JEFFERSON PARISH DRAINAGE CANAL DESIGN COMPETITION CONCEPT STATEMENT

CONCEPT: TRANSFORMATION

Our concept interprets the transformation that took place over the last 200 years between Lake Avenue and Causeway Boulevard. The design is divided into five districts representing changes that occurred, starting with a fishing village on the East and a commercial hub and bridge on the West. Plantings and sculptural elements are grand gestures and repeated geometries that will be enjoyed by those driving, walking, or biking.

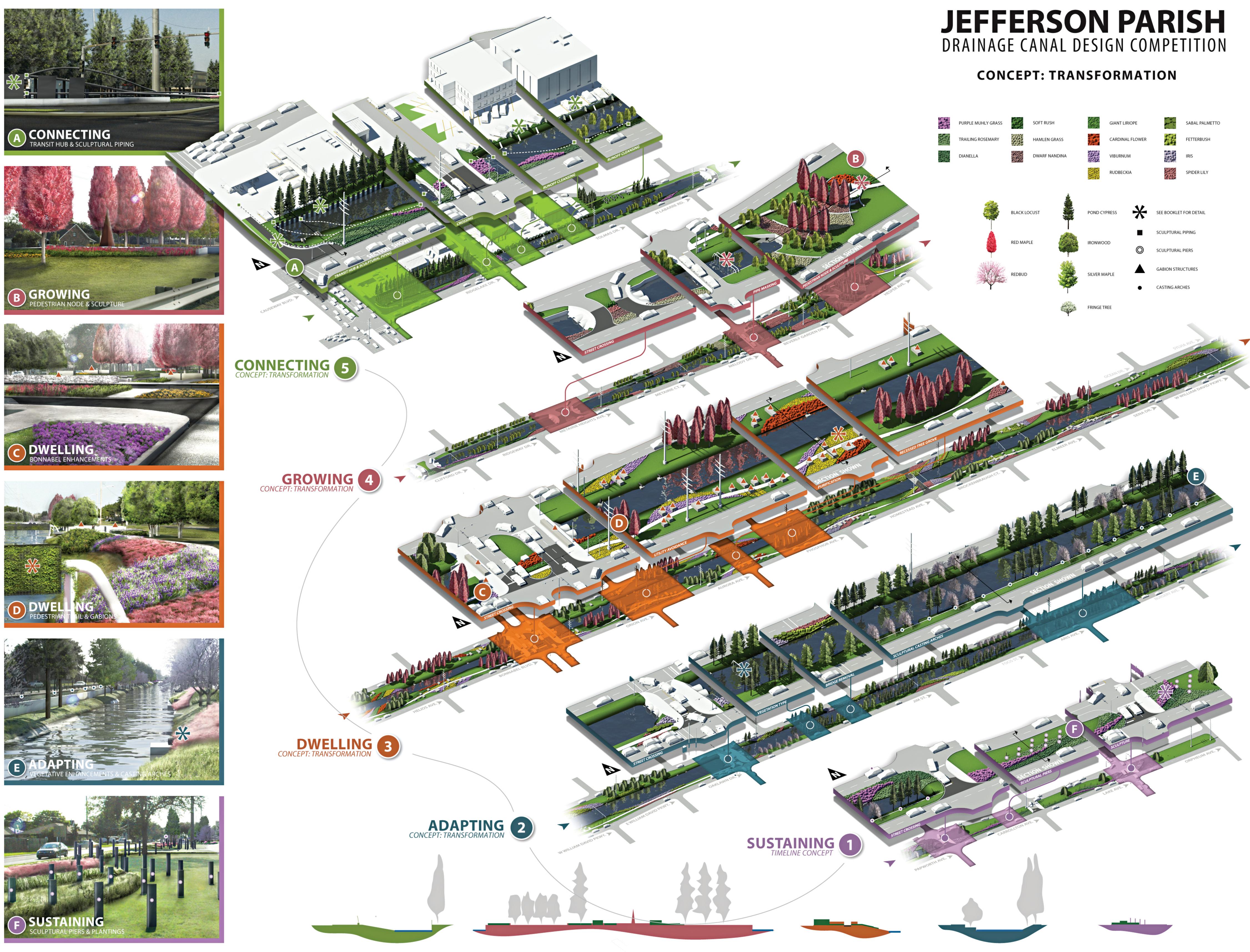
The <u>Sustaining District</u> of celebrates early use of the land and lakefront in Metairie, one that has repeatedly recovered from storms and remains today. The piers and pilings of some of the fishing camps and restaurants left after storms, are represented by the <u>Sculptural Piers</u> organized on a grid through the Sustaining District. Swaths of native and naturalized plants flow through the area along the canal, reflecting tides, while movement of Muhly Grass, Rosemary, and Dianella recall the white caps created by winds.

In the <u>Adapting District</u>, sculptures, called <u>Casting Arches</u>, reflect the form of fishing poles repeated in a line along the lakeshore. Wetland thriving plants, including Cypress and Red Swamp Maple trees, are planted along the canal, recalling the swamp ecosystem that once existed here.

The <u>Dwelling District</u> reflects the development of land through <u>Gabion Structures</u>. The cages recall crab traps and the recycled concrete filling represents development. Gabions are placed in relation to the streets that meet West Esplanade Avenue. A pedestrian and bicycle trail through brings people closer to the canal and links with the informal bike path along Bonnabel Boulevard to the Lake Pontchartrain levee path. Swaths of native and naturalized plantings flow through the area, reflecting the continued influence of water on the area. Sculptural piers continue through this district, unifying the districts.

The <u>Growing District</u> represents the shockwave of growth that expanded westward following construction of lakefront levees. Atop the covered intersection of the Bonnabel Canal and Canal No. 2, our design reflects this in a large gathering space that exhibits a sculpture with concentric rings of plantings. A sporadic, gridded pattern of trees represents the developments, highlighting their rapid growth with clusters along the canal. The pedestrian and bike trail continues through the space. Bands of lower plantings organically weave in and out as natural systems were secondary in this time of expansion.

Within the median in the <u>Connecting District</u>, commercial businesses and paving signify the thriving Central Business District of Metairie. The impervious surfaces create stormwater runoff and pollutants that flow directly into the canal. To mitigate water quality, interstitial spaces are designed to capture and filter the runoff through vegetation before entering the canal. A <u>Sculptural Transit Shelter</u> is designed as an icon and demarcates the beginning of the Concept: Transformation. Metal panels describing the history of the area are designed along the curve of the median by the <u>Sculptural Transit</u> <u>Shelter</u>. In our design, <u>Sculptural Piping</u> weaves vertically through the Connecting District, reflecting the undulating roadbed and bascule of the bridge, which is so vital to connecting the area.

