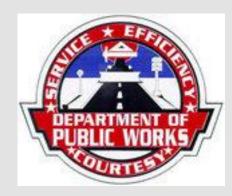




Thursday, November 2, 2017



CITY OF NEW ORLEANS





New Orleans City Resilience Strategy Released: August, 2015

## Resilient New Orleans

Strategic actions to shape our future city





#### Adapt to Thrive



#### Connect to Opportunity



Transform City Systems

#### Gentilly Resilience District

Projects proposed in City's application to National Disaster Resilience Competition





**Streets & Corridors** 



**Open Spaces** 



Parks & Playgrounds



Vacant Lots



Home & Property Improvements



#### **CITY OF NEW ORLEANS DRAINAGE UPGRADE PROJECT LOCATIONS**

City of New Orleans Department of Public Works: September 2017





## Benefits of the Projects



Reduced risk of flooding and subsidence



Neighborhood beautification & economic development



Recreation & health



Environmental awareness

# Resilient NOLA

RESILIENT NOLA

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### ST. ROCH Drainage Upgrades and Green Infrastructure FEMA Hazard Mitigation Grant Program

#### Neighborhood Association Meeting November 2, 2017



CITY OF NEW ORLEANS





St. Roch Presentation Agenda

- Project Background & Status
- The Problems Existing Drainage & Street Conditions
- The Solution Improved Subsurface
   Drainage
- The Solution Green Infrastructure
- Project Benefits Reduced Flooding & Functional Streets
- Changes Since Our Last Meeting
- Project Challenges
- Next Steps



### St. Roch Character



St. Roch Project Status  30% Project Scope Report supporting a Benefit-Cost Ratio (BCR) >1.0 Approved by DPW & FEMA

 Survey and Geotechnical investigations completed

60% Design Phase completed

90% Design Phase ongoing

Project Agency Coordination

- Coordination Between Multiple Agencies / Owners
  - DPW (Maintenance, Traffic, Engineering, Construction, Stormwater, Green Infrastructure)
  - S&WB (Water, Sanitary Sewer, Stormwater Utilities)
  - LA DOTD Orleans District
  - Entergy (Electric, Gas)
  - AT&T (Telecommunications)
  - Cox Cable (Telecommunications)
  - Planning Department
  - Department of Parks and Parkways
  - FEMA
  - Recovery Roads (N-Y Associates)

