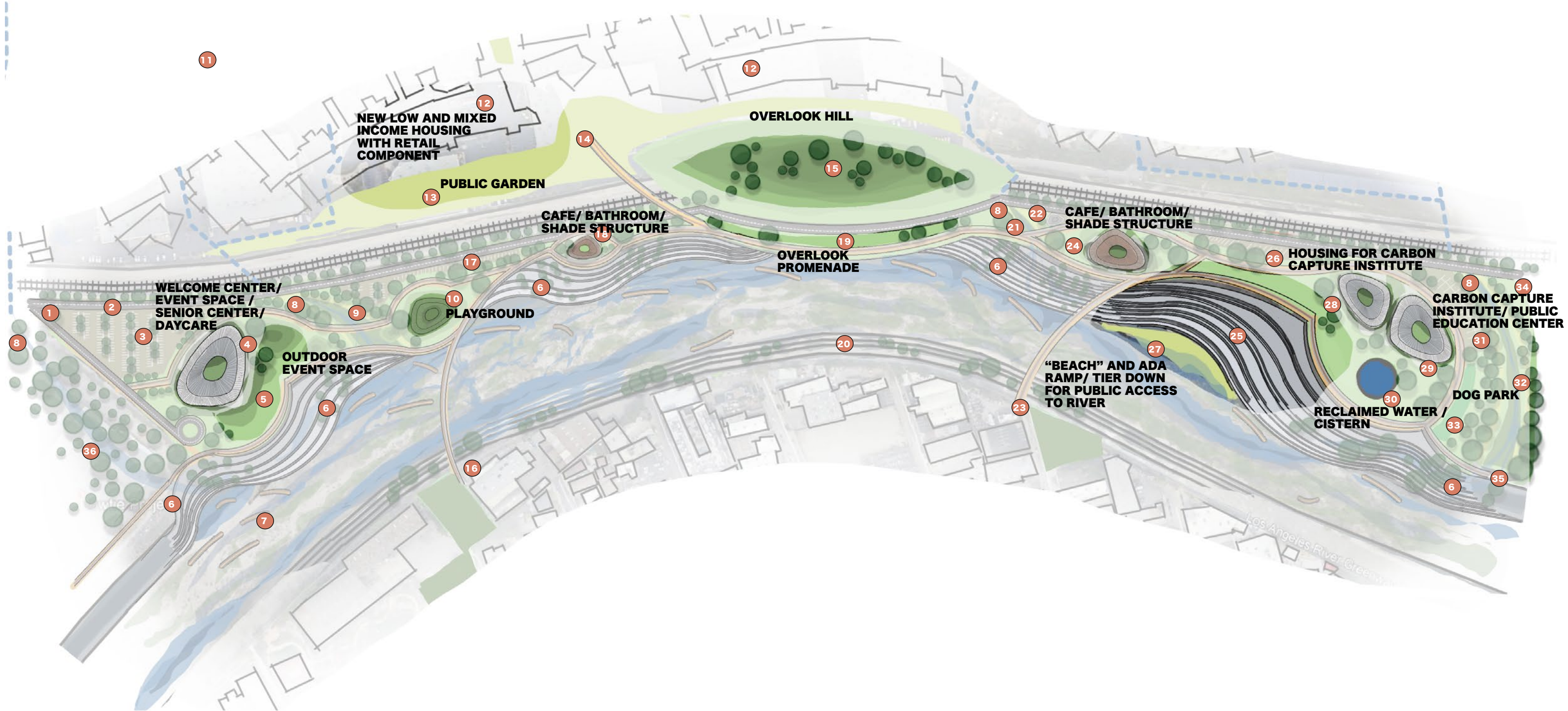


**THE BOWTIE PARCEL 26**  
 TIMOTHY HAYWARD LD6 SUMMER 2021



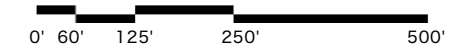
# FINAL CONCEPT

# PROGRAMMING



## LEGEND

- |   |   |   |                                      |  |   |
|---|---|---|--------------------------------------|--|---|
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**THE BOWTIE PARCEL 27**  
 TIMOTHY HAYWARD LD6 SUMMER 2021