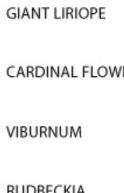


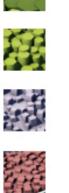


















JEFFERSON PARISH DRAINAGE CANAL DESIGN COMPETITION

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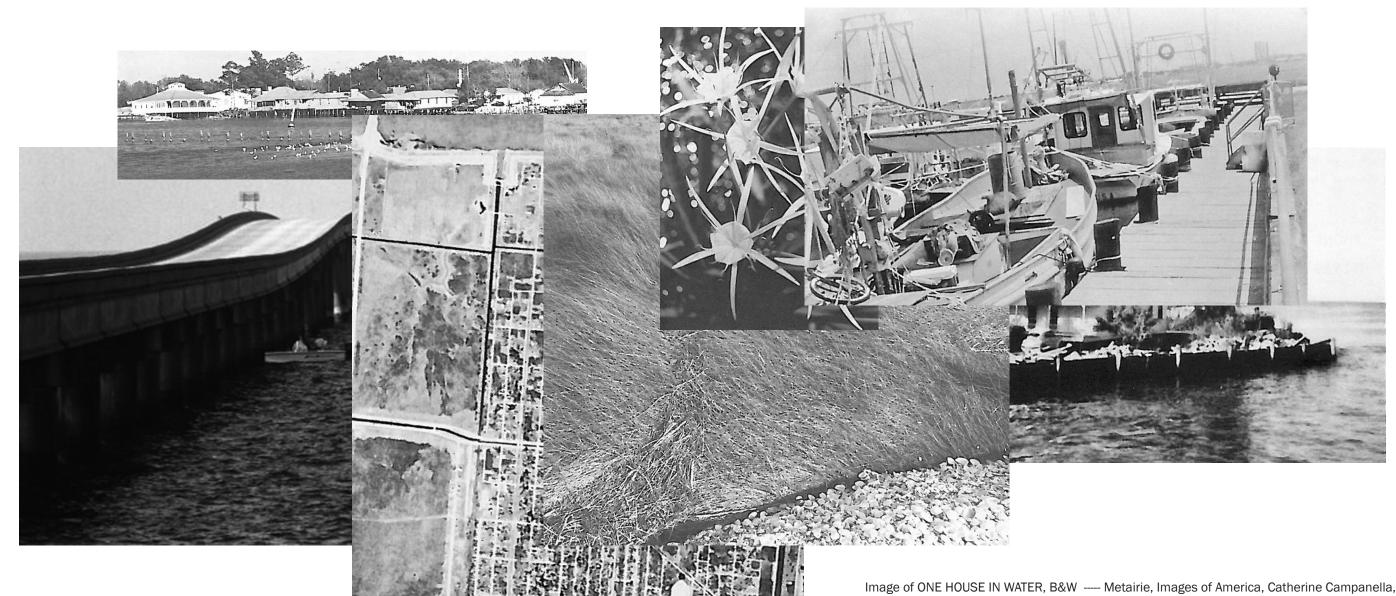
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BUCK TONN

SULPTURAL

Concept: Transformation

The northern part of Metairie was originally marsh and swampland influenced by the brackish estuary that is Lake Pontchartrain. Nevertheless, it has been inhabited for hundreds of years, initially by Native American Indians. French settlers lived off of the land by fishing, crabbing, trapping, and hunting, much like the Native Americans. Use of the area continued to transform when small leased farms were developed, followed by draining and subdividing the land between the Mississippi River and Lake Pontchartrain. Many of the streets north of West Esplanade Avenue are named after Native American Indian tribes, as part of the Indian Ocean subdivision. Construction of lakefront levees in the late 1940s and early 1950s signaled the start of the phenomenal rate of development of Metairie. Bonnabel Place and Homestead subdivisions were developed on the south side of West Esplanade Avenue. The second major project to greatly transform the area was the construction of the Causeway Bridge, linking the Northshore and Southshore of Lake Pontchartrain. This catalyzed commercial development at what has become a major commercial hub in not only Jefferson Parish, but the larger region.

