

STORMWATER POLLUTION PREVENTION PLAN (SWPPP)

Reconstruction of
Campus Parking Lots

Hudson Valley Community College
City of Troy
New York

March 25, 2016

Prepared for:

Hudson Valley Community College
80 Vandenberg Avenue
Troy, NY 12180

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Project No. 15042.10U

TABLE OF CONTENTS

Certification Statements

	<u>Page No.</u>
Section 1.0 - Introduction	3
1.1 - Notice of Intent.....	4
1.2 - Signature, Certifications and Review.....	4
1.3 - Notice of Termination.....	4
Section 2.0 - Project Description	4
2.1 - Site Location	4
2.2 - Project Description.....	4
2.3 - Existing Site Description	5
2.4 - Proposed Site Description	5
2.5 - General Construction Schedule.....	6
2.6 - Impact on Historic Places	6
Section 3.0 - Stormwater Management Facilities	6
3.1 - Overview	6
3.2 - Stormwater Management Practices (SMP) Design.....	7
3.3 - Runoff Reduction Volume (RRv)	8
Section 4.0 - Erosion and Sediment Controls	8
4.1 - Temporary Measures During Construction.....	8
4.2 - Permanent Measures	10
4.3 - Stormwater Management Practices Maintenance	10
Section 5.0 - Site Assessment and Inspections	10
5.1 - Before Construction	10
5.2 - During Construction	10
5.3 - End of Construction	11
5.4 - After Construction	11
Section 6.0 - Monitoring, Reporting and Retention of Records.....	11
6.1 - Monitoring and Reporting	11
6.2 - Retention of Records	12
Section 7.0 - Standard Permit Conditions.....	12
7.1 - Duty to Comply	12
7.2 - Duty to Mitigate.....	12
7.3 - Duty to Provide Information	12
7.4 - Signatory Requirements	13
7.5 - Inspection and Entry	13
7.6 - Permit Actions.....	13
Section 8.0 - Summary and Conclusions.....	13
Section 9.0 - References	13

APPENDICES

A - Site Location Map

B - Soils Boundary Map

C - Existing Conditions Watershed Map

D - Proposed Conditions Watershed Map

E - Water Quality Calculations

F - Runoff Reduction Worksheet

G - NYSDEC SPDES General Permit GP-0-15-002

H - Notice of Intent (NOI) Form

I - Notice of Termination (NOT) Form

J - Site Assessment and Inspection Log

K - Operations and Maintenance Checklists

L - SHPO Map

M - Project Plans

OWNER/OPERATOR CERTIFICATION STATEMENT

"I hereby certify that I understand and agree to comply with the terms and conditions of the SWPPP and agree to implement any corrective actions identified by the qualified inspector during a site inspection. I also understand that the owner or operator must comply with the terms and conditions of the New York State Pollutant Discharge Elimination System ("SPDES") general permit for stormwater discharges from construction activities and that it is unlawful for any person to cause or contribute to a violation of water quality standards. Furthermore, I understand that certifying false, incorrect or inaccurate information is a violation of the referenced permit and the laws of the State of New York and could subject me to criminal, civil and/or administrative proceedings. "

Richard L. Edwards

Name of Owner or Duly Authorized Representative (Printed)

Director of Physical Plant

Title of Above Signee

**Hudson Valley Community College
80 Vandenburg Avenue
Troy, NY 12180**

Company Name and Address

(518) 629-7356

Telephone Number

Signature

Date

CONTRACTOR CERTIFICATION STATEMENT

"I hereby certify that I understand and agree to comply with the terms and conditions of the SWPPP and agree to implement any corrective actions identified by the qualified inspector during a site inspection. I also understand that the *owner or operator* must comply with the terms and conditions of the New York State Pollutant Discharge Elimination System ("SPDES") general permit for stormwater discharges from construction activities and that it is unlawful for any person to cause or contribute to a violation of water quality standards. Furthermore, I understand that certifying false, incorrect or inaccurate information is a violation of the referenced permit and the laws of the State of New York and could subject me to criminal, civil and/or administrative proceedings. "

Name and Title of Duly Authorized Representative	Name and Title of Duly Authorized Representative
Company Name, Address and Phone Number	Company Name, Address and Phone Number
Continue from Above (If Needed)	Continue from Above (If Needed)
Address of the Project Site	Address of the Project Site
Signature of Authorized Representative and Date	Signature of Authorized Representative and Date
The Contractor identified above is responsible for the following elements of the SWPPP:	The Contractor identified above is responsible for the following elements of the SWPPP:
Name and Title of Trained Individual Responsible for SWPPP Implementation	Name and Title of Trained Individual Responsible for SWPPP Implementation

Section 1.0 - Introduction

The following is a Stormwater Pollution Prevention Plan (SWPPP) developed for the Owner, Hudson Valley Community College, located both in the City of Troy and the Town of North Greenbush, New York. It is prepared in accordance with the NYS Department of Environmental Conservation (NYSDEC) General Permit for Stormwater Discharges from Construction Activity, General Permit No. GP-0-15-002. The City of Troy and the Town of North Greenbush are designated Municipal Separate Storm Sewer System (MS4). Since Hudson Valley Community College is a part of the State University of New York system, the project is located outside these MS4 municipalities.

This Stormwater Pollution Prevention Plan has been prepared for the project entitled “Reconstruction of Campus Parking Lots.” The project involves re-development of three (3) campus parking lots, lot B-1, lot C and lot I. Re-development is defined as the reconstruction or modification to any existing, previously developed land. See appendix A for further reference.

The three (3) existing parking lots are constructed of asphalt pavement (impervious surface). Lot B-1 and lot C currently drain to the existing campus storm sewer system and the work proposed for these two lots only include milling off the top two inches of asphalt pavement and replacing with a new 2” asphalt top course. No exposed soils are anticipated in these work areas. The proposed work will not alter the hydrology or change the runoff character of these two (2) parking lots. As such, no erosion controls or stormwater management facilities are proposed in these two (2) parking lots.

Lot I currently drains to a campus storm sewer system that discharges directly to a ravine located at the northern edge of the campus. The proposed work for this parking lot includes the removal of the existing asphalt pavement and aggregate subbase. This work will result in approximately 2.70+/- acres of disturbed soils, but does not alter the hydrology or significantly change the runoff character of this parking lot. As such, erosion controls and permanent stormwater management facilities are proposed in this parking lot.

The proposed stormwater management facilities in lot I are designed to capture and treat the water quality volume of stormwater runoff from lot I. The developed project site results in no increase in impervious area or changes to hydrology that increases the discharge rate. In accordance with Chapter 9, page 9-4 of the NYSDEC Design Manual, if re-development results in no increase in impervious area or changes to hydrology that increases the discharge rate from the site, the channel protection volume (one-year), overbank flood (ten-year) and extreme storm (one hundred-year) water quantity control criteria do not apply.

The project is designed in accordance with Chapter 9: Re-development Activity, of the NYSDEC Stormwater Management Design Manual dated January 2015.

Additionally, erosion and sediment control measures (during and after construction) have been designed in accordance with NYSDEC requirements.

1.1 Notice of Intent

To obtain coverage under the General Permit and thus be authorized to discharge stormwater from construction activities, the Owner must submit a completed Notice of Intent (NOI) form that references this SWPPP and conformance with the General Permit. Permit coverage begins as defined in Part II of the General Permit (see Appendix G).

A copy of the completed NOI, SWPPP, NOI Acknowledgement Letter from NYSDEC, owner and contractor certification statements and completed inspection reports must be maintained at the site in accordance with Part II.C of the General Permit. A completed NOI form is provided in Appendix H.

1.2 Signatures, Certifications, and Review

The SWPPP must be signed by the Owner, or by the Owner's duly authorized representative, on the owner certification statement at the beginning of the SWPPP. Signatory requirements are provided in Part VII.H of the General Permit.

All contractors and subcontractors involved with the Project must sign a certification statement before undertaking any construction activity on the Project site. This certification must include: The authorized representative's name and title; the name, address and telephone number of the contracting firm; the address of the Project site; the date the certification is made; the components of the SWPPP for which the Contractor is responsible; and the name and title of the Trained Individual responsible for implementation of the applicable components of the SWPPP. The contractor certification statement follows the owner's certification statement at the beginning of the SWPPP.

1.3 Notice of Termination

When the construction site has been finally stabilized, the Owner must submit a signed Notice of Termination (NOT) form to NYSDEC at the address identified in Part V of the General Permit. This form is used to confirm that the permanent stormwater facilities are in place and have been constructed in accordance with the SWPPP. The Owner must also certify that the appropriate operation and maintenance practices will be instituted for the facilities to function as designed after the site has been stabilized. A sample NOT form is provided in Appendix I.

Section 2.0 – Project Description

2.1 Site Location

The project parking lots are located on the Hudson Valley Community College campus. Reference Appendix A for further geographic reference to the parking lots.

2.2 Project Description

The three (3) existing parking lots to be re-developed are constructed of asphalt pavement. Lot B-1 and lot C currently drain to the existing campus storm sewer system. The work proposed for these two lots only include milling off the top two inches of asphalt pavement and replacing with a new 2" asphalt top

course. No exposed soils will be encountered in these work areas. The proposed work will not alter the hydrology or change the runoff character of these two (2) parking lots. As such, no erosion controls or stormwater management facilities are proposed in these two (2) parking lots and no further hydraulic analysis is necessary.

Lot I currently drains to a campus storm sewer system that discharges directly to a ravine located at the northern edge of the campus. The proposed work for this parking lot includes the removal of the existing asphalt pavement and aggregate subbase, curbing, and guardrails. Improvements include new asphalt pavement and new porous asphalt pavement, granite curbs, erosion control, storm water management, tree plantings and lawn establishment.

2.3 Existing Site Description

Lot I is generally made up of asphalt pavement parking and access drives with some curbed islands, tree plantings, lighting and lawn perimeter. Runoff is collected and conveyed via a campus storm sewer system which discharges off site through an 18” HDPE storm line located at the northern edge of the lot. Reference Appendix C, Existing Conditions Watershed Map, for more detailed information.

Table 2-1 below provides a summary of the existing land coverage.

Table 2-1 Land Coverage, Existing Conditions	
Characteristics	Watershed (acres)
Impervious Area	2.45
Lawn/Planting Area	0.22
TOTAL	2.67

Soils: The predominant soil types within Lot I are HuB and HuE, a Hudson silt loam. This soil series has an SCS Hydrologic Soil Group C classification. Group C soils typically have a low rate of water transmission. Refer to Appendix B – Soils Boundary Map for soils data.

2.4 Proposed Site Description

The proposed lot I site is generally made up of asphalt pavement and porous asphalt pavement parking and access drives, planted curbed islands, stormwater management, erosion control, and lawn areas. Runoff is collected and conveyed via the campus storm sewer system which discharges off site through an 18” HDPE storm line located at the northern edge of the lot. Reference Appendix D, Proposed Conditions Watershed Map, for more detailed information.

Table 2-2 on the following page, provides a summary of the land coverage, after development of Lot I.

Table 2-2 Land Coverage, Proposed Conditions	
Characteristics	Watershed (acres)
Impervious Area	1.23
Porous Asphalt Pavement	1.16
Lawn/Planting Area	0.29
Totals	2.68

2.5 General Construction Schedule

It is anticipated that construction will begin approximately May 1, 2016 and be completed by September 1, 2016.

2.6 Impact on Historic Places

To obtain coverage under the General Permit, the SWPPP must include documentation supporting the Permit eligibility with regard to Part I.F.8. (Historic Places). The SWPPP is required to provide a description of measures necessary to avoid or minimize impacts on places listed, or eligible for listing, on the State or National Register of Historic Places.

The closest area of Archeological Significance according to information obtained from the NYS Historic Preservation Office (SHPO) GIS database is Emma Willard School, which is approximately 1.32 miles from the project site. This data indicates that the project site is outside of the 1 mile radius of sites currently on the State or National Historic Register. Reference Appendix L, SHPO Map, for more detailed information.