# FINAL CONCEPT

# EBBS AND FLOW ARROYO



- |   |   |   |                                      |  |   |
|---|---|---|--------------------------------------|--|---|
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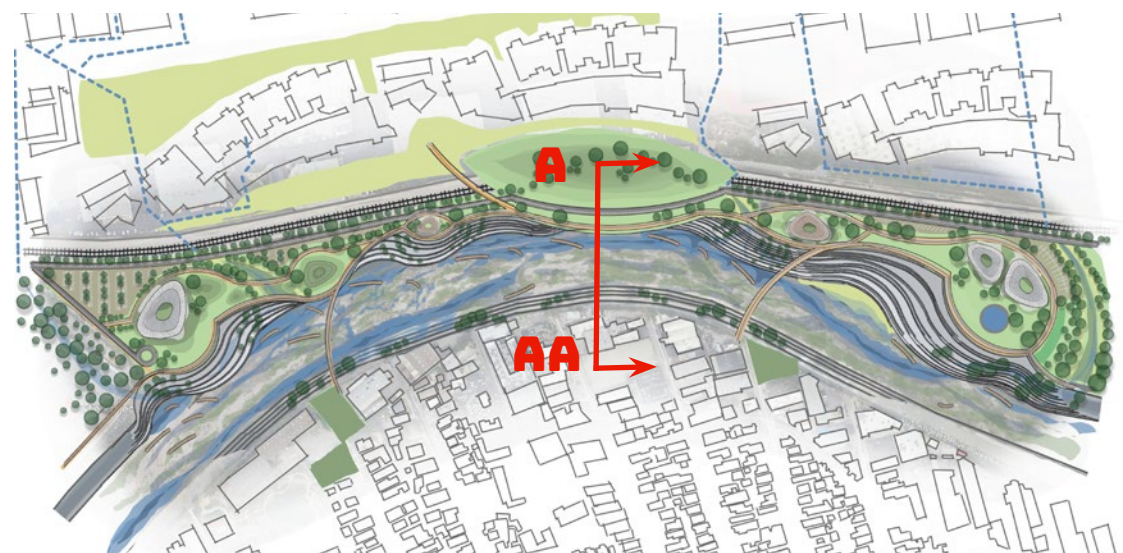
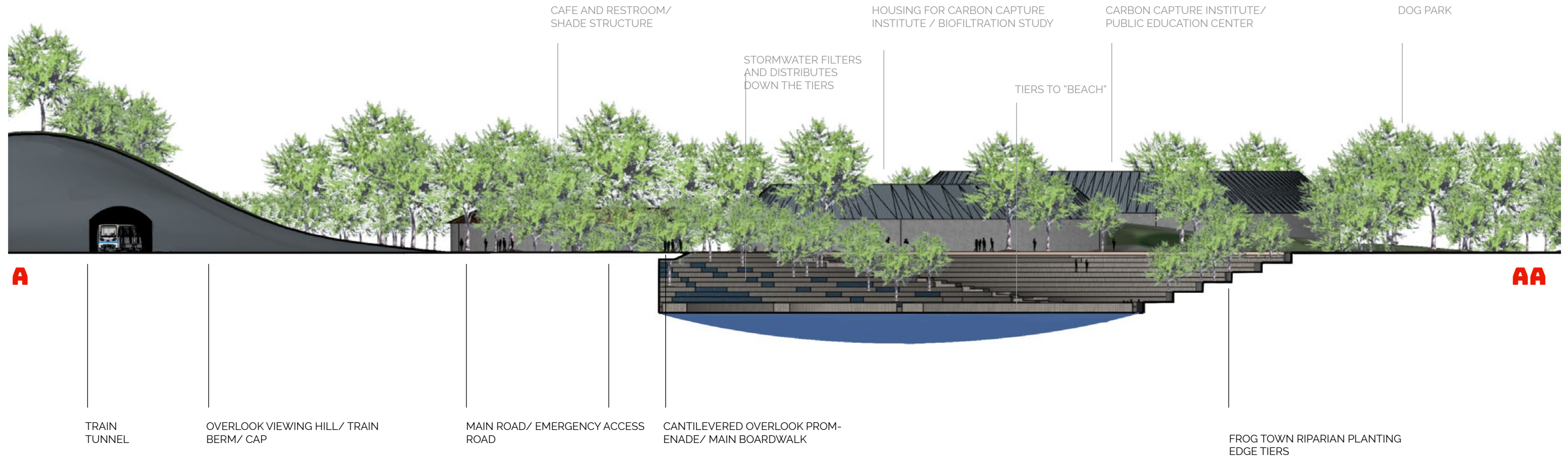
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**THE BOWTIE PARCEL 28**  
TIMOTHY HAYWARD LD6 SUMMER 2021