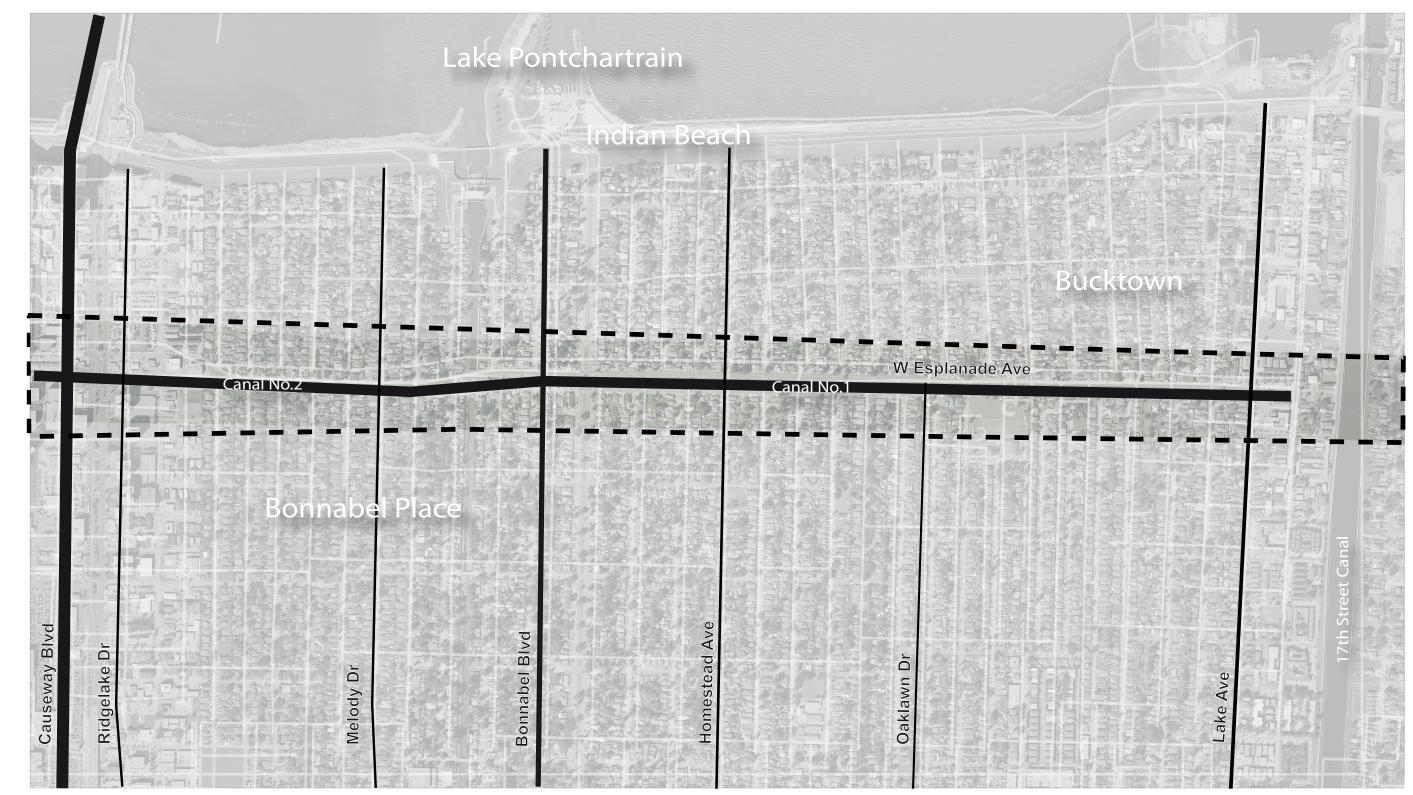


HISTORIC PHOTOS USED FOR CONCEPT INSPIRATION

Arcadia Publishing, 2008 PICTURE of COASTAL FISHING CAMPS along LAKE ----- Historic Jefferson Parish, Betsy Swanson, Pelican Publishing Company, Gretna 1975 PIC OF CSWAY BRIDGE --- http://www.bridgemeister.com/pic.php?pid=1415 AERIAL ---- Metairie, Images of America, Catherine Campanella, Arcadia Publishing, 2008 ALL PICS ----- Historic Jefferson Parish, Betsy Swanson, Pelican Publishing Company, Gretna 1975

KTONN

BUCK TONN SULPTOMA



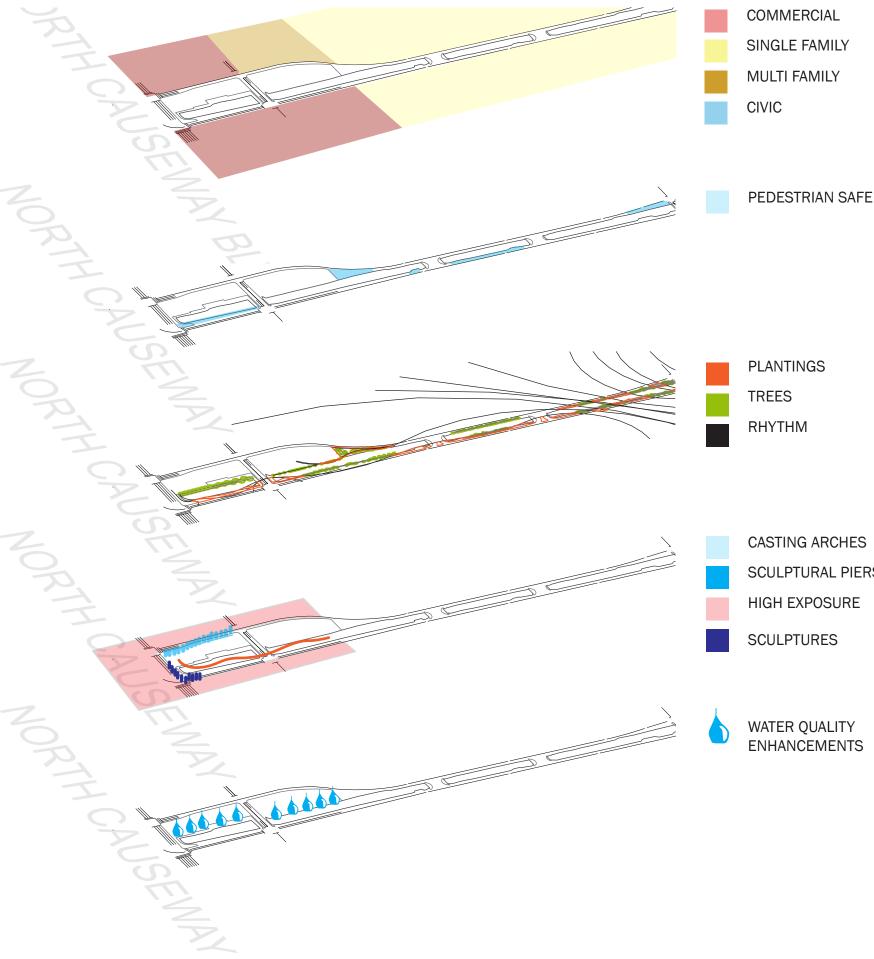
SITE CONTEXT MAP

CK TOWN

Connecting District

The intersection of Causeway Boulevard and West Esplanade Avenue serves as a hub connecting north Metairie's residents on the East, West, and South, and to the highly successful commercial businesses between Veterans Boulevard and the lake. The Causeway Bridge provides a daily regional connection for thousands of people between downtown New Orleans and the Northshore. Bernard Xavier de Marigny de Mandeville, who founded the City of Mandeville in 1834, provided a short-lived ferry service across the lake. Construction of the longest bridge over water in the world began construction in 1955, providing a permanent, efficient link between the southern and northern shores of Lake Pontchartrain.

Within the median alongside the canal in the Connecting District, dense commercial businesses and parking lots signify the thriving Central Business District of Metairie. The large impervious surfaces create stormwater runoff and accompanying pollutants that flow directly into the canal. To mitigate runoff water quality, interstitial spaces are designed to capture and filter the runoff through vegetation before it enters the canal. A Sculptural Transit Shelter is designed as an architectural icon for the hub and demarcates the beginning (or end) of the Concept: Transformation. Metal panels describing the history of this part of Jefferson Parish are designed along the curve of the median by the Sculptural Transit Shelter. In our design, Sculptural Piping weaves vertically through the Connecting District, reflecting the undulating roadbed and bascule of the bridge.



CASTING ARCHES SCULPTURAL PIERS HIGH EXPOSURE









MUHLY GRASS

FRINGE TREE

http://www.bonnabel.org/about.htm --Bonnabel Panel http://www.southeastroads.com/lpc.html - Causeway Bridge Historic Jefferson Parish, Betsy Swanson, Pelican Publishing Company, Gretna 1975 -- Bucktown_metairieville http://pontchartrain.net/templates/System/details.asp?id=40334&PID=491307 Historic Jefferson Parish, Betsy Swanson, Pelican Publishing Company, Gretna 1975 -----Railroads

BLACK LOCUST

HISTORY PANELS TO BE ETCHED INTO THE STEEL CONCRETE SEATING WALL HISTORY PANEL Residential Development in Metairie In 1825, Henri Bonnabel, a wealthy chemist from Paris, came to New Orleans and opened a successful pharmacy. In 1836, Henri purchased land from Hypolite deCourval, stretching from the Mississippi River to Lake Pontchartrain, in Jefferson Parish. He collaborated with a French enginee Ħ to layout a town near Metairie Ridge and named the town Bath #1, which present day is known as Bonnabel Place subdivision STATALE FELT n 1914 Henri's son Alfred began to subdivide the areas. These areas became to be known as Bonnabel Place and Old Homestead, the first residential areas of Metairie. One of four of Alfred's children also named Alfred, was hired to officially survey the land for Jefferson Parish. The street 161 names Phosphor, Aurora, Orion, Helios, Hesper, Homer, Hesoid, Socrates, Demosthenes, Pomona, Nero, Claudius, and Caesar (present day West Esplanade) were all named by Alfred

