

Agenda



- Project Overview and Goals
- Existing Conditions
- Community Outreach
- 60% Design
- Project Benefit Cost Analysis
- Schedule
- Q&A

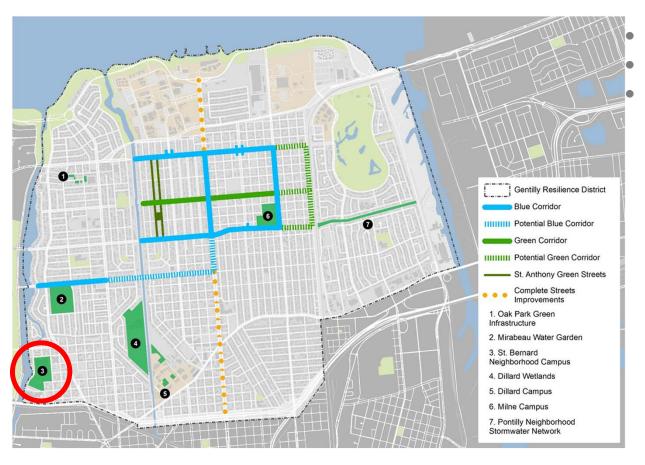






Project Overview





Budget: \$10 M Project #3

Between Harrison and I-610 & Bayou St. John and St. Bernard Avenue





Project Goals





Water Goals

- 1. Reduce flooding by storing stormwater on site before slowly releasing it into the drainage system.
- 2. Limit subsidence by raising and stabilizing groundwater levels.
- 3. Reduce and stabilize groundwater salinity.
- 4. Demonstrate resilient water management at all scales in a beautiful and tactile language accessible to all audiences.



Public Health Goals

- 1. Increase access to high quality parks.
- 2. Provide recreation: sports fields, walking trails, play ground, canoe/kayak access to Bayou St. John.
- 3. Contribute to low-stress biking corridors.
- 4. Safety and security lighting.



W Urban Heat Goals

- 1. Increase native plantings for shade & habitat.
- 2. Provide circulating surface water with interactive features fed by filtered rainwater.





Project Goals





- 1. Meet NDR requirements for Benefit Cost Analysis for HUD funding.
- 2. Create an economically sustainable campus through educational, institutional, and for-profit operators.
- 3. Demonstrate that resilient neighborhood-scale stormwater management can provide benefits far beyond the initial investment.



Cultural Goals

- Develop a community established around sports and recreational activities.
- 2. Information kiosk for public education.
- Demonstrate that green infrastructure can contribute to beautiful and functional public spaces.