St. Roch Drainage Problems



St. Roch Street Conditions

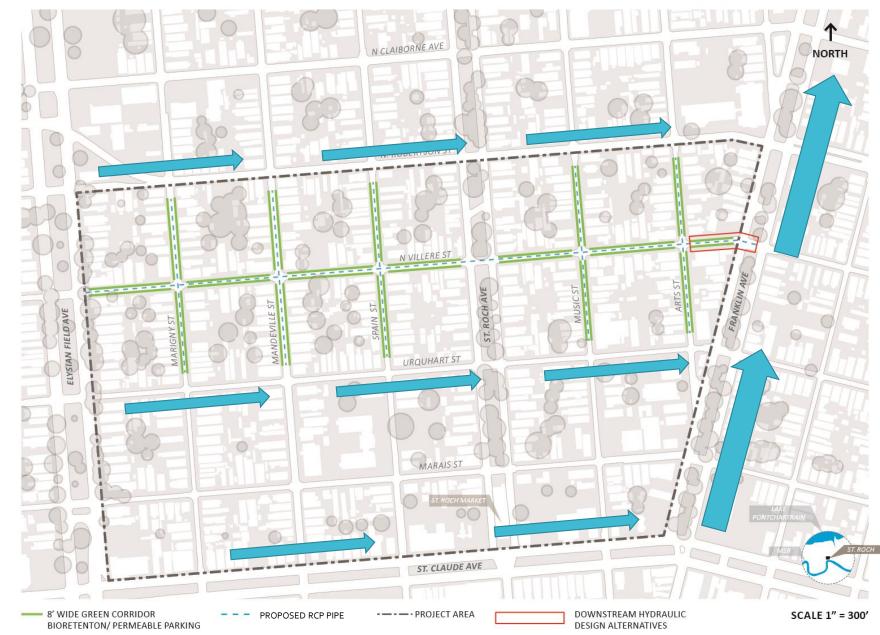




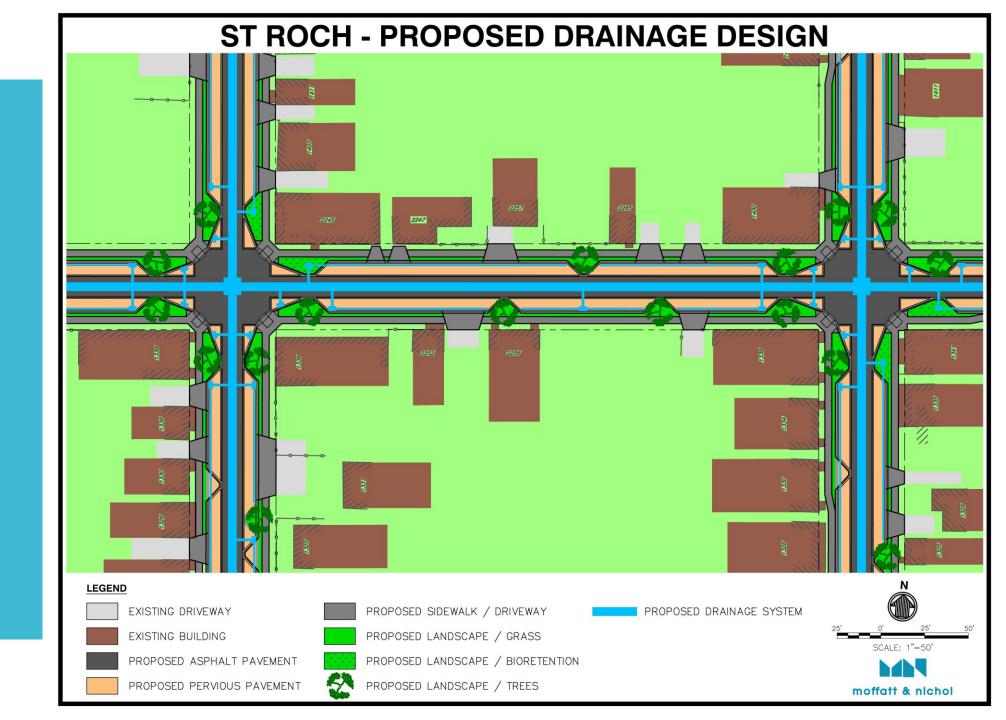
ST. ROCH

#### SCHEMATIC CONCEPT PLAN

St. Roch Drainage Pattern & Area of Intervention

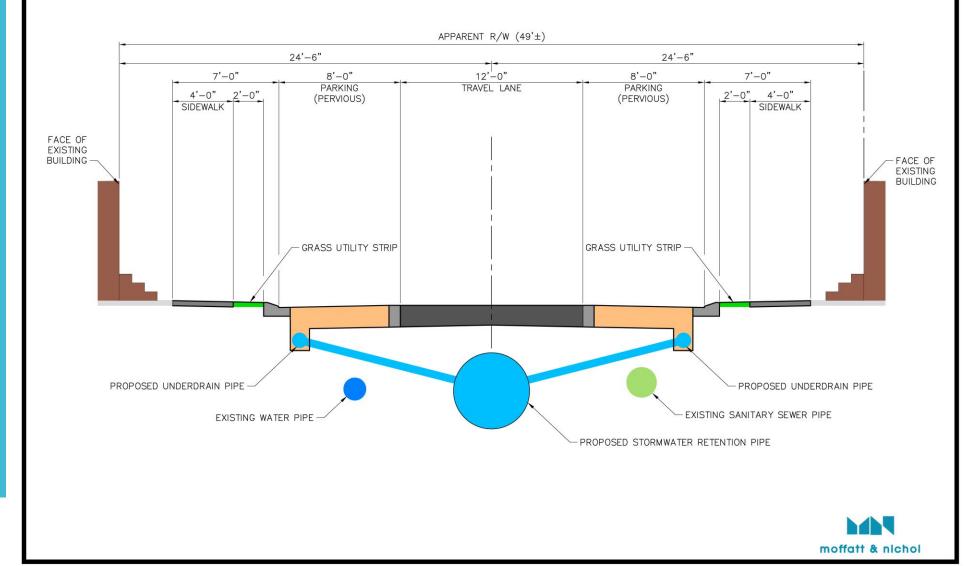


St. Roch Proposed Design Elements – Subsurface Drainage



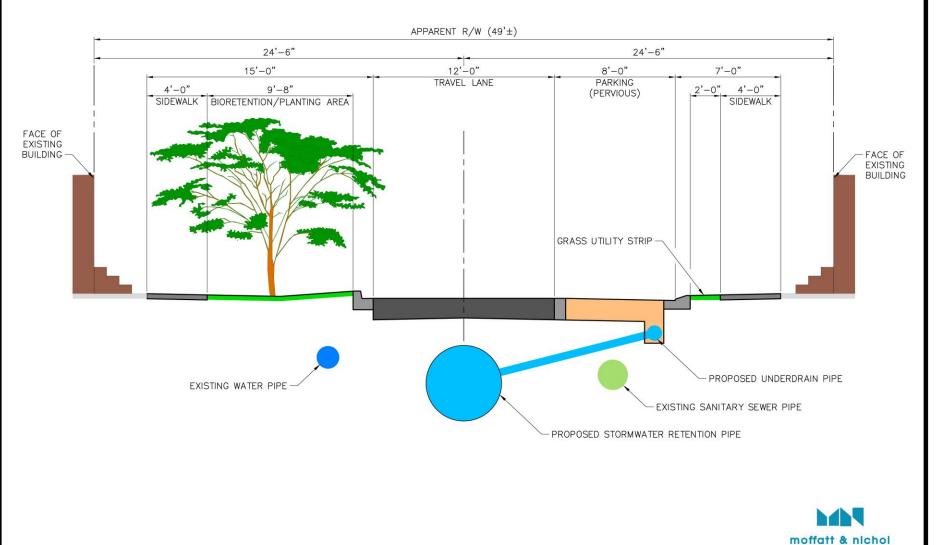
#### ST ROCH - PROPOSED STREET DESIGN TYPICAL SECTION

St. Roch Proposed Design Elements – Street Cross Section