# SECTION / ELEVATION A

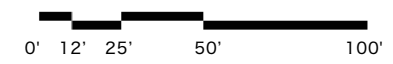
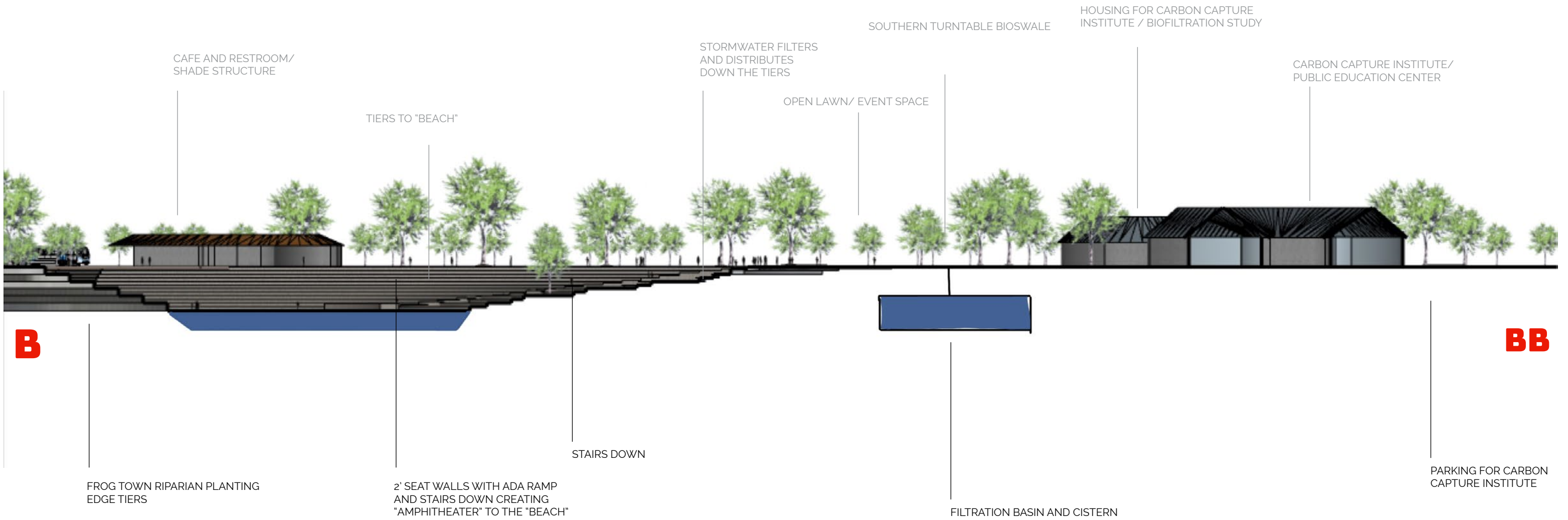
# EBBS AND FLOW ARROYO





