

3/13/2024

#### Contract Number:

SNEPWG-19-7-WRWC

#### **Grant Period:**

September 1, 2019 – December 31, 2023

### FINAL CLOSEOUT REPORT

Through December 31, 2023

## Greening the Woonasquatucket River Greenway

Using Green Infrastructure to Improve Water Quality and Make Environmental Justice Communities More Resilient



Project Leader/Report Contact Person: Alicia J. Lehrer 401-861-9046 ALEHRER@WRWC.ORG

### Greening the Woonasquatucket River Greenway Project Report – Narrative

#### **Project Overall Goals:**

- 1. Reduce nutrients to the Woonasquatucket River and Narragansett Bay ecosystems by treating stormwater, especially from parking lots prior to entering the river.
- 2. Use an innovative approach developing partnerships along the existing Woonasquatucket River Greenway to best site nature based stormwater capture and treatment practices that enhance the communities in which they are located and improve natural ecosystems.
- 3. Establish and support sustainable partnerships between the WRWC, Farm Fresh Rhode Island (FFRI), RIDOT and the communities this project serves. F
- 4. Create environmental equity by providing flood protection, summer heat reduction, opportunities for entry level jobs through the WRWC's existing River Rangers program, general wellness to high minority, low-status communities, and bring new life and greenery to urban landscapes.
- 5. Foster adaptation to climate change through flood storage and reducing urban heat islands.

#### **Project Long Term Objectives:**

- 1. Improve water quality in the Woonasquatucket River targeting nutrients, bacteria, solids thereby also improving water quality in Narragansett Bay
- 2. Increase flood storage capacity in the Woonasquatucket Watershed, reducing hazard flooding and building climate resilience
- 3. Build and employ a local workforce to install and maintain green infrastructure so that we have a trained crew ready build on the success of this project and others like it
- 4. Reduce the urban summer heat stresses on community residents, specifically those that need it most in Olneyville, one of the city hot spots
- 5. Improve the look, feel, and enjoyment of the entire Woonasquatucket River Greenway corridor, encouraging more pleasurable outdoor recreation and healthy lifestyles
- 6. Improve habitat along the Greenway for pollinators, birds, mammals, and river life
- 7. Provide an example of how long-term collaborations can make significant, measurable improvements to the environment
- 8. Build capacity of residents in urban, climate-threatened communities to understand and prepare for climate change, become more resilient, and become participants and stewards in the process
- 9. Provide an example of how a transit, recreation and an urban river corridor can be the perfect opportunity to provide all the above

#### **Results & Progress to Date:**

#### Activities Carried Out this Reporting Period:

- 1) Task 1 Install 3 WRWC pilot projects
  - a) The Woonasquatucket River Rangers continue to maintain green infrastructure landscapes to assure excellent function of all site green infrastructure.
- 2) Task 2 Ribbon Cuttings, Press Events, Pilot Tours:
  - a) Senate Site Visit to Farm Fresh & Tour July 31, 2023
  - b) Daniel Hayden tour of Farm Fresh, October 6, 2023



- 3) Task 3 Complete Greening the Greenway (GTG) Plan Identify Top Ten Priority Projects: WRWC and RIDOT have completed a working priority matrix and map for use as our GTG Plan that we update as new potential projects arise (see attached recent meeting minutes from WRWC/RIDOT/Stantec (RIDOT's on-call GI Design Consultant for more details on current projects).
  - a) WRWC has actively begun or completed the design process for our next top GTG projects:
    - i) Greystone Social Club, 3 Greystone Ave, North Providence, RI 02911. We redesigned their overflow parking adjacent to the river with grass reinforcement paving along with a bioretention basin for overflow. Project complete.
    - ii) Cathedral Art Metal Co. Inc., 25 Manton Ave, Providence RI. WRWC worked with property owner and construction contractor to depave portions of the parking lot, grade, add soil media and amenities to capture stormwater from the lot to prevent it running off directly into the Woonasquatucket.
    - iii) 100 Manton Ave LLC (Atlantic Mills), 100 Manton Ave, Providence, RI: The developer contacted WRWC in June to discuss opportunities for GI in their parking lot. We are in discussions with the Providence Redevelopment Association, under a Purchase and Sale Agreement with the current property owner, to determine how to proceed.
    - iv) The Puerta de Refugio Church, 247 Valley Street, Providence, RI: Parking lot retrofit completed. The Woonasquatucket River Rangers continue to maintain the GI.
    - v) Woonasquatucket River Greenway Extension on Kinsley Avenue & Promenade Street from Eagle Square to Providence Place Mall: Construction contractor selected. Construction to begin in March 2024. Woonasquatucket River Rangers to work with construction contractor on GI installation through the SNEP Natural Infrastructure Grant Program.
    - vi) Bath Street & Promenade: Our design consultant, courtesy of RIDOT Office of Stormwater completed the 60% designs. Final design and construction to be completed through the SNEP Natural Infrastructure Grant Program.
    - vii) Contech Medical, 99 Hartford Ave, Providence: Project not selected. No update.
    - viii)Preferred Equipment, 1 Goldsmith Street, Johnston: Final design and permitting completed, contractor selected, construction to begin March 2024. Woonasquatucket River Rangers built 8 rain boxes they will connect to downspouts around this site and plant in spring 2024 to capture and treat building runoff.
    - ix) Groden Network, 610 Manton Ave, Providence, RI: RIDOT's design consultant completed preliminary design and landscape plans. Final designs to be completed spring 2024 and constructed through RIDOT funding.
    - x) Licht Property parking lot, corner of Acorn and Kinsley, Providence, RI: WRWC's Civil Engineering designed the nature-based parking lot retrofit for this site to capture and treat stormwater prior to entering Woonasquatucket. Construction was completed December 2023.
- 4) Task 4 Get Landowner Consent for Top Four GTG Sites: Landowner consent for top four sites complete.



- 5) Task 5 Complete Designs for Top Four GTG Sites: In progress. Designs and construction now complete for Greystone Social Club and Peurta de Refugio. Preferred Equipment is at 30% design. The Woonasquatucket Greenway Extension 100% designs, project bid complete, contractor selected, construction starting March 2024.
- 6) Task 6 Bidding & Construction of Top Four GTG Sites: As described in Task 3 above, construction contractor selected for Kinsley/Promenade Greenway, Preferred Equipment Resource, Cathedral Art Metal, Licht Property.
- 7) Task 7 Press, Engagement and Tours of Completed Projects: WRWC jointly organized a press event with FFRI on May 23, 2023. Huge turnout. Senator Reed, Lt. Governor Matos, Providence Mayor Brett Smiley, RAE Tom Ardito, RIDEM Director Terry Gray, RIDOT Director Peter Alviti, Secretary of Commerce Elizabeth Tanner, FFRI Executive Director Jesse Rye, and WRWC Executive Director Alicia Lehrer spoke.
- 8) Task 8 Ongoing Project Maintenance: WRWC River Rangers are continuing maintenance on the Citizens Bank, Manton Avenue Tree Filter Pilots, FFRI and the Puerta de Refugio projects, and all other projects completed as described under task 3 through either RIDOT funding or direct payment from property owners.
- 9) Task 9 Project Reporting: This is our final project report.
- 10) Task 10 Project Coordination: WRWC coordinated all aspects of the project, met with the project teams and develop partnerships throughout the project period.

#### <u>Deliverables/Milestones Completed this Reporting Period:</u>

- Task 5 Contractor selected for Kinsley & Promenade Woonasquatucket Greenway Extension from Eagle Square to Downtown Providence. Contractor selected for Preferred Equipment. Contractor selected for Cathedral Art Metal and Licht Parking lot projects.
- Task 6 Construction of rainboxes completed for Preferred Equipment, construction of parking lot retrofits completed at Cathedral Art Metal and Licht Parking Lot on Acorn and Kinsley.
- Task 9 Final Report Completion.

<u>Progress toward Short and Long Term Objectives:</u> This reporting period, we made progress toward all of our overall goals and objectives by completing designs at Preferred Equipment, Cathedral Art Metal, and the Licht Parking lot. We also selected construction contractors for the Woonasquatucket Greenway, Preferred Equipment, Cathedral Art and Licht Parking Lot. We have also lined up several other projects for full design and construction under additional funding sources thanks to this source of funding.

#### Findings to Date & Lessons Learned:

1. QAPPs for these types of projects that do not actually involve monitoring take a lot of time and funding spent on consultants that could be better spent on the projects themselves and do not appreciably add to the quality of the project. We do not think it makes sense to continue requiring QAPPs from applicants or if they must be required, they should be completed not by the project applicants but by a SNEP consultant in partnership with EPA and with the assistance of the project team.



- 2. Working with private property owners is worthwhile as it builds community support for building in climate resilience while improving neighborhoods. However, the process, like any other, can include hitches. It requires patience, persistence and building strong community relationships.
- 3. Projects such as the ones in play through this grant are the perfect learning lab for WRWC's resident leaders, our Climate Champions or Campeones. They are followed the design and construction processes for DeSoto Street, the Licht Parking lot and Cathedral Art Retrofit. They will use knowledge gained through these projects to guide them in helping WRWC select future community greening projects using nature-based stormwater solutions (GI).

