Green Stormwater Infrastructure Parks

Kansas City Urban Stormwater Conference
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historic fourth ward park | atlanta
Historic Fourth Ward Park

- Partners:
  - Atlanta BeltLine (client), Atlanta DWM, Atlanta DPR

- Funding:
  - Public Utility, Tax Allocation District, Private Funding
  - DWM (drainage), TAD / Private Funding (park)
  - Long Term Maintenance DWM (drainage), DPR (park)

- Budget:
  - $25 Million

- Features:
  - Stormwater Management (7M Gallon Storage)
  - Social – Park Space
  - Environmental - Remediation and Restoration
  - Economic - ROI
Stormwater Storage Capacity

Stormwater (10 million gallons maximum) is conveyed to the park’s pond and raingardens and stored - this alleviates flooding and reduces combined sewer overflows into Proctor Creek.
Site Conditions

Topography, existing circulation patterns, vegetation, and neighborhood context contribute to the shaping of the park and siting of park elements.
Historic Mims Park

The design draws upon forms of the Historic Mims Park, a park once located two blocks away, that was designed for the neighborhood in the late 19th century by the Olmsted Brothers.
Public Input

Public meetings, community workshops, online surveys, and stakeholder interviews were performed to gain an understanding of public needs and desires.
Rodney Cook, Sr. Park

- **Partners:**
  - Trust for Public Land (client), Atlanta DWM, Atlanta DPR

- **Funding:**
  - Public Utility, Private Funding
  - DWM (drainage), Private Funding (park)
  - Long Term Maintenance DWM (drainage), DPR (park)

- **Budget:**
  - $35 Million

- **Features:**
  - Stormwater Management (10M Gallon Storage)
  - Social – Park Space for Underserved Neighborhood
  - Environmental - Remediation and Restoration
  - Economic - Partnerships
INUNDATION

PERMANENT POOL
ELEVATION 1231.84

25 YEAR STORM
ELEVATION 1232.95

100 YEAR STORM
FLOOD ELEVATION 1233.46

500 YEAR STORM
FLOOD ELEVATION 1233.90
Radio Park

- **Partners:**
  - Truman (client), Calgary DWR, Calgary DPR
  - CivicWorks, S2 Architecture
- **Funding:**
  - Private Developer
  - Long Term Maintenance DWR (drainage), DPR (park)
- **Budget:**
  - $20 Million
- **Features:**
  - Stormwater Management (8M Gallon Storage)
  - Social – Park Space
  - Environmental – Preservation / Habitat
  - Economic - ROI
Old Smoky Hill Channel

- Federal Flood Control Levee and By-Pass Channel
- Removed baseflow from 6.8 miles of channel
Today

- 5 sq miles of urban runoff
- Historic= 8,341 sq miles
- No base flow
Public Involvement Improves Project Performance

Smoky Hill River Renewal
Master Plan Components Ranked in Order of Importance

- Improvements to increase water quality and quantity through the channel
- Multi-use trails
- Improved parks and public access spaces, like trail heads
- Enhanced bridge structures that incorporate improved aesthetics and pedestrian amenities
- Canoe/kayak access
- Improved venues for public performance and events
- Future areas for private, commercial, residential and retail investment
- Fishing opportunities
- Bird watching/habitat improvements to wetland areas
- Passenger transport on the river, like water taxis and gondolas

![Image of a crowd at a public meeting]

Natural Channel Design Concept

Easier Access for Sediment Removal

Channel Configuration with Pools and Riffles
Source: University of Minnesota, SAFL
Kenwood & Founders Parks Desired Features

- Water Quality
- Native Landscape
- Accessibility to Water
- Trails
Lakewood Lake Park
Funding Strategy- Local & Federal

- **Local Sales Tax**
  - Voter Approved 0.35% sales tax
  - $27 Million Bond, $1.35 million per year

- **USACE 1135 Aquatic Ecosystem Restoration Program**
  - Restoration of critical aquatic habitat
  - 75-25 Construction Cost Share, $10 Million Federal Limit
  - Feasibility Study and Concept Design is fully funded

- **Transportation Alternative Program (TAP)**
  - Federal Highway, administered through KDOT
  - 80-20 Construction Cost Share
  - First phase awarded

- **EPA, CDBG, Private- Potentials**
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