Section 3.0 – Stormwater Management Practices

3.1 Overview

This Stormwater Pollution Prevention Plan has been designed to assure that water quality criteria are met and that post-development peak runoff rates will be equal to or less than pre-development peak runoff rates for the full range of design storms. The developed Project site results in no increase in impervious area or changes to hydrology that increase the discharge rate from the site. Total pre-developed impervious area is 2.45 acres (see table 2-1). Post-developed impervious area is 1.23 acres with an additional 1.16 acres of porous asphalt pavement totaling 2.39 acres (see table 2-2). In accordance with Chapter 9, page 9-4 of the NYSDEC Design Manual, if redevelopment results in no increase in impervious area or changes to hydrology that increases the discharge rate from the site, the channel protection volume (one-year), ten-year and one hundred-year water quantity controls criteria do not apply. As such, post-development peak runoff rates will be equal to or less than pre-development peak runoff rates for the full range of design storms.

The water quality mitigation criteria that will be incorporated into the design is as follows:

1. Provide for treatment of the Water Quality Volume, WQ_v . The water quality volume will be captured and treated in the porous asphalt pavement section. Total Lot I Water Quality Volume = 4,288 CF (see appendix E).

The Water Quality (WQ) management measures and designs described herein are in accordance with the pertinent portions of Chapters 4 through 9 of the NYSDEC Design Manual. The objective of the WQ management system is to meet the pollutant removal goals by capturing and treating 90% of the average annual stormwater runoff volume, otherwise known as the Water Quality Volume (WQ_v). Chapter 4 of the NYSDEC Design Manual provides the following equation to determine the WQ_v (in acre-feet of storage):

$$WQ_v = \frac{(P)(R_v)(A)}{12}$$

Where:

WQ_v = water quality volume (acre-feet)

P = 90% Rainfall Event Number (see Figure 4.1, DEC Design Manual)

R_v = $0.05 + 0.009(I)$, where I is the percent of impervious cover

A = site area (acres)

It is assumed that by meeting the WQ_v requirements through employment of acceptable Stormwater Management Practices (SMP) listed in Table 5.1, Table 5.4, Table 5.7 (Table 5.7 Lists GI Techniques for Runoff Reduction) of the NYS Stormwater Management Design Manual, the Project will meet water quality objectives. Acceptable SMP for water quality treatment meet the following criteria:

- > Capture and treat the full water quality volume (WQ_v).
- > 80% Total Suspended Solids (TSS) removal and 40% Total Phosphorous (TP) removal.
- > Acceptable longevity in the field.
- > Incorporate a pretreatment mechanism.

3.2 Stormwater Management Practices (SMP) Design

Porous Asphalt Pavement:

Sizing criteria – Porous Pavement (Green Infrastructure Practice used for runoff Reduction and storage): The porous asphalt pavement captures and treats the water quality volume.

Required Water Quality Volume = 4,288 cf (see appendix E).

Porous Asphalt Pavement Surface below 259 elev. = 10,096 sf

12" depth of stone reservoir = 8,246 sf

18" depth of stone reservoir = 1,850 sf

Storage Capacity = $8,246 \times 1.0 \text{ ft} \times (40\% \text{ stone void ratio}) = 3,298 \text{ cf}$

Storage Capacity = $1,850 \times 1.5 \text{ ft} \times (40\% \text{ stone void ratio}) = \underline{1,110 \text{ cf}}$
4,398 cf

4,398 cf > 4,288 cf good

3.3 Runoff Reduction Volume (RRv)

See Appendix F for runoff reduction worksheets.

In Lot I watershed, the minimum RRv required is 0.027 ac-ft.

Area reduction RRv is 0.002 ac. ft.

Green infrastructure RRv is 0.096 ac. ft.

Total RRv provided is 0.098 ac. ft. > minimum RRv required 0.007 ac. ft. GOOD

Section 4.0 – Erosion and Sediment Controls

4.1 Temporary Measures during Construction

Stormwater runoff from developing areas can result in off-site problems including erosion and water quality degradation due to sedimentation and other non-point source pollutants. These impacts are greatest during construction periods when soils are without any cover. The General Permit GP-0-15-002 references the NYSDEC's New York Standards and Specifications for Erosion and Sediment Control (NYSSESC) as the required guidelines for design.

Temporary erosion and sediment control measures to be employed during construction shall comply with the NYSSESC and include sediment control fencing, dust control, stabilized construction entrance, storm sewer inlet protection and construction sequencing. These measures shall be implemented per the criteria presented in the NYSSESC. By reference, these guidelines are made an integral part of this SWPPP and the construction project.

Erosion control measures will be implemented as indicated below to minimize the amount of sediment leaving the Site in stormwater discharges. The specific timing for installation of the temporary erosion and sediment control measures will be dependent on the actual staging that may need to be adjusted during construction, however, the general requirements are as follows:

1. Construction shall be sequenced in accordance with the construction sequence notes below.
2. Any disturbed areas that are left exposed more than 14 days, and are not subject to construction traffic, shall immediately receive a temporary mulching and/or seeding. If the season prevents the establishment of a permanent cover, the disturbed areas will be temporarily mulched with straw, or equivalent material.
3. Paved roadways shall be kept clean at all times.
4. The site shall at all times be graded and maintained such that all sediment laden stormwater runoff is diverted to soil erosion and sediment control facilities.
5. All storm drainage outlets shall be stabilized, as required, before the discharge points become operational.

6. Dust control - water shall be applied by sprinkler or water truck during grading operations to minimize sediment transport and maintain acceptable air quality conditions. Repetitive treatments shall be done as needed until grades are stabilized.
7. The contractor shall inspect the effectiveness and condition of erosion control devices during storm events, after each rainfall of 0.5 inch magnitude or greater, prior to weekends and prior to forecasted storm events.
8. The contractor shall repair or replace damaged erosion control devices immediately or as soon as practical.
9. The contractor shall be prepared to implement interim drainage controls and erosion control measures as may be necessary during the course of construction to prevent sediment laden runoff from leaving the construction site.
10. The contractor shall make available onsite all equipment, materials and labor necessary to effect emergency erosion control and drainage improvements as soon as practical.
12. All soil erosion and sedimentation control measures shall be maintained by the contractor in accordance with the stormwater pollution prevention plan until final acceptance of the site work by the owner. Upon certification of final acceptance, the owner will assume responsibility for continued maintenance of permanent soil erosion and sedimentation control measures after stabilization is achieved.

Construction sequencing notes:

1. Contractor to stake out all new work in the field. Identify the limits of clearing with marking tape.
2. Install sediment control fence at locations shown on the plans.
3. Perform the required tree clearing and grubbing.
4. Grade the site and stabilize the exposed soil with seed and mulch as appropriate.
5. Construct the storm sewer system and other utility work as soon as possible.
6. Construct inlet protection at each of the newly installed storm drain inlets.
7. As work progresses, disturbed areas shall be stabilized as soon as possible after construction has been completed in the area, but in no case more than 14 days after the construction in that portion of the site has temporarily or permanently ceased. Stabilize areas with seed and mulch.
8. After all disturbed areas have been stabilized, and the final inspection has been performed by the owner's representative, remove all remaining temporary erosion and sediment control devices.

It is anticipated that the prevention of litter and/or general construction debris from becoming a pollutant source in stormwater discharges will not be a problem. The Owner will make a specific point to the

contractors involved that the Site is to be kept as clean and orderly as possible during construction. Trash and debris receptacles will be used and cleaned out as necessary.

Precautions shall be taken for on-site storage of construction and waste materials to reduce pollutants from entering stormwater discharges. If necessary, the locations can be fenced off with sediment control fence. It is anticipated that no unusual materials will be stored at the site.

4.2 Permanent Measures

Permanent erosion and sediment control measures to be implemented for the Project include establishment of lawn areas, tree plantings and new pavements. Permanent Stormwater Management Practices include installation of porous asphalt pavement. Construction details of these practices are provided in Appendix M - Project Plans.

4.3 Stormwater Management Practices Maintenance

Maintenance of the stormwater water quality practices is necessary to ensure that systems function as designed. See Appendix K for operations and maintenance checklist for the porous asphalt pavement.

Section 5.0 – Site Assessment and Inspections

Site assessment and inspections shall comply with the requirements of Part IV of the General Permit. A sample Site Assessment and Inspection log is contained in Appendix J.

5.1 Before Construction

A qualified inspector, defined in the General Permit as a person that is knowledgeable in the principles and practices of erosion and sediment control, such as a licensed Professional Engineer, Certified Professional in Erosion and Sediment Control (CPESC), Registered Landscape Architect, or other Department endorsed individual(s), shall conduct an assessment of the Site prior to the commencement of construction and certify in an inspection report that the appropriate erosion and sediment controls described herein have been adequately installed or implemented to ensure overall preparedness of the Site for the commencement of construction.

5.2 During Construction

Following the commencement of construction, Site inspections shall be conducted by a qualified professional at least every seven (7) calendar days. During each inspection, the qualified professional shall record the following information:

1. On a site map, the extent of all disturbed site areas and drainage pathways along with the areas expected to undergo initial disturbance or significant Site work within the next 14-day period.
2. On a Site map, the areas of the Site that have undergone temporary or permanent stabilization.
3. The site areas that have not undergone active Site work during the previous 14-day period.

4. The approximate degree of sediment accumulation in all sediment control practices as a percentage of the sediment storage volume, as well as the depth of sediment within containment structures.
5. The maintenance requirements of all erosion and sediment control practices.
6. All deficiencies that are identified with the implementation of the SWPPP.

A Site logbook of the inspection reports shall be kept at the Site. A sample report form is included in Appendix J. The Owner shall post at the Site, in a publicly accessible location, a summary of the Site inspection activities on a monthly basis.

Soil stabilization measures shall be initiated as soon as practicable in portions of the Site where construction activities have temporarily or permanently ceased, but in no case more than 14-days after the construction activity in that portion of the site has temporarily or permanently ceased. Note that this requirement does not apply when either: 1) The initiation of stabilization measures by the 14th day after construction activity temporarily or permanently ceased is precluded by snow cover or frozen ground conditions; or 2) The construction activity on a portion of the Site is temporarily ceased, and earth-disturbing activities will be resumed within twenty-one (21) days.

5.3 End of Construction

A qualified professional shall perform a final Site inspection and certify that the Site has undergone final stabilization and that all temporary erosion and sediment controls not needed for long-term erosion control have been removed. Reference SWPPP Section 1.3 for the requirements for filing the Notice of Termination.

5.4 After Construction

Once construction has been completed and all disturbed areas have been stabilized, it will be the sole responsibility of the Owner to perform routine inspections to ensure that the permanent erosion and sediment control measures remain in satisfactory condition. The Site should be inspected on a routine basis (weekly) and after major storm events (greater than 0.5" rainfall) to identify areas where maintenance may be required.

Section 6.0 – Monitoring, Reporting and Retention of Records

Monitoring, reporting and retention of records shall comply with the requirements of Part VI of the General Permit.

6.1 Monitoring and Reporting

The NYSDEC may, at its sole discretion, require monitoring of discharge(s) from the permitted construction activity after notifying the permittee in writing of the basis for such monitoring, the parameters and frequency at which monitoring shall occur and the associated reporting requirements, if any.

6.2 Retention of Records

The Owner shall retain copies of the SWPPP and any reports submitted in conjunction with the General Permit, and records of all data used to complete the NOI to be covered by the permit, for a period of at least three (3) years from the date that the Site is finally stabilized. A copy of the SWPPP shall be kept at the construction Site from the date of initiation of construction activities to the date of final stabilization.

A written summary of the status of the SWPPP with respect to the General Permit shall be prepared at a minimum frequency of every three (3) months during which coverage under this permit exists. This summary should address the status of achieving each component of the SWPPP and shall be signed and made available for review in the same manner as the original SWPPP.

The owner or operator shall retain a copy of the NOI, NOI Acknowledgment Letter, SWPPP, and any inspection reports that were prepared in conjunction with this permit for a period of at least five (5) years from the date that the Department receives a complete NOI submitted in accordance with Part V of the general permit.

Section 7.0 – Standard Permit Conditions

An overview of the standard permit conditions that are most likely to be encountered is provided below and the complete, detailed conditions can be referenced in Part VII of the General Permit.

7.1 Duty to Comply

The Owner must comply with all conditions of the General Permit. The Contractor and all subcontractors must comply with the terms of the SWPPP.

7.2 Duty to Mitigate

The Owner and all contractors shall take all reasonable steps to minimize or prevent any discharge in violation of the General Permit, which has a reasonable likelihood of adversely affecting human health or the environment.

