David Waggonner Waggonner & Ball

> FIT FOR PURPOSE PARKS WITHOUT BORDERS

WESTERSINGEL, ROTTERDAM INTEGRATED FLOOD PROTECTION

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ROTTERDAM ROSE PLAN, 1854



WESTERSINGEL, ROTTERDAM INTEGRATED FLOOD PROTECTION

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GREATER NEW ORLEANS URBAN WATER PLAN **DOCUMENTS**

Greater New Orleans Urban Water Plan

Vision

Waggonner & Ball Architects September 2013

Greater New Orleans Urban Water Plan

Urban Design

Waggonner & Ball Architects

September 2013

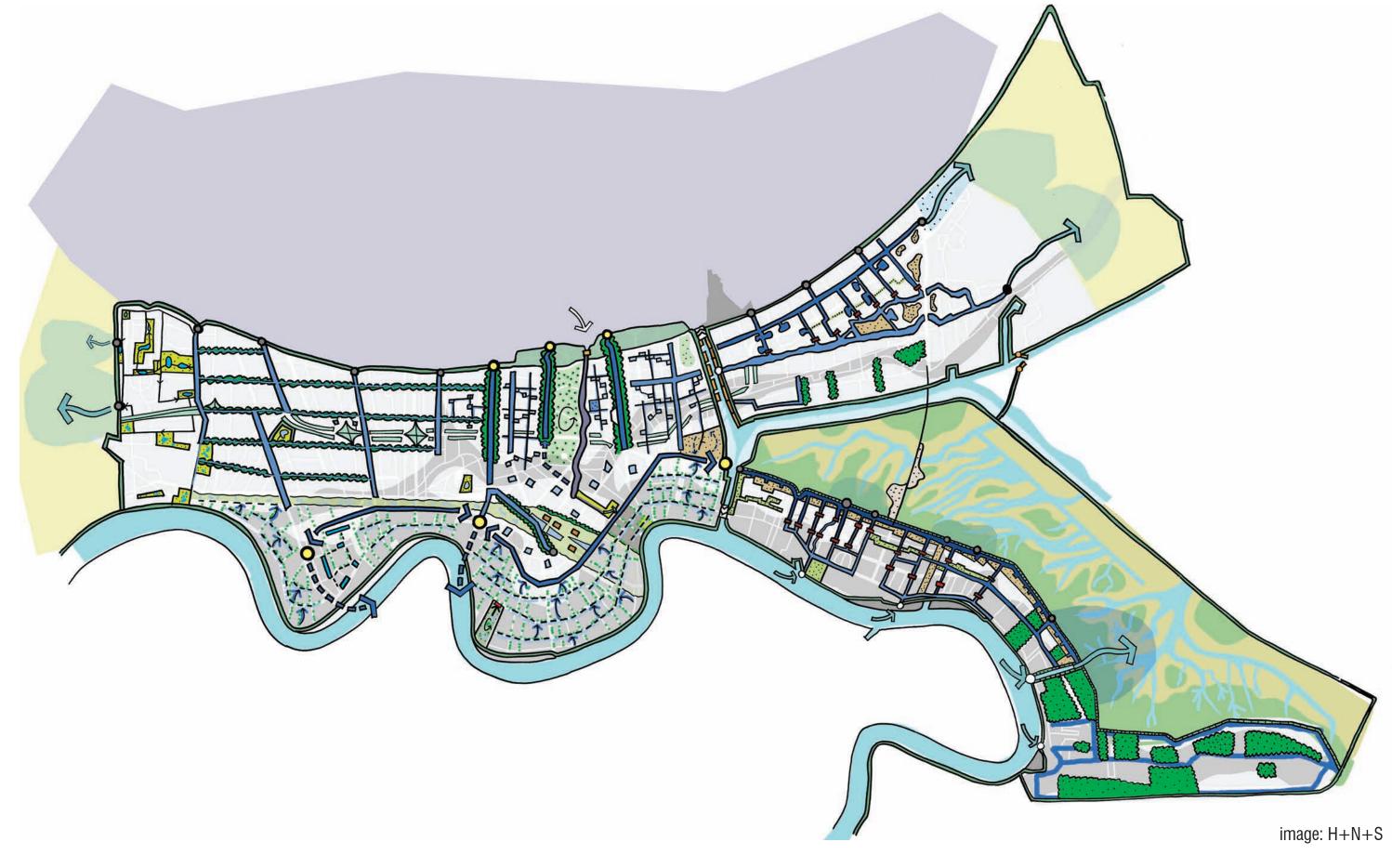
LIVINGWITHWATER.COM

Greater New Orleans Urban Water Plan

Implementation

Waggonner & Ball Architects

GREATER NEW ORLEANS URBAN WATER PLAN



GREATER NEW ORLEANS URBAN WATER PLAN LOWLAND CANALS: TYPICAL CONDITION



GREATER NEW ORLEANS URBAN WATER PLAN LOWLAND CANALS: PROPOSED CONDITION



NEW ORLEANS WALLY PONTIFF PARK



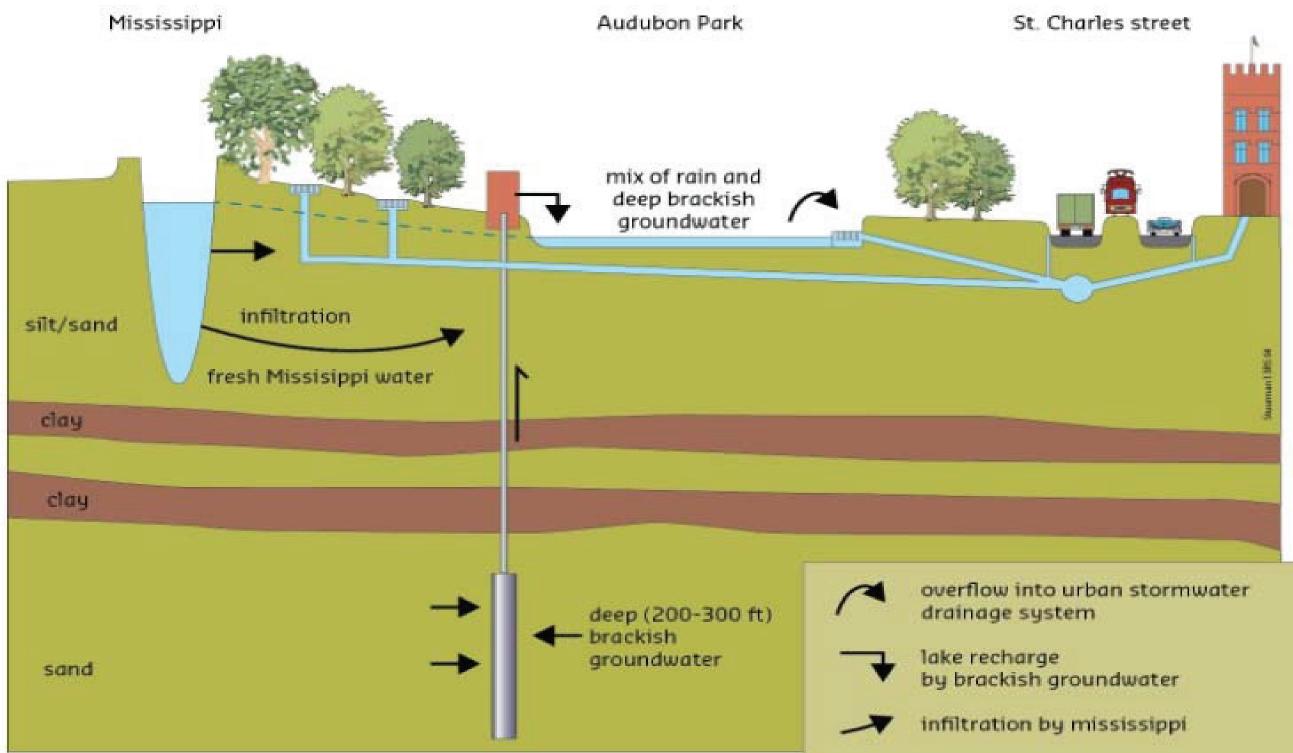




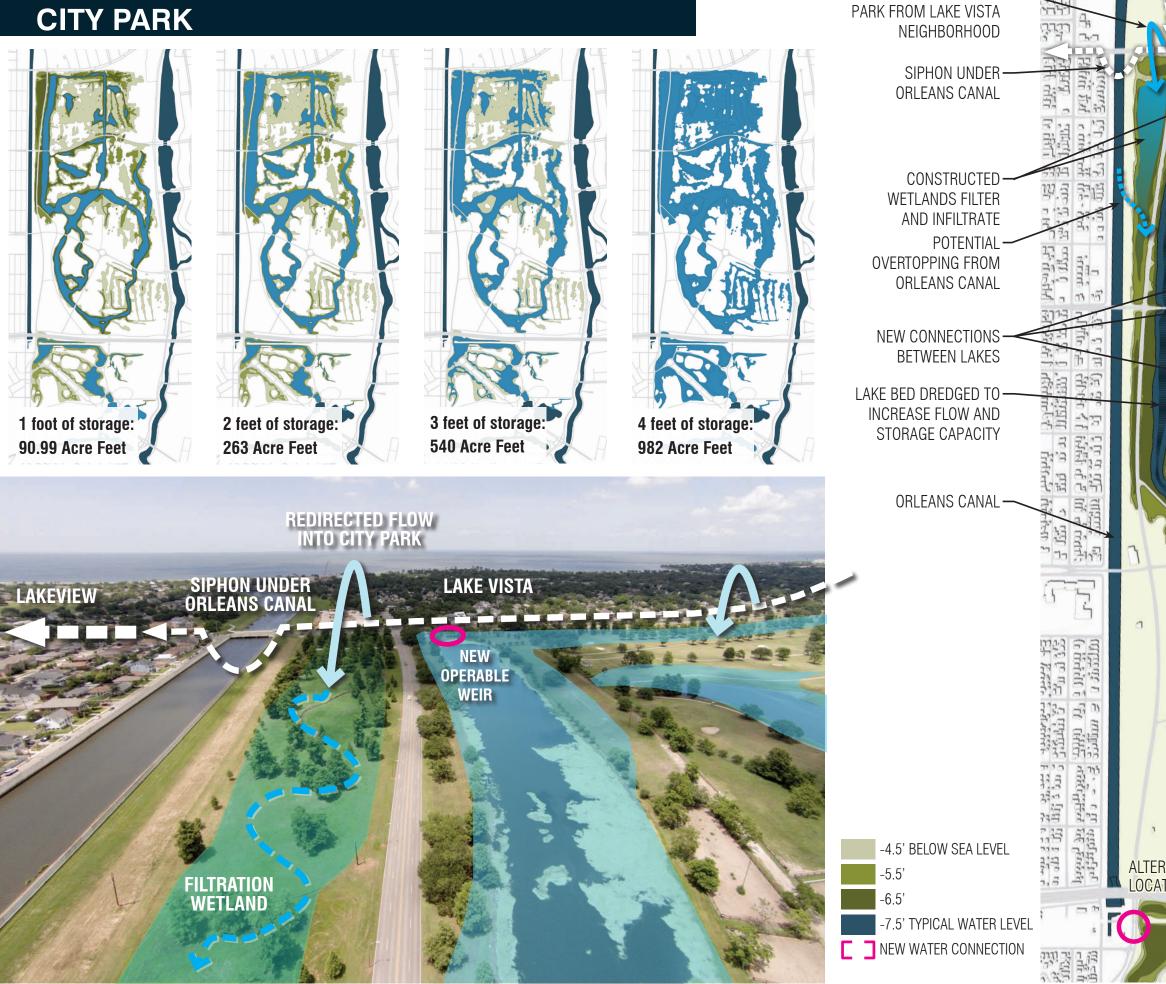
NEW ORLEANS AUDUBON PARK



NEW ORLEANS AUDUBON PARK