#### Challenges/Delays:

1. No challenges or delays for this final reporting period.



Work Remaining Under Current Contract – Revised Project Schedule:

Work Remaining Under Current Cont		
Task	Deliverables	Schedule
1a. Install 3 WRWC pilot projects complete with informational signage	Citizens Bank Stormwater Improvement Project: Bioretention basin & walkway with permeable paver borders, removal of impervious surface, pet waste station	Completed November 2019
	Greystone Stormwater Treatment Retrofit Project: 2 bioretention swales, replacement of traditional pavement with porous pavement	Completed Nov 2020
	Manton Avenue Tree Filters: 3-4 tree filters	Completed July 2020
1b. Install FFRI Food Hub Stormwater Management & Public Greenspace* a. Site Preparation: Remove existing slab,	a. Site readied for planting     b. Bioretention areas ready to receive plants	Aug 2019 – Sep 2020 Oct 2019 – Aug 2020
parking lot pavement, below grade obstructions; import clean fill & loam. b. Construction of Bio Retention Areas. c. Plant Materials and Planting	c. Select plant materials per design and install; construction administration by Landscape Architect	Completed November 2021
2a. Ribbon Cuttings, Press Events & Tours of WRWC Pilot Projects	1 press events held, 1 tour held, 30 or more residents attend tour	Two tours completed November 2021. One tour completed June 2023. Press event held May 2023.
2b. Press Event FFRI Food Hub	1 press event held, 1 tour held, 30 or more attendees	Tours held throughout 2021 for 68 attendees. Press event held May 2023, estimated 50 attendees, additional tours in July and October 2023.
3. Complete "Greening the Greenway" (GTG) Plan	Prioritization of projects based on cost-benefit to the community and water quality	Completed April 2020 and ongoing
	- Feasibility study & 10% design for top 9 projects with review of readily available subsurface utility & soil data; water quality calculations - Identification of Top 4 GTG Projects	Completed April 2020 and ongoing
4. Get consent/buy in of landowners for Top 4 Priority Projects	Letters of Agreement between landowners and WRWC & RIDOT for Top 4 GTG Projects; commence easement discussions	Consent/easement completed for three projects. Woonasquatucket Greenway Completed January 2023. Bath Street to be completed by May 2024.
5. Complete Designs for Top 4 Priority GTG sites	Survey, wetlands analysis, soil investigations	Three completed December 2021, two additional completed June 2022.
	Design plans, water quality calculations, opinions of construction cost	Three completed December 2021, two additional completed September 2023.
	Finalize easements	Two completed December 2021, three additional completed December 2023.



	RIDEM permitting applications & permits	All completed December 2023.
	Bid documents (construction plans & specifications)	Six completed December 2023.
6. Bidding & Construction of Top 4 Priority GTG sites	Competitive bid process; award contracts to contractors	All completed by December 2023.
	Construction of Top 4 Priority GTG projects	Construction of two completed by December 2021. Two more completed by December 2023.
	Construction substantial completion	Construction of two completed by December 2021. Two more completed by December 2023.
	Construction ready for final payment	Construction of two completed by December 2021. Two more completed by December 2023.
7. Press, engagement and tours of Completed Projects including FFRI Food Hub	3 + media outlets cover project, 3+ tours of project or elements engage 100 residents/partners	Over 11 tours completed with 160 residents/partners through May 2023. Additional press engagement held at FFRI May 2023.
8. Ongoing Project Maintenance	All GTG projects maintained throughout life of project and beyond	Aug 2019 – Aug 2024
9. Project Reporting	Semi-annual and final project reports	Completed Jan & July 2020, Jan & July 2021, Jan & July 2022, Jan & July 2023, March 2024.

#### Compliance:

WRWC has submitted a final, signed, approved QAPP.

#### Project Partners & Progress this Reporting Period:

- Rhode Island Department of Transportation (RIDOT) Continued partnership on project development discussions and selections of stormwater capture and treatment practices, managed and paid on-call engineering contractors for design services for Preferred Equipment and Bath Street.
- City of Providence Planning Department (Planning) Managed bid advertisement and contractor selection Woonasquatucket Greenway Extension.
- WRWC Climate Champions (Campeones) Resident leaders worked with WRWC learning siting, design and construction processes for DeSoto Street, Cathedral Art Metal, and the Licht Parking Lot. They also attended an 8 hour Stormwater 101 training with the Woonasquatucket River Rangers in July.

#### **Volunteer and Community Involvement:**



No volunteer involvement in Greening the Greenway projects this reporting period.

#### Outreach & Communications:

Nothing to report this period.



#### Project Budget Report

#### Summary Budget Table 1: Expenditures by Federal Cost Category

Budget Category	Total Budgeted Funds per Modification 2/29/24	Total Budgeted Match	Grant Funds Expended Invoice 10	Grant Funds Expended Cumulative	Match Funds Expended This Period	Match Funds Expended Cumulative	Match Source (note cash or in-kind)
Personnel	\$63,219	\$0	\$16,182	\$63,219	\$1,351	\$10,916	Cash, RIDOT Office of Stormwater for Maintenance of Greening the Greenway Projects, Farm Fresh Rhode Island payment to River Rangers for Green Infrastructure Maintenance
Fringe	\$20,863	\$0	\$5,330	\$20,863	\$0	\$1,024	Cash, RIDOT Office of Stormwater for Maintenance of Greening the Greenway Projects
Travel	\$3,843	\$0	\$0	\$3,843	\$0	<b>\$</b> 0	
Equipment	\$0	\$0	\$0	\$0	\$0	\$0	
Supplies	\$76,277	\$0	\$12,823	\$76,277	\$0	\$1,080	Cash, RIDOT Office of Stormwater for Maintenance of Greening the Greenway Projects
Contractual	\$58,525	\$80,000	\$58,375	\$58,525	\$0	\$66,980	Cash, Source of Funds: Rhode Island Housing Community Development Grant for Manton Ave Tree Filters project – purchase of Storm Trees and construction fees Cash, Source of Funds: RI Conservation Law Foundation Settlement Agreement - Iglesia Puerta De Refugio retrofit
Other	\$0	\$0	\$0	\$0	\$0	\$0	
Total Direct	\$222,727	\$80,000	\$92,710	\$222,728	\$1,351	\$80,000	
Indirect	\$22,273	\$0	\$9,271	\$22,272	\$0	<b>\$</b> 0	
Total	\$245,000	\$80,000	\$101,981	\$245,000	\$1,351	\$80,000	



Summary Budget Table 2: Expenditures by Project Task (Grant Funds Only)

Budget Category	Budgeted Funds	Expended Progress Period 1	Expended Progress Period 2	Expended Invoice 3	Expended Invoice 4	Expended Invoice 5	Expended Invoice 6	Expended Invoice 7	Expended Invoice 8	Expended Invoice 9	Expended Invoice 10	Actual Expended to Date
Task 1a – Install 3 WRWC pilots	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Task 1b – Install FFRI Stormwater	\$134,305	\$0	\$28,289	\$36,720	\$494	\$6,044	\$1,792	\$0	\$ 774	\$926	\$0	\$75,039
Task 2 – Press Events	\$4,000	\$0	\$0	\$276	\$0	\$0	\$0	\$0	\$0	\$422	\$560	\$1,258
Task 3 – Complete GTG Plan	\$5,000	\$0	\$4,000	\$1,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$5,000
Task 4 – Get landowner consent for top 4 GTG projects	\$4,000	\$0	\$1,000	\$0	\$0	\$0	\$0	\$0	\$113	\$961	\$2,487	\$4,561
Task 5 – Complete Design for top 4 GTG projects	\$0	\$0	\$0	\$0	\$249	\$0	\$0	\$0	\$0	\$0	\$0	\$249
Task 6 – Bidding & Construction	\$63,100	\$0	\$0	\$0	\$0	\$0	\$21,407	\$0	\$0	\$0	\$86,529	\$107,936
Task 7 – Press & Engagement on Completed Projects	\$3,000	\$0	\$0	\$1,771	\$0	\$879	\$7,368	\$0	\$0	\$0	\$0	\$10,017
Task 8 – Ongoing Project Maintenance	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	<b>\$</b> 0	\$0	\$0	\$0
Task 9 – Project Reporting	\$3,595	\$0	\$750	\$563	\$549	\$2,170	\$1,020	\$1,749	\$492	\$387	\$668	\$8,347
Task 10 – Project Coordination	\$28,000	\$1,165	\$3,171	\$6,113	\$434	\$3,005	\$3,186	\$3,781	\$0	\$0	\$11,737	\$32,591
Total	\$245,000	\$1,165	\$37,210	\$46,443	\$1,726	\$12,098	\$34,773	\$5,530	\$1,379	\$2,696	\$101,981	\$245,000



#### **Budget Narrative:**

#### Personnel:

Alby Pearson, River Ranger – 36 hours spent on Task 6 (construction) **Alicia Lehrer, Executive Director** – 34.09 hours spent on Tasks 9 and 10

Andrew deLisle, Senior River Ranger – 45.5 hours spent on Task 6 (construction)

Bridget Zwack, Environmental Engineer – 19.5 hours spent on Task 10 Cameron Sanders, River Ranger – 43 hours spent on Task 6 (construction)

Jacob Gorke, Greenway Manager – 71 hours spent on Task 6 (construction) and 10

**Lisa Aurecchia, Director of Projects** – 51 hours spent on Task 4, 6, and 10

Mackenzie Kourie, River Ranger – 20 hours spent on Task 6 (construction)

Mark Pereira, Civil Engineer – 128.5 hours spent on Tasks 4 and 10

**Peter Dear, Senior River Ranger** – 76.65 hours spent on Task 6 (construction)

Sam Blair, Stormwater Specialist – 17.5 hours spent on Tasks 6 and 10

**Tristan Corona, River Ranger** – 20 hours spent on Task 6 (construction)

**Fringe:** 33% Fringe Rate for WRWC Staff Supplies: \$12,823 Supplies for Rain Box Build

Travel: \$0 this project period

Contractual: \$58,375 DiCenzo Construction for depaying and grading on two GI projects

**Indirect:** 10% of direct project costs

#### Certification

The undersigned verifies that the descriptions of activities and expenditures in this progress report are accurate to the best of my knowledge; and that the activities were conducted in agreement with the grant contract. I also understand that matching fund levels established in the grant contract must be met.