7.3 Duty to Provide Information

The Owner shall furnish any information requested by any agency with regulatory or review authority over the Project for the purpose of determining compliance with the General Permit or compliance with any other regulatory requirements placed on the Project in conjunction with the permit. Failure to provide requested information shall be a violation of the General Permit.

The SWPPP and the inspection reports are public documents that the Owner must make available for inspection, review and copying by any person within five (5) business days of the Owner receiving a written request by any such person. Copying of such documents will be done at the requester's expense.

If the Owner becomes aware of any relevant facts that have not been submitted, or that information submitted is incorrect, he/she shall promptly submit such facts or correct information.

7.4 Signatory Requirements

Signatory requirements for the SWPPP, NOI, NOT, reports, certifications or information required by the General Permit, or submitted pursuant to the General Permit are described in detail in Section VII.H of the General Permit.

7.5 Inspection and Entry

The Owner shall allow the NYSDEC, upon the presentation of credentials and other documents as may be required by law, to:

1. Enter the Owner's premises where a regulated facility or activity is located or conducted or where records must be kept under the conditions of the General Permit.
2. Have access to and copy at reasonable times, any records that must be kept under the conditions of the General Permit.
3. Inspect at reasonable times and facilities or equipment (including monitoring and control equipment).

7.6 Permit Actions

At the Department's sole discretion, the General Permit may, at any time, be modified, suspended, revoked or renewed. The filing of a request by the Owner or Operator for a permit modification, revocation and reissuance, termination, a notification of planned changes or anticipated noncompliance does not limit, diminish, and/or stay compliance with any terms of the General Permit.

Section 8.0 – Summary and Conclusions

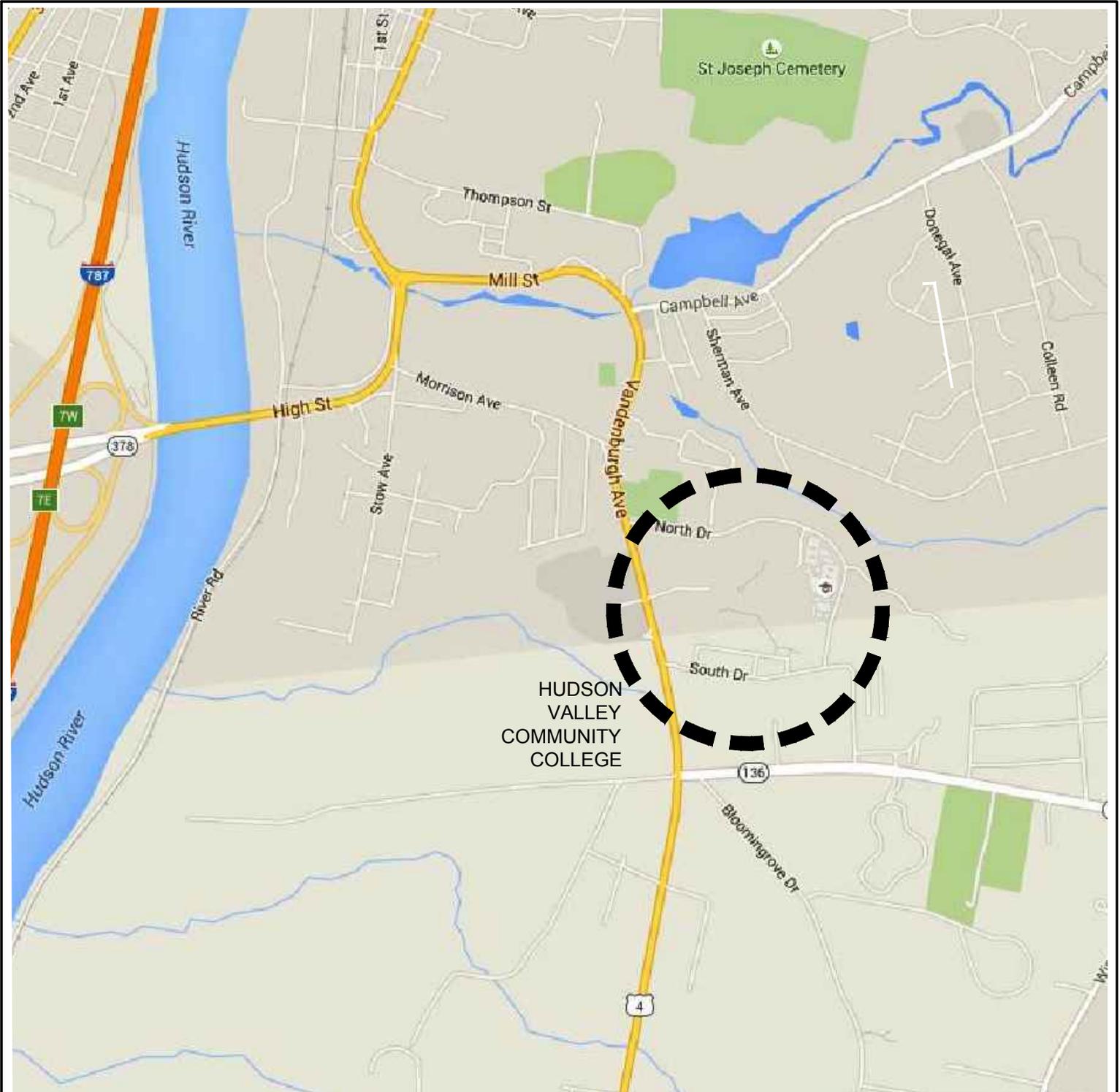
Based on the information presented in this report, the implementation of the proposed Stormwater Pollution Prevention Plan for the Project will meet the design objectives stated in this Report.

Section 9.0 – References

1. New York State Department of Environmental Conservation General Permit No. GP-0-15-002, SPDES General Permit for Stormwater Discharges from Construction Activity.
2. New York State Standards and Specifications for Erosion and Sediment Control, August 2005.
3. New York State Stormwater Management Design Manual, prepared by the New York State Department of Environmental Conservation, January 2015.
4. Soil Survey for Rensselaer County, prepared cooperatively by the Soil Conservation Service and the Cornell University Agricultural Experiment Station, 1993.

APPENDIX A

Site Location Maps



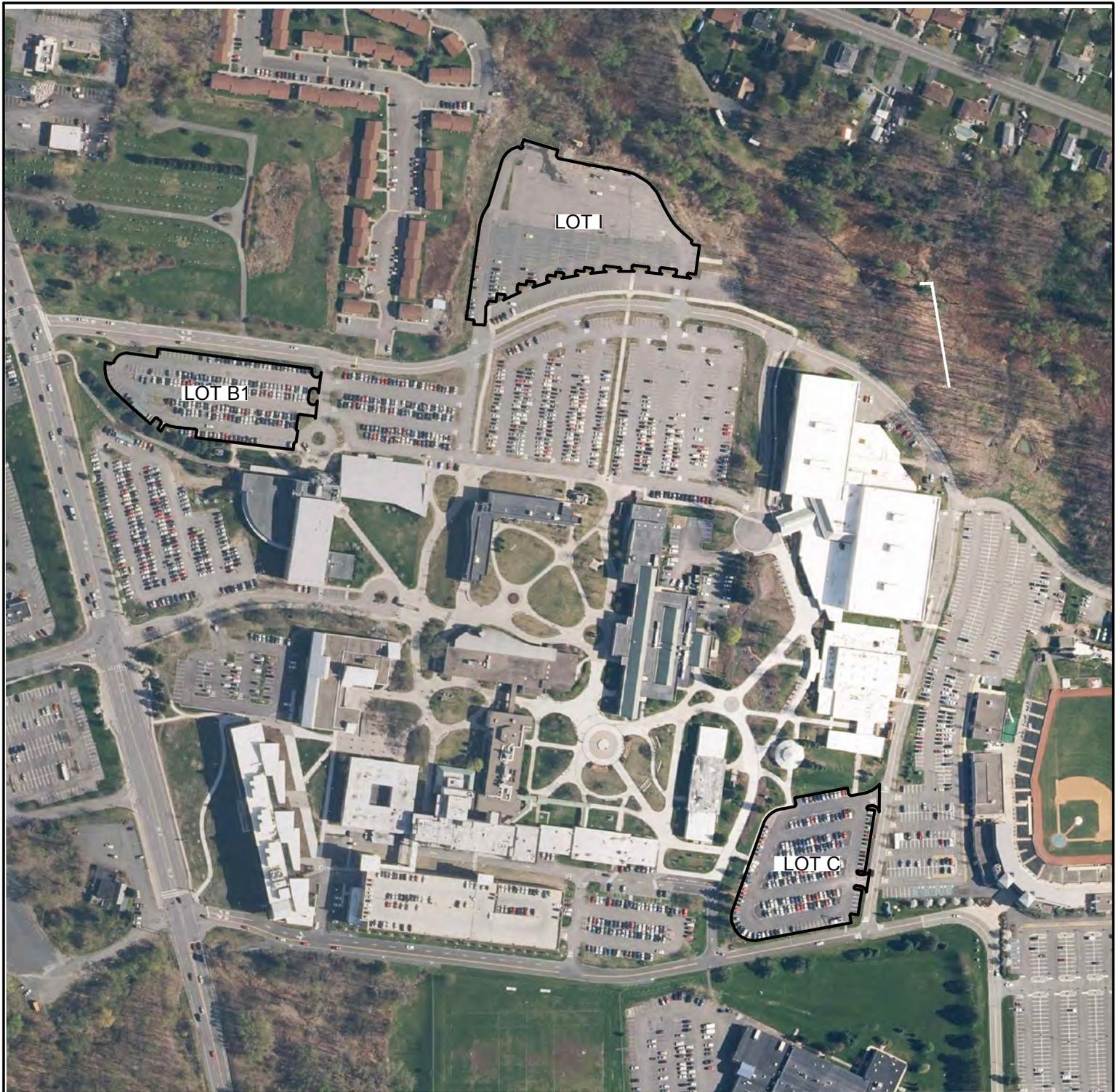
NOT TO SCALE 

SARATOGA ASSOCIATES
 Landscape Architects, Architects
 Engineers, and Planners, P.C.
 New York City • Saratoga Springs • Syracuse



HUDSON VALLEY COMMUNITY COLLEGE
 RECONSTRUCTION OF
 CAMPUS PARKING LOTS
 BID NO. 3632

SARATOGA ASSOCIATES PROJECT # 15042.10U		<small>PROFESSIONAL LIABILITY INSURANCE THIS DOCUMENT IS A PRODUCT OF SARATOGA ASSOCIATES, INC. AND IS NOT TO BE USED FOR ANY OTHER PROJECT WITHOUT THE WRITTEN CONSENT OF SARATOGA ASSOCIATES.</small>	
SWPPP APPENDIX A		<small>DATE: 03.25.2016 DRAWN BY: JLM CHECKED BY: JLM PHASE: SWPPP</small>	
VICINITY MAP		VM - 1	



SARATOGA ASSOCIATES

Landscape Architects, Architects
Engineers, and Planners, P.C.