Bonnabel's wife, Luella. The origin of

came from her love of mythology, history and

the street names

iterature

HISTORY PANEL

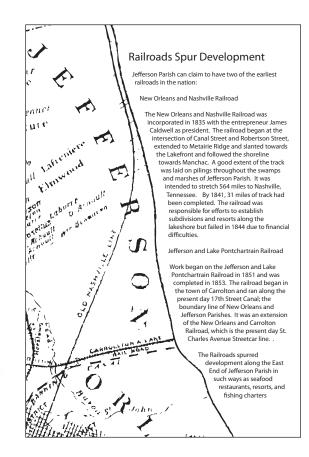
And the version of the second second

he Northeastern portion became known as Bucktown. Fishing camps built o In the lakeshore and 17th street canal. People made their living from fishi nting trapping, and boat rentals. Resorts and restaurants took advantation and shipping along the east end as well.

> osedly, Bucktown was named after a gentleman by the nam fooley. He operated a boat rental business and was known a storyteller. People began to call the area 'Buck's Town'. Buc an early home to New Orleans Jazz, with such perfor Bucktown Five Band and Jelly Roll Morton. The patr Bucktown was mainly done by the Bruning famil owned a local restaurant. The family took i own behalf to guickly stop fights troublemakers. Because of the efforts, particularly Capitan Jo Bruning, Bucktown became place to be. Johnny C. Brur name officially changed to E move away from the rough Bucktown, but the area is st as the latter.

lasted until 1936

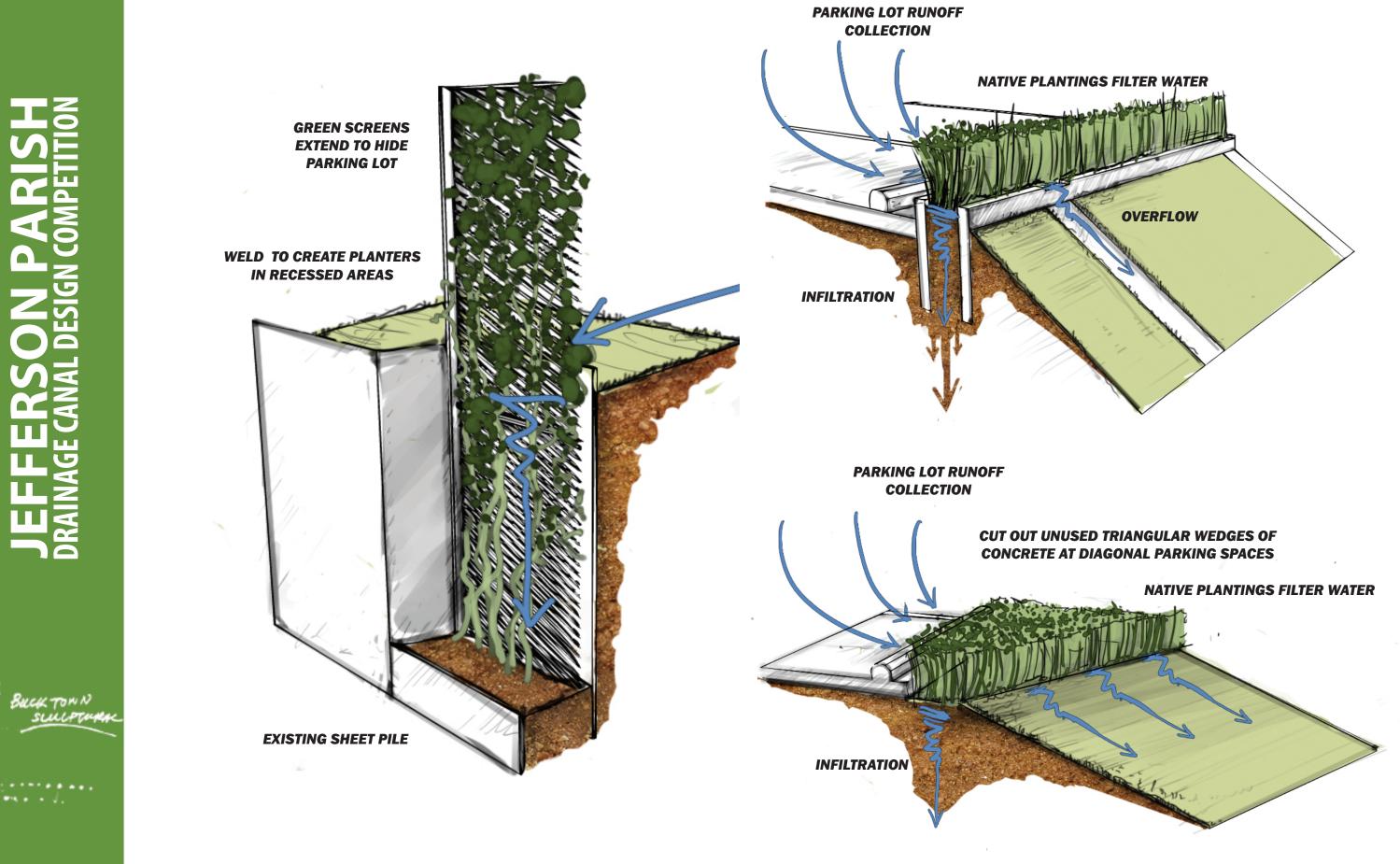
HISTORY PANEL



HISTORY PANEL

HISTORY PANEL

The Swamps and Marshes Before 1900, the areas of Bucktown and Bonnabel Place were marshes and cypress-tupelo swamps. Marshes have popularly been considered wastelands; however Louisiana's marshes have been called the richest land on earth. Causeway Bridge One of the earliest thoughts of crossing Lake Pontchartrain way by Bernard Xavier de Marigny de Mandeville. He founded the City of Mandeville in 1834 and began a ferry service across the lake, which In consideration of all the economic benefits society derives, directly and indirectly from tidal marshes of the Gulf and South Atlantic coast, the total life support value in terms of "work of nature" as a function of primary production is 82,000 dollars per acre. The immigration growth and demand for a shorter route from Mandeville to New Orleans led to the buildings of the Causeway Bridge. The first pilings were laid on May 23rd, 1955. At a cost of 29 million dollars the The productivity of the marshlands depends on a balance of salinity and freshwater, which is disturbed daily 23.83 mile long bridge opened August 30, 1956 and was the longest bridge in the vorld over water. By the 1960 over the my human intrusion. Our marshes are among the most endangered ecosystems in the world. oridge was weathering 3,000 v per day. The bridge was get the rwhelmed and needed vriginal. Present day the Ŵ **_{*} ¥ y and by 2018 the bridge ched. The design of a third span is vay to meet the needs of the daily traffic