# SECTION / ELEVATION B

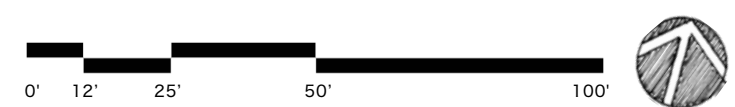
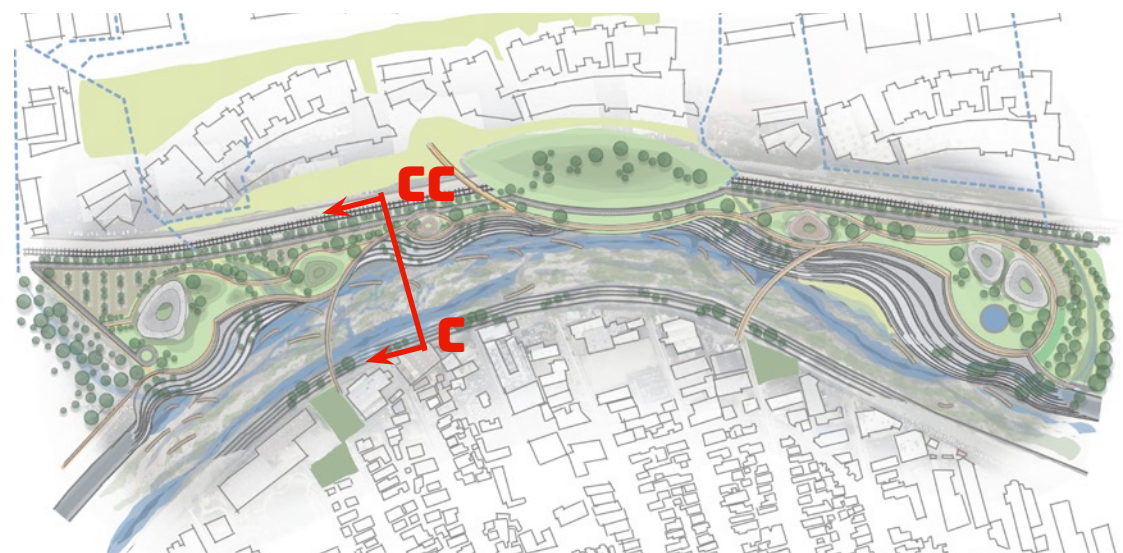
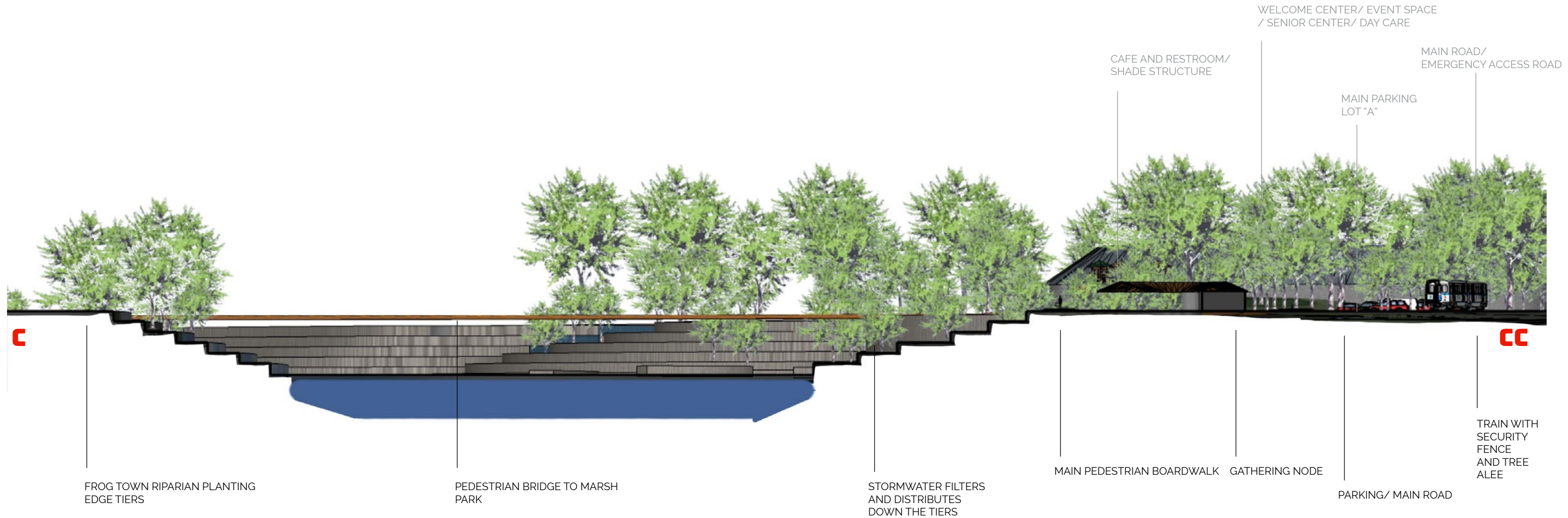
# EBBS AND FLOW ARROYO