NDRC NEW ORLEANS **CITY PARK**





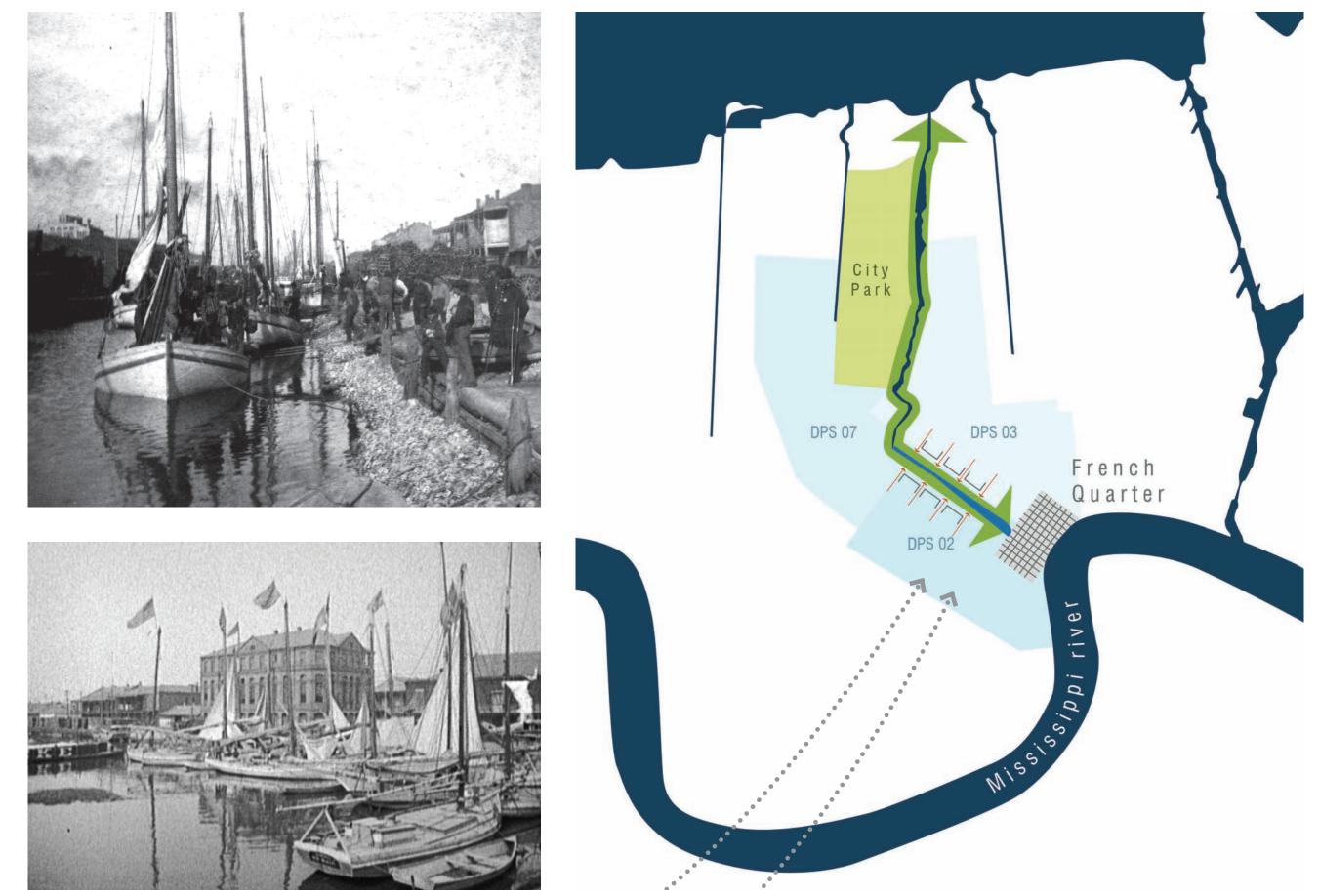
Lile E

RUNOFF INTO CITY

NDRC NEW ORLEANS



LAFITTE GREENWAY SUSTAINABLE WATER DESIGN HISTORIC CONNECTIONS



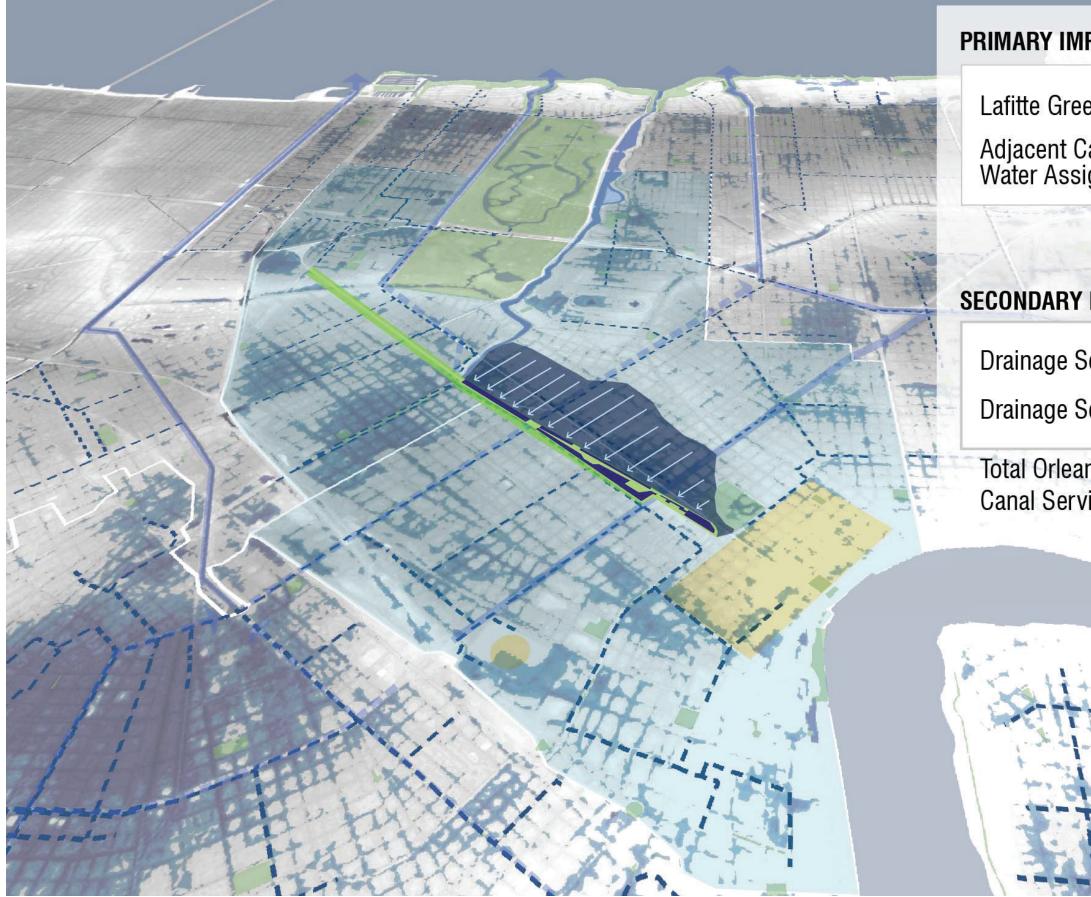
NEW ORLEANS BAYOU ST. JOHN



LAFITTE GREENWAY SUSTAINABLE WATER DESIGN EXISTING CONDITION: OUTFALL CANAL



GREATER NEW ORLEANS URBAN WATER PLAN LAFITTE BLUEWAY - DRAINAGE IMPACT

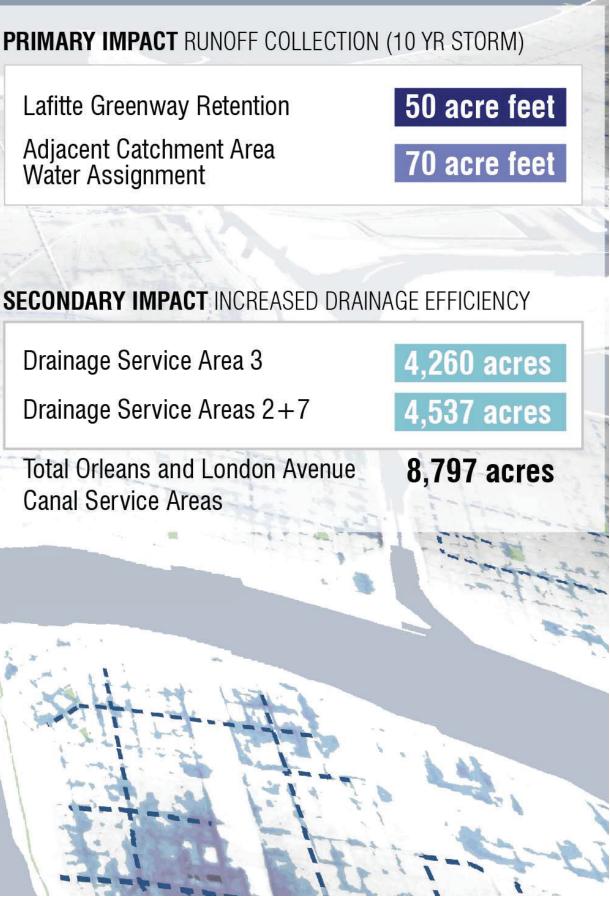


Lafitte Greenway Retention Adjacent Catchment Area Water Assignment