Existing Conditions Flooding





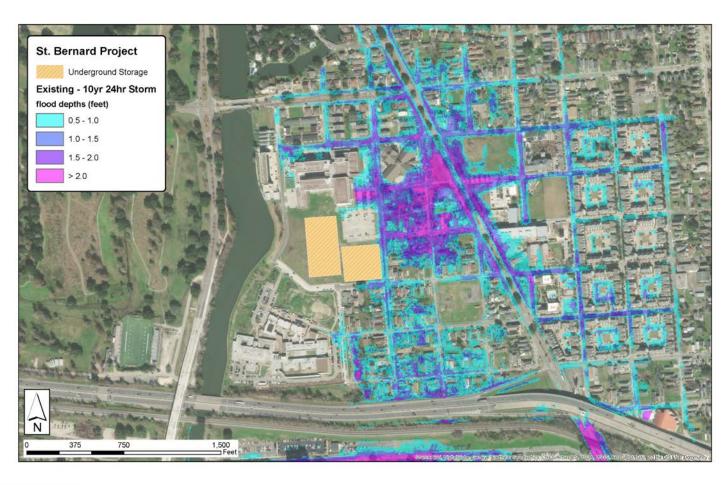
Existing Flooding Conditions





Existing 10-Year









Existing Conditions Fields







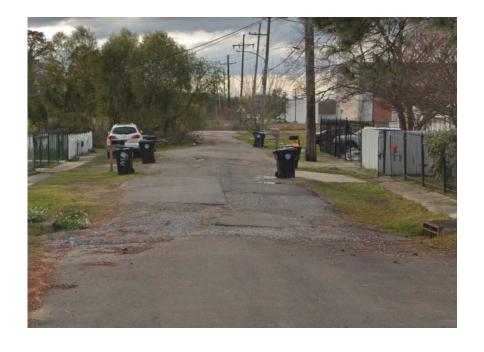




Existing Conditions Roads









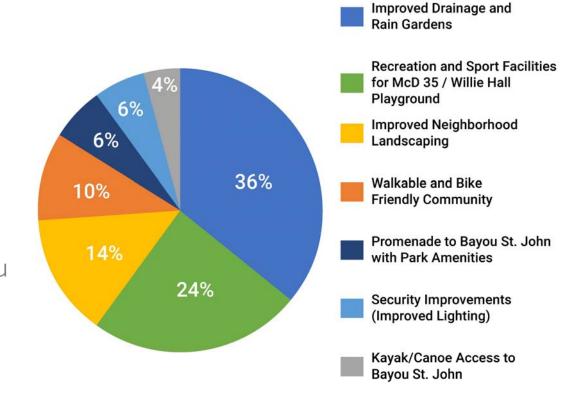


Scoping Phase Public Engagement



What we Heard

- 1. Improve Drainage
- 2. Sports Facilities
- Improve Neighborhood Landscaping
- Provide Walkable and Bike Friendly Area
- 5. Provide Park Amenities
- 6. Security Improvements
- Kayak/Canoe Access to Bayou St. John







Public Engagement

Stanted

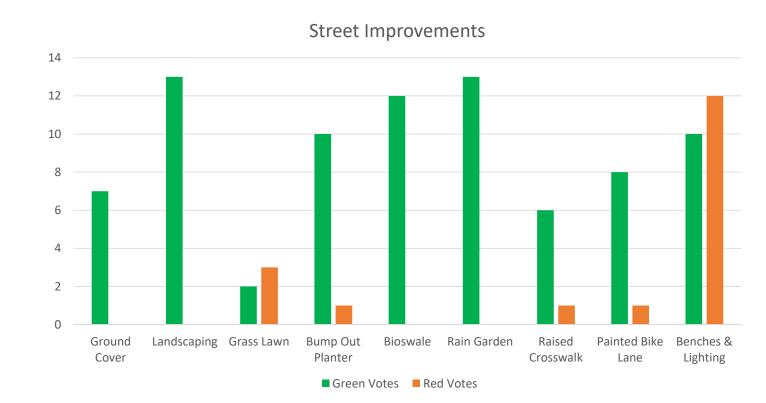
Park Amenities What We Heard

Liked

- 1. Playground
- 2. Exercise Station
- 3. Green Area
- 4. Boardwalk
- 5. Shade Structure