Grantee Signature: Olicion J. Lehrer

Name: Alicia J. Lehrer

Job Title: Executive Director

**Date:** March 13, 2024

**Organization:** Woonasquatucket River Watershed Council (WRWC)



#### Appendix A

Citizens Bank Parking Lot Pilot Retrofit Before & After

And

Manton Avenue Tree Filters Designs





Parking Lot Prior to Retrofit



Completed Project





WRWC River Rangers Completing Landscape Installation at Pilot



### Nature is at work here!

We're creating a healthy community! This site uses nature to clean dirty stormwater and reduce flooding.

www.greeninfrastructureri.org



#### Clean

The rain garden removes sand, dirt and other pollutants from the rain water before it enters the Woonasquatucket River.



#### Protect

Absorbs rain and reduces flooding.



#### Economy

This land is protected and used by local residents and businesses. Green space increases property values for everyone.



#### San Souci Connector Rain Gardens

This site used to be a big parking lot, but it was changed to be better for people and wildlife. All the dirty water from the parking lot used to wash straight into the river. This path and garden now create a walkway that also cleans water, leading from Olneyville Square to the Woonasquatucket River. The brick around the walkway and the garden collect and filter dirty rain water that washes off the parking lot, making the river cleaner and Olneyville greener.



Removes hard surfaces that hold heat. Adds plants and trees that provide shade for people and wildlife.



#### Wellness

Provides cleaner air and places to rest outside, connecting people to nature in the city.



#### Habitat

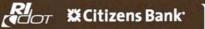
Attracts and feeds animals like butterflies, bees and birds. Butterflies and bees are really important to local farmers who provide fresh food.

















### La Naturaleza trabaja Aqui!

Estamos creando una comunidad saludable! Este sitio usa la naturaleza para limpiar agua sucia luvial y reducir inundacion.

www.greeninfrastructureri.org



#### Limpia

El jardin luvial elimina arena, tierra, y otros contaminantes de the aqua luvial antes de que entren en el Rio Woonasquatucket.



#### **Proteie**

Absorbe la lluvia y reduce inundacion.



#### Economia

Esta tierra es protegida y usado por los negocios y residentes locales. Espacio verdes suben el valor de la propiedad para todos.



#### Conectador de agua de Iluvia San Souci

Este sitio antes era un estacionamiento grande, pero se ha cambiando para ser mejor para las personas y fauna silvestre. Toda la aqua del estacionamiento antes se corria hacia el rio. Este camino y jardin ahora es un camino que tambien limpia agua, comensando en Olneyville Square hasta el Rio Woonasquatucket. El ladrio sobre el camino y el jardin, colectan y filtran agua sucia de lluvia, que pasa del estacionamiento, haciendo el rio mas limpio, y Olneyville mas verde.



Elimina duro superficies que sostienen calor. Agrega plantas y arboles que propocionan sombra para la gente y la fauna silvestre.



#### Buena Salud

Propociona aire limpio y lugares para comer afuera, conectando la gente a la naturaleza en la cuidad.



#### Habitar

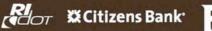
Atrae v alimenta animales como mariposas, abejas y pajaros. Mariposas y abejas son muy importantes para los granjeros locales que propocionan comida fresca.