New York City • Saratoga Springs • Syracuse



HUDSON VALLEY COMMUNITY COLLEGE

RECONSTRUCTION OF
CAMPUS PARKING LOTS
BID NO. 3632

SARATOGA ASSOCIATES PROJECT # 15042.101

**SWPPP
APPENDIX A**

DATE: 03.28.2016
DRAWN BY: PLM
CHECKED BY: PLM
PHASE: SWPPP

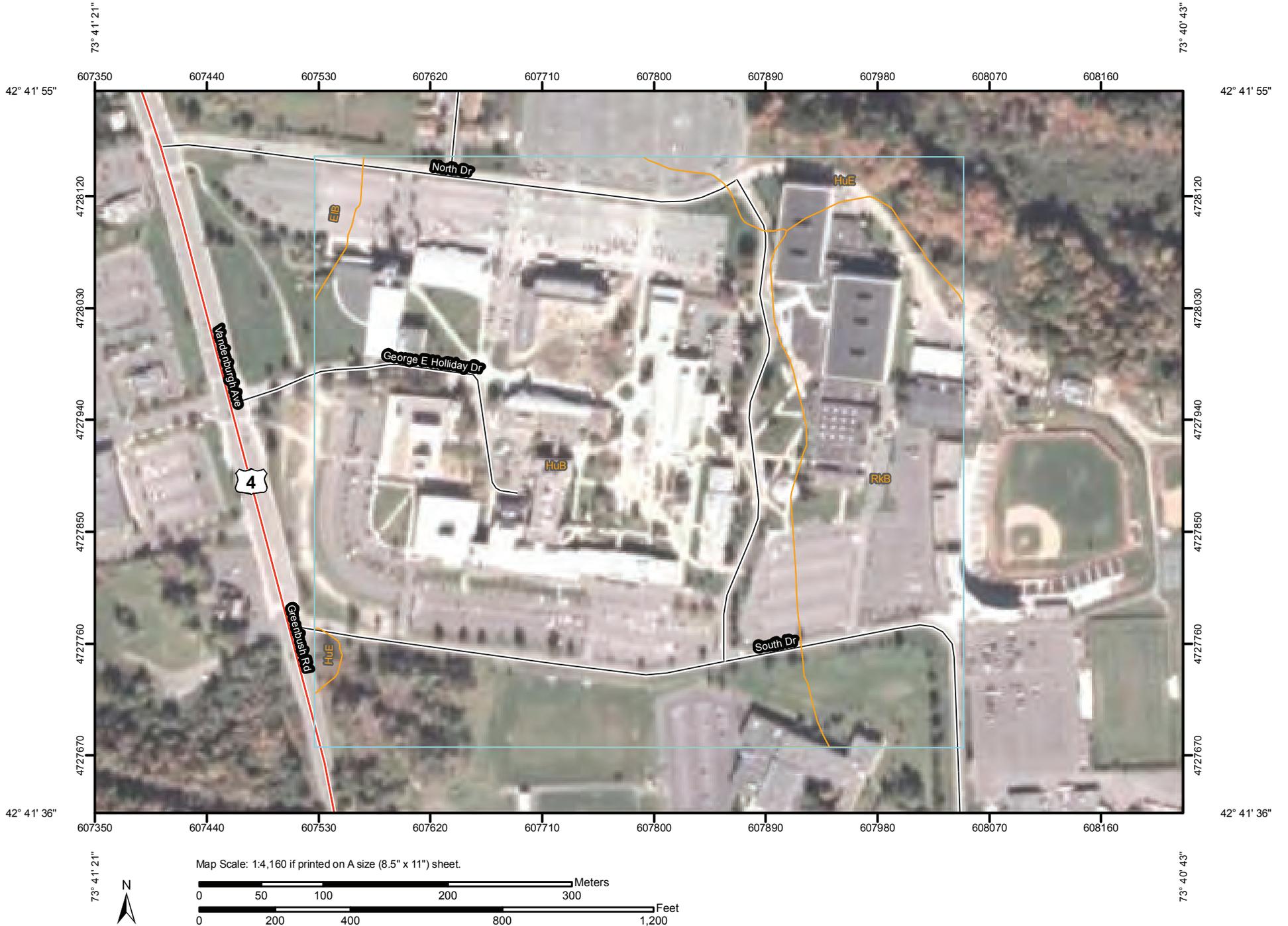
**LOCATION
MAP**

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APPENDIX B

Soils Boundary Maps

Soil Map—Rensselaer County, New York



MAP LEGEND

Area of Interest (AOI)

 !"#%&'()*+*#"+*%,-(.

Soils

 /&01%2\$3%4)0*+

Special Point Features

-  51&6&7*
-  5&""&6%80*
-  91\$:%/3&*
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-  ="\$>#11:%/3&*
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-  8#"#)0\$1%E\$*#"
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Map Unit Legend

Rensselaer County, New York (NY083)			
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
H15	H1B"0;K#%>#":%0)#%+\$):%1&\$BP%^%*%&%T 3#"D#)%%+1&3#++	RUT	Nlube
J75	J7.+&)%+01*%1&\$BP%^%^*%&%T%3#"D#)%%+1&3#++	O^UQ	anURa
J7H	J7.+&)%+01*%1&\$BP%^+##3	^UR	Ouce
FG5	F0>#"A\$;%0)#%+\$):%1&\$BP%^%^*%&%T%3#"D#)* +1&3#++	NOUR	bbUce
Totals for Area of Interest		61.3	100.0%



APPENDIX C

Existing Conditions Watershed Map

APPENDIX D

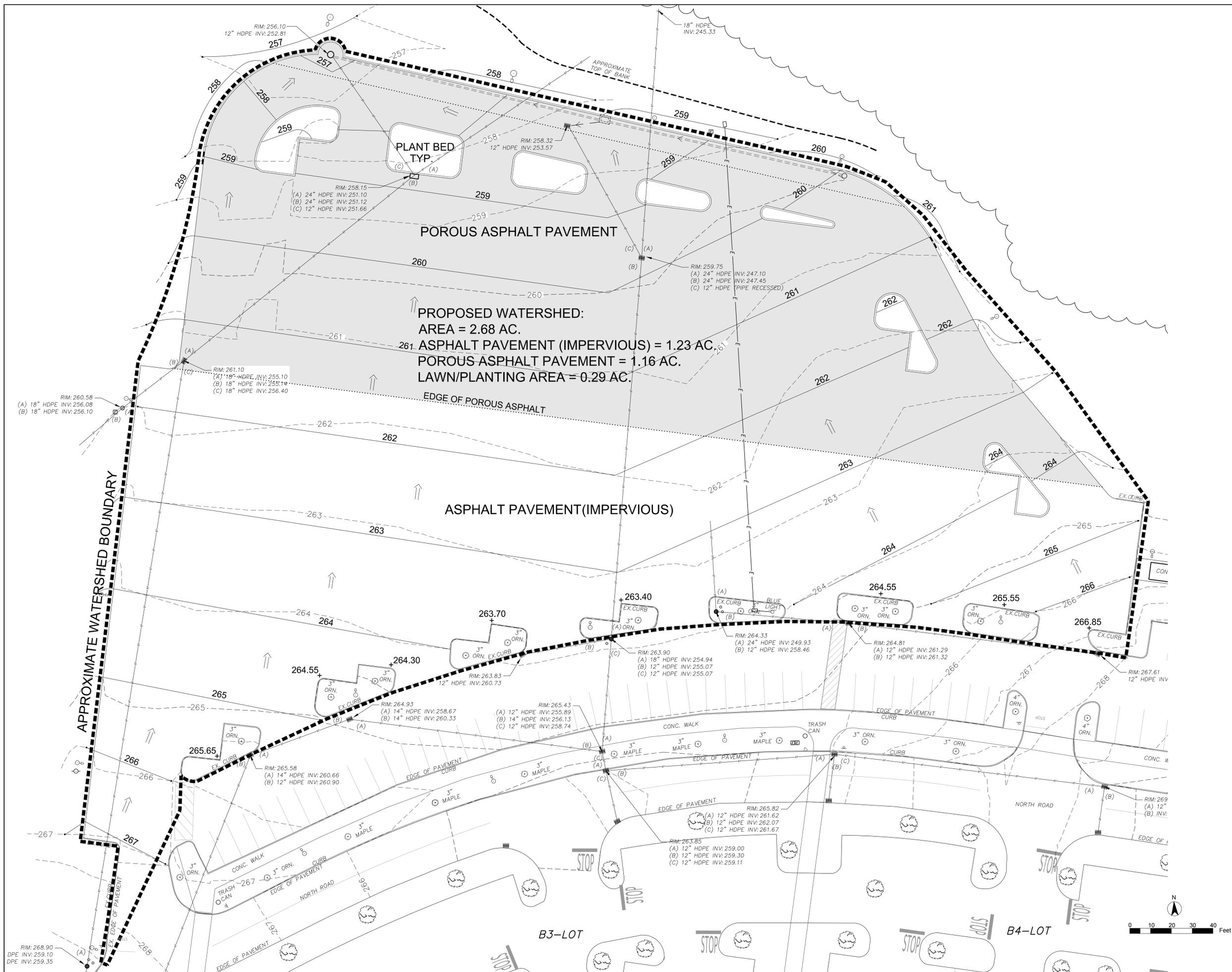
Proposed Conditions Watershed Map



Hudson Valley Community College

80 Vandenburg Ave
Troy, NY 12180

RECONSTRUCTION OF CAMPUS PARKING LOTS



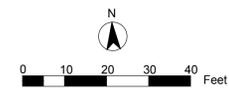
SARATOGA ASSOCIATES PROJECT # 15-042.10U

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DATE: 03.25.2016
 DRAWN BY: RJM
 CHECKED BY: RJM
 PHASE: SWPPP

WATERSHED MAP PROPOSED CONDITIONS

WS-2



APPENDIX E

Water Quality Calculations

WATER QUALITY VOLUME CALCULATION

Name: Hudson Valley Community College I-Lot

DATA:

Drainage Area, A = 2.680 ac
Rainfall, P = 0.95 in
Impervious %, I = 46 %

$$WQv = (P) * (Rv) * (A) / 12$$

WQv = water quality volume (acre-feet)

P = 90% rainfall event number
(See Fig 4.1 in NYS Stormwater Management Design Manual)

Rv = runoff volume = $0.05 + .009 (I)$, where I is the percent impervious cover

$$Rv = 0.05 + 0.009 (46)$$

$$Rv = 0.46$$

A = site area (acres)

$$WQv = P * Rv * A / 12$$

$$WQv = 0.098 \text{ acre-feet}$$

$$WQv = \underline{4288} \text{ CF}$$

$$10\% WQv = \underline{429} \text{ CF}$$

$$25\% WQv = \underline{1072} \text{ CF}$$

$$50\% WQv = \underline{2144} \text{ CF}$$

$$75\% WQv = \underline{3216} \text{ CF}$$

WATER QUALITY VOLUME CALCULATION

Name: Hudson Valley Community College RRv

DATA:

Drainage Area, A = 2.390 ac
Rainfall, P= 0.95 in
Impervious %, I = 51 %

$$WQv = (P) * (Rv) * (A) / 12$$

WQv = water quality volume (acre-feet)

P = 90% rainfall event number

(See Fig 4.1 in NYS Stormwater Management Design Manual)

Rv = runoff volume = $0.05 + .009 (I)$, where I is the percent impervious cover

$$Rv = 0.05 + 0.009 (46)$$

$$Rv = 0.51$$

A = site area (acres)

$$WQv = P * Rv * A / 12$$

$$WQv = 0.096 \text{ acre-feet}$$

$$WQv = \underline{4195} \text{ CF}$$

$$10\% WQv = \underline{420} \text{ CF}$$

$$25\% WQv = \underline{1049} \text{ CF}$$

$$50\% WQv = \underline{2098} \text{ CF}$$

$$75\% WQv = \underline{3146} \text{ CF}$$

APPENDIX F

Runoff Reduction Worksheet

STORMWATER MANAGEMENT

2/16/11

PLANNING AND PRACTICE SELECTION WORKSHEET FOR NEW PROJECTS IN NON-IMPAIRED WATERSHEDS*

* Use different methods for enhanced phosphorus treatment and re-development projects.

PROJECT: HVCC DATE: 3/25/16

Watershed Drainage Area: DA: 2.68 (acres) Soils: HSG(s): C 90% RAIN: (P) .95 (inches)

PLANNING

1. Plan to preserve, avoid and minimize (underline all concepts utilized):

- Preserve undisturbed, natural buffer, and critical environment areas
- Employ open space, conservation, and clustering site design techniques
- Avoid developing in environmentally sensitive areas: floodplain, steep slopes, habitat, ecosystems, bedrock, wetlands, shorelines, shallow groundwater, impervious soils, unstable soils
- Minimize impervious surfaces: building footprints, parking, roads, sidewalks, and driveways
- Minimize clearing and grading

WATER QUALITY VOLUME (before runoff reduction)

2. Calculate water quality volume (WQv): $WQv = P \cdot A \cdot Rv / 12$

DA = 2.68; Impervious area* (AI) = 1.23 acres; Rv = .46;
* If soil restoration is not practiced, include construction compacted areas as impervious.

original WQv = .098 ac-ft

3. Minimum RRv requirements (when 100% WQv reduction cannot be achieved)

(Calculate minimum required Runoff Reduction Volume (RRv) using):

$RRv = 90\% \text{ rain } (P) \times .95 \times S \times \text{total impervious area (AI from \#2)} / 12$

with S = .55 (A soils); .40 (B soils); .30 (C soils); .20 (D soils); OR weighted HSG average in DA

Minimum required RRv = (P) .95 " x .95 x (S) .30 x (AI) 1.23 ac/12 = Minimum RRv required = .027 ac-ft

AREA REDUCTION PRACTICES

4. Incorporate area reduction practices (complete for all applicable practices): (area includes practice and contributing area)

- | | | |
|--|----------------------------------|-------------------------------------|
| • Conservation of natural areas: | (contributing AI = _____ ac.) | Area = _____ ac. |
| • Riparian buffers/filter strips: | (contributing AI = <u>0</u> ac.) | Area = <u>.09</u> ac. |
| • Tree planting/tree preservation: | (contributing AI = <u>0</u> ac.) | Area = <u>.20</u> ac. |
| • Total area reduction: | | Total Area Reduced = <u>.29</u> ac. |
| • Total impervious area within area reduction: | | AI in Reduced Area = <u>0</u> ac. |

5. Subtract total area reduction from DA:

Remaining drainage area: (#2 area - #4 area)

Remaining Drainage Area = 2.39 ac.

