West Side Park Green Infrastructure Information Sheet

Location:	Site Use:
600 S 17 th Street Newark, NJ	Park
	Watershed Name:
	Newark Bay / Kill Van Kull / Upper NY Bay
Ward:	Targeted Pollutants:
West	total nitrogen (TN), total phosphorus (TP), and total suspended solids (TSS) in surface runoff
Green Infrastructure Description:	Estimated Stormwater Captured and
Rain garden	Treated Per Year:
Tree plantings	Rain garden: ~20,584 gallons

Implementation Date: 10/9/15

Green Infrastructure System: one (1) 200 sq. ft. rain garden and 14 trees

Drainage Area: ~790 sq. ft. (rooftop)

Funding Sources:

NJ Department of Environmental Protection 319 (h) Grant

Partners/Stakeholders:

Rutgers Cooperative Extension Water Resources Program. 'Essex County Parks.' New Jersey Tree Foundation. 'Rutgers VETS Program.' Rcucke 'Xcng{ "Ugy gtci g'Eqo o kukqp.' cpf 'P gy ctm'F K"

Appendix A:

Project Completed – Photograph of green infrastructure practice

Appendix B:

PVSC/RCE Green Infrastructure Feasibility Study for the City of Newark

600 17th Street, Newark, NJ West Side Park

Appendix A:

Completed Project Photograph

October 9, 2015

Project Completed October 9, 2015











West Side Park Green Infrastructure Information Sheet

600 S 17th Street, Newark, NJ West Side Park

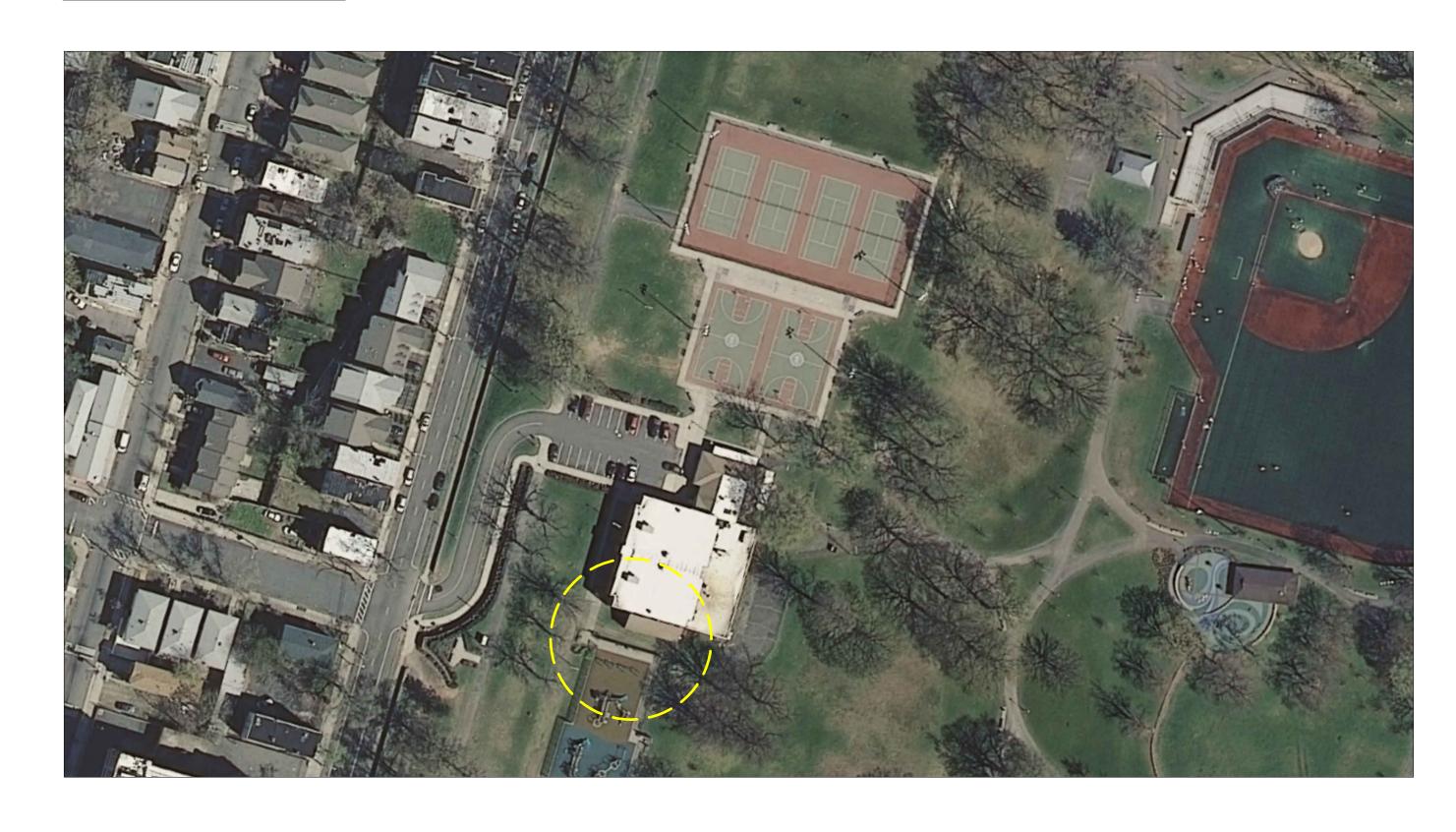
Appendix B:

West Side Park Rain Garden Demonstration

WEST SIDE PARK RAIN GARDEN DEMONSTRATION

GREEN INFRASTRUCTURE FOR THE CITY OF NEWARK 623 S 13TH STREET, NEWARK ESSEX COUNTY, NEW JERSEY

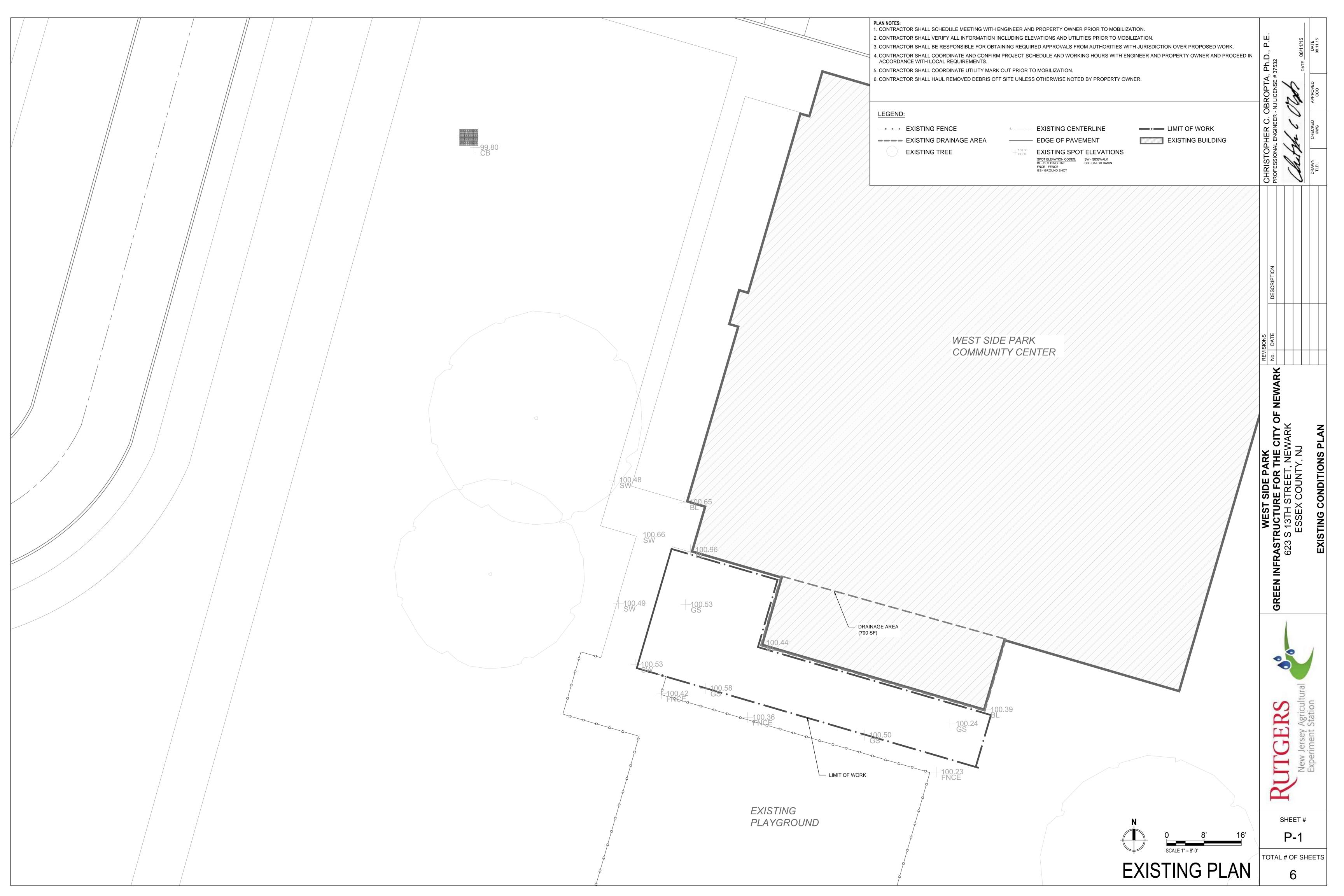
LOCATION MAP:

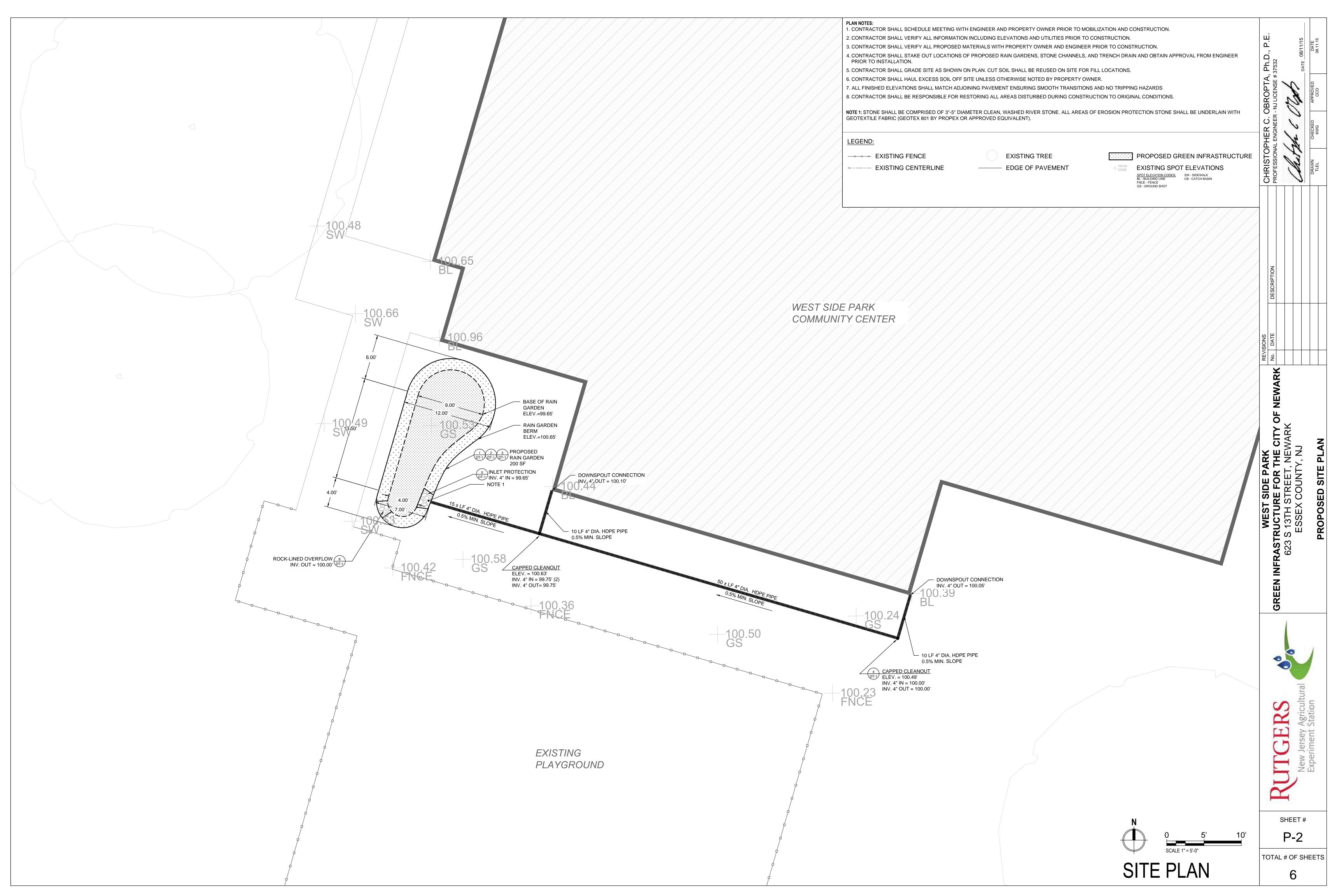


SHEET INDEX:

NO.	SHEET	NAME
1	COVER	COVER SHEET
2	P-1	EXISTING CONDITIONS PLAN
3	P-2	PROPOSED SITE PLAN
4	P-3	PLANTING PLAN
5	DT-1	RAIN GARDEN DETAILS
6	DT-2	RENDERINGS