#### ST ROCH - PROPOSED STREET DESIGN TYPICAL SECTION

St. Roch Proposed Design Elements – Street Cross Section



Benefits of New Streetscape

- Reduced Impervious Surfaces (less runoff)
  - Existing Condition = 90% Impervious
  - Proposed Condition = 64% Impervious
  - 30% Reduction
- On Street Parking More Organized
- Plants & Shade
- Improved Aesthetics
- Storage Spaced Eliminate Standing Water



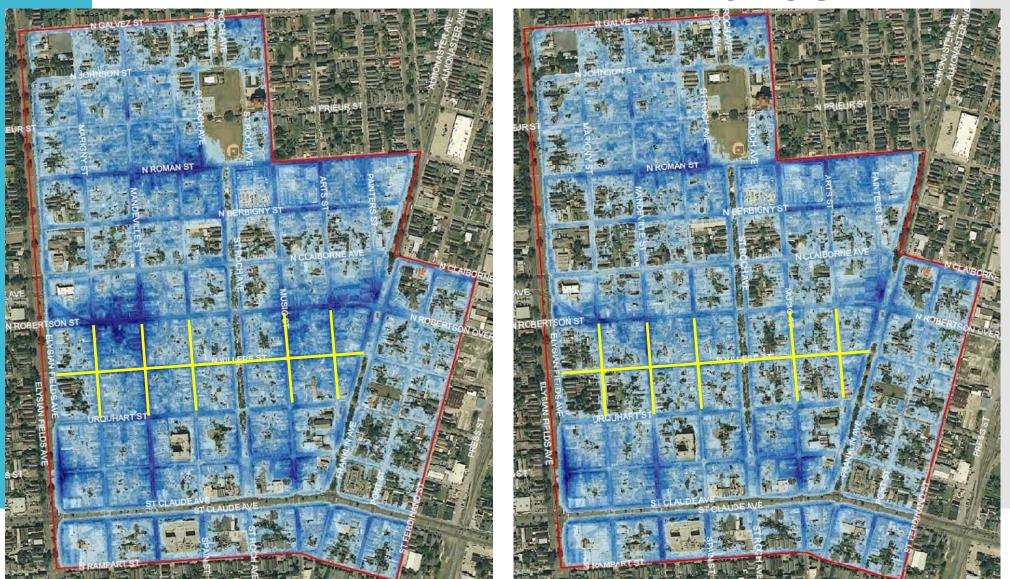


Rain Garden Plantings

- Sweet Bay Magnolia
- Gulf Muhly Grass
- Spider Lily
- Fortnight Lily
- Louisiana Iris
- Black Eyed Susan