Remaining impervious area: (#2 AI - #4 AI)

Remaining AI = 1.23 ac.

6. Recalculate WQv for site area remaining after area reductions:

Remaining DA = 2.39; remaining AI = 1.23 ac.; Rv = .51; area reduced WQv = .096 ac-ft

7. Runoff reduction volume (RRv) from #2: (#2 WQv - #6 WQv) =

RRv = .002 ac-ft

ROOFTOP DISCONNECTION

8. Incorporate rooftop area disconnection:

Total disconnected rooftop area (now considered pervious for RV calculation(s)) Area = _____ ac.

9. Recalculate WQv with RV modified for impervious disconnection:

DA (from #5) = _____ acres; (remaining AI = _____ ac.); Rv = _____; Rv reduced WQv = _____ ac-ft

10. Runoff reduction volume: #6 (area reduced WQv) - #9 (Rv reduced WQv) =

RRv = 0 ac-ft

SOURCE CONTROL WQv TREATMENT PRACTICES

(From attached worksheet)

11a. Subtotal DA tributary to Source Control treatment practices = 2.39 (acres)

11b. Subtotal AI treated by Source Control practices AI = 1.23 (ac-ft)

11c. Subtotal Runoff Reduction Volume (RRv) =

Sub total (Rv) RRv = .096 (ac-ft)

TOTAL RUNOFF REDUCTION VOLUME (RRv)

12a. Total RRv calculated (#7 + #10 + #11c) = Total (RRv) =

Total calculated RRv = .098 ac-ft

12b. Total RRv provided =

Total provided RRv = .098 ac-ft

13. Is provided RRv (#12b) ≥ original WQv (#2)? Yes No If yes, skip to #18.

14. Is provided RRv (#12b) ≥ minimum RRv (#3)? Yes _____ No _____ If no, provide additional RRv and recalculate, or provide justification.

15a. Total drainage area treated with runoff reduction/source control practices = _____ acres.

(Area reduction (from #4) + total DA tributary to source control (#11.a))

15b. Total impervious area (AI) treated with are reduction or source control (AI #4 + AI #8 + AI #11b)

Total treated AI = _____ acres.

16a. Is all of the watershed DA treated by either area reduction or source control practices?

Yes No If yes, skip to #18 If no, go to 16b.

16b. Is all the watershed impervious area (AI) treated with either are reduction or source control practices?

Yes _____ No _____ If no, provide justification.

Go to #17.

STANDARD WQv TREATMENT

17. Provide treatment for any remaining untreated watershed DA with standard practices:

Remaining untreated DA = Watershed DA (#2) _____ acre(s) – treated DA (#15) _____ acres = _____ acres

Remaining impervious area = total AI (#2) – treated AI (#15b) = _____ acres

Remaining DA = _____ acres; remaining AI = _____ acre(s); RV = _____*; WQv = _____ (ac-ft)

- Ponds WQv provided = _____ ac-ft
- Wetlands WQv provided = _____ ac-ft
- Infiltration WQv provided = _____ ac-ft
- Filters WQv provided = _____ ac-ft
- Open channels WQv provided = _____ ac-ft

* Minimum Rv for standard practices is 0.2.

11. SOURCE CONTROL WQV TREATMENT PRACTICES WORKSHEET - (complete for all applicable practices and soil types).

Standard Practices (used as source control)		Allowable Runoff Reduction Volume (RRv)	
<ul style="list-style-type: none"> Infiltration (soils with k>0.5"/hour only) 			
DA tributary to practice: _____ acre(s) AI = _____ acre(s) RV = _____ WQv = _____ (ac-ft)		90% of WQv = _____ ac-ft (k>.5"/hour soils only)	
<ul style="list-style-type: none"> Bioretention 		80% of WQv = _____ ac-ft (A/B soils) OR	
DA tributary to practice: _____ acre(s) AI = _____ acre(s) RV = _____ WQv = _____ (ac-ft)		40% of WQv = _____ ac-ft (C/D soils)	
<ul style="list-style-type: none"> Dry Swale 		40% of WQv = _____ ac-ft (A/B soils) OR	
DA tributary to practice: _____ acre(s) AI = _____ acre(s) RV = _____ WQv = _____ (ac-ft)		20% of WQv = _____ ac-ft (C/D soils)	
Green Infrastructure Practices			
<ul style="list-style-type: none"> Vegetated swale 		20% of WQv = _____ ac-ft (A/B soils) OR	
DA tributary to practice: _____ acre(s) AI = _____ acre(s) RV = _____ WQv = _____ (ac-ft)		10% of WQv = _____ ac-ft (C/D soils)	
<ul style="list-style-type: none"> Green roof 		100% of WQv = _____ ac-ft	
Roof area = _____ acre(s) Rv = .95			
<ul style="list-style-type: none"> Rain Garden 		100% of WQv = _____ ac-ft (A/B soils) OR	
Roof area = _____ acre(s) Rv = .95		40% of WQv = _____ ac-ft (C/D soils)	
<ul style="list-style-type: none"> Stormwater planters 		100% of WQv = _____ ac-ft	
DA tributary to practice: _____ acre(s) AI = _____ acre(s) RV = _____ WQv = _____ (ac-ft)			
<ul style="list-style-type: none"> Cisterns/rain barrels 		100% of WQv = _____ ac-ft	
Roof area = _____ acre(s) Rv = .95			
<ul style="list-style-type: none"> Porous pavement (A/B/C soils only) 		100% of WQv = _____ ac-ft	
DA tributary to practice: <u>2.39</u> acre(s) AI = <u>1.23</u> acre(s) RV = <u>0.51</u> WQv = <u>.096</u> (ac-ft)			
11a. Subtotal DA tributary to Source Control WQv Treatment practices = <u>2.39</u> (acres)			
11b. Subtotal AI treated by Source Control practices AI = <u>1.23</u> (acres)			
11c. Subtotal Runoff Reduction Volume (RRv):			
			Sub total (Rv) RRv = <u>.096</u> (ac-ft)

APPENDIX G

NYSDEC SPDES General Permit GP-0-15-002



Department of
Environmental
Conservation

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
SPDES GENERAL PERMIT
FOR STORMWATER DISCHARGES

From

CONSTRUCTION ACTIVITY

Permit No. GP-0-15-002

Issued Pursuant to Article 17, Titles 7, 8 and Article 70
of the Environmental Conservation Law

Effective Date: January 29, 2015

Expiration Date: January 28, 2020

Modification Date:

July 14, 2015 – Correction of typographical error in definition of “New Development”,
Appendix A

John J. Ferguson
Chief Permit Administrator


Authorized Signature

Date

7-15-15

Address: NYS DEC
Division of Environmental Permits
625 Broadway, 4th Floor
Albany, N.Y. 12233-1750

PREFACE

Pursuant to Section 402 of the Clean Water Act (“CWA”), stormwater *discharges* from certain *construction activities* are unlawful unless they are authorized by a *National Pollutant Discharge Elimination System (“NPDES”)* permit or by a state permit program. New York’s *State Pollutant Discharge Elimination System (“SPDES”)* is a NPDES-approved program with permits issued in accordance with the *Environmental Conservation Law (“ECL”)*.

This general permit (“permit”) is issued pursuant to Article 17, Titles 7, 8 and Article 70 of the ECL. An *owner or operator* may obtain coverage under this permit by submitting a Notice of Intent (“NOI”) to the Department. Copies of this permit and the NOI for New York are available by calling (518) 402-8109 or at any New York State Department of Environmental Conservation (“the Department”) regional office (see Appendix G). They are also available on the Department’s website at:

<http://www.dec.ny.gov/>

An *owner or operator* of a *construction activity* that is eligible for coverage under this permit must obtain coverage prior to the *commencement of construction activity*. Activities that fit the definition of “*construction activity*”, as defined under 40 CFR 122.26(b)(14)(x), (15)(i), and (15)(ii), constitute construction of a point source and therefore, pursuant to Article 17-0505 of the ECL, the *owner or operator* must have coverage under a SPDES permit prior to *commencing construction activity*. They cannot wait until there is an actual *discharge* from the construction site to obtain permit coverage.

***Note: The italicized words/phrases within this permit are defined in Appendix A.**

**NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
SPDES GENERAL PERMIT FOR STORMWATER DISCHARGES
FROM CONSTRUCTION ACTIVITIES**

Part I. PERMIT COVERAGE AND LIMITATIONS	1
A. Permit Application	1
B. Effluent Limitations Applicable to Discharges from Construction Activities	1
C. Post-construction Stormwater Management Practice Requirements	4
D. Maintaining Water Quality	8
E. Eligibility Under This General Permit.....	9
F. Activities Which Are Ineligible for Coverage Under This General Permit	9
Part II. OBTAINING PERMIT COVERAGE	12
A. Notice of Intent (NOI) Submittal	12
B. Permit Authorization.....	13
C. General Requirements For Owners or Operators With Permit Coverage	15
D. Permit Coverage for Discharges Authorized Under GP-0-10-001.....	17
E. Change of <i>Owner or Operator</i>	17
Part III. STORMWATER POLLUTION PREVENTION PLAN (SWPPP).....	18
A. General SWPPP Requirements	18
B. Required SWPPP Contents	20
C. Required SWPPP Components by Project Type.....	23
Part IV. INSPECTION AND MAINTENANCE REQUIREMENTS	24
A. General Construction Site Inspection and Maintenance Requirements	24
B. Contractor Maintenance Inspection Requirements	24
C. Qualified Inspector Inspection Requirements.....	24
Part V. TERMINATION OF PERMIT COVERAGE.....	28
A. Termination of Permit Coverage	28
Part VI. REPORTING AND RETENTION OF RECORDS	30
A. Record Retention	30
B. Addresses	30
Part VII. STANDARD PERMIT CONDITIONS.....	31
A. Duty to Comply.....	31
B. Continuation of the Expired General Permit.....	31
C. Enforcement.....	31
D. Need to Halt or Reduce Activity Not a Defense.....	31
E. Duty to Mitigate	32
F. Duty to Provide Information.....	32
G. Other Information	32
H. Signatory Requirements.....	32
I. Property Rights.....	34
J. Severability.....	34
K. Requirement to Obtain Coverage Under an Alternative Permit.....	34
L. Proper Operation and Maintenance	35
M. Inspection and Entry	35
N. Permit Actions	36
O. Definitions	36
P. Re-Opener Clause	36

Q. Penalties for Falsification of Forms and Reports.....	36
R. Other Permits.....	36
APPENDIX A.....	37
APPENDIX B.....	44
APPENDIX C.....	46
APPENDIX D.....	52
APPENDIX E.....	53
APPENDIX F.....	55

(Part I)

I.

