

# TRANSPORTATION, INFRASTRUCTURE & OPERATIONS COMMITTEE

NOVEMBER 6, 2019



Inflow and Infiltration (I/I) Reduction: North of the River

Authorizing a \$950,000.00 Design Professional Services Contract with Lamp Rynearson, Inc., for the Inflow and Infiltration (I/I) Reduction: North of the River project; and authorizing a maximum expenditure of \$2,000,000.00.

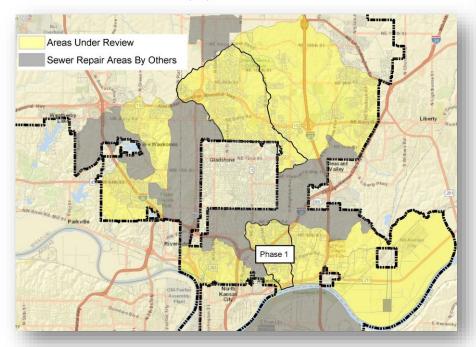


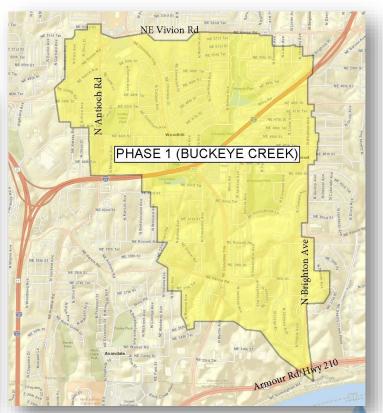
# GSI IN SMART SEWER PROJECTS

SSP Program Element	GSI Implementation Potential
Diversion Structure & Sewer Pipe Consolidation	High
Green Infrastructure	High
I/I Reduction	Low
Neighborhood Sewer Rehabilitation	Medium
Pumping & Conveyance	Medium
Sewer Separation	High
Storage & Conveyance	Low
Treatment	Low



Inflow and Infiltration (I/I) Reduction: North of the River





Inflow and Infiltration (I/I) Reduction: North of the River





Public Outreach

Letters

Door Hangers Street Signs

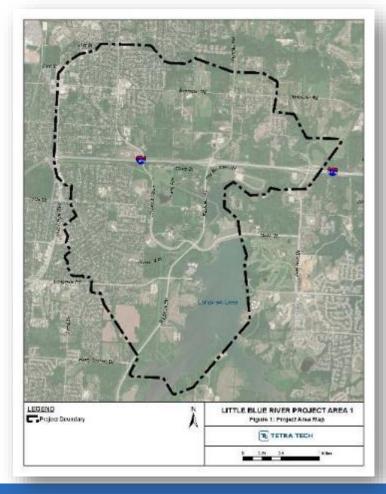


Little Blue River Basin Project Area 1 Inflow and Infiltration (I/I) Reduction Project

Authorizing a \$8,282,600.00 construction contract with The Havens Construction Company, Inc., for the Little Blue River Basin Project Area 1 Inflow and Infiltration (I/I) Reduction project; and authorizing a maximum expenditure of \$9,111,000.00; authorizing a \$730,000.00 Design Professional Services Amendment No. 2 to Contract No. 1350 with Tetra Tech for the Little Blue River Basin Project Area 1 Inflow and Infiltration (I/I) Reduction project.

smartsewer

Little Blue River Basin Project Area 1 Inflow and Infiltration (I/I) Reduction Project





Little Blue River Basin Project Area 1 Inflow and Infiltration (I/I) Reduction Project



**Public** Outreach

Letters



smartsewer

City of Kansas Cop, Missouri 17th Coas, Clas Rell 4 (18th at 12th Saint School City, School City, 50

Sec. 55.5

D4111

The City of Kansus City, Misseuri is washing to improve the sower system in y my Harland every Canadala-Phase Epichair ology. This process commons operations in diagram, and in both a times and analytical way to enhability to be

During construction our creas will primarily use prevailen text to kge, whi need to dig when point remains are removed. You may also notice a Dial old dissofts after a few boars and is not harmful to people or pets. When some sewers will have a Million of 90% yeard.