Disliked

- 1. Benches
- 2. Public Fountain
- 3. Dog Park
- 4. Picnic Area
- 5. Event Lawn





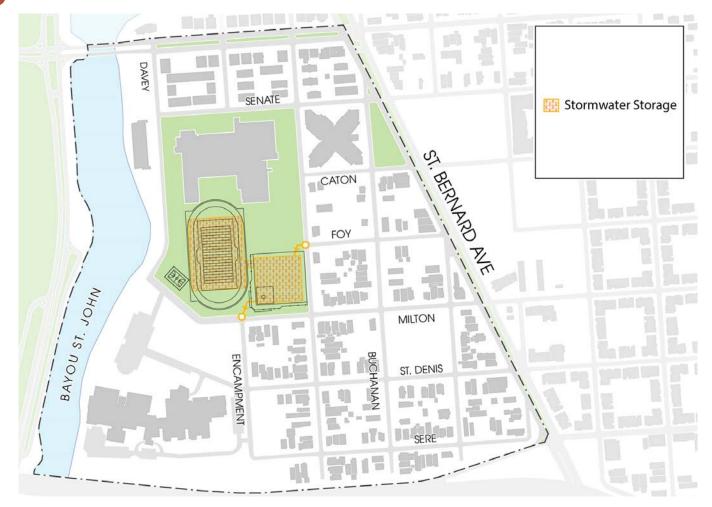


Project Phasing

Stantec

Phase 1

- Stormwater Storage
- Athletic Fields





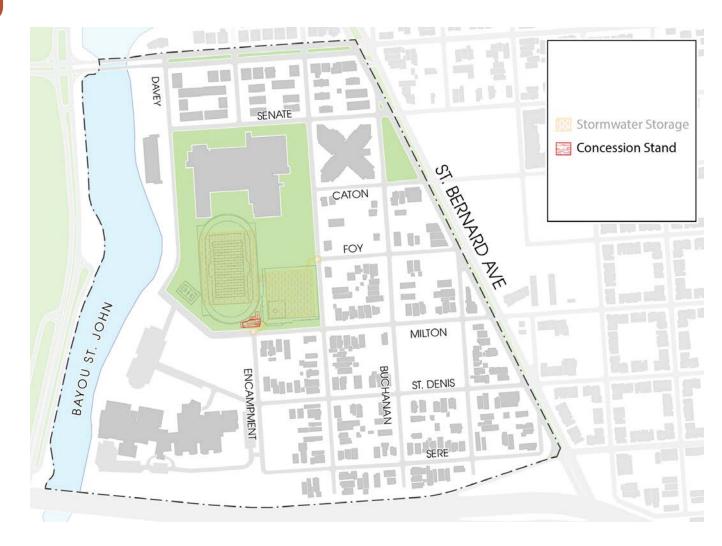


Project Phasing

Stantec

Phase 2

Concession Building







Project Phasing

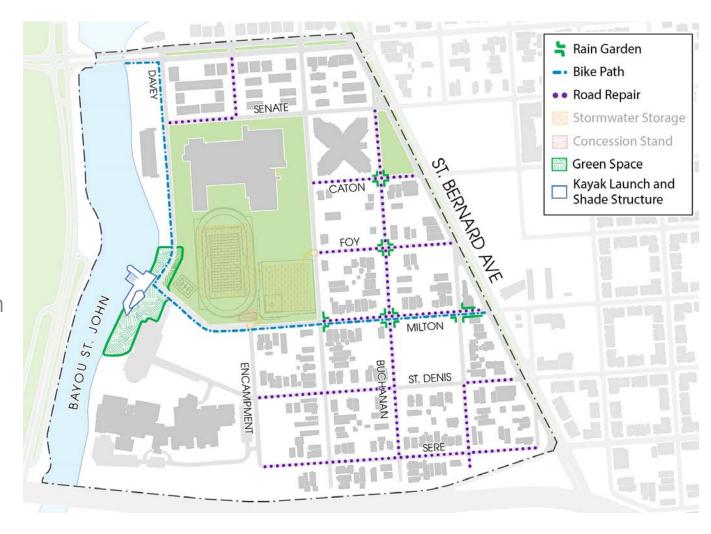
Stantec

Phase 3

- Rain Gardens
- Road Repairs
- Bike Path

Bayou St. John Park

- Playground
- Shade Structure
- Boardwalk
- Walking Trail
- Kayak/Canoe Launch





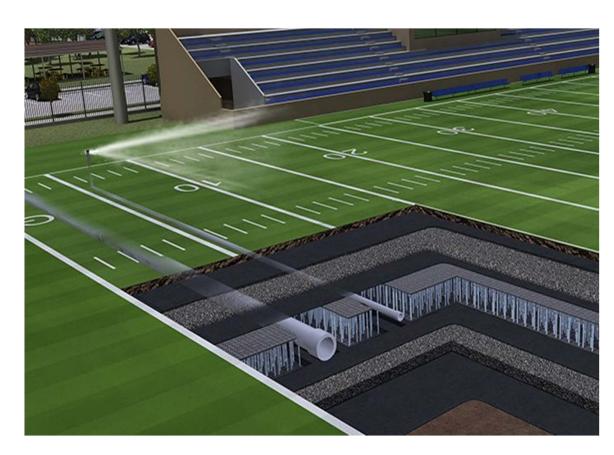


Phase 1 – Underground Stormwater Storage



Multi-Functional Recreational Fields

- Underground stormwater detention basin
- Increase storage to 5 million gallons of strategic stormwater storage
- sodded athletic fields







Phase 1 - Willie Hall Playground

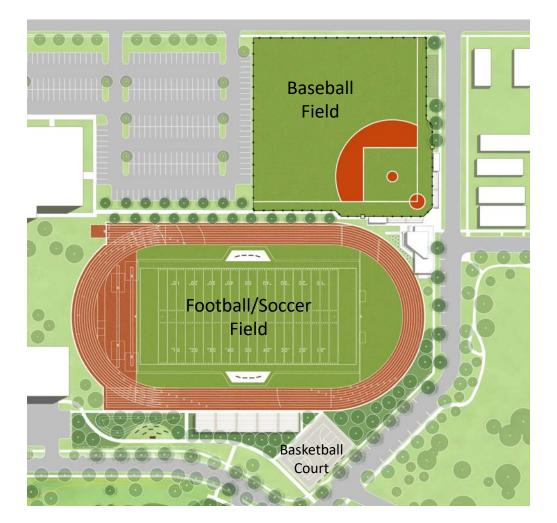


Athletic Fields

- Football/Soccer Field
- Baseball/Softball Field
- Basketball Court
- Sports and Area Lighting
- Bleachers