Part I. PERMIT COVERAGE AND LIMITATIONS

A. Permit Application

This permit authorizes stormwater *discharges to surface waters of the State* from the following *construction activities* identified within 40 CFR Parts 122.26(b)(14)(x), 122.26(b)(15)(i) and 122.26(b)(15)(ii), provided all of the eligibility provisions of this permit are met:

1. *Construction activities* involving soil disturbances of one (1) or more acres; including disturbances of less than one acre that are part of a *larger common plan of development or sale* that will ultimately disturb one or more acres of land; excluding *routine maintenance activity* that is performed to maintain the original line and grade, hydraulic capacity or original purpose of a facility;
2. *Construction activities* involving soil disturbances of less than one (1) acre where the Department has determined that a *SPDES* permit is required for stormwater *discharges* based on the potential for contribution to a violation of a *water quality standard* or for significant contribution of *pollutants* to *surface waters of the State*.
3. *Construction activities* located in the watershed(s) identified in Appendix D that involve soil disturbances between five thousand (5,000) square feet and one (1) acre of land.

B. Effluent Limitations Applicable to Discharges from Construction Activities

Discharges authorized by this permit must achieve, at a minimum, the effluent limitations in Part I.B.1. (a) – (f) of this permit. These limitations represent the degree of effluent reduction attainable by the application of best practicable technology currently available.

1. Erosion and Sediment Control Requirements - The *owner or operator* must select, design, install, implement and maintain control measures to *minimize the discharge of pollutants* and prevent a violation of the *water quality standards*. The selection, design, installation, implementation, and maintenance of these control measures must meet the non-numeric effluent limitations in Part I.B.1.(a) – (f) of this permit and be in accordance with the New York State Standards and Specifications for Erosion and Sediment Control, dated August 2005, using sound engineering judgment. Where control measures are not designed in conformance with the design criteria included in the technical standard, the *owner or operator* must include in the Stormwater Pollution Prevention Plan (“SWPPP”) the reason(s) for the deviation or alternative design and provide information

(Part I.B.1)

which demonstrates that the deviation or alternative design is *equivalent* to the technical standard.

a. **Erosion and Sediment Controls.** Design, install and maintain effective erosion and sediment controls to *minimize* the *discharge* of *pollutants* and prevent a violation of the *water quality standards*. At a minimum, such controls must be designed, installed and maintained to:

- (i) *Minimize* soil erosion through application of runoff control and soil stabilization control measure to *minimize pollutant discharges*;
- (ii) Control stormwater *discharges* to *minimize* channel and streambank erosion and scour in the immediate vicinity of the *discharge* points;
- (iii) *Minimize* the amount of soil exposed during *construction activity*;
- (iv) *Minimize* the disturbance of *steep slopes*;
- (v) *Minimize* sediment *discharges* from the site;
- (vi) Provide and maintain natural buffers around surface waters, direct stormwater to vegetated areas and maximize stormwater infiltration to reduce *pollutant discharges*, unless *infeasible*;
- (vii) *Minimize* soil compaction. Minimizing soil compaction is not required where the intended function of a specific area of the site dictates that it be compacted; and
- (viii) Unless *infeasible*, preserve a sufficient amount of topsoil to complete soil restoration and establish a uniform, dense vegetative cover.

b. **Soil Stabilization.** In areas where soil disturbance activity has temporarily or permanently ceased, the application of soil stabilization measures must be initiated by the end of the next business day and completed within fourteen (14) days from the date the current soil disturbance activity ceased. For construction sites that *directly discharge* to one of the 303(d) segments listed in Appendix E or is located in one of the watersheds listed in Appendix C, the application of soil stabilization measures must be initiated by the end of the next business day and completed within seven (7) days from the date the current soil disturbance activity ceased. See Appendix A for definition of *Temporarily Ceased*.

c. **Dewatering.** *Discharges* from dewatering activities, including *discharges*

(Part I.B.1.c)

from dewatering of trenches and excavations, must be managed by appropriate control measures.

d. **Pollution Prevention Measures.** Design, install, implement, and maintain effective pollution prevention measures to *minimize* the *discharge* of *pollutants* and prevent a violation of the *water quality standards*. At a minimum, such measures must be designed, installed, implemented and maintained to:

- (i) *Minimize* the *discharge* of *pollutants* from equipment and vehicle washing, wheel wash water, and other wash waters. This applies to washing operations that use clean water only. Soaps, detergents and solvents cannot be used;
- (ii) *Minimize* the exposure of building materials, building products, construction wastes, trash, landscape materials, fertilizers, pesticides, herbicides, detergents, sanitary waste and other materials present on the site to precipitation and to stormwater. Minimization of exposure is not required in cases where the exposure to precipitation and to stormwater will not result in a *discharge* of *pollutants*, or where exposure of a specific material or product poses little risk of stormwater contamination (such as final products and materials intended for outdoor use) ; and
- (iii) Prevent the *discharge* of *pollutants* from spills and leaks and implement chemical spill and leak prevention and response procedures.

e. **Prohibited Discharges.** The following *discharges* are prohibited:

- (i) Wastewater from washout of concrete;
- (ii) Wastewater from washout and cleanout of stucco, paint, form release oils, curing compounds and other construction materials;
- (iii) Fuels, oils, or other *pollutants* used in vehicle and equipment operation and maintenance;
- (iv) Soaps or solvents used in vehicle and equipment washing; and
- (v) Toxic or hazardous substances from a spill or other release.

f. **Surface Outlets.** When discharging from basins and impoundments, the outlets shall be designed, constructed and maintained in such a manner that sediment does not leave the basin or impoundment and that erosion

(Part I.B.1.f)

at or below the outlet does not occur.

C. Post-construction Stormwater Management Practice Requirements

1. The *owner or operator* of a *construction activity* that requires post-construction stormwater management practices pursuant to Part III.C. of this permit must select, design, install, and maintain the practices to meet the *performance criteria* in the New York State Stormwater Management Design Manual (“Design Manual”), dated January 2015, using sound engineering judgment. Where post-construction stormwater management practices (“SMPs”) are not designed in conformance with the *performance criteria* in the Design Manual, the *owner or operator* must include in the SWPPP the reason(s) for the deviation or alternative design and provide information which demonstrates that the deviation or alternative design is *equivalent* to the technical standard.
2. The *owner or operator* of a *construction activity* that requires post-construction stormwater management practices pursuant to Part III.C. of this permit must design the practices to meet the applicable *sizing criteria* in Part I.C.2.a., b., c. or d. of this permit.

a. Sizing Criteria for New Development

- (i) Runoff Reduction Volume (“RRv”): Reduce the total Water Quality Volume (“WQv”) by application of RR techniques and standard SMPs with RRv capacity. The total WQv shall be calculated in accordance with the criteria in Section 4.2 of the Design Manual.
- (ii) Minimum RRv and Treatment of Remaining Total WQv: *Construction activities* that cannot meet the criteria in Part I.C.2.a.(i) of this permit due to *site limitations* shall direct runoff from all newly constructed *impervious areas* to a RR technique or standard SMP with RRv capacity unless *infeasible*. The specific *site limitations* that prevent the reduction of 100% of the WQv shall be documented in the SWPPP. For each *impervious area* that is not directed to a RR technique or standard SMP with RRv capacity, the SWPPP must include documentation which demonstrates that all options were considered and for each option explains why it is considered *infeasible*.

In no case shall the runoff reduction achieved from the newly constructed *impervious areas* be less than the Minimum RRv as calculated using the criteria in Section 4.3 of the Design Manual. The remaining portion of the total WQv

(Part I.C.2.a.ii)

that cannot be reduced shall be treated by application of standard SMPs.

- (iii) Channel Protection Volume (“Cpv”): Provide 24 hour extended detention of the post-developed 1-year, 24-hour storm event; remaining after runoff reduction. The Cpv requirement does not apply when:
 - (1) Reduction of the entire Cpv is achieved by application of runoff reduction techniques or infiltration systems, or
 - (2) The site *discharges* directly to tidal waters, or fifth order or larger streams.
- (iv) Overbank Flood Control Criteria (“Qp”): Requires storage to attenuate the post-development 10-year, 24-hour peak *discharge* rate (Qp) to predevelopment rates. The Qp requirement does not apply when:
 - (1) the site *discharges* directly to tidal waters or fifth order or larger streams, or
 - (2) A downstream analysis reveals that overbank control is not required.
- (v) Extreme Flood Control Criteria (“Qf”): Requires storage to attenuate the post-development 100-year, 24-hour peak *discharge* rate (Qf) to predevelopment rates. The Qf requirement does not apply when:
 - (1) the site *discharges* directly to tidal waters or fifth order or larger streams, or
 - (2) A downstream analysis reveals that overbank control is not required.

b. Sizing Criteria for New Development in Enhanced Phosphorus Removal Watershed

- (i) Runoff Reduction Volume (RRv): Reduce the total Water Quality Volume (WQv) by application of RR techniques and standard SMPs with RRv capacity. The total WQv is the runoff volume from the 1-year, 24 hour design storm over the post-developed watershed and shall be calculated in accordance with the criteria in Section 10.3 of the Design Manual.
- (ii) Minimum RRv and Treatment of Remaining Total WQv: *Construction activities* that cannot meet the criteria in Part I.C.2.b.(i) of this permit due to *site limitations* shall direct runoff from all newly constructed *impervious areas* to a RR technique or

(Part I.C.2.b.ii)

standard SMP with RRv capacity unless *infeasible*. The specific *site limitations* that prevent the reduction of 100% of the WQv shall be documented in the SWPPP. For each *impervious area* that is not directed to a RR technique or standard SMP with RRv capacity, the SWPPP must include documentation which demonstrates that all options were considered and for each option explains why it is considered *infeasible*.

In no case shall the runoff reduction achieved from the newly constructed *impervious areas* be less than the Minimum RRv as calculated using the criteria in Section 10.3 of the Design Manual. The remaining portion of the total WQv that cannot be reduced shall be treated by application of standard SMPs.

- (iii) Channel Protection Volume (Cpv): Provide 24 hour extended detention of the post-developed 1-year, 24-hour storm event; remaining after runoff reduction. The Cpv requirement does not apply when:
 - (1) Reduction of the entire Cpv is achieved by application of runoff reduction techniques or infiltration systems, or
 - (2) The site *discharges* directly to tidal waters, or fifth order or larger streams.
- (iv) Overbank Flood Control Criteria (Qp): Requires storage to attenuate the post-development 10-year, 24-hour peak *discharge* rate (Qp) to predevelopment rates. The Qp requirement does not apply when:
 - (1) the site *discharges* directly to tidal waters or fifth order or larger streams, or
 - (2) A downstream analysis reveals that overbank control is not required.
- (v) Extreme Flood Control Criteria (Qf): Requires storage to attenuate the post-development 100-year, 24-hour peak *discharge* rate (Qf) to predevelopment rates. The Qf requirement does not apply when:
 - (1) the site *discharges* directly to tidal waters or fifth order or larger streams, or
 - (2) A downstream analysis reveals that overbank control is not required.

c. Sizing Criteria for Redevelopment Activity

(Part I.C.2.c.i)

- (i) Water Quality Volume (WQv): The WQv treatment objective for *redevelopment activity* shall be addressed by one of the following options. *Redevelopment activities* located in an Enhanced Phosphorus Removal Watershed (see Part III.B.3. and Appendix C of this permit) shall calculate the WQv in accordance with Section 10.3 of the Design Manual. All other *redevelopment activities* shall calculate the WQv in accordance with Section 4.2 of the Design Manual.
- (1) Reduce the existing *impervious cover* by a minimum of 25% of the total disturbed, *impervious area*. The Soil Restoration criteria in Section 5.1.6 of the Design Manual must be applied to all newly created pervious areas, or
 - (2) Capture and treat a minimum of 25% of the WQv from the disturbed, *impervious area* by the application of standard SMPs; or reduce 25% of the WQv from the disturbed, *impervious area* by the application of RR techniques or standard SMPs with RRv capacity., or
 - (3) Capture and treat a minimum of 75% of the WQv from the disturbed, *impervious area* as well as any additional runoff from tributary areas by application of the alternative practices discussed in Sections 9.3 and 9.4 of the Design Manual., or
 - (4) Application of a combination of 1, 2 and 3 above that provide a weighted average of at least two of the above methods. Application of this method shall be in accordance with the criteria in Section 9.2.1(B) (IV) of the Design Manual.

If there is an existing post-construction stormwater management practice located on the site that captures and treats runoff from the *impervious area* that is being disturbed, the WQv treatment option selected must, at a minimum, provide treatment equal to the treatment that was being provided by the existing practice(s) if that treatment is greater than the treatment required by options 1 – 4 above.