Drainage Service Area 3

Drainage Service Areas 2+7

Total Orleans and London Avenue Canal Service Areas



GREATER NEW ORLEANS URBAN WATER PLAN LAFITTE BLUEWAY

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3

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image: Bosch Slabbers

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GREATER NEW ORLEANS URBAN WATER PLAN LAFITTE BLUEWAY - WET

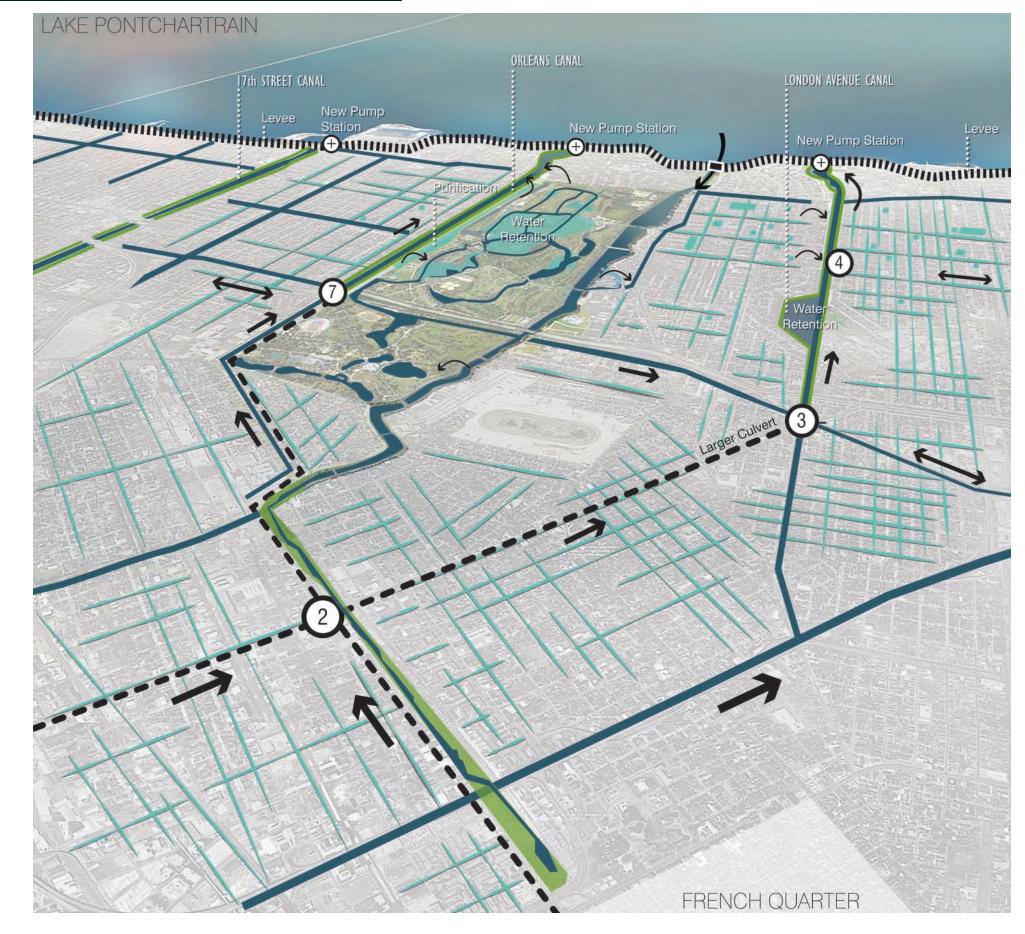
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image: Bosch Slabbers