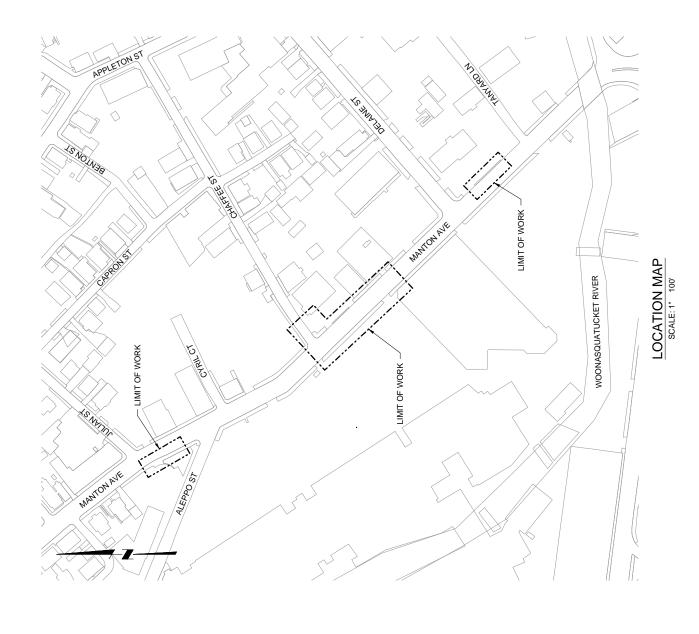


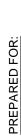
#### Manton Avenue Tree Filter Project



# *IREE FILTERS* JANUARY 16, 2020 CONSTRUCTION DOCUMENTS (REVISED) MANTON AVENUE 1

WOONASQUATUCKET RIVER WATERSHED COUNCIL





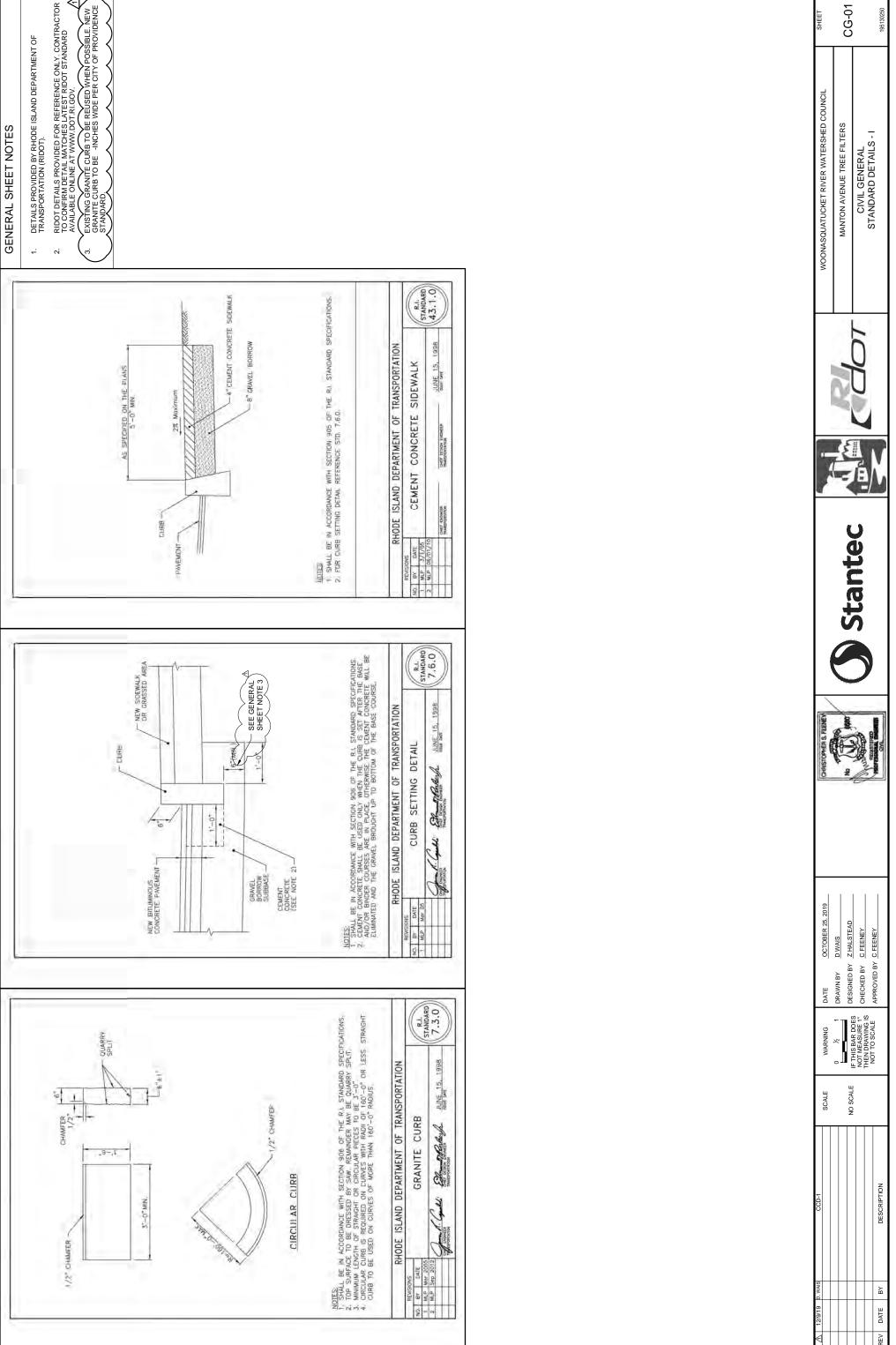


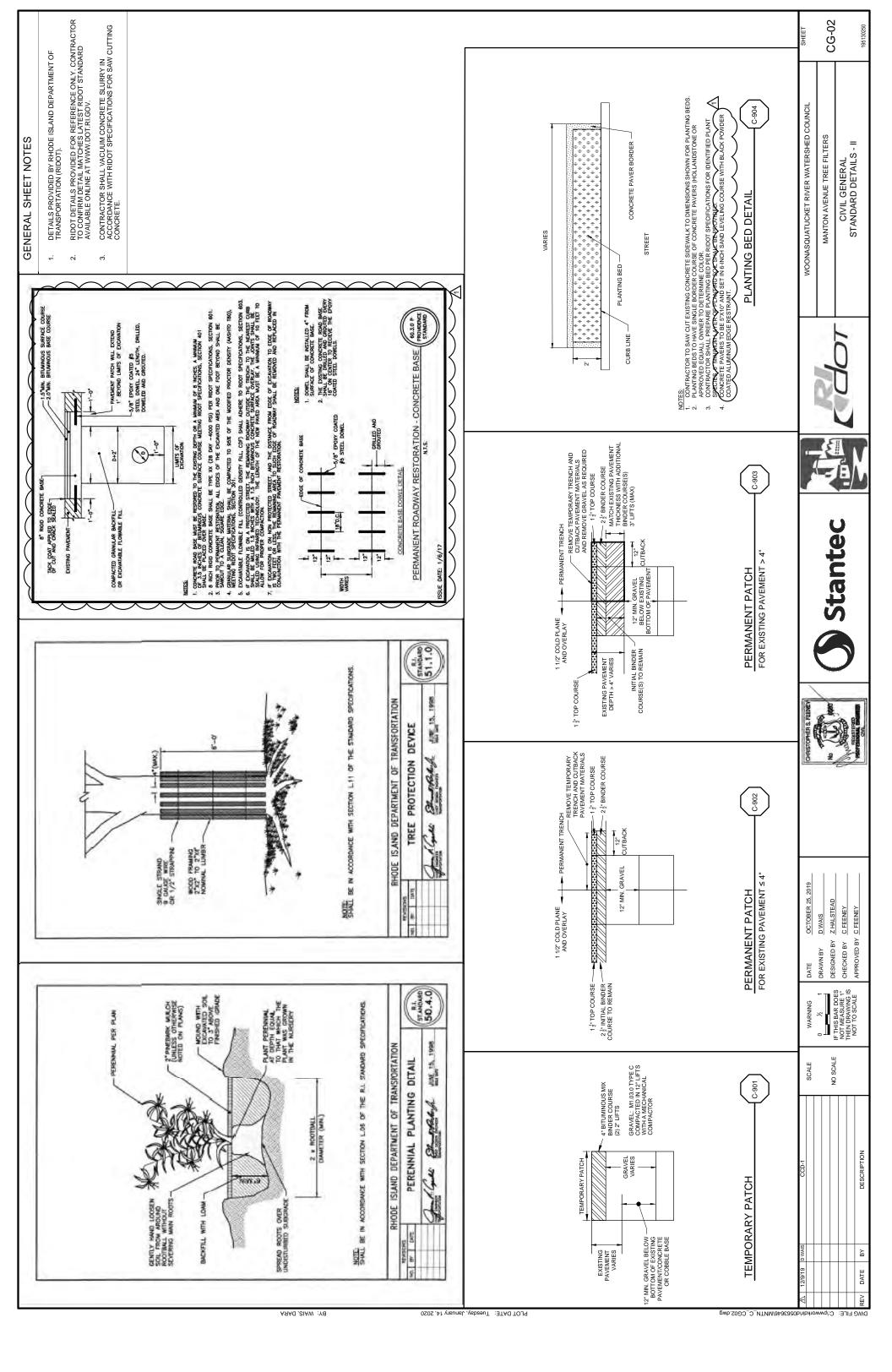


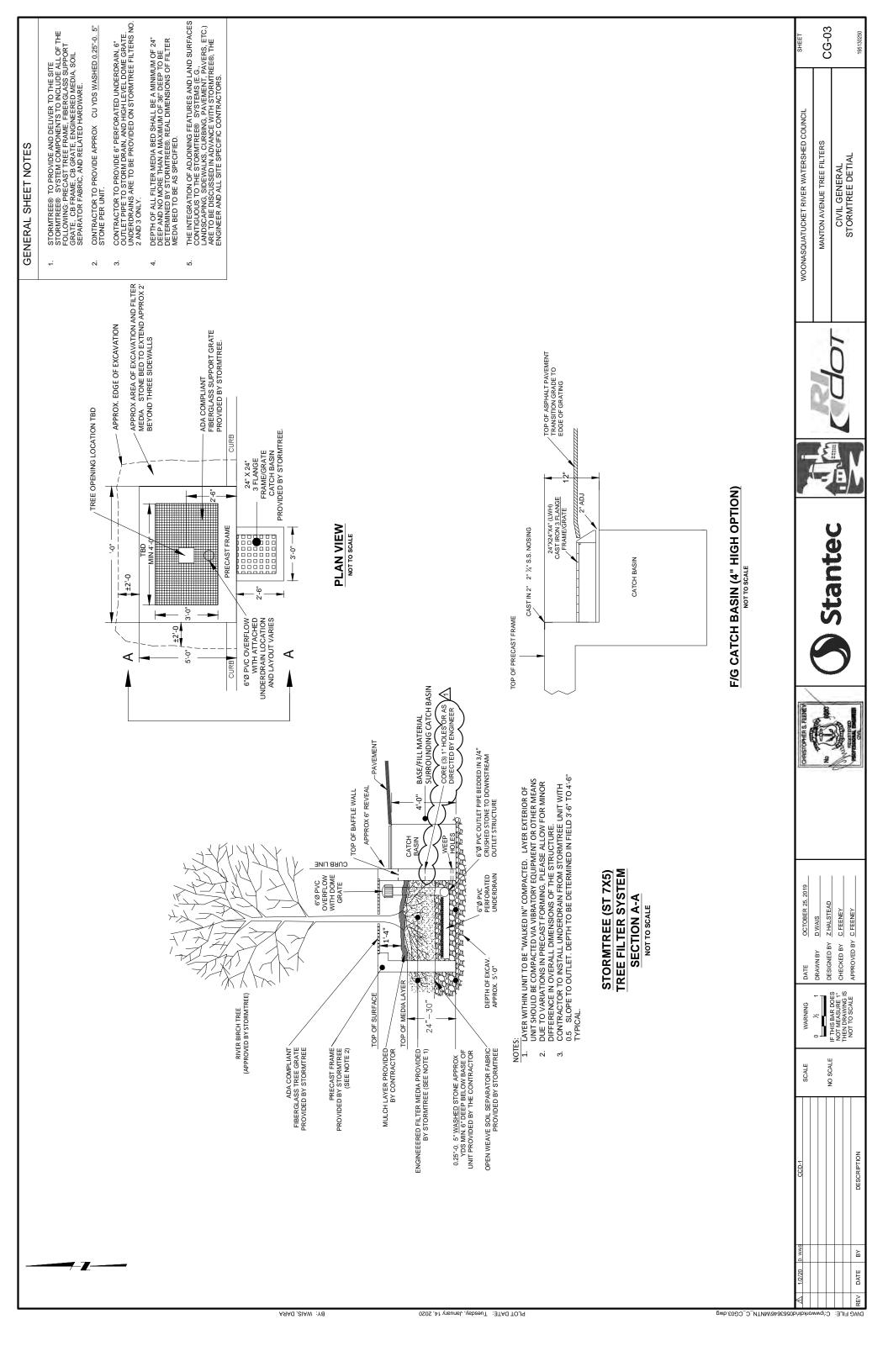


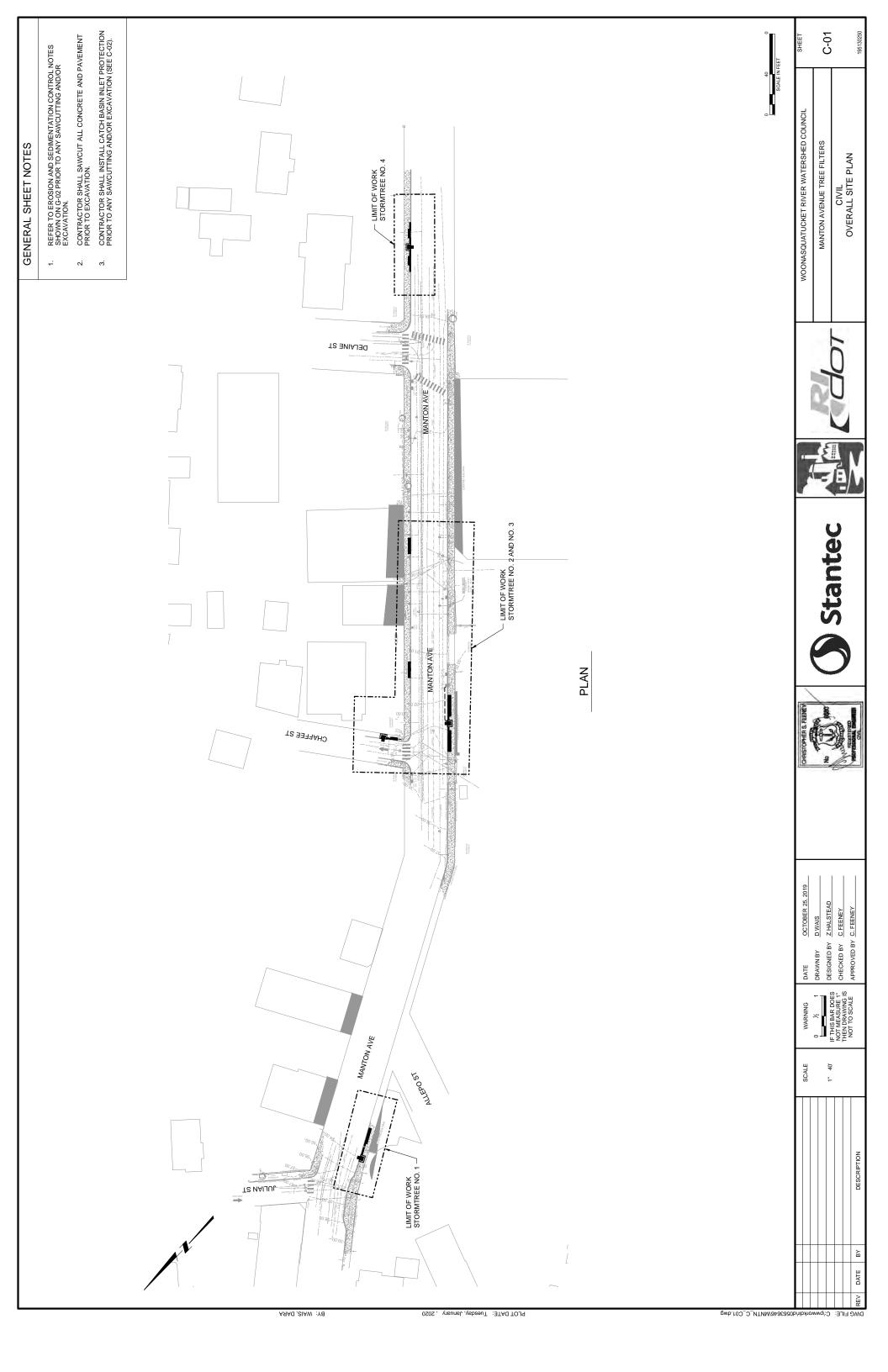


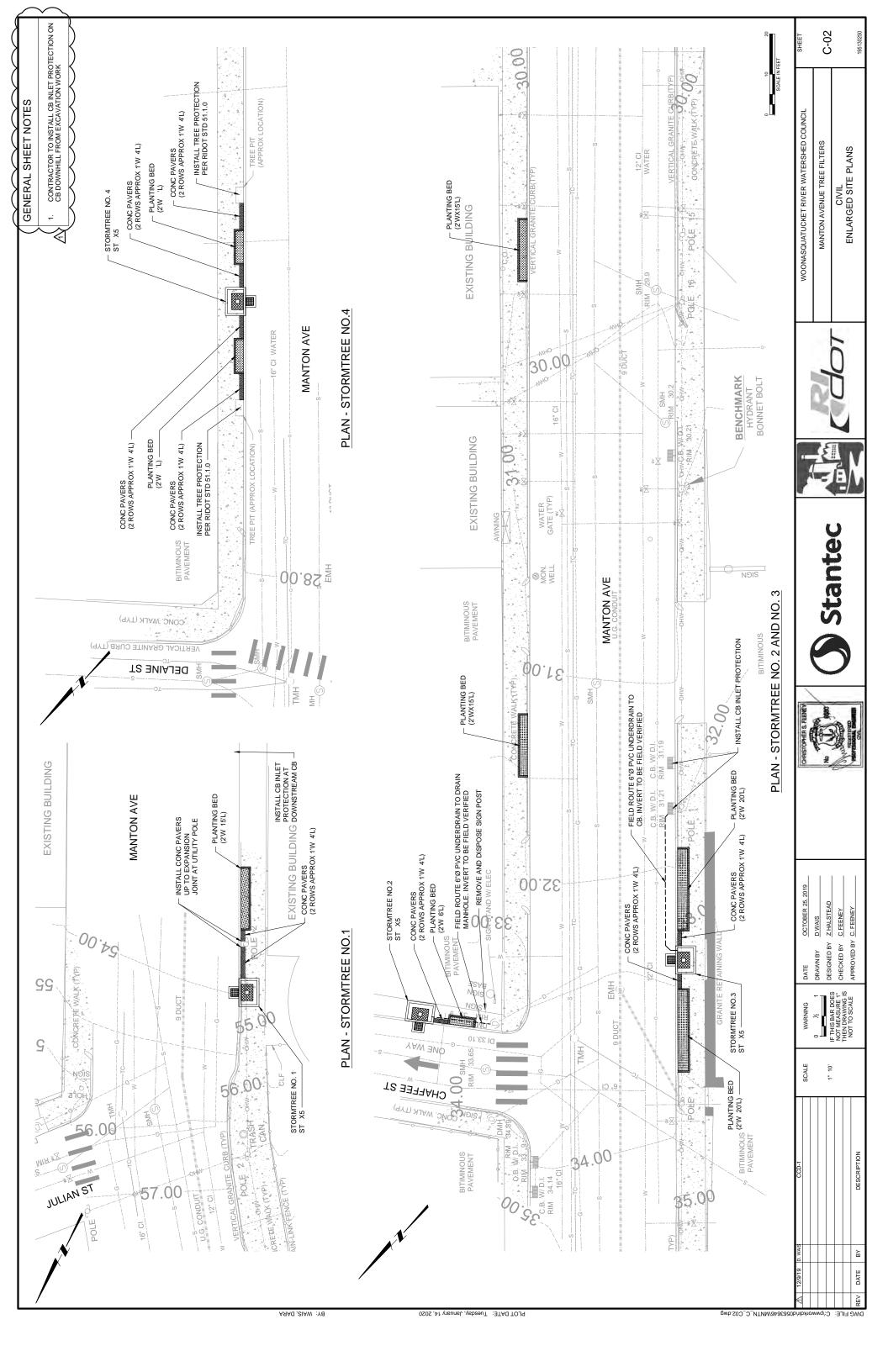