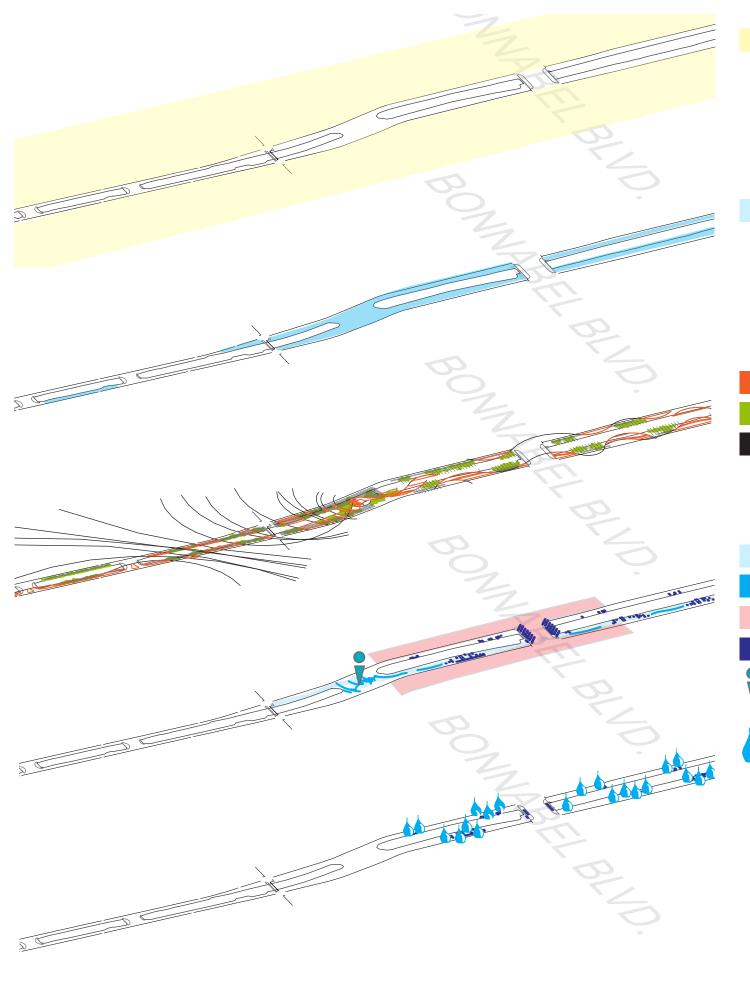
TRANSIT SHELTER WITH INFORMATIVE HISTORY PANELS & SCULPTURAL PIPING

FERSON PARISH AGE CANAL DESIGN COMPETITION

Growing District

Following the 1947 hurricane that flooded most of Metairie, hurricane protection levees were constructed along the Lake Pontchartrain shoreline. The resulting perceived safety proved to be a catalyst for rapid growth and development. The Growing District represents the shockwave of growth that expanded westward along the lakefront. Atop the covered intersection of the Bonnabel Canal and Canal No. 2, our design reflects this phenomenon in a large gathering space that exhibits a sculpture with concentric rings of plantings. A sporadic, gridded pattern of trees represents the subdivision developments, highlighting their rapid growth with clusters along the canal. The pedestrian and bike trail continues through the space. Bands of lower plantings organically weave in and out as natural systems were secondary in this time of expansion.

WAMP PLANTINGS, CLAS TALL TAGES



SINGLE FAMILY

PEDESTRIAN SAFE

PLANTINGS TREES RHYTHM

CASTING ARCHES SCULPTURAL PIERS HIGH EXPOSURE GABIONS SCULPTURES

WATER QUALITY ENHANCEMENTS

SSON PARIS NAL DESIGN COMPETIT **H**ad

WAMP PLANTINGS, CORS TOUL TREES





RED MAPLE



SOFT RUSH



DWARF NANDINA



BLACK LOCUST



TRAILING ROSEMARY









PEDESTRIAN NODE & SCULPTURE

JEFFERSON PARISH DRAINAGE CANAL DESIGN COMPETITION

SPOND-STREETS OF SIGN

RIAN SHALE

Dwelling District

Henri Bonnabel, a wealthy chemist from Paris, opened a pharmacy in New Orleans. In 1836, he purchased land from Hypolite deCourval stretching from the Mississippi River to Lake Pontchartrain in Jefferson Parish and laid out a town called Bath #1. In 1914, his son, Alfred, began to subdivide the land into what is now known as Bonnabel Place and Old Homestead, the first residential areas of Metairie. The Dwelling District reflects these events through Gabion Structures. The cages of the Gabion Structures recall crab traps and the recycled concrete filling represents development. Gabions are placed in relation to the streets that cross or meet West Esplanade Avenue and the drainage canal. A pedestrian and bicycle trail through the Dwelling District brings people closer to the canal and links with the informal bike path that many take along Bonnabel Boulevard to Lake Pontchartrain to enjoy the levee path there. Swaths of native and naturalized plantings flow through the area, reflecting the continued influence of the lake and water on the area. Sculptural piers continue through this district, providing a unifying element throughout the districts.