A short hanger still be placed on your date to notify state of the chief and tip officialing your server service will take place. On that day, places retinin the much as parellic multisered not my definitions, onching routings and estroice le refrectifed. Minimal me intone on age le acceptable

In 2010, the Cuty of Kinnag City: Missions' entered into a Constant Diser-Kennenmantel Detractor: Against to reduce the column and fingunary City's season system. Kansas City's Street, November area in a 25-year challenge. This Neighborhood here it shake litation on get is one by he longest infinitements: investment in the City's history.

Though you for your potions on we continue to improve our Challs. about the project or what to expeat, presse contact me as early at the attento Indeal Index

Sincerely.

Door

Hangers

WORK UNDERWAY Sanitary Sewer Rehabilitation

The City of Karase City, Me. a working to the city or name city, me, a sorrought of the sound system is yet as yet and photos of cangilities. The sorrought of the city of the sorrought mean that desire construction our clears will only road to dig when power many one report we than your roads and an adjusted when power many are required to make the roads of fairs older, which and duchs after a the hours and it not harrifd to people or per, When complete the route land savery will have a ble sparse ( 80+ years)

and well take approximately 8-10 hours to complete.

MOTE Used year service is recentrated, refrain from using varies as much as possible and resid reverse dichesthers, eaching machines, charact, see. Miranul restroom inage is acceptable

> Street Signs



Smart Sewer Program Green Infrastructure Implementation Services

Authorizing a \$1,800,000.00 design professional services contract with Burns & McDonnell Engineering Company, Inc., for the Smart Sewer Program Green Infrastructure Implementation Services.



# PROJECT IMPLEMENTS GREEN INFRASTRUCTURE

- Implements Resolution 190760 Adopted 10/31/19
  - Green Stormwater Infrastructure (GSI) Manual
  - Smart Sewer Adaptive Management Plan
- Facilitates Interdepartmental Coordination
- Develops Higher Benefit Public Projects
- Meets Goals of the Overflow Control Program



# GSI IMPLEMENTATION SCOPE ITEMS

- Program Management
- Planning and Integration
- Implementation Guidance
- Basis of Design Guidance
- Training
- Maintenance Planning
- Public Communications and Outreach



# PROGRAM MANAGEMENT

- Management and Oversight of GSI program
- Identification of Collaborative Opportunities
- Coordination of Program Resources









# PLANNING AND INTEGRATION

- Interdepartmental Working Group
  - Develop process and procedures for GSI Implementation
  - Evaluate both public and private implementation requirements
- Update Design Standards
- Develop Budget Estimates for:
  - Staffing
  - Construction
  - Maintenance
- Prioritize Potential Projects



# IMPLEMENTATION GUIDANCE

- Develop process for GSI integration into ALL public projects
- Create a 1-year and 5-year GSI capital plan







GSI MAINTENANCE PLANNING

- Recommendations for
  - Funding
  - Communication
  - Training
  - Volunteer management
- Review
  - Existing strategies
  - How other communities are approaching
- Deliver
  - Technical report
  - Workforce development



# **GSI TRAINING**

#### Continue NGICP

4<sup>th</sup> Session

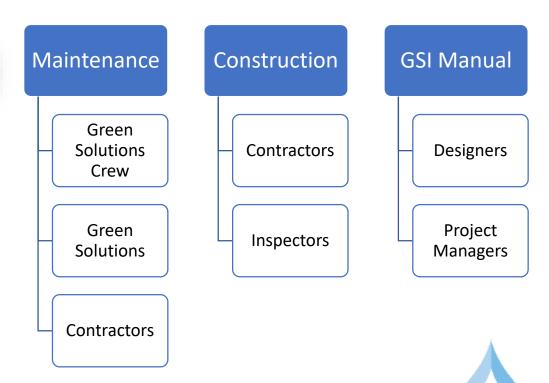


#### Develop

- Workshops
- Training Material
- On-line Resources

#### Audiences

- City Departments
- Contractors
- Consultants



# PUBLIC COMMUNICATION & OUTREACH

- Coordinated effort on GSI communications
- Create outreach materials that everyone can use
  - Build on the GSI Story Map
- Recognize other GSI outreach & education materials
  - MARC's Here We Grow Campaign
- Evaluate what others are doing
  - GI Exchange
  - Interview other cities
- Engage additional professionals to develop a detailed plan



Smart Sewer Program Green Infrastructure Implementation Services

## PROGRAM IMPLEMENTATION TEAM PARTNERS



















# THANK YOU