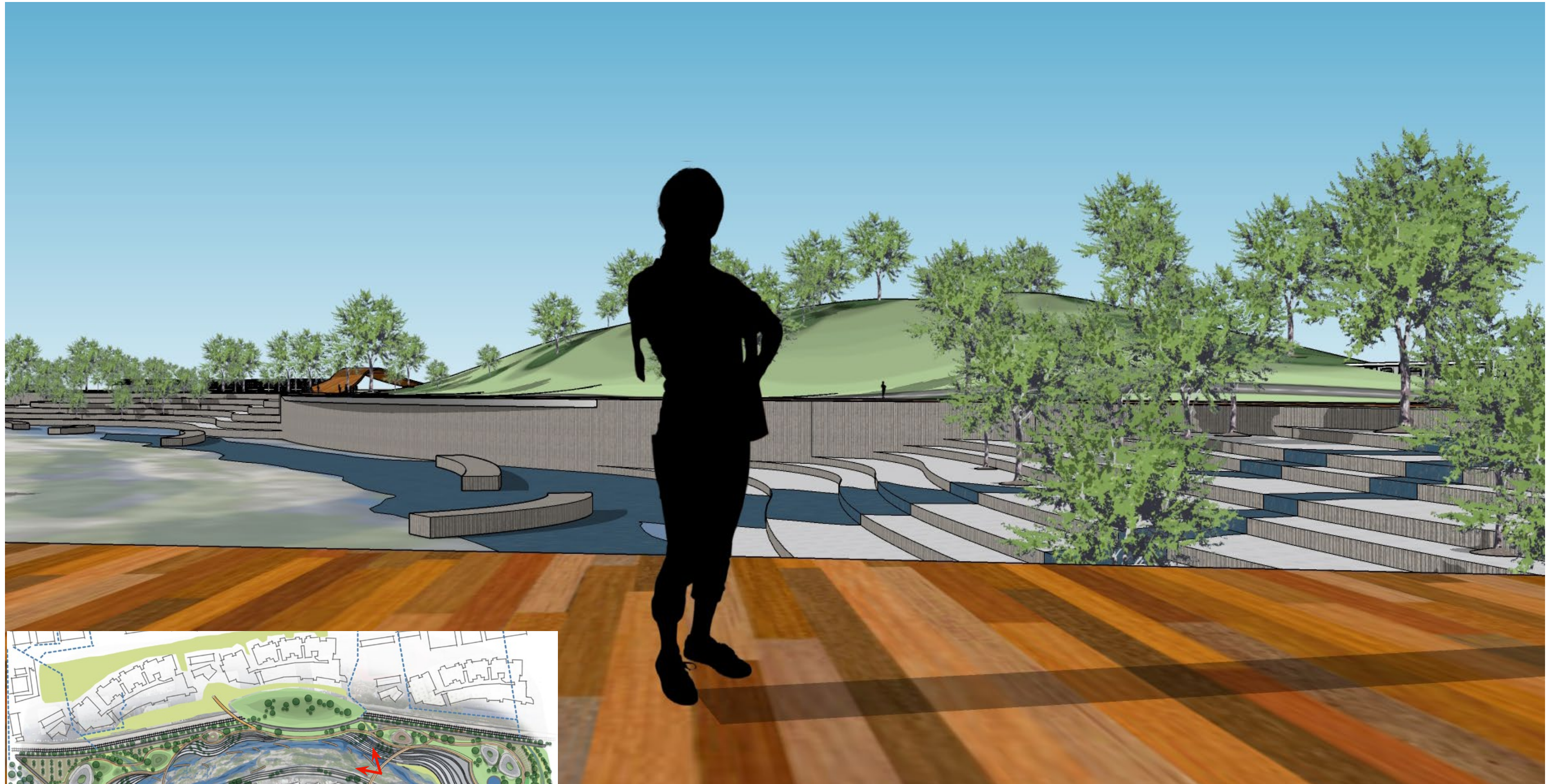


**SECTION /ELEVATION C**

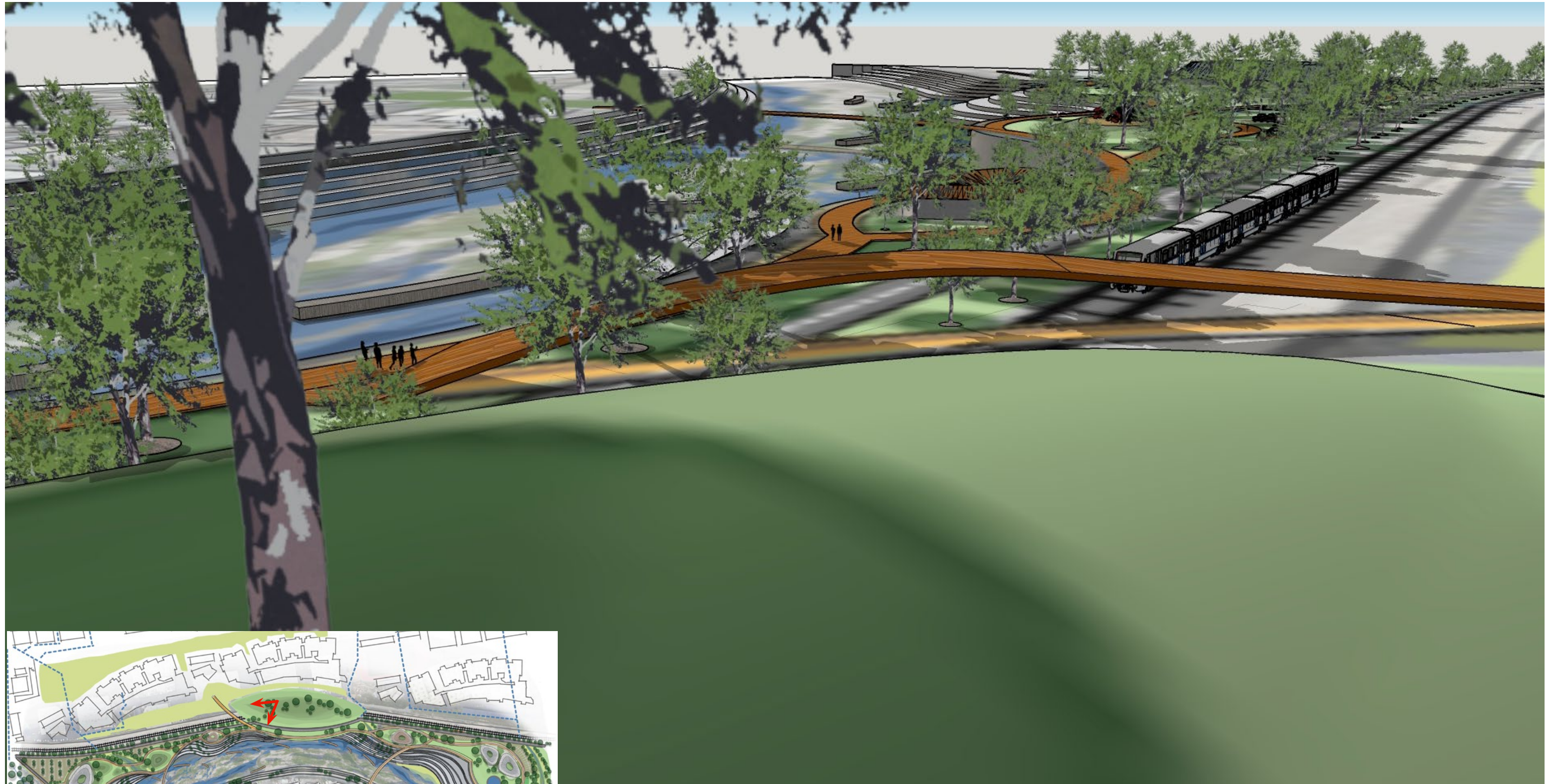
**EBBS AND FLOW ARROYO**







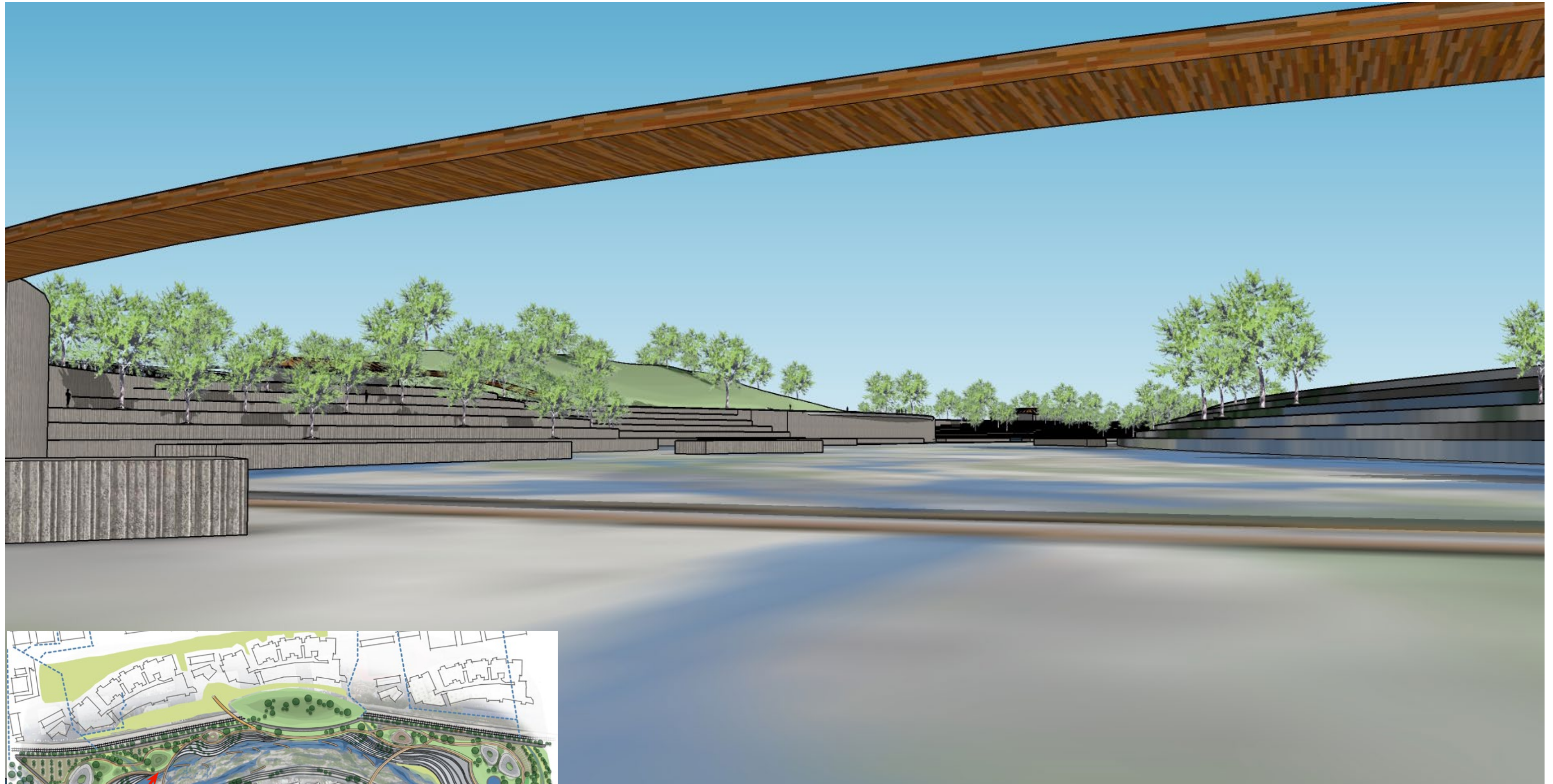








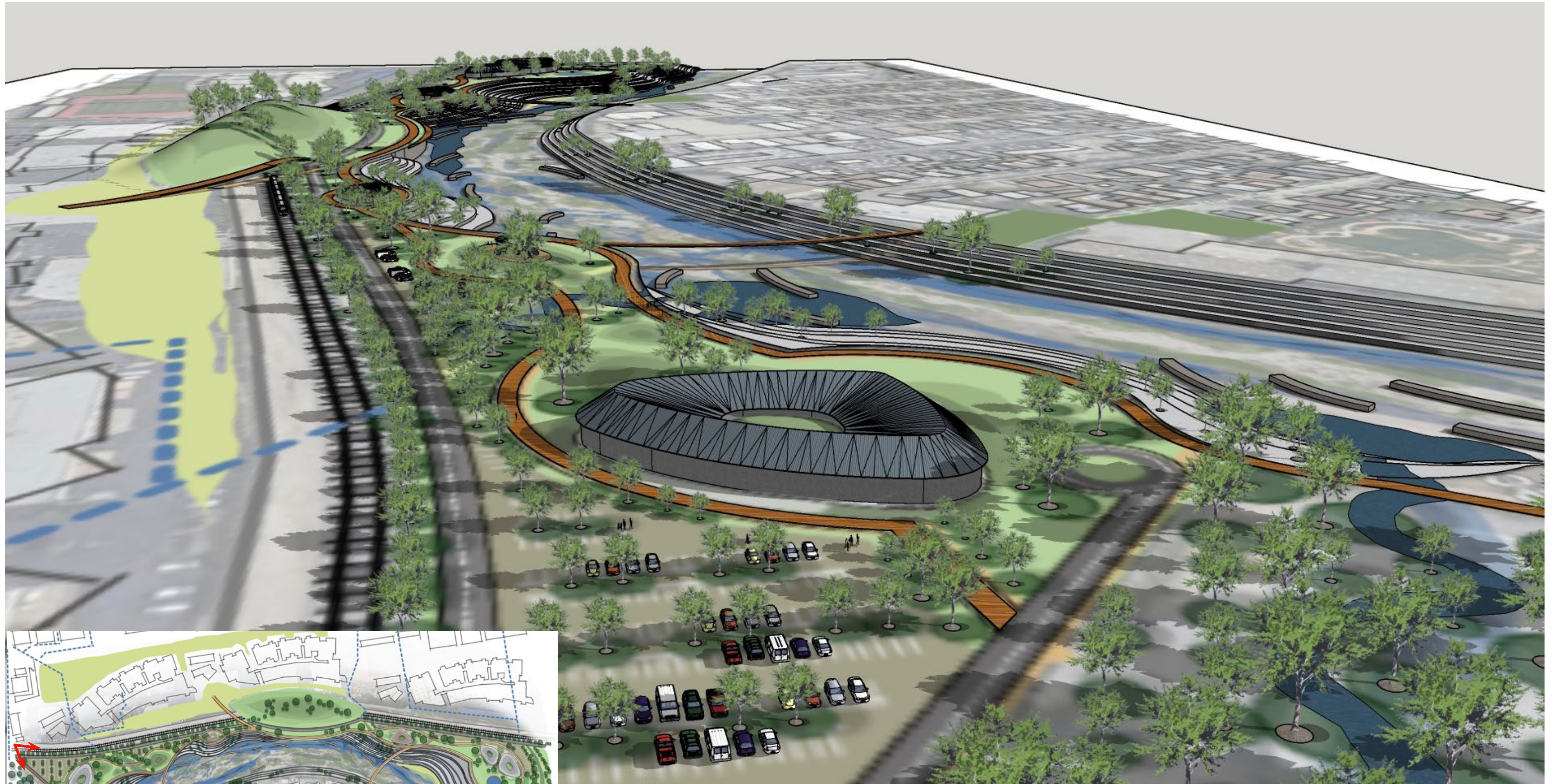






**PERSPECTIVE 5**

**EBBS AND FLOW ARROYO "BIRDS-EYE VIEW 1"**










**WALK THRU VIDEO**

# EBBS AND FLOW ARROYO

<https://youtu.be/kvAqzH2D-Gk>



Play (k)

0:05 / 1:22

TIM HAYWARD BOWTIE PROJECT FINAL WALK THRU

Unlisted

No views • Aug 30, 2021

0 0 SHARE SAVE ...

**T** Timothy Hayward

ANALYTICS EDIT VIDEO

WALK THRU OF TIM HAYWARD'S BOWTIE PROJECT FOR UCLA LANDSCAPE ARCHITECTURE  
