

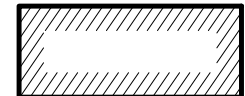




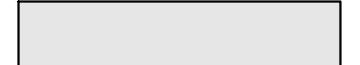


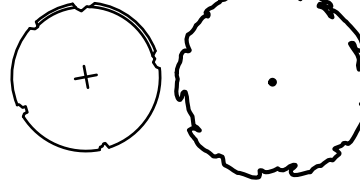
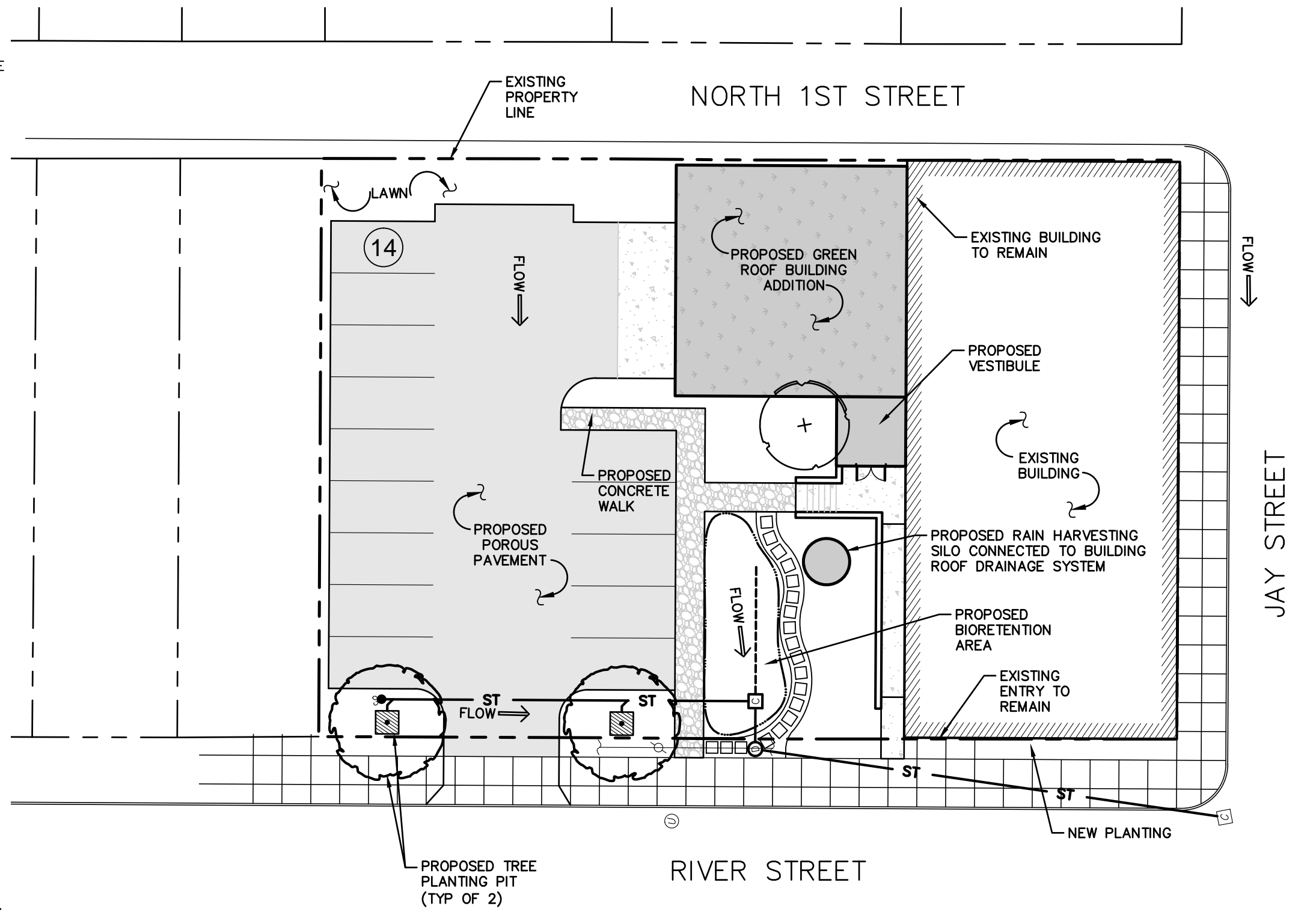
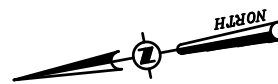
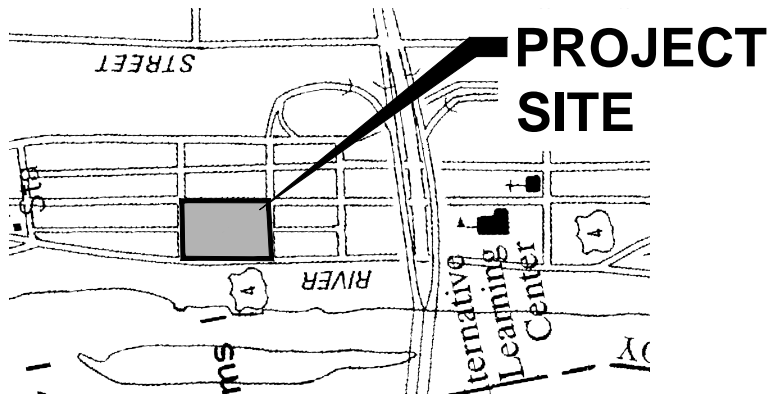