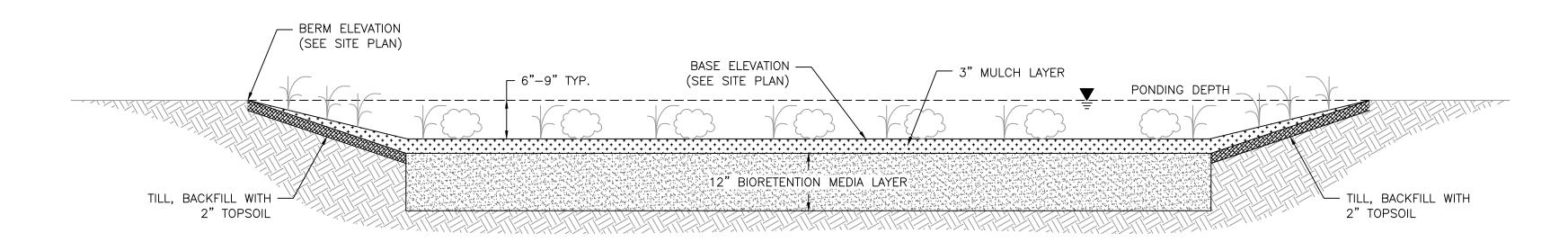




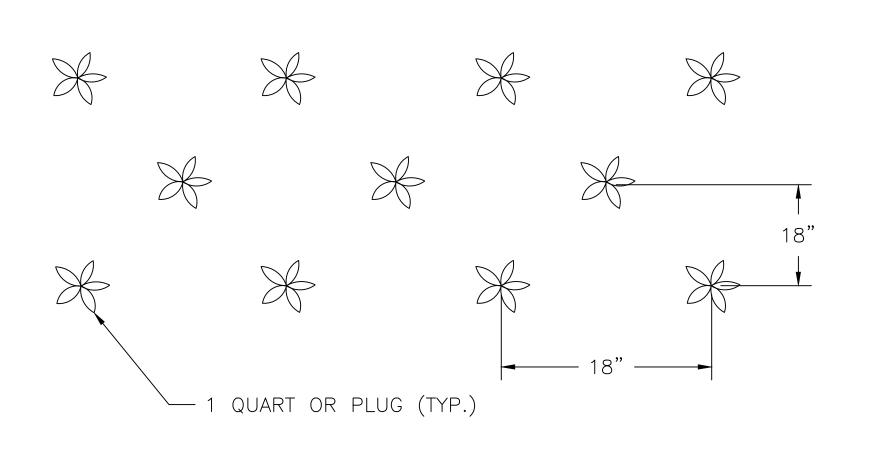


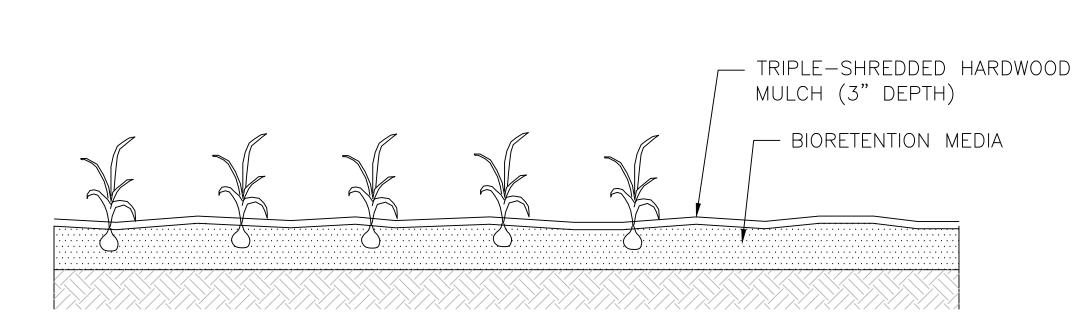