#### Predicted Flood Elevations – 2-yr Storm EXISTING PROPOSED

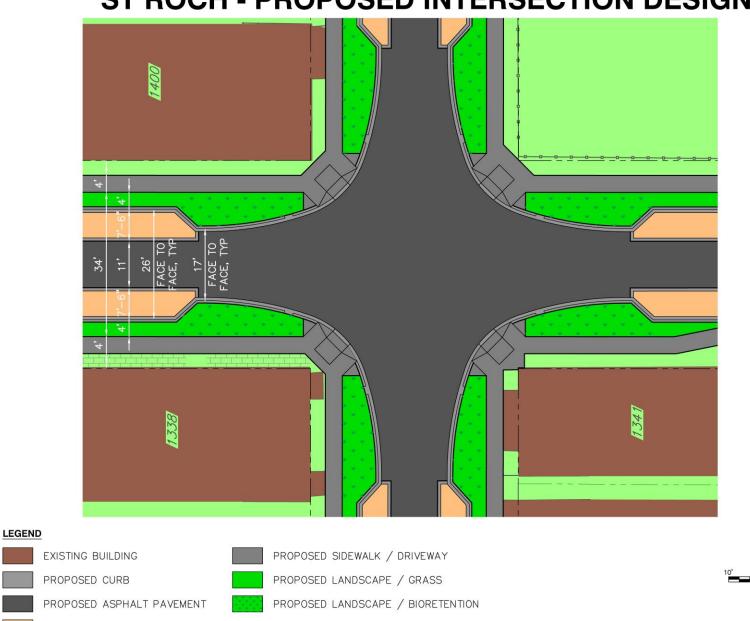
St. Roch Project Benefits – Flood Reduction



St. Roch Overall Project Benefits

- Reduce Flooding & Improve Water Quality
- Increase Public Safety
- Reduce Mosquitos and Associated Health Risks
- Improve Resident Quality of Life
- Enhance Community & Neighborhood Morale
- Reduce Resident Financial Burden
- Public Education & Community Outreach
- Increase Community Resilience