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	CONTRACTOR TO THEIR ORIGINAL CONDITION AT NO ADDITIONAL COST TO THE OWNER.	UTILITIES OF STRUCTURES SHALL BE THE CONTRACTORS RESPONSIBILITY. COSTS OF SUCH DAMAGE SHALL BE THE CONTRACTOR'S RESPONSIBILITY. NO EXCAVATION SHALL BE DONE UNTIL UTILITY COMPANIES ARE PROPERLY NOTIFIED.	CASTIRON	5
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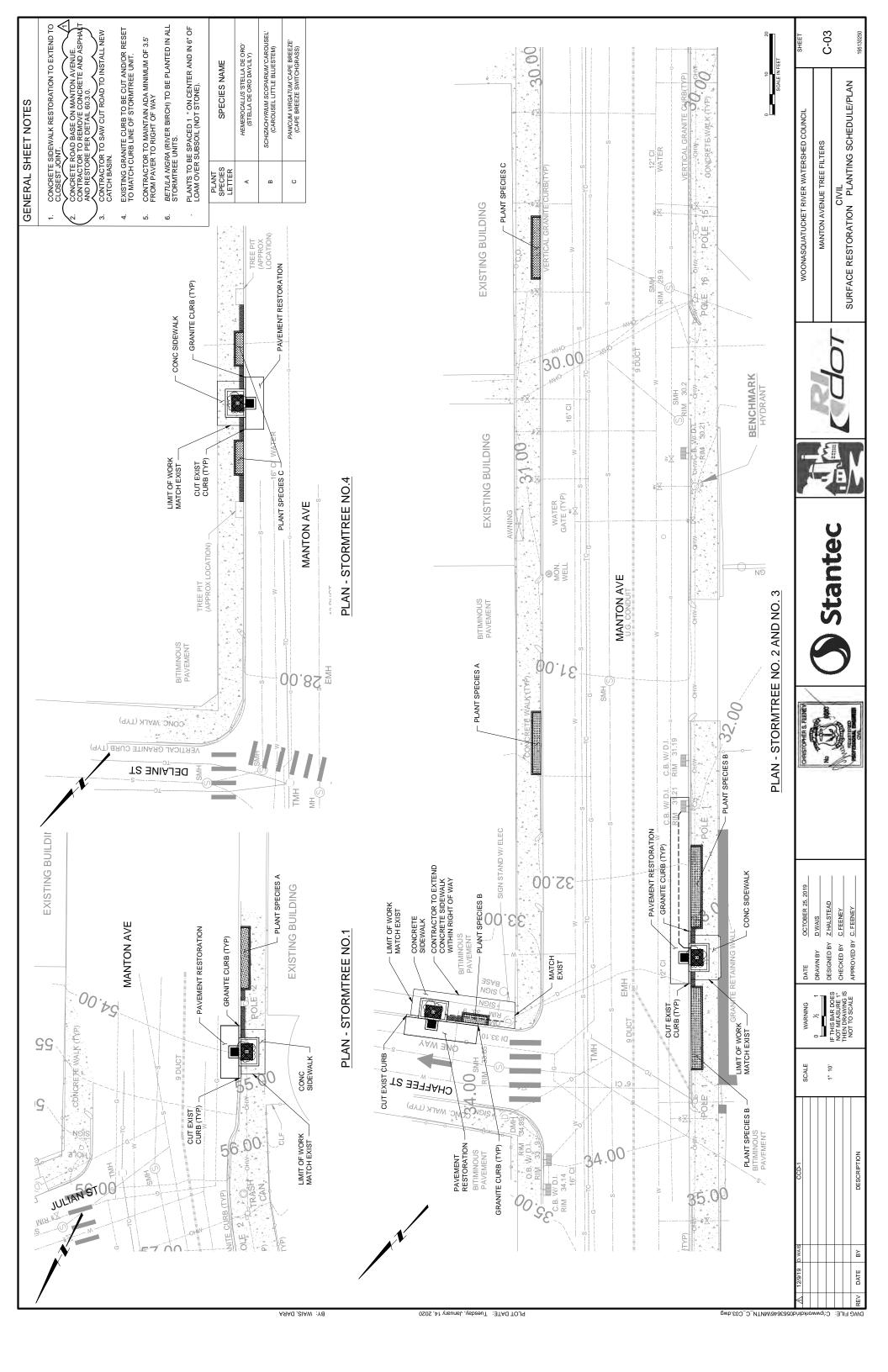