Appendix C: Green Infrastructure Documentation Form

LEGEND:

-  PROPOSED PROPERTY LINE
-  PROPOSED ADJACENT PROPERTY LINE
-  EXISTING BUILDING
-  PROPOSED BUILDING
-  PROPOSED GREEN ROOF BUILDING
-  PROPOSED SIDEWALK
-  PROPOSED CONCRETE SURFACE
-  POROUS PAVEMENT
-  PROPOSED PARKING COUNT
-  PROPOSED STORM PIPE
-  PROPOSED TREES



ISSUED FOR GREEN INNOVATIVE GRANT USE - NOT FOR CONSTRUCTION

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North Country Office:
100 Glen Street
Glens Falls, New York 12801
Phone: (518) 812-0513

CAPITAL DISTRICT COMMUNITY GARDENS

URBAN GROW CENTER

SUSTAINABLE SITE CONCEPT PLAN

CITY OF TROY, RENSELEAR COUNTY, NEW YORK

designed MMF	checked
date 7/11/12	scale 1"=20'
project no. 31231.00	
sheet no. SP1	

Drawing Name: S:\31200-31299\31299\31231_00\ENG\DWG\00_SP1_SITE LAYOUT PLAN_31231.00.dwg Date Printed: Jul 13, 2012, 4:15pm

Green Infrastructure for Stormwater Management Documentation Form

1. Community (Check one): Albany Troy Cohoes Rensselaer Watervliet Green Island

2. Project name: The Urban Grow Center

3. Site address: 594 River Street Troy, NY 12180

4. Planning Board Action Taken: Subdivision Approval; Site Plan Approval; Special Use Permit

5. Type(s) of Green Infrastructure (GI) practices employed on the site, check all that apply:

(Please refer to page 2 of this document for a table with descriptions of the practices below)

Runoff Reduction Techniques Employed in Final Application: Conservation of natural areas Sheetflow to riparian buffers or filter strips Vegetated open swale Tree planting / tree box Stream daylighting for redevelopment projects Rain garden Green roof Stormwater planter Rain tank/Cistern Porous Pavement Reduction in paved parking area

6. Estimated runoff reduction volume: 19,215 cu. feet/year

7. Projected water quality benefits: 15,000 gal/year water reuse, 7Lb./year Nitrogen reduction, 56.25 Lb./year Road salt reduction

8. Contact information for engineering / landscape architecture firm or individuals that designed the GI component the project: The Chazen Companies, Michael Flanagan P.E. 518-266-7337 Envision Architects, Jay Stasack, Mike Collard 518-462-1848

9. Contact information for entity responsible for the installation GI component of the project:

Greco Construction was General Contractor 518-465-1165, Harbor Roads was the pavement subcontractor 518-266-0690