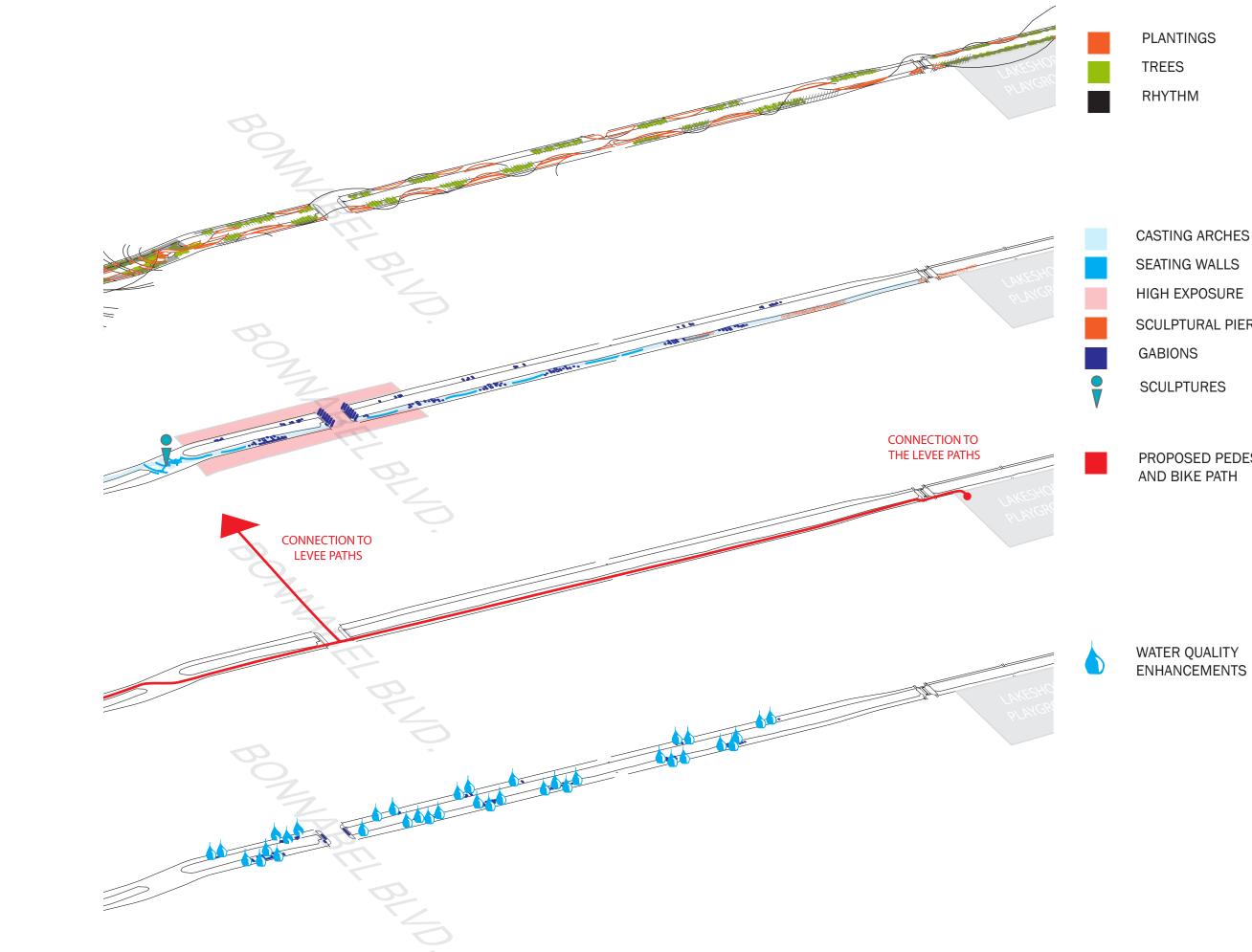






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SEATING WALLS HIGH EXPOSURE SCULPTURAL PIERS

PROPOSED PEDESTRIAN AND BIKE PATH

WATER QUALITY ENHANCEMENTS

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SPOND-STREETS OF SIGN

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RED MAPLE



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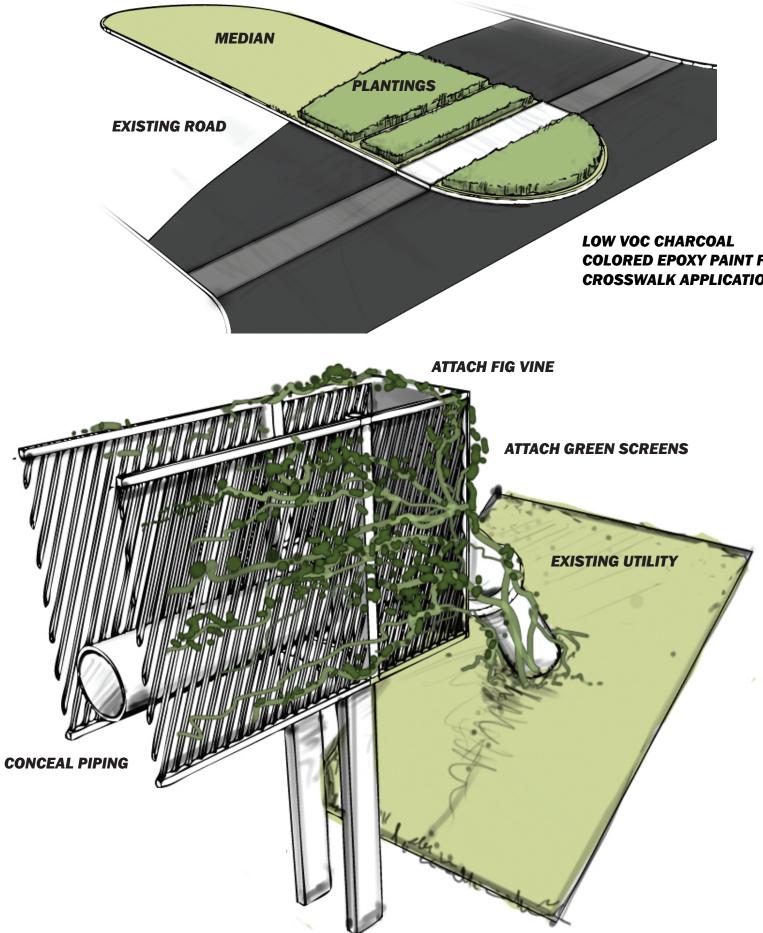
BLACK LOCUST