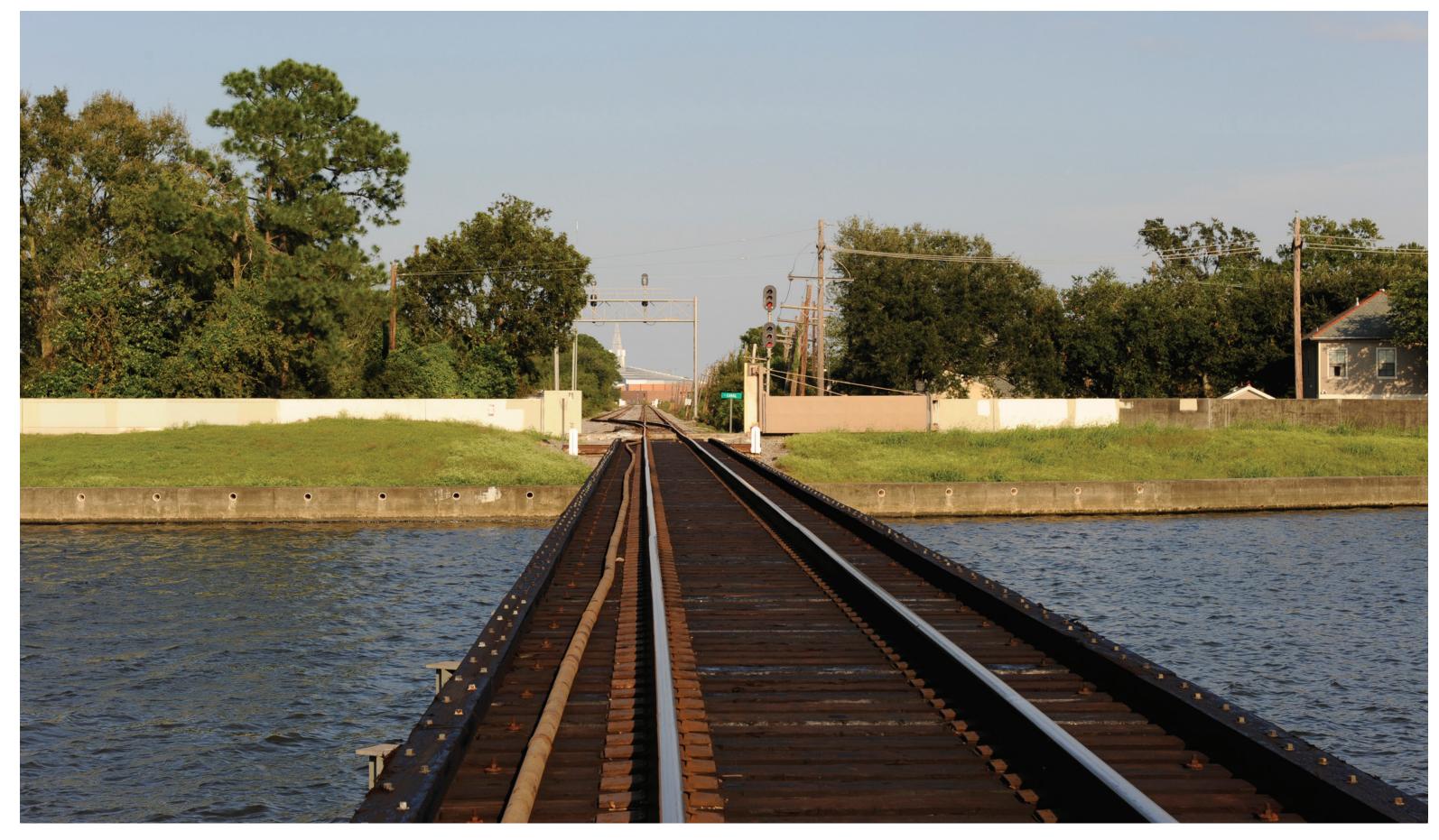
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DAVIN MAN