Additional Features:

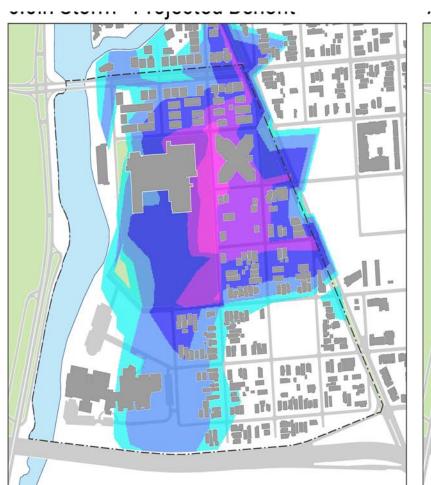
Landscaping

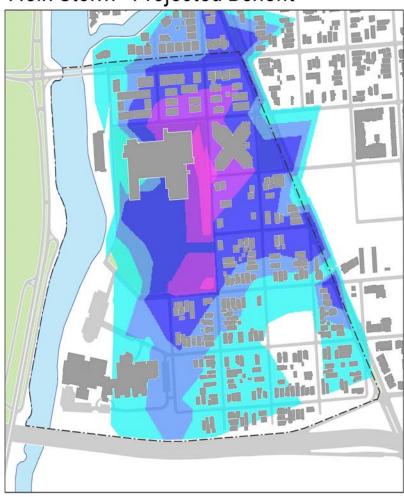






Floc





Stantec

Flood Reduction (in) 1 - 2.5 5 - 7 2.5 - 5 7 - 12 <1





Phase 2 - Concession Building









Phase 3 - Green Infrastructure









Key Design Element

Rain Gardens

Bump-outs:

- Provide water quality, promotes transpiration, and enhances the streetscape
- Provides shorter crossing distance for pedestrians, enhancing safety







Key Design Element

Sidewalk and ADA Ramps

 May Include permeable concrete to promotes infiltration reducing subsidence

Pavement Repairs - Recovery Roads Scope has been added for streets where construction overlaps







Phase 3 – Bayou St. John Park









Bayou St. John Park Rendering









Streetscape Design









Milton Street Improvements









Project Cost

Stanted

Project Components:

Phase 1 Stormwater: \$5.7M

Athletic Fields: \$2.1M

Phase 2 Concession Building: \$740,000

Phase 3 Road Repairs, Green Infrastructure &

Park: \$3.3M





PROBABLE CONSTRUCTION COST = Approx. \$12M

including 10% contingency AACE Class 2 Accuracy range -15% to +20%





Project Benefit Cost Analysis



Greatest Benefits

- Property Value Increase
- Flood Damage Reduction
- Subsidence Reduction
- Stormwater Treatment

Costs

- Capital Expenditures
- Operations and Maintenance
- Replacement Costs

Triple Bottom Line (in NPV) = \$4.8M

Benefit Cost Ratio = 1.4

	CITY OF NEW ORLEANS
	MAYOR LATOYA CANTRELL



Impact Type	Cost/Benefit	Expected Value
Financial	Capital Expenditures	-\$7,478,000
Financial	Operations and Maintenance	-\$3,033,000
Financial	Replacement Costs	-\$1,477,000
Financial	Residual Value of Assets	\$3,000
Social	Subsidence Road Impact	\$2,357,000
Social	Subsidence Property Impact	\$464,000
Social	Public Health	\$71,000
Social	Public Health CVD Impact	\$21,000
Social	Property Value	\$931,000
Social	Flood Damage	\$8,935,000
Social	Recreational Value	\$1,078,000
Social	Education	\$105,000
Social	Heat Island Effect	\$32,000
Environmental	Carbon Emission Sequestration	\$4,000
Environmental	Air Pollution Sequestration	\$13,000
Environmental	Stormwater Treatment	\$2,760,000

	Expected Value
Financial	-\$11,985,000
Social	\$13,994,000
Environmental	\$2,777,000
Triple Bottom Line NPV	\$4,786,000

Operations & Maintenance



Shared Operation between School and NORDC defined in Agreement

NORDC Operates

Monday -Friday 4 PM-9 PM Saturday 9AM -2 PM Sunday and Holidays As Needed

Maintenance to be shared between NORDC and School – Under Negotiations

Maintenance of Rain Garden - Adjacent Homeowner





Project Schedule