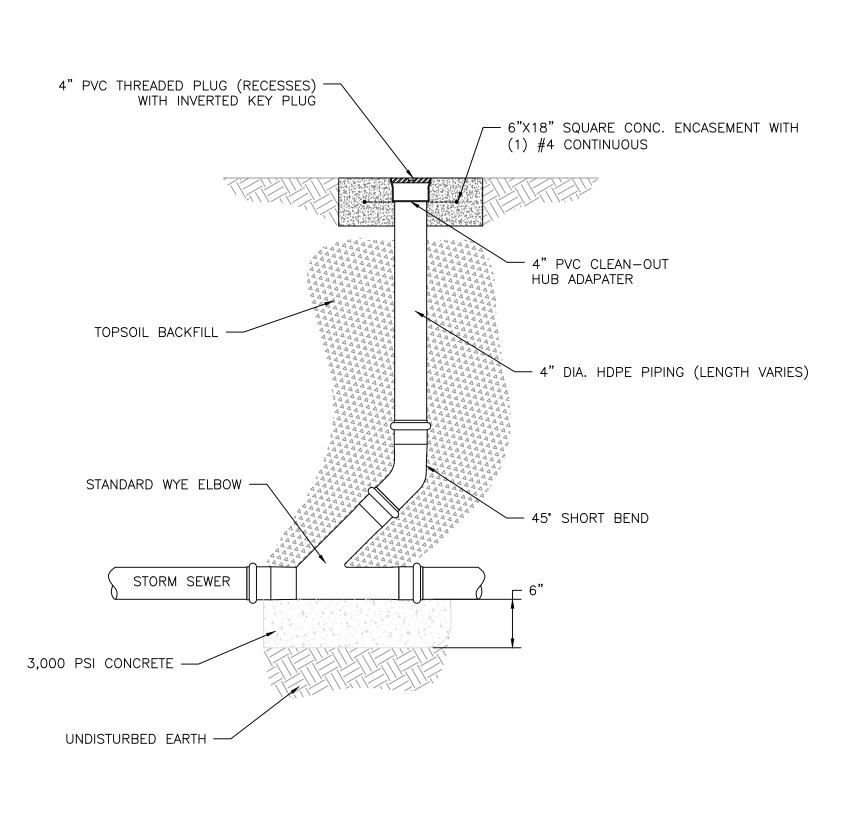


2 CURBED RAIN GARDEN CROSS-SECTION N.T.S.









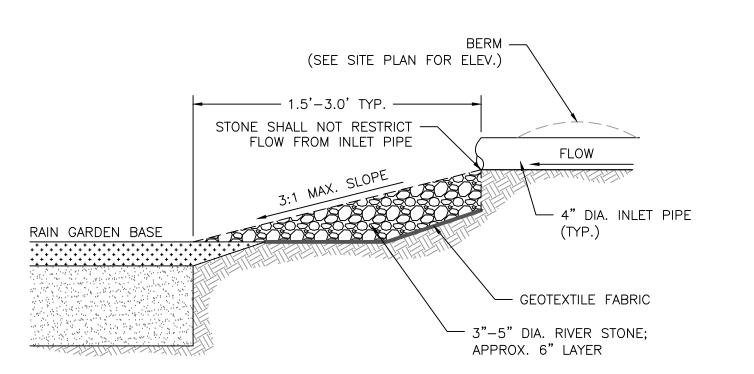


CONSTRUCTION NOTES:

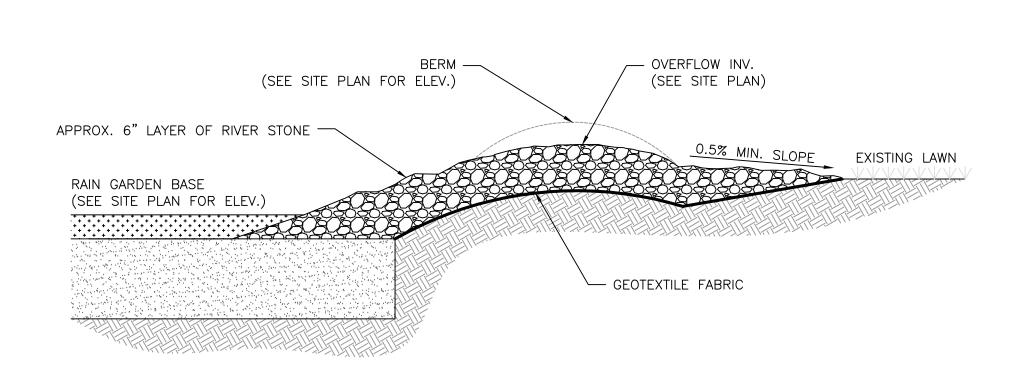
- 1. THE CONTRACTOR SHALL VERIFY ALL INFORMATION PRIOR TO EXCAVATION INCLUDING ELEVATIONS AND LOCATIONS OF EXISTING UTILITIES.
 2. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY IF ANY FIELD CONDITIONS DIFFER MATERIALLY FROM THOSE REPRESENTED ON THESE DRAWINGS AND THE
- SPECIFICATIONS OR IF, IN THE CONTRACTOR'S OPINION, SAID CONDITIONS CONFLICT WITH THE DESIGNS SHOWN HEREON.
 3. THE ENGINEER SHALL INSPECT ALL PLANTING BED AREAS BEFORE MULCHING TO INSURE THAT ADEQUATE DRAINAGE EXISTS. IF ANY AREAS TO BE MULCHED SHOW
- EVIDENCE OF POOR DRAINAGE, THE CONTRACTOR SHALL TAKE CORRECTIVE ACTION.
- 4. THE CONTRACTOR SHALL AVOID DISTURBING ALL EXISTING TREES. ANY DISTURBANCE TO TREES OR TREE ROOTS MUST BE COORDINATED WITH THE PROPERTY OWNER.
 5. DIMENSIONS AND SHAPE WILL VARY, REFER TO SITE PLAN.
- 6. RIVER STONE PROTECTION DIMENSIONS ARE TYPICAL AND MAY VARY PER SITE. CONSULT THE ENGINEER AND SITE PLAN FOR DIMENSIONS ON A PER SITE BASIS.
- 7. RIVER STONE PROTECTION SHALL SLOPE TO RAIN GARDEN BASE. 8. REFER TO SITE PLAN TO DETERMINE OUTLET TYPE (ROCK-LINED OVERFLOW OR DRAINTECH RISER).
- 9. REFER TO SITE PLAN FOR ALL ELEVATIONS AND INVERTS.
 10. THE CONTRACTOR SHALL EXCAVATE 12" LOWER THAN THE BASE ELEVATION SHOWN ON THE SITE PLANS. THE SLOPES OF THE RAIN GARDEN SHALL BE AT A 2:1
- 11. THE SUBGRADE OF THE RAIN GARDEN SHALL BE LEVEL TO ENSURE PROPER DRAINAGE. CONTRACTOR SHALL OBTAIN ENGINEER APPROVAL PRIOR TO BACKFILLING WITH 12" OF BIORETENTION MEDIA.
- 12. THE CONTRACTOR SHALL INSTALL OVERFLOW IF SPECIFIED IN SITE PLANS PRIOR TO BACKFILLING WITH BIORETENTION MEDIA.
- 13. THE BIORETENTION LAYER SHALL BE LEVEL TO ENSURE PROPER DRAINAGE. CONTRACTOR SHALL OBTAIN ENGINEER APPROVAL PRIOR TO SPREADING MULCH AND PLANTING.
- 14. INLET AND OUTLET PROTECTION SHALL BE UNDERLAIN WITH GEOTEXTILE FABRIC.
 15. INLETS AND OUTLETS SHALL NOT INHIBIT THE FLOW OF WATER FROM THE STREET. THE RIVER STONE SHALL BE PLACED BELOW THE BOTTOM OF THE PIPE.
- 16. THE CONTRACTOR SHALL TILL THE BERM SECTION AND BACKFILL WITH TOPSOIL.
 17. ALL DISTURBED AREAS EXCLUSIVE OF RAIN GARDEN AND SLOPED BERM SHALL BE RESTORED TO ORIGINAL CONDITIONS BY CONTRACTOR.
- 18. THE CONTRACTOR SHALL HAVE A PRE-CONSTRUCTION MEETING WITH THE PROJECT ENGINEER PRIOR TO ANY WORK ON SITE.