- (ii) Channel Protection Volume (Cpv): Not required if there are no changes to hydrology that increase the *discharge* rate from the project site.
- (iii) Overbank Flood Control Criteria (Qp): Not required if there are no changes to hydrology that increase the *discharge* rate from the project site.

(Part I.C.2.c.iv)

- (iv) Extreme Flood Control Criteria (Qf): Not required if there are no changes to hydrology that increase the *discharge* rate from the project site.

d. Sizing Criteria for Combination of Redevelopment Activity and New Development

Construction projects that include both *New Development* and *Redevelopment Activity* shall provide post-construction stormwater management controls that meet the *sizing criteria* calculated as an aggregate of the *Sizing Criteria* in Part I.C.2.a. or b. of this permit for the *New Development* portion of the project and Part I.C.2.c of this permit for *Redevelopment Activity* portion of the project.

D. Maintaining Water Quality

The Department expects that compliance with the conditions of this permit will control *discharges* necessary to meet applicable *water quality standards*. It shall be a violation of the *ECL* for any discharge to either cause or contribute to a violation of *water quality standards* as contained in Parts 700 through 705 of Title 6 of the Official Compilation of Codes, Rules and Regulations of the State of New York, such as:

1. There shall be no increase in turbidity that will cause a substantial visible contrast to natural conditions;
2. There shall be no increase in suspended, colloidal or settleable solids that will cause deposition or impair the waters for their best usages; and
3. There shall be no residue from oil and floating substances, nor visible oil film, nor globules of grease.

If there is evidence indicating that the stormwater *discharges* authorized by this permit are causing, have the reasonable potential to cause, or are contributing to a violation of the *water quality standards*; the *owner or operator* must take appropriate corrective action in accordance with Part IV.C.5. of this general permit and document in accordance with Part IV.C.4. of this general permit. To address the *water quality standard* violation the *owner or operator* may need to provide additional information, include and implement appropriate controls in the SWPPP to correct the problem, or obtain an individual SPDES permit.

If there is evidence indicating that despite compliance with the terms and conditions of this general permit it is demonstrated that the stormwater *discharges* authorized by this permit are causing or contributing to a violation of *water quality standards*, or

(Part I.D)

if the Department determines that a modification of the permit is necessary to prevent a violation of *water quality standards*, the authorized *discharges* will no longer be eligible for coverage under this permit. The Department may require the *owner or operator* to obtain an individual SPDES permit to continue discharging.

E. Eligibility Under This General Permit

1. This permit may authorize all *discharges* of stormwater from *construction activity to surface waters of the State* and *groundwaters* except for ineligible *discharges* identified under subparagraph F. of this Part.
2. Except for non-stormwater *discharges* explicitly listed in the next paragraph, this permit only authorizes stormwater *discharges* from *construction activities*.
3. Notwithstanding paragraphs E.1 and E.2 above, the following non-stormwater *discharges* may be authorized by this permit: *discharges* from firefighting activities; fire hydrant flushings; waters to which cleansers or other components have not been added that are used to wash vehicles or control dust in accordance with the SWPPP, routine external building washdown which does not use detergents; pavement washwaters where spills or leaks of toxic or hazardous materials have not occurred (unless all spilled material has been removed) and where detergents are not used; air conditioning condensate; uncontaminated *groundwater* or spring water; uncontaminated *discharges* from construction site de-watering operations; and foundation or footing drains where flows are not contaminated with process materials such as solvents. For those entities required to obtain coverage under this permit, and who *discharge* as noted in this paragraph, and with the exception of flows from firefighting activities, these *discharges* must be identified in the SWPPP. Under all circumstances, the *owner or operator* must still comply with *water quality standards* in Part I.D of this permit.
4. The *owner or operator* must maintain permit eligibility to *discharge* under this permit. Any *discharges* that are not compliant with the eligibility conditions of this permit are not authorized by the permit and the *owner or operator* must either apply for a separate permit to cover those ineligible *discharges* or take steps necessary to make the *discharge* eligible for coverage.

F. Activities Which Are Ineligible for Coverage Under This General Permit

All of the following are **not** authorized by this permit:

(Part I.F)

1. *Discharges after construction activities* have been completed and the site has undergone *final stabilization*;
2. *Discharges* that are mixed with sources of non-stormwater other than those expressly authorized under subsection E.3. of this Part and identified in the SWPPP required by this permit;
3. *Discharges* that are required to obtain an individual SPDES permit or another SPDES general permit pursuant to Part VII.K. of this permit;
4. *Construction activities or discharges from construction activities* that may adversely affect an endangered or threatened species unless the *owner or operator* has obtained a permit issued pursuant to 6 NYCRR Part 182 for the project or the Department has issued a letter of non-jurisdiction for the project. All documentation necessary to demonstrate eligibility shall be maintained on site in accordance with Part II.C.2 of this permit.
5. *Discharges* which either cause or contribute to a violation of *water quality standards* adopted pursuant to the *ECL* and its accompanying regulations;
6. *Construction activities* for residential, commercial and institutional projects:
 - a. Where the *discharges* from the *construction activities* are tributary to waters of the state classified as AA or AA-s; and
 - b. Which disturb one or more acres of land with no existing *impervious cover*, and
 - c. Which are undertaken on land with a Soil Slope Phase that is identified as an E or F, or the map unit name is inclusive of 25% or greater slope, on the United States Department of Agriculture (“USDA”) Soil Survey for the County where the disturbance will occur.
7. *Construction activities* for linear transportation projects and linear utility projects:
 - a. Where the *discharges* from the *construction activities* are tributary to waters of the state classified as AA or AA-s; and
 - b. Which disturb two or more acres of land with no existing *impervious cover*, and
 - c. Which are undertaken on land with a Soil Slope Phase that is identified as an E or F, or the map unit name is inclusive of 25% or greater slope, on the USDA Soil Survey for the County where the disturbance will occur.

(Part I.F.8)

8. *Construction activities* that have the potential to affect an *historic property*, unless there is documentation that such impacts have been resolved. The following documentation necessary to demonstrate eligibility with this requirement shall be maintained on site in accordance with Part II.C.2 of this permit and made available to the Department in accordance with Part VII.F of this permit:
 - a. Documentation that the *construction activity* is not within an archeologically sensitive area indicated on the sensitivity map, and that the *construction activity* is not located on or immediately adjacent to a property listed or determined to be eligible for listing on the National or State Registers of Historic Places, and that there is no new permanent building on the construction site within the following distances from a building, structure, or object that is more than 50 years old, or if there is such a new permanent building on the construction site within those parameters that NYS Office of Parks, Recreation and Historic Preservation (OPRHP), a Historic Preservation Commission of a Certified Local Government, or a qualified preservation professional has determined that the building, structure, or object more than 50 years old is not historically/archeologically significant.
 - 1-5 acres of disturbance - 20 feet
 - 5-20 acres of disturbance - 50 feet
 - 20+ acres of disturbance - 100 feet, or
 - b. DEC consultation form sent to OPRHP, and copied to the NYS DEC Agency Historic Preservation Officer (APO), and
 - (i) the State Environmental Quality Review (SEQR) Environmental Assessment Form (EAF) with a negative declaration or the Findings Statement, with documentation of OPRHP's agreement with the resolution; or
 - (ii) documentation from OPRHP that the *construction activity* will result in No Impact; or
 - (iii) documentation from OPRHP providing a determination of No Adverse Impact; or
 - (iv) a Letter of Resolution signed by the owner/operator, OPRHP and the DEC APO which allows for this *construction activity* to be eligible for coverage under the general permit in terms of the State Historic Preservation Act (SHPA); or
 - c. Documentation of satisfactory compliance with Section 106 of the National Historic Preservation Act for a coterminous project area:
 - (i) No Affect
 - (ii) No Adverse Affect

(Part I.F.8.c.iii)

(iii) Executed Memorandum of Agreement, or

d. Documentation that:

(i) SHPA Section 14.09 has been completed by NYS DEC or another state agency.

9. *Discharges from construction activities* that are subject to an existing SPDES individual or general permit where a SPDES permit for *construction activity* has been terminated or denied; or where the *owner or operator* has failed to renew an expired individual permit.

II. Part II. OBTAINING PERMIT COVERAGE

A. Notice of Intent (NOI) Submittal

1. An *owner or operator* of a *construction activity* that is not subject to the requirements of a *regulated, traditional land use control MS4* must first prepare a SWPPP in accordance with all applicable requirements of this permit and then submit a completed NOI form to the Department in order to be authorized to *discharge* under this permit. An *owner or operator* shall use either the electronic (eNOI) or paper version of the NOI that the Department prepared. Both versions of the NOI are located on the Department's website (<http://www.dec.ny.gov/>). The paper version of the NOI shall be signed in accordance with Part VII.H. of this permit and submitted to the following address.

**NOTICE OF INTENT
NYS DEC, Bureau of Water Permits
625 Broadway, 4th Floor
Albany, New York 12233-3505**

2. An *owner or operator* of a *construction activity* that is subject to the requirements of a *regulated, traditional land use control MS4* must first prepare a SWPPP in accordance with all applicable requirements of this permit and then have its SWPPP reviewed and accepted by the *regulated, traditional land use control MS4* prior to submitting the NOI to the Department. The *owner or operator* shall have the "MS4 SWPPP Acceptance" form signed in accordance with Part VII.H., and then submit that form along with a completed NOI to the Department. An *owner or operator* shall use either the electronic (eNOI) or paper version of the NOI.

The paper version of the NOI shall be signed in accordance with Part VII.H. of this permit and submitted to the address in Part II.A.1.

(Part II.A.2)

The requirement for an *owner or operator* to have its SWPPP reviewed and accepted by the *MS4* prior to submitting the NOI to the Department does not apply to an *owner or operator* that is obtaining permit coverage in accordance with the requirements in Part II.E. (Change of *Owner or Operator*) or where the *owner or operator* of the *construction activity* is the *regulated, traditional land use control MS4*.

3. The *owner or operator* shall have the SWPPP preparer sign the “SWPPP Preparer Certification” statement on the NOI prior to submitting the form to the Department.
4. As of the date the NOI is submitted to the Department, the *owner or operator* shall make the NOI and SWPPP available for review and copying in accordance with the requirements in Part VII.F. of this permit.

B. Permit Authorization

1. An *owner or operator* shall not *commence construction activity* until their authorization to *discharge* under this permit goes into effect.
2. Authorization to *discharge* under this permit will be effective when the *owner or operator* has satisfied all of the following criteria:
 - a. project review pursuant to the State Environmental Quality Review Act (“SEQRA”) have been satisfied, when SEQRA is applicable. See the Department’s website (<http://www.dec.ny.gov/>) for more information,
 - b. where required, all necessary Department permits subject to the *Uniform Procedures Act (“UPA”)* (see 6 NYCRR Part 621) have been obtained, unless otherwise notified by the Department pursuant to 6 NYCRR 621.3(a)(4). *Owners or operators of construction activities* that are required to obtain *UPA* permits must submit a preliminary SWPPP to the appropriate DEC Permit Administrator at the Regional Office listed in Appendix F at the time all other necessary *UPA* permit applications are submitted. The preliminary SWPPP must include sufficient information to demonstrate that the *construction activity* qualifies for authorization under this permit,
 - c. the final SWPPP has been prepared, and
 - d. a complete NOI has been submitted to the Department in accordance with the requirements of this permit.
3. An *owner or operator* that has satisfied the requirements of Part II.B.2 above

(Part II.B.3)

will be authorized to *discharge* stormwater from their *construction activity* in accordance with the following schedule:

a. For *construction activities* that are not subject to the requirements of a *regulated, traditional land use control MS4*:

- (i) Five (5) business days from the date the Department receives a complete electronic version of the NOI (eNOI) for *construction activities* with a SWPPP that has been prepared in conformance with the design criteria in the technical standard referenced in Part III.B.1 and the *performance criteria* in the technical standard referenced in Parts III.B., 2 or 3, for *construction activities* that require post-construction stormwater management practices pursuant to Part III.C.; or
- (ii) Sixty (60) business days from the date the Department receives a complete NOI (electronic or paper version) for *construction activities* with a SWPPP that has not been prepared in conformance with the design criteria in technical standard referenced in Part III.B.1. or, for *construction activities* that require post-construction stormwater management practices pursuant to Part III.C., the *performance criteria* in the technical standard referenced in Parts III.B., 2 or 3, or;
- (iii) Ten (10) business days from the date the Department receives a complete paper version of the NOI for *construction activities* with a SWPPP that has been prepared in conformance with the design criteria in the technical standard referenced in Part III.B.1 and the *performance criteria* in the technical standard referenced in Parts III.B., 2 or 3, for *construction activities* that require post-construction stormwater management practices pursuant to Part III.C.

b. For *construction activities* that are subject to the requirements of a *regulated, traditional land use control MS4*:

- (i) Five (5) business days from the date the Department receives both a complete electronic version of the NOI (eNOI) and signed “MS4 SWPPP Acceptance” form, or
- (ii) Ten (10) business days from the date the Department receives both a complete paper version of the NOI and signed “MS4 SWPPP Acceptance” form.