#### Appendix B

Manton Avenue Tree Filter Project
Pilot Before & After
Presentation



### **Greening & Cleaning Manton Ave**

#### Goals

- 1. Employ "Nature at Work" green infrastructure techniques along Manton Avenue to capture and treat stormwater runoff from the neighborhood, starting at Olneyville Square and moving northwest up Manton Avenue.
  - A. Install Tree Filters 4 Tree Filters w/ attached catch basins installed
  - B. Install other green landscape elements 8 sidewalk inset planting areas installed

# Site 1 - Manton Ave Near Delaine St. in front of Dunkin Donuts



# Site 1 - Manton Ave Near Delaine St. in front of Dunkin Donuts



# Site 2 – Manton Sidewalk next to Autozone (Just North of Delaine)



Looking toward Delaine

Site 2 - Manton Sidewalk next to Autozone (Just North of Delaine)



Looking toward Delaine



Looking toward Chaffee

# Site 3 – Manton Sidewalk in front of Atlantic Mills



Before

# Site 3 – Manton Sidewalk in front of Atlantic Mills





New Tree Filter w/ attached catch basin (close-up)

### Site 4 - Corner Manton & Chaffee



Looking down Chaffee from Manton



From Church Parking Lot on Manton

### Site 4 - Corner Manton & Chaffee



New Tree Filter w/ attached catch basin & new sidewalk planting bed on Chaffee



After

# Site 5 – Gasometer (Manton across from Julian)



Before

# Site 5 – Gasometer (Manton across from Julian)



New Tree Filter w/ attached catch basin



After

# Site 5 – Gasometer (Manton across from Julian)

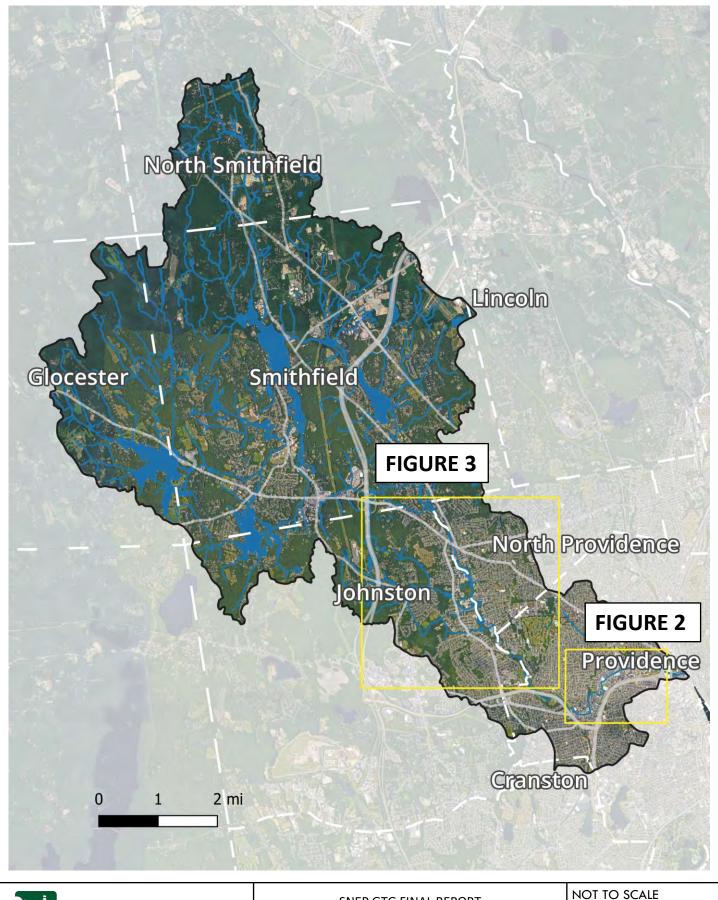


Close-up of Tree Filter

## Appendix C

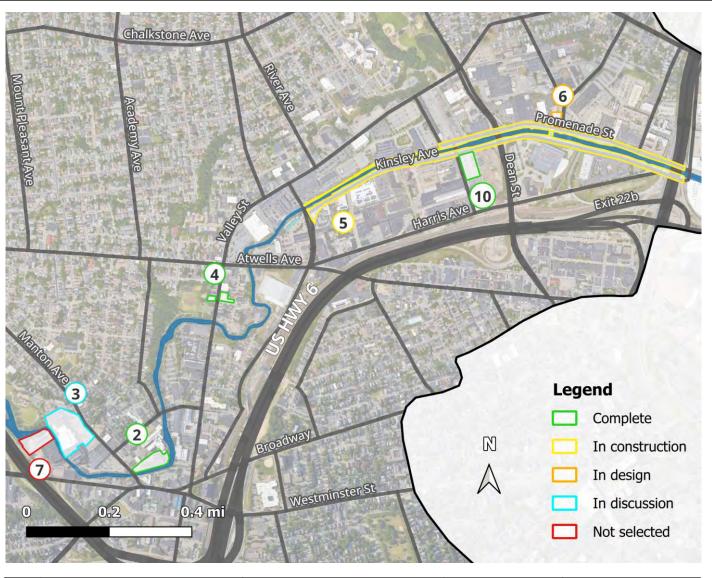
Greening the Greenway

Project Map





SNEP GTG FINAL REPORT
WOONASQUATUCKET RIVER WATERSHED—
OVERVIEW AND LOCUS MAP



SITE	NAME	ADDRESS	STATUS	COORDINATES
2	CATHEDRAL ART METAL CO, INC	25 MANTON AVE, PROVIDENCE	COMPLETE	41.81769891, - 71.44283174
3	100 MANTON AVE LLC (ATLANTIC MILLS)	100 MANTON AVE, PROVIDENCE	IN DISCUSSION	41.81876247, - 71.44682552
4	PUERTA DE REFUGIO	247 VALLEY ST, PROVIDENCE	COMPLETE	41.82336438, - 71.43950224
5	WOONASQUATUCKET RIVER GREENWAY EXTENSION	KINSLEY AVE & PROMENADE ST FROM EAGLE SQ TO PROVIDENCE PLACE MALL	IN CONSTRUCTION	41.82800074, - 71.43162808
6	BATH ST POCKET PARK	CORNER OF BATH ST & PROMENADE ST, PROVIDENCE	IN DESIGN	41.82966414, - 71.42380344
7	CONTECH MEDICAL	99 HARTFORD AVE, PROVIDENCE	NOT SELECTED	41.81834013, - 71.44817657
10	LICHT PROPERTY	CORNER OF ACORN ST & KINSLEY AVE, PROVIDENCE	COMPLETE	41.82804553, - 71.42801515



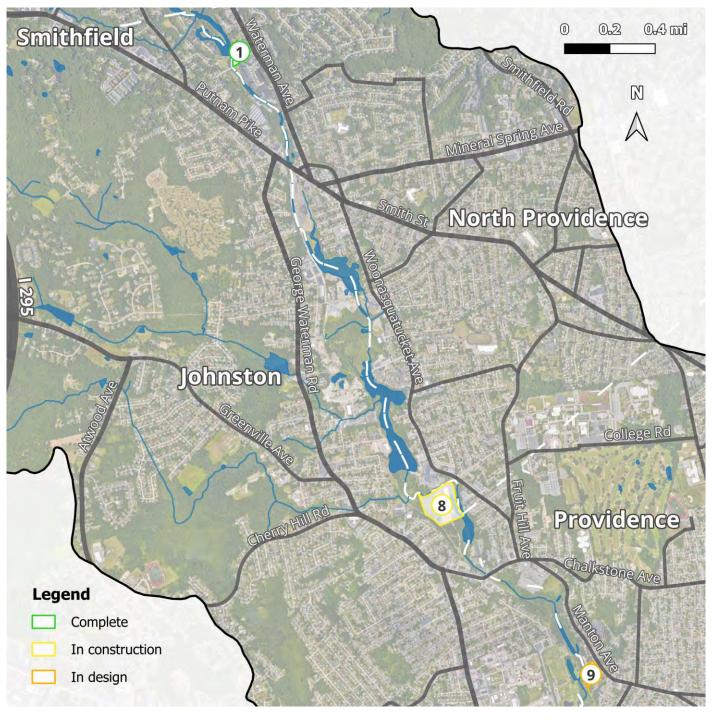
**WOONASQUATUCKET RIVER** 

WATERSHED COUNCIL

WRWC SNEP/GTG FINAL REPORT SITE MAP 1 PROVIDENCE, RI NOT TO SCALE

DATE: 04/10/2024

FIGURE 2



SITE	NAME	ADDRESS	STATUS	COORDINATES
1	GREYSTONE SOCIAL CLUB	3 GREYSTONE AVE, NORTH PROVIDENCE	COMPLETE	41.86601223, - 71.49217492
8	PREFERRED EQUIPMENT	1 GOLDSMITH ST, JOHNSTON	IN CONSTRUCTION	41.83750250, - 71.47412748
9	GRODEN NETWORK	610 MANTON AVE, PROVIDENCE	IN DESIGN	41.82651537, - 71.46168901



WOONASQUATUCKET RIVER WATERSHED COUNCIL

WRWC SNEP/GTG FINAL REPORT SITE MAP 2—PROVIDENCE, JOHNSTON, & NORTH PROVIDENCE, RI NOT TO SCALE

DATE: 04/10/2024

FIGURE 3

## Appendix D

Greystone Social Club Before & After



Greystone Before



Greystone After



## Appendix E

### Farm Fresh Food Hub Planting





River Rangers & TerraCorps Members Planting FFRI Food Hub GI



Greenway Program Director Pitching in While Overseeing FFRI Installation



## Appendix F

Photos of Iglesia Puerta De Refugio Parking Lot Green Infrastructure Retrofit Fall 2021

## Iglesia Puerta De Refugio

247 Valley Street, Providence, RI 02909

#### Main Parking Lot Pre-Construction



View from corner of Tuxedo & Amherst Street

Main Parking Lot Post-Construction





View from corner of Tuxedo & Amherst Street View from Amherst to corner of Valley Street Asphalt removed, swale created, irrigation installed, wildlife habitat landscape installed, chain link fence replaced with wooden guard rail.