SPECIFICATIONS:

- 1. MAX COVER OVER TOP OF PIPE IS 4 FT. CONTACT ADS IF OTHERWISE GREATER.
- 2. THE APPROVAL OF MATERIALS AND MIXING OF SAND, COMPOST, AND SOIL SHALL BE DONE UNDER THE SUPERVISION OF THE PROJECT ENGINEER/LANDSCAPE ARCHITECT.
 BIORETENTION MEDIA SHALL CONSIST OF 70% SAND AND 30% COMPOST MIXTURE.
- 3. SAND SHALL AT THE MINIMUM CONFORM TO THE SIEVE ANALYSIS FOR CONCRETE AGGREGATE SAND (ASTM C-33). USGA TEE/GREEN SIEVE GRADATION MIX IS
- PREFERABLE WHERE AVAILABLE.
- 4. UNDERLYING SOILS SHALL BE TILLED/SCARIFIED PRIOR TO SPREADING/MIXING OF BIORETENTION MEDIA.
 5. ALL BIORETENTION MEDIA SHALL BE PLACED FROM THE SIDES OF THE FACILITIES, AND IN NO EVENT SHALL ANY TRACKED OR WHEELED EQUIPMENT BE PERMITTED TO CROSS THE RAIN GARDEN.
- 6. RAIN GARDEN SHALL BE CONSTRUCTED TO DIMENSIONS INDICATED ON THE SITE PLAN.
 7. 3-5 INCH DELAWARE RIVER STONE SHALL BE USED FOR STONE CHANNEL AND INLET/OUTLET PROTECTION.
- 8. NON-DYED, TRIPLE-SHREDDED HARDWOOD MULCH SHALL BE USED.
- 9. PLANTING OF RAIN GARDEN AND SLOPED BERM SHALL BE COMPLETED AS INDICATED ON THE SITE PLAN.
 10. THE CONTRACTOR SHALL PERFORM ALL WORK IN CONFORMANCE WITH THE NJDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 2007 OR LATEST VERSION.







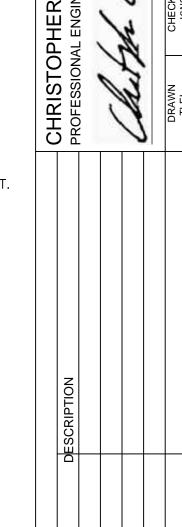


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SHEET #

TOTAL # OF SHEETS

6



STRUCTURE FOR THE CITY OF 3 S 13TH STREET, NEWARK ESSEX COUNTY, NJ

GREEN INFRA





STURE FOR THE CITY OF NEWARK

TH STREET, NEWARK

SEX COUNTY, NJ

RENDERING

GREEN INFRASTRUCTURE FOR THE 623 S 13TH STREET, NEY ESSEX COUNTY, N.

RUTGERS
New Jersey Agricultural
Experiment Station

SHEET#

DT-2

TOTAL # OF SHEETS

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