CARDINAL FLOWER



VIBURNUM



COLORED EPOXY PAINT FOR CROSSWALK APPLICATIONS



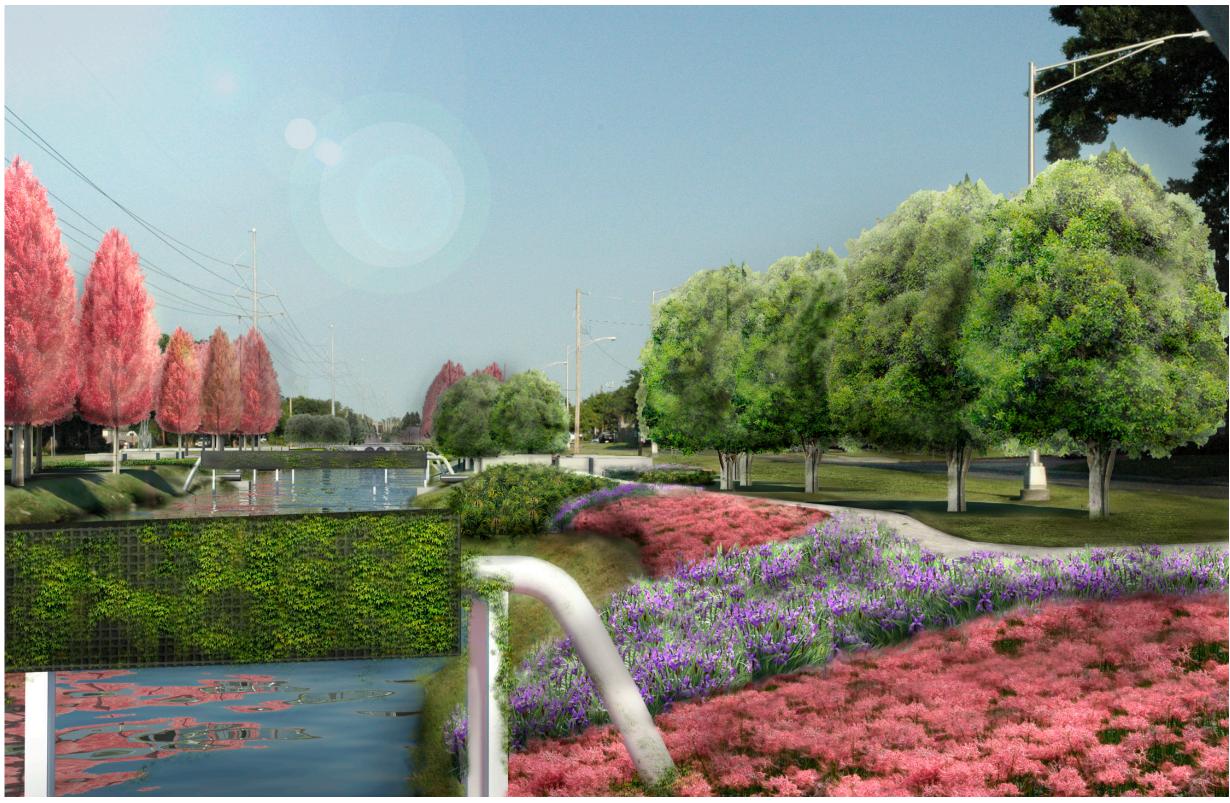
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PEDESTRIAN ENHANCEMENTS AT BONNABEL BLVD.



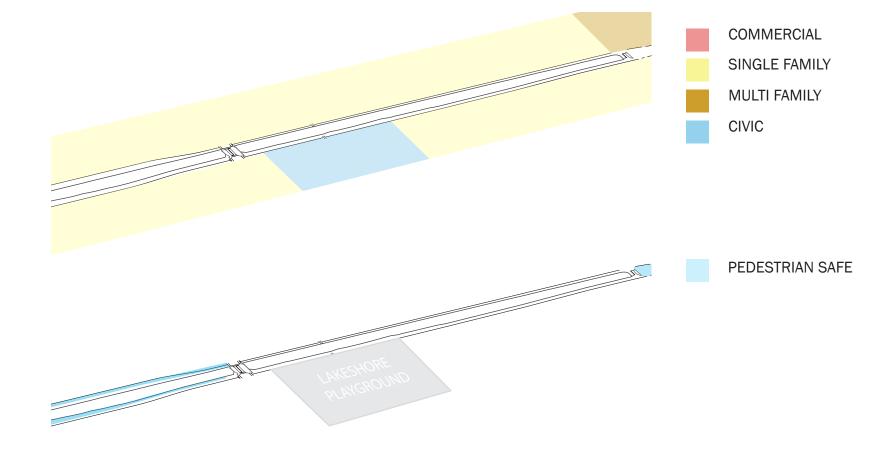
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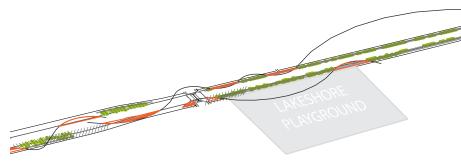


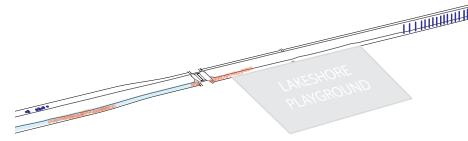
PEDESTRIAN TRAIL WITH GABIONS & GREEN SCREENS

Adapting District

Before 1900, the areas of Bucktown and Bonnabel Place were marshes and Cypress-Tupelo swamps, the most ecologically productive land on Earth. Settlers fished, trapped, and hunted in the marshes and swamps, adapting their lifestyle to the landscape. Later, the swamp was drained and developed into small leased farms, known in French as "Metairie." The area was later subdivided, thus adapting to meet the needs of the people. In our design, sculptures, called Casting Arches, reflect the form of fishing poles repeated in a line along the lakeshore. Wetland thriving plants, including Cypress and Red Swamp Maple trees, are planted along the canal, recalling the swamp ecosystem that once existed here.