## **Iglesia Puerta De Refugio** 247 Valley Street, Providence, RI 02909

Main Parking Lot Pre-Construction



View from Valley Street

Main Parking Lot Post-Construction

Corner of Amherst looking North on Valley Street

## Iglesia Puerta De Refugio

247 Valley Street, Providence, RI 02909

Main Parking Lot Green Infrastructure Construction October 2021 Woonasquatucket River Ranger Landscape Installation





Left to Right: Woonasquatucket River Ranger Andrew deLisle, Greenway Manager Jacob Gorke and River Ranger Sharad Wertheimer

## Iglesia Puerta De Refugio

247 Valley Street, Providence, RI 02909

Overflow Parking Lot Pre-Construction



Valley Street adjacent to Greenway & Donigian Park

Overflow Parking Lot Post-Construction

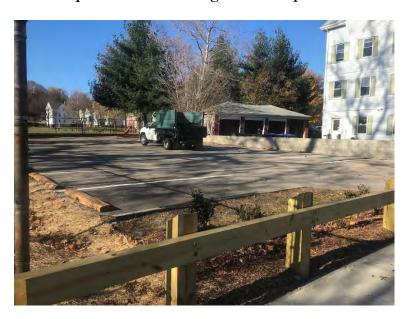




Asphalt removed, swale created, additional bioretention and tree wells installed, wildlife habitat landscape installed, chain link fence replaced with wooden guard rail.

## Iglesia Puerta De Refugio 247 Valley Street, Providence, RI 02909

#### Overflow Parking Lot Green Infrastructure Construction October 2021 Woonasquatucket River Ranger Landscape Installation







Greenway Manager Jacob Gorke (left) and Woonasquatucket River Ranger Sharad Wertheimer (right) install trees in the new bioretention areas.

## Appendix G

Preferred Equipment Green Infrastructure 60% Design Plans 09/27/2021



Progress Report #5



## Appendix H

Senator Reed Press Event Riverside Park Highlighting SNEP Program





#### **SNEP Event**

1 message

**Weinreich, Kyle (Reed)** <Kyle\_Weinreich@reed.senate.gov> To: "alehrer@wrwc.org" <alehrer@wrwc.org>

Thu, May 19, 2022 at 5:14 PM

Alicia,

Below is the draft press release if you could send me a quote it would be much apricated. I look, forward to seeing you tomorrow.

FOR IMMEDIATE RELEASE: May 20, 2022

**CONTACT:** Chip Unruh (Reed), 202-224-4642

A Watershed Moment for Southern New England Clean Water Restoration: Over \$43.6 Million in Pipeline for SNEP's Multi-State Watershed Cleanup & Conservation

**PROVIDENCE, RI** – What started nearly a decade ago when **U.S. Senator Jack Reed** secured a \$2 million appropriation to launch the Southeast New England Program (SNEP) for Coastal Watershed Restoration program in Fiscal Year 2014 has grown into a clean water success story with over \$43.6 million in federal funding and the appropriations pipeline flowing to revitalize local watersheds in Rhode Island and southern New England.

SNEP funding is administered through a partnership between the U.S. Environmental Protection Agency (EPA) and Restore America's Estuaries. The Southeast New England region consists of coastal areas in Massachusetts and Rhode Island, including areas around Narragansett Bay and Buzzards Bay. Federal SNEP funding is leveraged by state and local government and non-government organizations, including non-profits, community organizations, academic institutions, and businesses working collaboratively to maintain and improve water quality and habitat conditions within these coastal watersheds.

Today, Senator Reed, along with Congressmen Jim Langevin and David Cicilline, hosted EPA Deputy Administrator Janet McCabe and EPA Regional Administrator David Cash for a walking tour of Riverside Park, guided by Woonasquatucket River Watershed Council (WRWC) Executive Director Alicia Lehrer, and provided an update on how SNEP funds are making a difference across the state and region.

During the Industrial Revolution, Rhode Island's rivers -- and waterways throughout New England -- served residents by powering factories that provided jobs. As the population increased, communities sprouted up along Narraganset Bay and the Buzzards Bay watershed, leading to increased pollution and waste flowing into New England waters. And today, stormwater runoff, erosion, development, and infrastructure challenges affect the health of our rivers, streams, and watersheds.

Since 2015, federal SNEP funds have been used to clean up local waterways and create economic opportunities for surrounding communities.

This year, a total of \$9 million in SNEP eco-grants is being allocated for a variety of projects, including:

- \$3 million to Restore America's Estuaries for SNEP Watershed Implementation Grants.
- \$1 million to the New England Environmental Finance Center at University of Southern Maine for SNEP Network (Technical Assistance Network).
- \$750,000 to continue work on five SNEP Pilot Watershed Initiative grants, including the Woonasquatucket River Watershed Council's work to strengthen community capacity to improve river water quality, develop a community-centered climate resilience plan, and implement a sustainable funding mechanism for stormwater management and maintenance of green- and gray-water systems.
- \$500,000 to support BMP monitoring, outreach support, and developing water quality monitoring plans for the five pilot watersheds and an upcoming SNEP State of the Region Report.
- \$250,000 to the Buzzards Bay National Estuary Program to continue restoring water and habitat quality.
- \$150,000 to bolster community capacity building efforts in the region.

Additionally, thanks to the recently enacted Infrastructure Investment and Jobs Act (P.L. 117-58), an additional \$15 million will flow to SNEP over the next five years. EPA plans to allocate \$2.3 million in FY 22 toward the development of a Responsible Management Entities (RMEs) strategy and installation of innovative/alternative septic systems in Rhode Island and Massachusetts. Additional funds will also go toward helping the U.S. Geological Survey study groundwater nitrogen and bacterial concentrations related to septic systems.

"We want our communities and waterways to be clean, healthy, and connected. Our watersheds are ecologically and economically important. This federal watershed conservation funding helps bring people together to solve big challenges and clean up the Bay and other waterways in a strategic, coordinated manner that benefits the entire region," said **Senator Reed**, a senior member of the Senate Appropriations Committee.

Langevin Quote

Cicilline Quote

"EPA is grateful that the Bipartisan Infrastructure Law is providing our Southeastern New England Program for Coastal Watershed Restoration with an additional \$15 million over five years. These funds will make a real and lasting difference, especially in disadvantaged communities who are most vulnerable to the impacts of climate change, allowing the program to make further investments in the health and resiliency of all of our coastal communities. I want to thank Senator Reed for his partnership in helping to ensure that Rhode Island has a clean and healthy environment that can serve as the foundation for prosperous local economies and communities," said **EPA Deputy Administrator Janet McCabe**.

"The SNEP program is a testament to the power that a successful federal, state and grassroots partnership can make. Right here in Rhode Island and throughout southeastern New England, coastal communities are searching for solutions to environmental challenges including climate change impacts, elevated nutrient levels harming water quality, and protecting communities that have been overburdened by environmental impacts. During the past several years, we've already seen that SNEP efforts are making tangible strides in helping communities to develop and test solutions to these problems," said **EPA New England Regional Administrator David W. Cash**.

Woonasquatucket River Watershed Council

Tom Ardito Quote

-end-

Kyle Weinreich

**Deputy Press Secretary** 

Office of U.S. Senator Jack Reed

U.S. Federal Courthouse, Room 408

One Exchange Terrace

Providence, RI 02903

Office: (401) 528-5200

Cell: (401) 793-6588

Kyle weinreich@reed.senate.gov



## Reed delivers millions of dollars in federal grants for Watershed Wellness

May 20, 2022 10:28 am by Kevin Perrington-Turner (https://www.abc6.com/author/kturnerabc6-com/)



Sen. Jack Reed is seen hosting a tour at Riverside Park in Providence, Friday, May 20, 2022. (WLNE)

PROVIDENCE, R.I. (WLNE) — Rhode Island Sen. Jack Reed will host a tour to local and state officials to give an update on the \$43.6 million federal grant through the Southeast New England Program for Coastal Watershed Restoration program in Providence.

The tour will be guided by the Woonasquatucket River Watershed Council executive director Alicia Lehrer and will begin at noon at Riverside Park.

The U.S. Environmental Protection Agency, deputy administrator Janet McCabe, and EPA regional administrator David Cash, along with Reps. David Cicilline and Jim Langevin will also be at the event.

Reed launched the program in 2014. The funding will be to revitalize local watersheds in Rhode Island and Southern New England, including WRWC's efforts in Riverside Park.