GREATER NEW ORLEANS URBAN WATER PLAN LOWLAND CANAL NETWORK



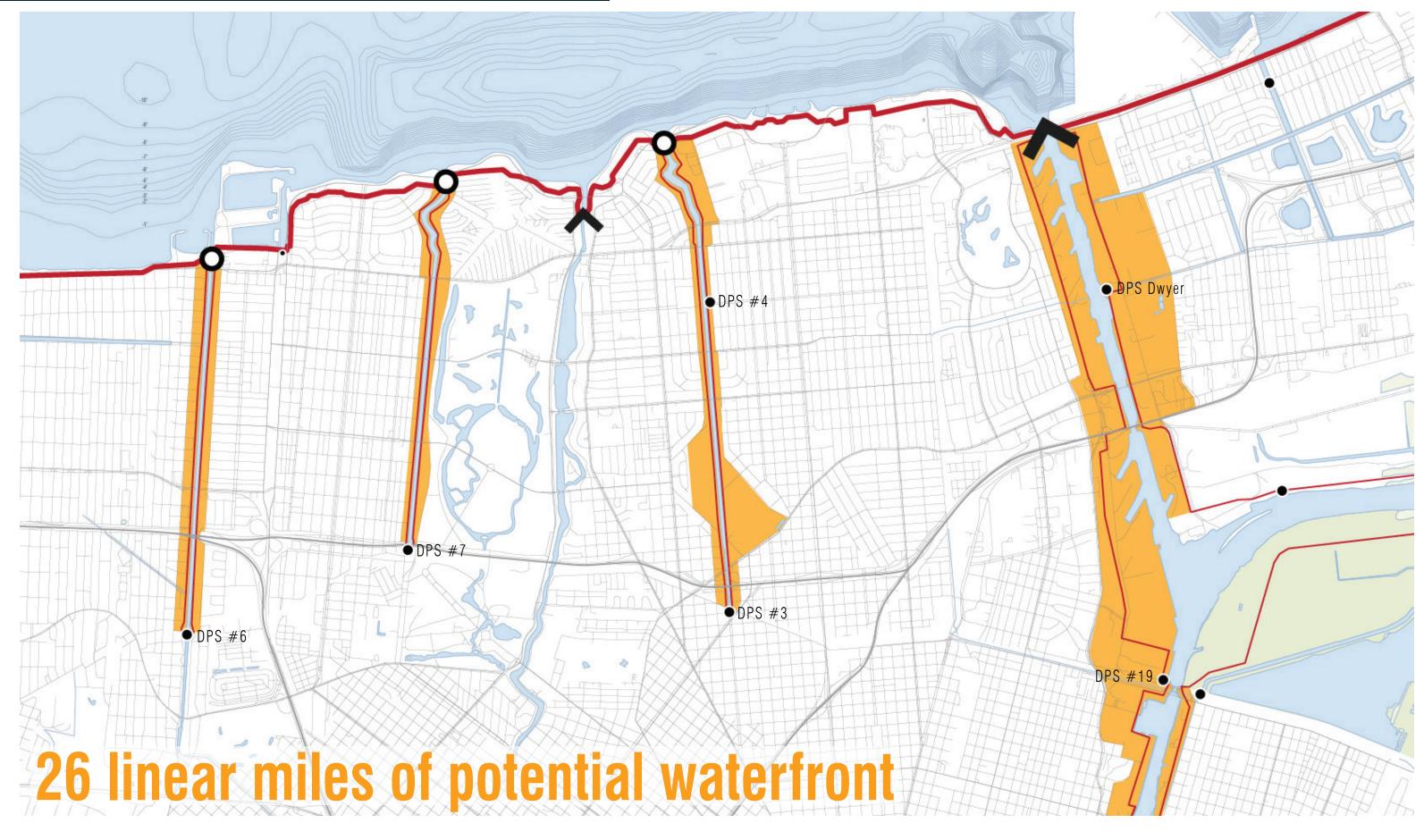
GREATER NEW ORLEANS URBAN WATER PLAN OUTFALL CANALS



NDRC NEW ORLEANS ORLEANS AVENUE CANAL



GREATER NEW ORLEANS URBAN WATER PLAN RECLAIMED WATERFRONTS





SINGAPORE BISHAN PARK



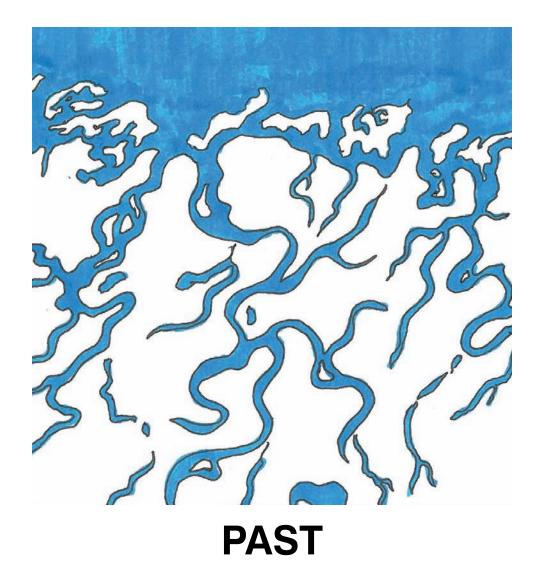
SINGAPORE BISHAN PARK

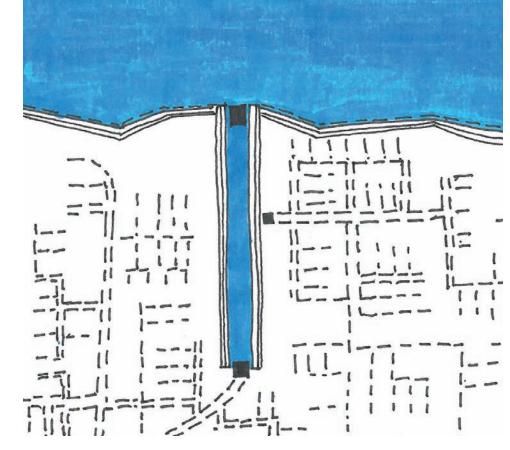


JAKARTA **TAMAN SITU LEMBANG**



NDRC NEW ORLEANS DELTA ADAPTATION





CURRENT



NDRC NEW ORLEANS **PROJECTS**



Orleans Ave Canal City Park Living Shoreline

Microgrids

Blue-Green Corridors

St. Anthony Green
 Streets
 LMI Homeowner
 Resilience Retrofit
 Program

- Milne Campus