10. Does the GI practice have a practice specific maintenance plan? Yes No Basic maintenance responsibility of owner. Porous pavement vacuumed twice yearly by Canaday sweepers@ annual cost of \$600

9a. If yes, please attach a copy of the maintenance plan and include estimated annual cost \$

11. Contact information for entity responsible for maintaining the GI component of the project:

Canaday Sweepers 518-357-0403

12. Name and contact information for person filling out this form: Matthew Schueler Grow Center Planner, Capital Roots 518-274-8685

13. Please attach an 8 ½" x 11" map of the proposed project illustrating the location(s) of GI practices.

14. Comments/notes: Although designed for one inch rain events, our system has weathered several events of more than an inch and has never yet sent water from our rain garden to the sewer.

When completed, the form shall sent by mail, fax or email to:

Appendix D: CSO Volume Reduction, Capture, and Population Data for 2015

Capture and Percent Reductions for all LTCP Appendix B Projects Completed During 2015 By Type								
Project Type	Project Name	Project Code	Project Location	Milestone(s)	Appendix B Deadline Dates	Action Performed	Annual Volume Captured (Mgal)	Annual Percent CSO Reduction (%)
Separation	George St. Sewer Separation	SSS-04	Cohoes	Operational Start up and Construction Completion Date	12/15/2017	6/11/2015	0.2000	0.0016
Separation	Partition St./Broadway Sewer and Drain Improvements	SSS-02	Rensselaer	Operational Start up and Construction Completion Date	12/31/2015	12/29/2015	2.0000	0.0016
Total by separation							2.2000	0.0032
Green Infrastructure	North Swan St. Green Infrastructure Project	GI-02	Albany	Construction Completion Date & Operational Start Up Date	12/15/2015	11/20/2015	0.0094	0.0049
Total by green infrastructure							0.0094	0.0049
Best Management Practices	Upgrade Pump Stations	BMP-03	Rensselaer	Operational Start up and Construction Completion Date	8/15/2015	8/10/2015	2.0000	0.0016
Total by best management practices							2.0000	0.0016
Total Capture and Percent Reductions for all Categories							4.2094	0.0097

Capture and Percent Reduction on Cumulative Basis for all LTCP Appendix B Projects During 2015 by Community								
Project Type	Project Name	Project Code	Project Location	Milestone	Appendix B Deadline Dates	Action Performed	Annual Volume Captured (Mgal)	Community Level Annual Percent CSO Reduction (%)
Green Infrastructure	North Swan St. Green Infrastructure Project	GI-02	Albany	Construction Completion Date & Operational Start Up Date	12/15/2015	11/20/2015	0.0094	0.0001
Total for the City of Albany							0.0094	0.0001
Best Management Practices	Upgrade Pump Stations	BMP-03	Rensselaer	Operational Start up and Construction Completion Date	8/15/2015	8/10/2015	2.0000	1.0000
Separation	Partition St./Broadway Sewer and Drain Improvements	SSS-02	Rensselaer	Operational Start up and Construction Completion Date	12/31/2015	12/29/2015	2.0000	1.0000
Total for the City of Rensselaer							2.0000	2.0000
Separation	George St. Sewer Separation	SSS-04	Cohoes	Operational Start up and Construction Completion Date	12/15/2017	6/11/2015	0.2000	0.0952
Total for the City of Cohoes							0.2000	0.0952

The annual volume captured is estimated based on the individual project parameters in conjunction with baseline wet-weather capture statistics documented in the Albany Pool CSO LTCP for a typical year. Annual percent CSO reductions were based on baseline annual overflows for the Albany Pool (1,236 MG); while the host community CSO volume reductions were based on the respective annual overflows volumes at the community level, as documented in the Albany Pool CSO LTCP.

Population Trends - 2015

Community	July, 2014	July, 2015	Change in population	Percent Change in Population
Albany	98,566	N/A		
Cohoes	16,212	N/A		
Rensselaer	9,471	N/A		
Total	124,249	0		

Population estimates are produced by the U.S. Census Bureau and are released on an annual basis. Due to the nature of the survey that supplies this data, population estimates are not available until the following calendar year; therefore, 2015 population estimates for the CSO communities will not be available until summer of 2016.