JEFFERSON PARISH DRAINAGE CANAL DESIGN COMPETITION

NEOHUM NEARHY(9') VE GREEN SCREEN (NETS? NEAGHT OF FLOODS - PA SALTURE





CASTING ARCHES SCULPTURAL PIERS HIGH EXPOSURE



MEDIUM REALHT(9') VEI GREEN SCREEN /MATE? BELGHT OF FLOORS - PAR FUTURES



POND CYPRESS

SILVER MAPLE

FETTERBUSH

SPIDER LILY

REDBUD



SABAL PALMETTO

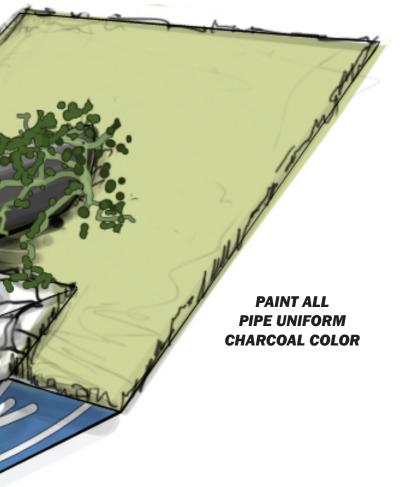


IRIS

ATTACH FIG VINE

CUT PIPE TO EQUAL LENGTHS

GABIONS TO AERATE THE WATER & COLLECT SEDIMENT





MEDIUM NEALINI(9') VEI GREEN SCREEN (NETS? BEIGHT OF FLOORS - PAR FATURES



NATIVE PLANTING ENHANCEMENTS & CASTING ARCHES

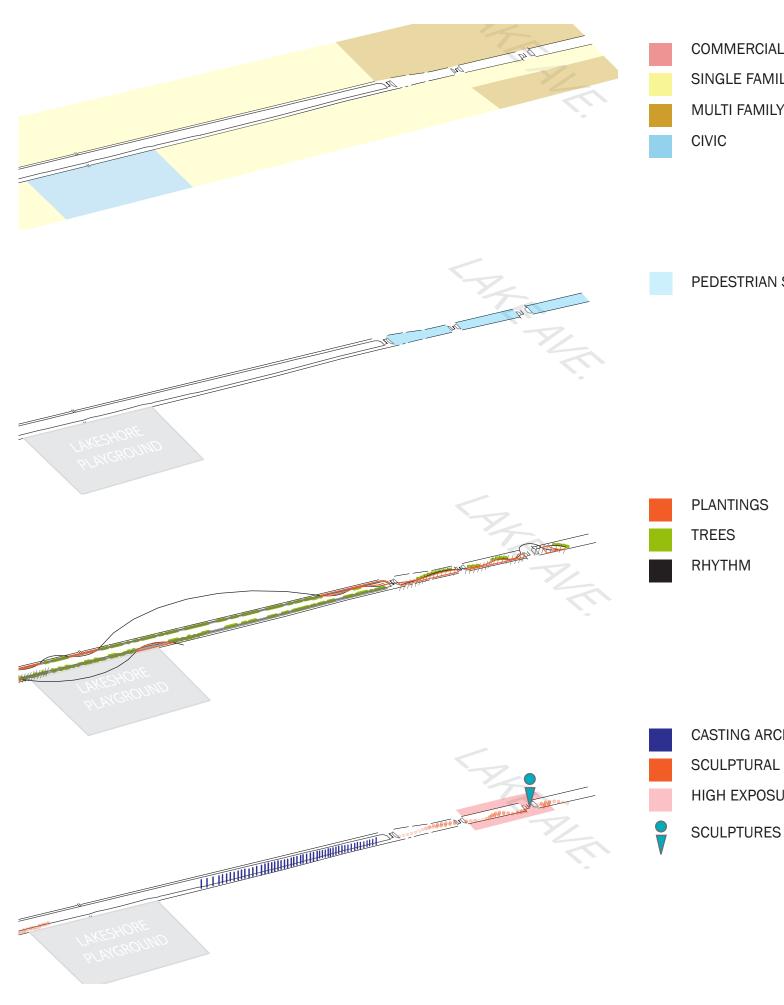
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BULLY SCULTURE

ELEMINTS

Sustaining District

The northeastern part of Metairie became known as Bucktown, and later as East End, or West End to New Orleaneans. Fishing camps built on piers lined the lakeshore and 17th Street canal. People sustained themselves by fishing, crabbing, hunting, trapping, and renting boats. The Sustaining District of our design concept celebrates this very early use of the land and lakefront in Metairie, one that has recovered from storms and flooding repeatedly and remains today. Only the piers and pilings of some of the fishing camps and restaurants, such as Bruning's, have been left after major storms, and are represented by the Sculptural Piers organized on a grid through the Sustaining District. Swaths of native and naturalized plants appear to flow through the area along the canal, reflecting tidal movement of the lake water, while movement of Muhly Grass, Rosemary, and Dianella recall the white caps on the lake created by winds.



COMMERCIAL SINGLE FAMILY MULTI FAMILY

PEDESTRIAN SAFE

PLANTINGS RHYTHM

CASTING ARCHES SCULPTURAL PIERS **HIGH EXPOSURE**

JEFFERSON PARISH ORAINAGE CANAL DESIGN COMPETITION





FRINGE TREE



DIANELLA



MUHLY GRASS



BLACK LOCUST



TRAILING ROSEMARY



RHYTHMICAL PLANTINGS & SCULPTURAL PIERS

(ANCHOR-) FOULHD SCULTURED ELEMENTS.

Jefferson Davis Drainage Plant List

Sabal Palmetto-3-6' ht x 6' spread, full sun, evergreen, native, slow growing Muhly Grass-3' ht x 3' spread, full sun, deciduous, Trailing Rosemary-20" ht x 2' spread, full sun, drought tolerant, non-native Pond Cypress- 50-60' ht x 25-30' spread, full sun, drought tolerant, native, deciduous Crinum Lily- 2-5' ht x 2-5' spread, full sun, native, hardy perennial Iris- 16-36"ht x 14-24" spread, full sun, native, blooming Dianella- 18" ht x 18" spread, full sun, non-native Fetterbush- 3-5' ht, evergreen, full sun, native Verbena- 8" ht x 10-12" spread, perennial, native, full sun Giant Liriope-18" ht x 18" spread, dark green, full sun, fast growing, evergreen, non-native Rudbeckia- 1¹/₂ to 3' x 18" spread, full sun, perennial, native, blooming Black Locust- 30-80' ht x 30' spread, full sun, deciduous, native Swamp Red Maple- 40-50' ht x 30-35' spread, full sun, deciduous, blooming, Fringe Tree-20-25' ht x 12-15' spread, full sun, blooming, native Ironwood- 40' ht x 25' spread, full sun, native Silver Maple- 20-30' ht x 20' spread, full sun, deciduous, native Redbud- 25-30' ht x 15-20' spread, full sun, native, deciduous, blooming

Jefferson Parish Drainage Canal Opinion of Probable Costs for Budgetary Purposes

Trees and Beds						
Item	Quantity	Unit		Unit Cost		Item Budget
Black Locust	160	EA	\$	300.00	\$	48,000.00
Fringe Tree	50	EA	\$	250.00	\$	12,500.00
Ironwood	80	EA	\$	300.00	\$	24,000.00
Pond Cypress	120	EA	\$	300.00	\$	36,000.00
Red Maple	140	EA	\$	300.00	\$	42,000.00
Silver Maple	30	EA	\$	300.00	\$	9,000.00
Redbud	35	EA	\$	250.00	\$	8,750.00
Planting Beds	100,000	SF	\$	6.00	\$	600,000.00
			Tota	1	\$	780,250.00

Concrete Work						
Item	Quantity	Unit		Unit Cost		ltem Budget
Seating Walls Along Path	1,200	LF	\$	50.00	\$	60,000.00
Off-Path Seating Walls	700	LF	\$	50.00	\$	35,000.00
Trail	4,000	LF	\$	32.00	\$	128,000.00
Planter Curbs	13,000	LF	\$	7.50	\$	97,500.00
			Tota		\$	320,500,00

Miscellaneous						
Item	Quantity	Unit		Unit Cost		ltem Budget
Gabions	1,200	LF	\$	200.00	\$	240,000.00
Sculptural Piers	250	EA	\$	1,000.00	\$	250,000.00
Sculptural Piping	1,200	LF	\$	25.00	\$	30,000.00
Sheet Piling	320	LF	\$	38.00	\$	12,160.00
Green Screens	80	EA	\$	1,300.00	\$	104,000.00
Casting Arches	200	LF	\$	50.00	\$	10,000.00
			Total		\$	646,160.00
			Grand Total		\$	1,746,910.00

Potential Funding Sources

Louisiana DOTD Transportation Enhancement Funds Louisiana Recreational Trails Program Louisiana Land & Water Conservation Fund Greater New Orleans Foundation Environmental Protection Agency 319 Grants National Endownment for the Arts Arts Council of New Orleans Sydney And Walda Besthoff Foundation Jefferson the Beautiful