Pontilly Neighborhood Green Infrastructure

London Ave Canal Art/Intervention

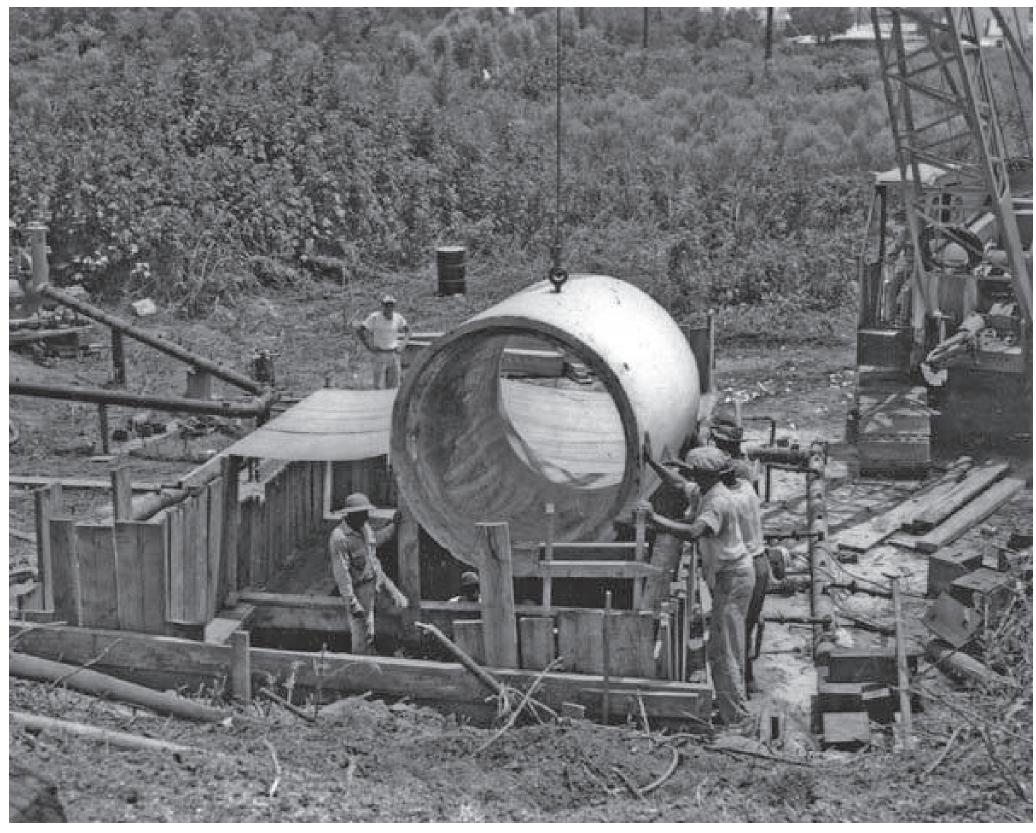
Mirabeau Water Garden

Dillard Wetland

Water Monitoring Network

St. Roch Green Streets

NEW ORLEANS DRAINING THE SWAMP



source: New Orleans Public Library

NDRC NEW ORLEANS BLUE-GREEN CORRIDORS



NDRC NEW ORLEANS **BENEFIT COST ANALYSIS**

Environmental + Social Value:

\$5.2 Million

Reduced Damage from 5 Year Flood: \$20.1 Million

Road Maintenance Cost Reduction Associated with Subsidence:

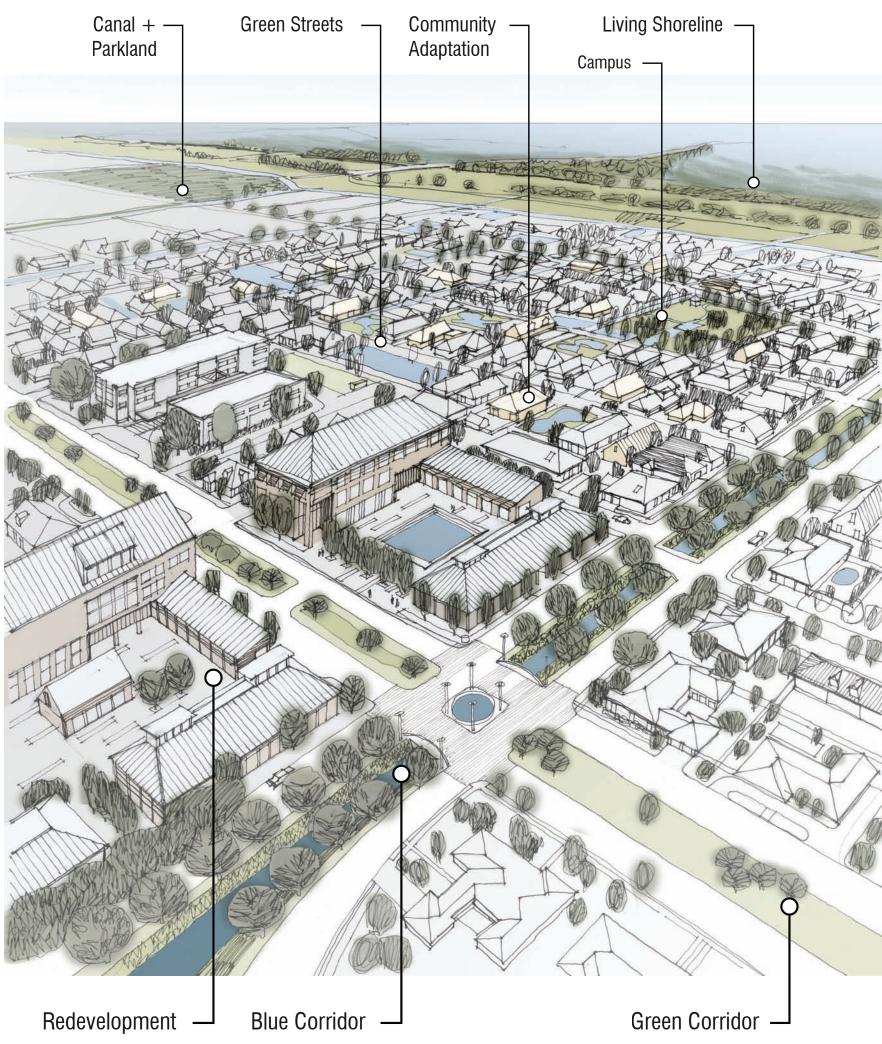
\$123.8 Million

Increased Property Values:

\$392.5 Million

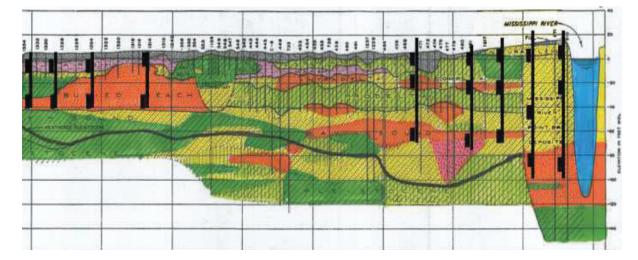
Benefit Cost Ratio:

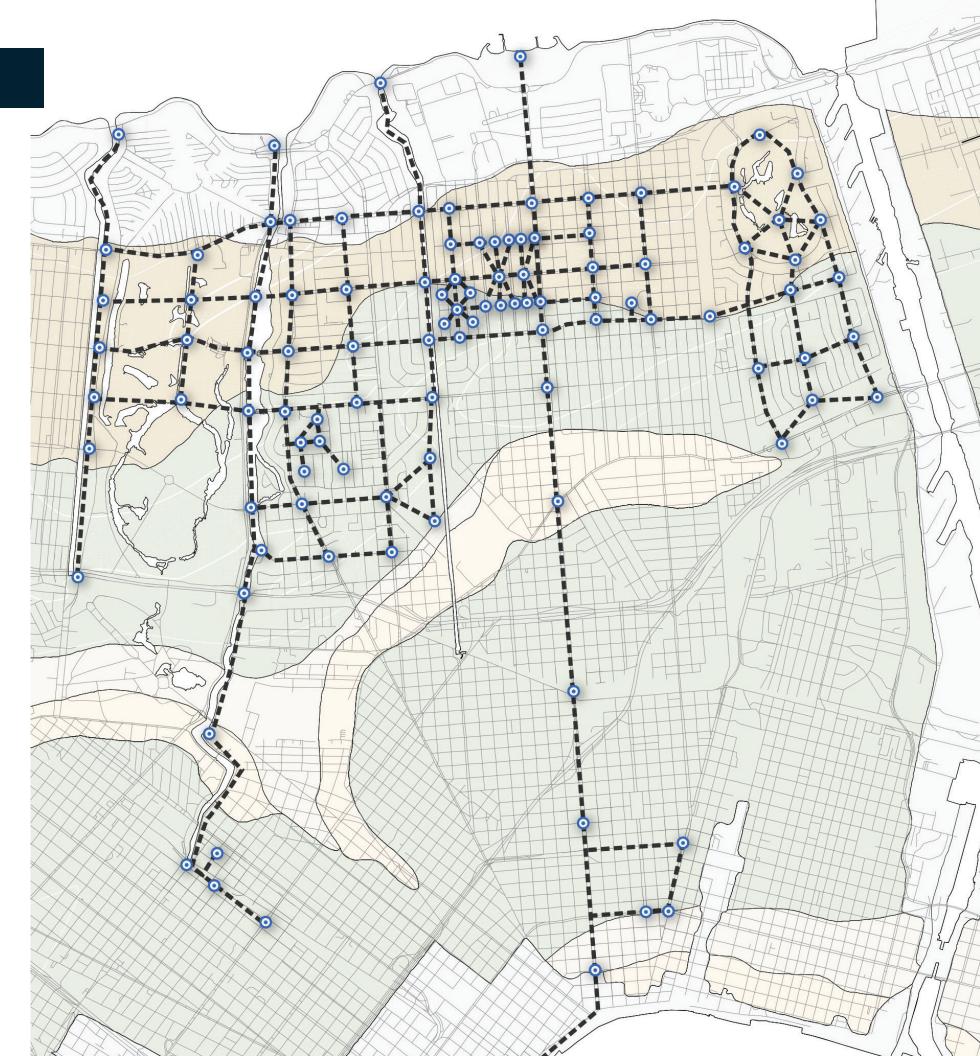
3.6 to 1



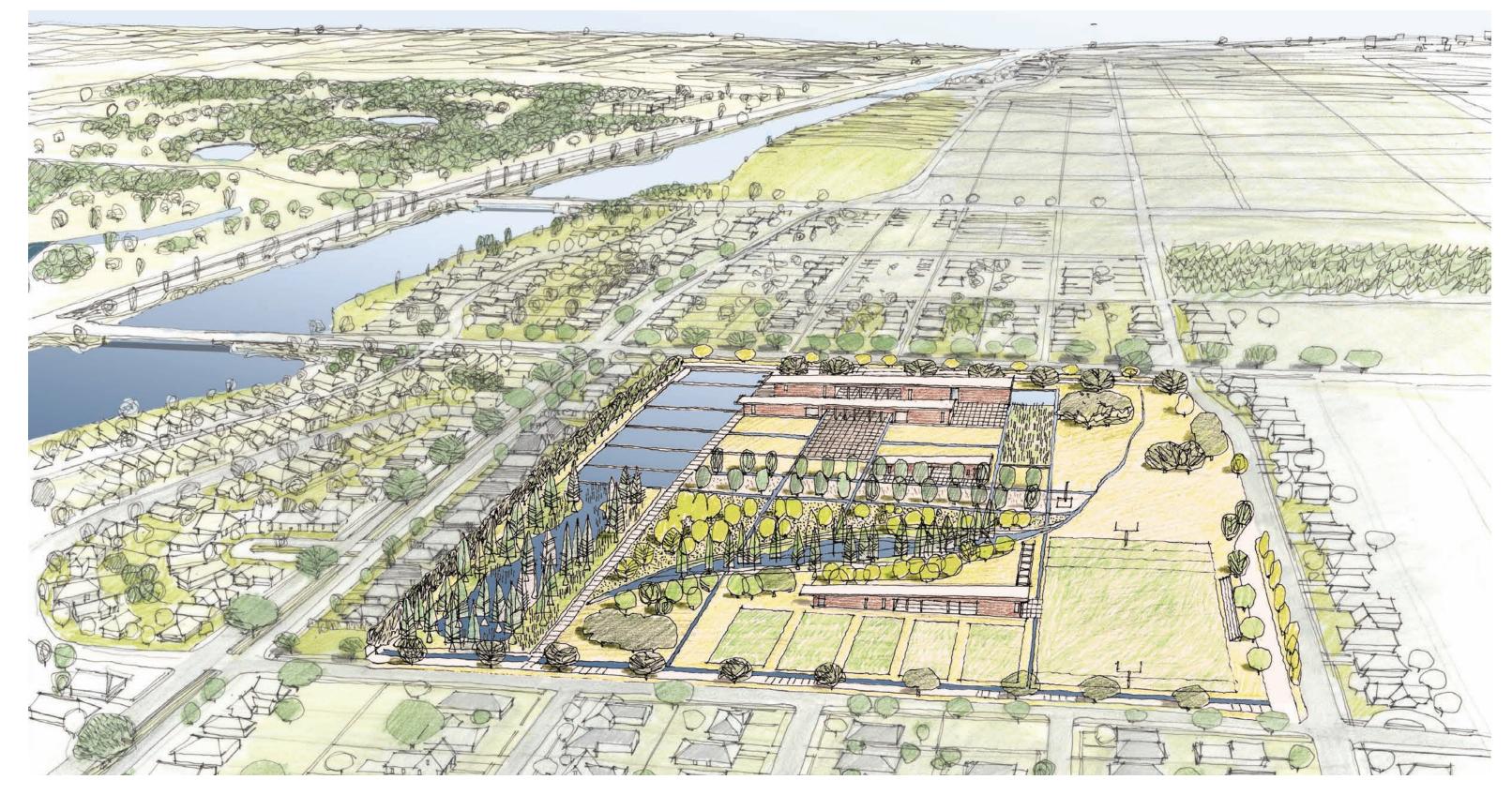
NDRC NEW ORLEANS GROUNDWATER MONITORING NETWORK







NDRC NEW ORLEANS MIRABEAU WATER GARDENS



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