Capture and Percent Reductions for all LTCP Appendix B Projects Completed Prior to and During 2014 By Type

Project Type	Project Name	Project Code	Project Location	Milestone(s)	Appendix B Deadline Dates	Action Performed	Annual Volume Captured (Mgal)	Annual Percent CSO Reduction (%)
Separation	Upper Washington Ave. Groundwater Recharge	SSS-01	Albany	Operational Start up and Construction Completion Date	12/15/2015	5/30/2014	5.8000	0.1408
Separation	Melrose/Winthrop Groundwater Recharge Basins	SSS-03	Albany	Operational Start up and Construction Completion Date	12/15/2016	6/5/2014	5.8000	0.1408
Total by separation							11.6000	0.2816
Tributary Enhancements	Cross St. Trunk Sewer Rehabilitation Phase I	TE-02	Troy	Operational Start up and Construction Completion Date	12/15/2014	10/27/2014	0.0000	0.0000
Tributary Enhancements	Cross St. Sewer Outfall Repairs and/or Replacement	TE-01	Troy	Operational Start up and Construction Completion Date	12/15/2014	1/21/2015	0.0000	0.0000
Total by tributary enhancements							0.0000	0.0000
Green Infrastructure	Albany Ave. Green St. Project	GI-01	Green Island	Construction Completion Date & Operational Start Up	12/15/2014	6/25/2014	2.3000	0.0186
Total by green infrastructure							2.3000	0.0186
Best Management Practices	McCormack Pump Station Upgrades	BMP-02	Albany	Operational Start up and Construction Completion Date	9/30/2014	9/30/2014	0.0000	0.0000
Total by best management practices							0.0000	0.0000
Total Capture and Percent Reductions for all Categories							13.9000	0.3002

The annual volume captured is estimated based on the individual project parameters in conjunction with baseline wet-weather capture statistics documented in the Albany Pool CSO LTCP for a typical year. Annual percent CSO reductions were based on baseline annual overflows for the Albany Pool (1,236 MG); while the host community CSO volume reductions were based on the respective annual overflows volumes at the community level, as documented in the Albany Pool CSO LTCP.

Capture and Percent Reduction on Cumulative Basis for all LTCP Appendix B Projects Completed Prior to and During 2014 by Community

Project Type	Project Name	Project Code	Project Location	Milestone(s)	Appendix B Deadline Dates	Action Performed	Annual Volume Captured (Mgal)	Community Level Annual Percent CSO Reduction (%)
Separation	Upper Washington Ave. Groundwater Recharge	SSS-01	Albany	Operational Start up and Construction Completion Date	12/15/2015	5/30/2014	5.8000	0.2355
Separation	Melrose/Winthrop Groundwater Recharge Basins	SSS-03	Albany	Operational Start up and Construction Completion Date	12/15/2016	6/5/2014	5.8000	0.2355
Best Management Practices	McCormack Pump Station Upgrades	BMP-02	Albany	Operational Start up and Construction Completion Date	9/30/2014	9/30/2014	0.0000	0.0000
Total for the City of Albany							11.6000	0.4709
Tributary Enhancements	Cross St. Trunk Sewer Rehabilitation Phase I	TE-02	Troy	Operational Start up and Construction Completion Date	12/15/2014	10/27/2014	0.0000	0.0000
Tributary Enhancements	Cross St. Sewer Outfall Repairs and/or Replacement	TE-01	Troy	Operational Start up and Construction Completion Date	12/15/2014	1/21/2015	0.0000	0.0000
Total for the City of Troy							0.0000	0.0000
Green Infrastructure	Albany Ave. Green St. Project	GI-01	Green Island	Construction Completion Date & Operational Start Up Date	12/15/2014	6/25/2014	2.3000	5.0000
Total for the Village of Green Island							2.3000	5.0000

Population Trends - 2014

Community	July, 2013	July, 2014	Change in population	Percent Change in Population
Albany	98,628	98,566	-62	-0.06%
Troy	49,911	49,910	-1	0.00%
Green Island	2,625	2,618	-7	-0.27%
Total	151,164	151,094	-70	-0.05%

Population Data Source: Annual Estimates of the Resident Population, US Census Bureau, Population