ABC 6 News will be streaming this event on our website.

Categories: News (https://www.abc6.com/category/news/)

### **TOP VIDEOS**



Barrington family forced from their home amidst rising Rhode Island rent

## Appendix I

Minutes from GTG Team Meeting – June 2022





## **Meeting Minutes**

#### **RIDOT WRWC Meeting**

195130250 / WRWC\_Meeting\_Minutes\_051922

Date/Time: June 24, 2022 / 11:30 AM Eastern Time

Place: Microsoft Teams

Meeting Title: RIDOT-WRWC Project Updates

Attendees: Alisa Richardson, RIDOT

Lisa Aurecchia, Clare Brown, WRWC Chris Feeney, Dara Wais, Stantec

Absentees: Alicia Lehrer, WRWC
Distribution: Attendees & Absentees

#### Salmon Street

1. WRWC noticed the end of the Salmon St roadway dumps and creates a massive pit at the end of the road that floods. DPW threw a bunch of asphalt there

- 2. WRWC, Providence Housing Authority, Providence Department of Public Works, and Stantec met at Salmon St May 19, 2022 to discuss current uses and issues, inspecting existing drainage structures, and land and stormwater ownership
- 3. Flow does not discharge directly to the waterbody
- 4. RIDOT could not find feasible way to pursue project. Stantec will not proceed with this project.

#### **Bath Street**

- 1. PRA came to an agreement with Lumen for a permanent easement on the property at the corner of 373 Promenade Street and Bath Street, with an easement area of ~6,500 square feet. PRA is currently receiving 90% comments from RIDOT an are hoping to finish plans in September.
- 2. Fuss & O'Neill conducted Phase II soil sampling in March, using the City's brownfields assessment grant
- 3. McMahon is at 90% design for the slip lane design from Bath St to Promenade St. WRWC will send plans to Stantec.
- 4. Alicia considers expanding the Promenade area a priority and is very interested in a pocket park or greening on this Bath St property. WRWC previously mentioned they can put SNEP funding towards construction.
- 5. RIDOT supports Stantec creating a feasibility 10% concept plan and cost estimate to see if this project is viable.
- 6. Because this is a small area, there is an opportunity to explore subsurface practices, such as a bioretention underground storage and other structures included in the RIDOT linear stormwater manual. Underground structures are expensive, so this project will likely need a funding match to implement anything substantial. Option for pervious pavements, trees, and directing flow from Bath St into this area and relevant drainage structures. Team will be careful of contaminated soils.

#### Preferred Equipment / Manton Fish Ladder

1. The survey has been conducted. We are waiting to receive the deliverable from Crossman Engineering mid next week. When this is received, Stantec will proceed with flushing out and furthering the design, stormwater credits, and potential outdoor classroom design concepts



June 24, 2022

#### RIDOT WRWC Meeting Page 2 of 2

- 2. Stantec tried to engage the WBE Applied Biosystems as a wetlands subconsultant, but their insurance was not approved by Stantec's sub prequalification requirements. After this valid attempt, Stantec and RIDOT will work on a request to move budget over from subconsultant to Stantec's direct labor to complete this work internally.
- 3. The EA Engineering permitting application number is 21-0212. Lisa will give the team a permitting update from EA Engineering.
- 4. Evan from Building Green Futures wants timing update for nursery idea. RIDOT landscape architects do not think Preferred is a good place for the nursery. RIDOT needs space for pollinators.

#### **Groden Network**

- 1. Stantec shared a draft concept (big picture and zoomed in aerial, with parcels, contours, drainage structures, proposed BMPs with catchment areas) with water quality pretreatment / restoration via sediment forebay, water quality swale with detention, path/bridge to Greenway, and flow-through bioretention/roof leader planter boxes.
  - a. The pretreatment area will be designed for easy maintenance/cleaning.
  - b. The water quality swale between the property and Greenway could have gabion baskets and check dams for detention.
  - c. To not add impervious area, gaps between boards or maybe metal mesh could be used for path to Greenway.
- 2. Stantec presented draft stormwater credits for the area.
  - a. RIDOT advised to delete the sediment forebay depaving row and count it as an infiltration basin.
  - b. RIDOT advised to use their water quality calculator, inputting the contributing area to receive credit for TSS (total suspended solids); expecting no credit for phosphorus, infiltration, and change in hydrography.

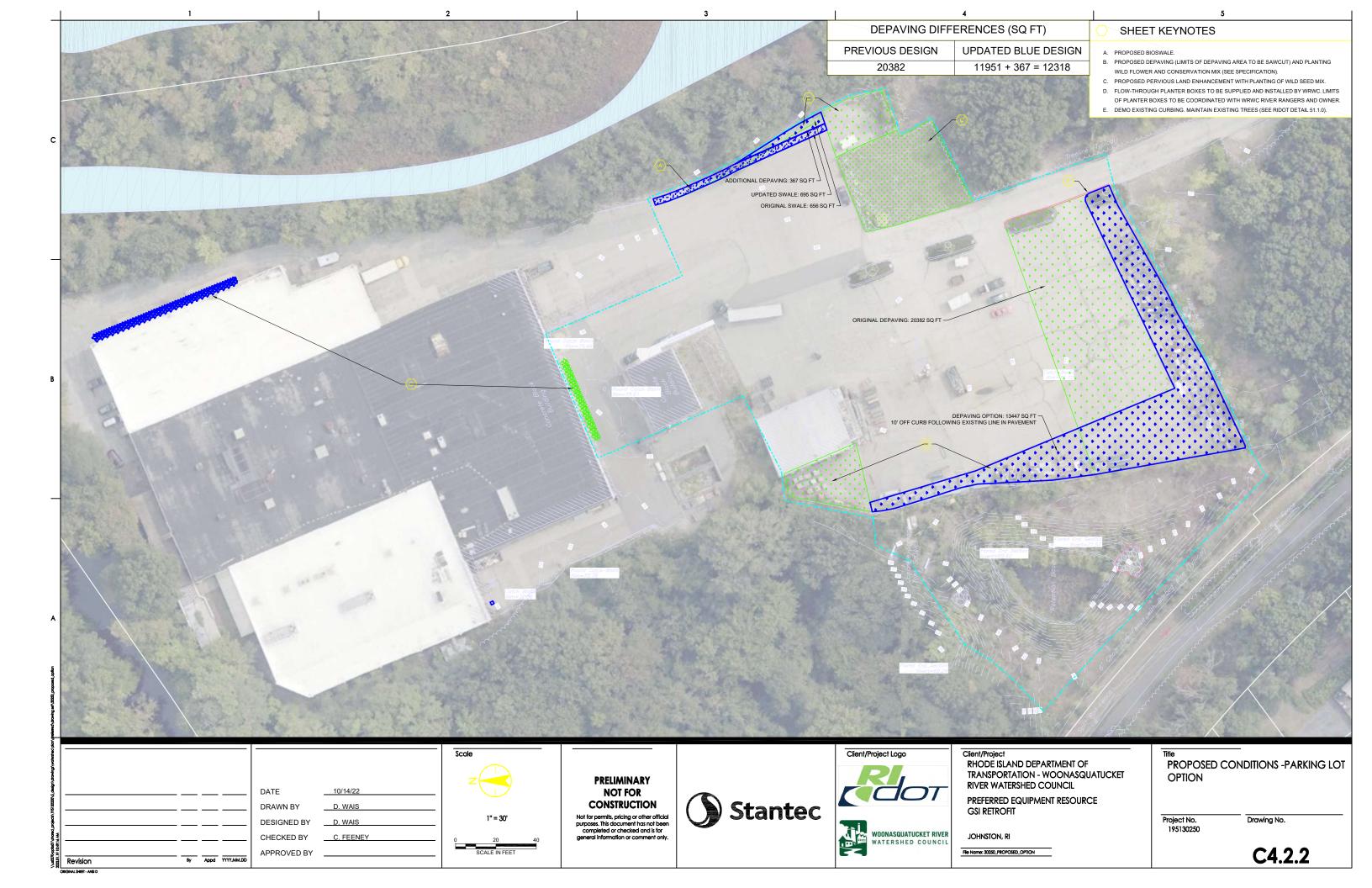
#### Dara Wais

Phone: 401-214-1742 Dara.Wais@Stantec.com

Stantec Consulting Services Inc.

## Appendix J

Completed Conceptual Designs for Preferred Equipment Site Retrofit



## Appendix K

Farm Fresh Signage and Press Event Pics



## Farm Fresh Signage Installed





### Press Event May 23, 2023

#### Celebration of FFRI/WRWC Partnership

#### For Green Infrastructure & Climate Resilience



Speakers Left to Right: Jesse Rye – Farm Fresh Rhode Island; Senator Jack Reed; Lieutenant Governor Sabina Matos; Providence Mayor Brett Smiley; Tom Ardito – SNEP RAE; RIDEM Director Terry Gray; RIDOT Director Peter Alviti; RI Secretary of Commerce Elizabeth Tanner; Alicia Lehrer – WRWC.



WRWC River Ranger Team and Lieutenant Governor Matos show off the signage that the River Rangers installed at Farm Fresh. This team also maintains the green FFRI's stormwater features.

## Appendix L

Cathedral Art Metal and Acorn & Promenade Street

Parking Lot Retrofits

Fall 2023

Before & After



## Cathedral Art Metal Retrofit Fall 2023

## Front Parking Lot





Before

After

## **Back Loading Area**





Before After

## Acorn & Kinsley Parking Lot Fall 2023





Before





After