St. Roch – Further Refinement O Intersection Geometry



PROPOSED PERVIOUS PAVEMENT

SCALE: 1"=20

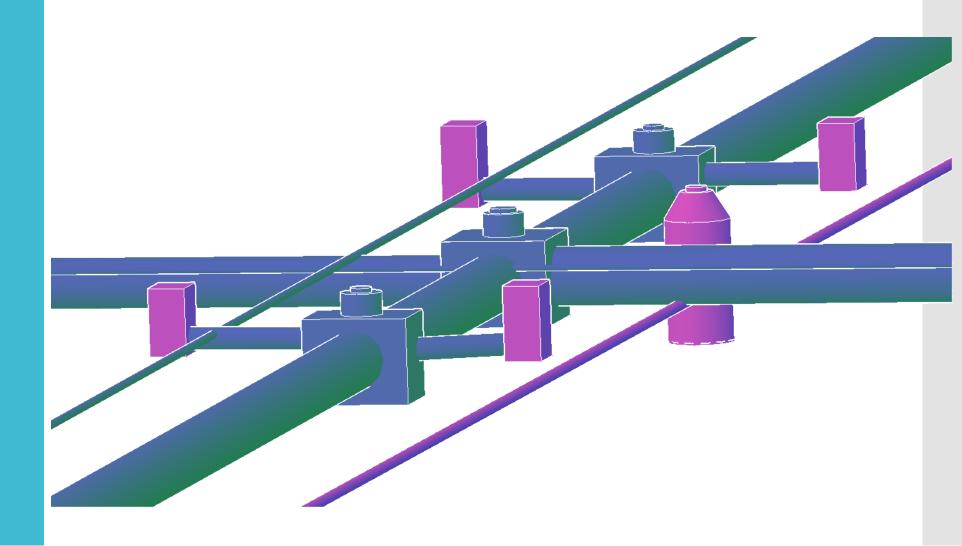
moffatt & nichol

**ST ROCH - PROPOSED INTERSECTION DESIGN** 

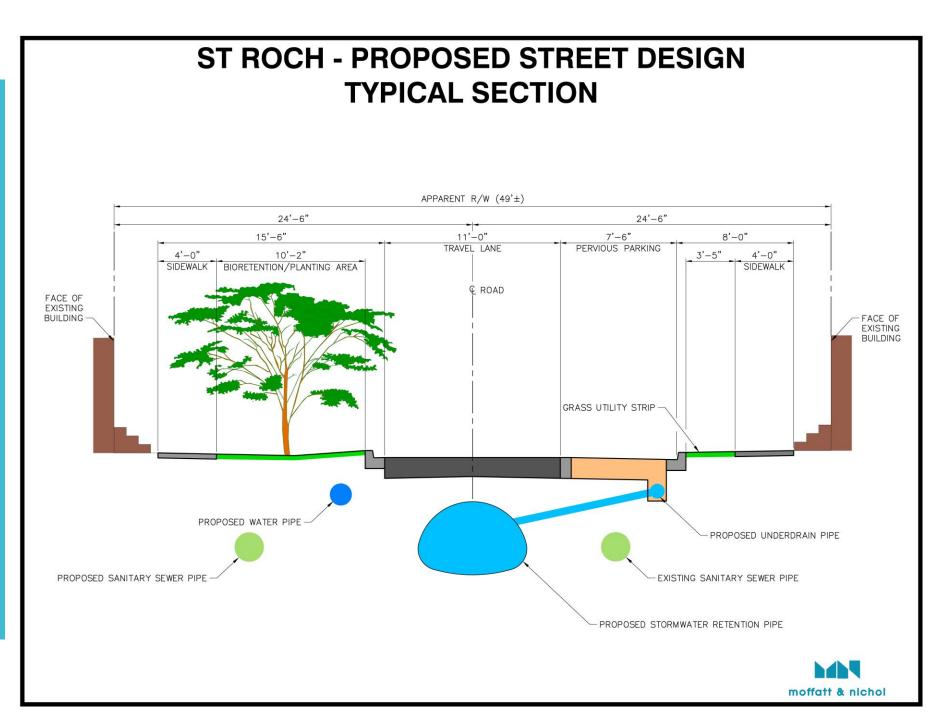
St. Roch Project Parking Capacity Numerous Parking Counts – All Times
Counts Ranged from 127-171 Cars
Average = 152 Cars
Design Capacity = 239 Spaces
Non-Conforming Driveways

#### Civil-3D Analysis of Utility Conflicts

St. Roch Project Challenges – Utility Conflicts





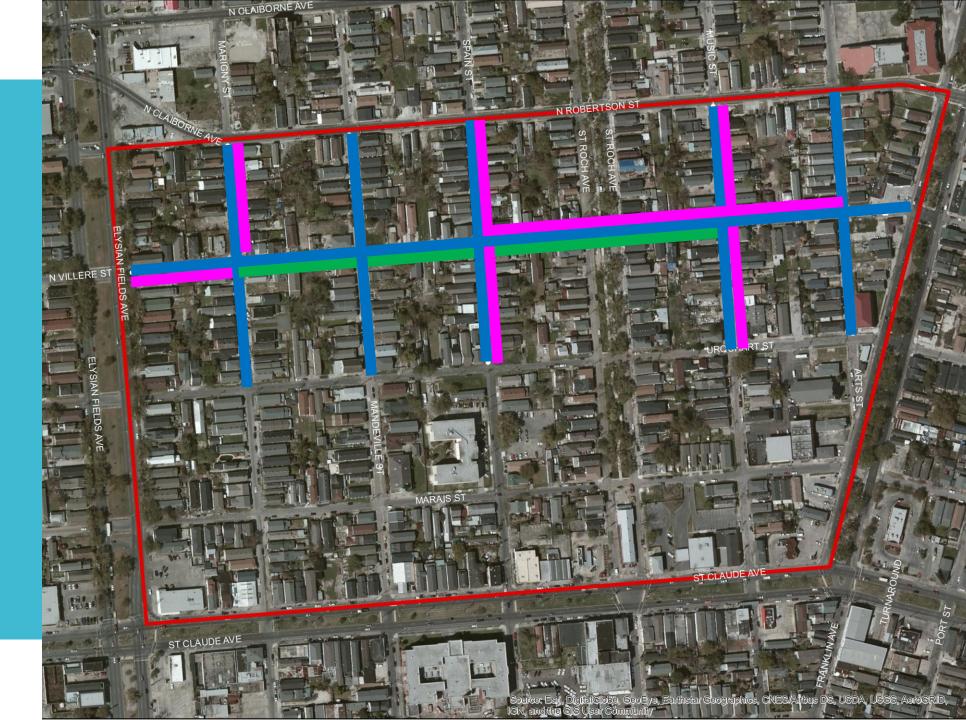


### St. Roch Utility Replacement

New Water

New Sewer

**Parallel Sewer** 



St. Roch Project – Next Steps

- Design through December 2017
- Final Utility Coordination with SWBNO and Entergy
- Constructability Reviews
- Coordination with Capital Improvements Program
- Bidding & Contracting: Winter/Spring
   2018
- Community Meeting With Contractor: Prior To Construction
- Construction: Spring 2018

### Conclusion

#### City Contact:

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- ·504-658-2215





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