LD6

**[HTTPS://WWW.YOUTUBE.COM/  
WATCH?V=KVAQZH2D-GK](https://www.youtube.com/watch?v=kvaqzh2d-gk)**



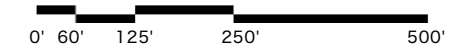
# FINAL CONCEPT

# THANK YOU!



## LEGEND

- |   |   |   |                                      |  |   |
|---|---|---|--------------------------------------|--|---|
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| 2 MAIN ROAD/ EMERGENCY ACCESS ROAD            | 8 DAYLIGHTED STORM DRAIN/ BEGINNING OF RIPARIAN SWALE     | 14 PEDESTRIAN ACCESS BRIDGE TO/FROM NEW HOUSING | 20 PLANTED TIERS ACROSS RIVER        | 26 PARKING LOT C   | 32 RIPARIAN BIOSWALE #3                   |
| 3 PARKING LOT A                               | 9 RIPARIAN BIOSWALE #1                                    | 15 OVERLOOK VIEWING HILL/ TRAIN BERM/ CAP       | 21 RIPARIAN BIOSWALE #2              | 27 PUBLIC "BEACH"  | 33 DOG PARK                               |
| 4 WELCOME CENTER/ EVENT SPACE / SENIOR CENTER | 10 PLAYGROUND ON THE MOUND                                | 16 PEDESTRIAN BRIDGE TO MARSH PARK              | 22 MAINTENANCE BUILDING              | 28 HOUSING FOR CARBON CAPTURE PUBLIC EDUCATION CENTER  | 34 VEHICLE ACCESS THRU TO G2 PARCEL       |
| 5 OPEN LAWN/ EVENT SPACE                      | 11 GREEN BELT/ EXPANDED OPEN SPACE ALONG SAN FERNANDO RD. | 17 PARKING LOT B                                | 23 PEDESTRIAN BRIDGE TO GATEWAY PARK | 29 CARBON CAPTURE INSTITUTE/ PUBLIC EDUCATION CENTER RECLAIMED WATER FEATURE/ CISTERN UNDERNEATH | 35 PEDESTRIAN TRAIL CONNECTS TO G2 PARCEL |
| 6 PLANTED RIPARIAN.WETLAND TIERS              | 12 NEW LOW AND MIXED INCOME HOUSING WITH RETAIL COMPONENT | 18 CAFE/ BATHROOM/ SHADE STRUCTURE              | 24 CAFE/ BATHROOM/ SHADE STRUCTURE   |  | 36 RIPARIAN BIOSWALE #4                   |



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**THE BOWTIE PARCEL 39**  
TIMOTHY HAYWARD LD6 SUMMER 2021