Green Stormwater Infrastructure (GSI) Maintenance & Strengthening Our Community
February 5, 2019
Good Afternoon!

Presenters:

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Who builds GSI in KCMO?

- Typically constructed by private developers
- Design and installation is reviewed by City Planning Dept., Land Development Division
- Owners provide maintenance
- Inspected by KC Water Stormwater Utility Inspector

- Occasionally funded by grants or initiatives
- Typically no city maintenance or inspections provided

**City Project Enhancements**

- Constructed by all departments
- Consideration of enhancements is required by AR No. 5-5, "Green Team Solutions" effective 8/15/2011
- Maintenance responsibility varies by project
- Monitored by City’s Office of Environmental Quality under Green Solutions Reporting Requirement

**City Projects Which Address Specific Problems**

- Typically funded and built by KC Water and Smart Sewer Program
- Maintenance tracked by KC Water and Smart Sewer Program or project-specific arrangement

**KC’s Green Stormwater Infrastructure**

**Required Private Installations**

**Voluntary Private Installations**
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Focus Sites

KC’s Green Stormwater Infrastructure

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Maintenance Strategy

- Contracted Assistance
- KC Water Green Solutions Crew
- Green Stewards

Holistic Maintenance Approach
Maintenance Strategy

Contracted Assistance

KC Water Green Solutions Crew

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Holistic Maintenance Approach

Green Stewards

Today’s Focus
NGICP

• National Green Infrastructure Certification Program
• We are a partner organization and offer annual training and testing
• Available to Green Stewards and maintenance providers annually (also contractors and inspectors)
• Opportunity to train and test for NGICP Certification
• Requirement: 35 hours of training plus test
• [www.ngicp.org](http://www.ngicp.org)
Green Stewards Concept

- Conceived in 2014
- Designed to fill a need for skilled, interested maintenance providers that could be trained from entry level
- Contributes to workforce development funding quota outlined in the City’s Overflow Control Plan
- Seeks KCMO residents looking for a new career opportunity
Making Green Stewards a Reality

- Advertised February 2017 requesting proposals from non-profit organizations to implement the program
- Bridging The Gap was selected in June 2017
- Contract executed September 29, 2017
- Program kicked-off on October 12, 2017
- One year contract with two additional renewals
- Council authorized budget of $950,000 total over a three-year period
Green Stewards’ Sites

- City green stormwater infrastructure projects
- City right-of-way or property
- Combined sewer area
- Work is tracked using esri ArcCollector and Survey123
MBRB Pilot Project

*Shared with KC Water Green Solutions Crew*
Troost Ave. - 25\textsuperscript{th} to 30\textsuperscript{th} Streets
12th Street – McGee to Locust

- Rain Garden
- Planter
20th Street – SW Blvd. to Grand
Swope Campus GSI

*Shared with KC Water Green Solutions Crew*
Green Stewards’ Tasks

- Weekly litter and leaf debris removal
- Weekly weed, pest, and disease management
- Weekly verification of open flow pathways
- Bi-weekly forebay cleaning
- Monthly uphill curb cleaning (20 feet)
- Monthly silt removal and erosion repair, followed by touch-up mulching
- Quarterly pruning and trimming
- Quarterly top-dressing of mulch (as needed)
- Semi-annual inspection for dead plants and providing a list
- Assist with planting replacement plants
- Watering of replacement plants
Stewards’ Skills Development

- Landscape maintenance within GSI
- Hydrology and functionality assessment
- NGICP training and examination
  - 40 hours of classroom training
  - 3 hour examination with approximately 150 questions
Long Term ‘Graduation’ Goals

- **Professional Advancement**
  - 2-3 years in program
  - Ultimate goal is gainful employment in GSI or related field
    - City Green Solutions crew
    - Private sector landscaping companies
    - Construction trades
    - Advancement within Bridging The Gap

- **Personal Development**
  - Long-term employment
  - Transportation barriers lifted
  - Credentials/Completion of diplomas, driver’s licenses
  - Learning new skills
Lessons Learned – Year 1

• Recruitment partnerships
  – Local service organizations
  – Re-entry services

• Performance Assessments
  – 3/6/9 month merit assessment ($$$)
  – Quality control of GSI
  – Personal growth milestones

• Soft skills
  – Digital literacy
  – Job training & resource development
  – Budgeting
  – Professional & performance expectations
THANK YOU.