4. The Department may suspend or deny an *owner’s or operator’s* coverage

(Part II.B.4)

under this permit if the Department determines that the SWPPP does not meet the permit requirements. In accordance with statute, regulation, and the terms and conditions of this permit, the Department may deny coverage under this permit and require submittal of an application for an individual SPDES permit based on a review of the NOI or other information pursuant to Part II.

5. Coverage under this permit authorizes stormwater *discharges* from only those areas of disturbance that are identified in the NOI. If an *owner or operator* wishes to have stormwater *discharges* from future or additional areas of disturbance authorized, they must submit a new NOI that addresses that phase of the development, unless otherwise notified by the Department. The *owner or operator* shall not *commence construction activity* on the future or additional areas until their authorization to *discharge* under this permit goes into effect in accordance with Part II.B. of this permit.

C. General Requirements For Owners or Operators With Permit Coverage

1. The *owner or operator* shall ensure that the provisions of the SWPPP are implemented from the *commencement of construction activity* until all areas of disturbance have achieved *final stabilization* and the Notice of Termination (“NOT”) has been submitted to the Department in accordance with Part V. of this permit. This includes any changes made to the SWPPP pursuant to Part III.A.4. of this permit.
2. The *owner or operator* shall maintain a copy of the General Permit (GP-0-15-002), NOI, *NOI Acknowledgment Letter*, SWPPP, MS4 SWPPP Acceptance form, inspection reports, and all documentation necessary to demonstrate eligibility with this permit at the construction site until all disturbed areas have achieved *final stabilization* and the NOT has been submitted to the Department. The documents must be maintained in a secure location, such as a job trailer, on-site construction office, or mailbox with lock. The secure location must be accessible during normal business hours to an individual performing a compliance inspection.
3. The *owner or operator* of a *construction activity* shall not disturb greater than five (5) acres of soil at any one time without prior written authorization from the Department or, in areas under the jurisdiction of a *regulated, traditional land use control MS4*, the *regulated, traditional land use control MS4* (provided the *regulated, traditional land use control MS4* is not the *owner or operator* of the *construction activity*). At a minimum, the *owner or operator* must comply with the following requirements in order to be authorized to disturb greater than five (5) acres of soil at any one time:
 - a. The *owner or operator* shall

(Part II.C.3.a)

have a *qualified inspector* conduct **at least** two (2) site inspections in accordance with Part IV.C. of this permit every seven (7) calendar days, for as long as greater than five (5) acres of soil remain disturbed. The two (2) inspections shall be separated by a minimum of two (2) full calendar days.

- b. In areas where soil disturbance activity has temporarily or permanently ceased, the application of soil stabilization measures must be initiated by the end of the next business day and completed within seven (7) days from the date the current soil disturbance activity ceased. The soil stabilization measures selected shall be in conformance with the technical standard, New York State Standards and Specifications for Erosion and Sediment Control, dated August 2005.
 - c. The *owner or operator* shall prepare a phasing plan that defines maximum disturbed area per phase and shows required cuts and fills.
 - d. The *owner or operator* shall install any additional site specific practices needed to protect water quality.
 - e. The *owner or operator* shall include the requirements above in their SWPPP.
4. In accordance with statute, regulations, and the terms and conditions of this permit, the Department may suspend or revoke an *owner's or operator's* coverage under this permit at any time if the Department determines that the SWPPP does not meet the permit requirements. Upon a finding of significant non-compliance with the practices described in the SWPPP or violation of this permit, the Department may order an immediate stop to all activity at the site until the non-compliance is remedied. The stop work order shall be in writing, describe the non-compliance in detail, and be sent to the *owner or operator*.
5. For *construction activities* that are subject to the requirements of a *regulated, traditional land use control MS4*, the *owner or operator* shall notify the *regulated, traditional land use control MS4* in writing of any planned amendments or modifications to the post-construction stormwater management practice component of the SWPPP required by Part III.A. 4. and 5. of this permit. Unless otherwise notified by the *regulated, traditional land use control MS4*, the *owner or operator* shall have the SWPPP amendments or modifications reviewed and accepted by the *regulated, traditional land use control MS4* prior to commencing construction of the post-construction stormwater management practice

(Part II.D)

D. Permit Coverage for Discharges Authorized Under GP-0-10-001

1. Upon renewal of SPDES General Permit for Stormwater Discharges from *Construction Activity* (Permit No. GP-0-10-001), an *owner or operator* of a *construction activity* with coverage under GP-0-10-001, as of the effective date of GP-0-15-002, shall be authorized to *discharge* in accordance with GP-0-15-002, unless otherwise notified by the Department.

An *owner or operator* may continue to implement the technical/design components of the post-construction stormwater management controls provided that such design was done in conformance with the technical standards in place at the time of initial project authorization. However, they must comply with the other, non-design provisions of GP-0-15-002.

E. Change of *Owner or Operator*

2. When property ownership changes or when there is a change in operational control over the construction plans and specifications, the original *owner or operator* must notify the new *owner or operator*, in writing, of the requirement to obtain permit coverage by submitting a NOI with the Department. Once the new *owner or operator* obtains permit coverage, the original *owner or operator* shall then submit a completed NOT with the name and permit identification number of the new *owner or operator* to the Department at the address in Part II.A.1. of this permit. If the original *owner or operator* maintains ownership of a portion of the *construction activity* and will disturb soil, they must maintain their coverage under the permit.

Permit coverage for the new *owner or operator* will be effective as of the date the Department receives a complete NOI, provided the original *owner or operator* was not subject to a sixty (60) business day authorization period that has not expired as of the date the Department receives the NOI from the new *owner or operator*.

(Part III)

III. **Part III. STORMWATER POLLUTION PREVENTION PLAN (SWPPP)**

A. General SWPPP Requirements

1. A SWPPP shall be prepared and implemented by the *owner or operator* of each *construction activity* covered by this permit. The SWPPP must document the selection, design, installation, implementation and maintenance of the control measures and practices that will be used to meet the effluent limitations in Part I.B. of this permit and where applicable, the post-construction stormwater management practice requirements in Part I.C. of this permit. The SWPPP shall be prepared prior to the submittal of the NOI. The NOI shall be submitted to the Department prior to the *commencement of construction activity*. A copy of the completed, final NOI shall be included in the SWPPP.
2. The SWPPP shall describe the erosion and sediment control practices and where required, post-construction stormwater management practices that will be used and/or constructed to reduce the *pollutants* in stormwater *discharges* and to assure compliance with the terms and conditions of this permit. In addition, the SWPPP shall identify potential sources of pollution which may reasonably be expected to affect the quality of stormwater *discharges*.
3. All SWPPPs that require the post-construction stormwater management practice component shall be prepared by a *qualified professional* that is knowledgeable in the principles and practices of stormwater management and treatment.
4. The *owner or operator* must keep the SWPPP current so that it at all times accurately documents the erosion and sediment controls practices that are being used or will be used during construction, and all post-construction stormwater management practices that will be constructed on the site. At a minimum, the *owner or operator* shall amend the SWPPP:
 - a. whenever the current provisions prove to be ineffective in minimizing *pollutants* in stormwater *discharges* from the site;
 - b. whenever there is a change in design, construction, or operation at the construction site that has or could have an effect on the *discharge* of *pollutants*; and
 - c. to address issues or deficiencies identified during an inspection by the *qualified inspector*, the Department or other regulatory authority.
5. The Department may notify the *owner or operator* at any time that the

(Part III.A.5)

SWPPP does not meet one or more of the minimum requirements of this permit. The notification shall be in writing and identify the provisions of the SWPPP that require modification. Within fourteen (14) calendar days of such notification, or as otherwise indicated by the Department, the *owner or operator* shall make the required changes to the SWPPP and submit written notification to the Department that the changes have been made. If the *owner or operator* does not respond to the Department's comments in the specified time frame, the Department may suspend the *owner's or operator's* coverage under this permit or require the *owner or operator* to obtain coverage under an individual SPDES permit in accordance with Part II.C.4. of this permit.

6. Prior to the *commencement of construction activity*, the *owner or operator* must identify the contractor(s) and subcontractor(s) that will be responsible for installing, constructing, repairing, replacing, inspecting and maintaining the erosion and sediment control practices included in the SWPPP; and the contractor(s) and subcontractor(s) that will be responsible for constructing the post-construction stormwater management practices included in the SWPPP. The *owner or operator* shall have each of the contractors and subcontractors identify at least one person from their company that will be responsible for implementation of the SWPPP. This person shall be known as the *trained contractor*. The *owner or operator* shall ensure that at least one *trained contractor* is on site on a daily basis when soil disturbance activities are being performed.

The *owner or operator* shall have each of the contractors and subcontractors identified above sign a copy of the following certification statement below before they commence any *construction activity*.

"I hereby certify under penalty of law that I understand and agree to comply with the terms and conditions of the SWPPP and agree to implement any corrective actions identified by the *qualified inspector* during a site inspection. I also understand that the *owner or operator* must comply with the terms and conditions of the most current version of the New York State Pollutant Discharge Elimination System ("SPDES") general permit for stormwater *discharges* from *construction activities* and that it is unlawful for any person to cause or contribute to a violation of *water quality standards*. Furthermore, I am aware that there are significant penalties for submitting false information, that I do not believe to be true, including the possibility of fine and imprisonment for knowing violations"

In addition to providing the certification statement above, the certification page must also identify the specific elements of the SWPPP that each contractor and subcontractor will be responsible for and include the name and title of the person providing the signature; the name and title of the

(Part III.A.6)

trained contractor responsible for SWPPP implementation; the name, address and telephone number of the contracting firm; the address (or other identifying description) of the site; and the date the certification statement is signed. The *owner or operator* shall attach the certification statement(s) to the copy of the SWPPP that is maintained at the construction site. If new or additional contractors are hired to implement measures identified in the SWPPP after construction has commenced, they must also sign the certification statement and provide the information listed above.

7. For projects where the Department requests a copy of the SWPPP or inspection reports, the *owner or operator* shall submit the documents in both electronic (PDF only) and paper format within five (5) business days, unless otherwise notified by the Department.

B. Required SWPPP Contents

1. Erosion and sediment control component - All SWPPPs prepared pursuant to this permit shall include erosion and sediment control practices designed in conformance with the technical standard, New York State Standards and Specifications for Erosion and Sediment Control, dated August 2005. Where erosion and sediment control practices are not designed in conformance with the design criteria included in the technical standard, the *owner or operator* must demonstrate *equivalence* to the technical standard. At a minimum, the erosion and sediment control component of the SWPPP shall include the following:
 - a. Background information about the scope of the project, including the location, type and size of project;
 - b. A site map/construction drawing(s) for the project, including a general location map. At a minimum, the site map shall show the total site area; all improvements; areas of disturbance; areas that will not be disturbed; existing vegetation; on-site and adjacent off-site surface water(s); floodplain/floodway boundaries; wetlands and drainage patterns that could be affected by the *construction activity*; existing and final contours ; locations of different soil types with boundaries; material, waste, borrow or equipment storage areas located on adjacent properties; and location(s) of the stormwater *discharge(s)*;
 - c. A description of the soil(s) present at the site, including an identification of the Hydrologic Soil Group (HSG);
 - d. A construction phasing plan and sequence of operations describing the intended order of *construction activities*, including clearing and grubbing, excavation and grading, utility and infrastructure installation and any other

(Part III.B.1.d)

- activity at the site that results in soil disturbance;
- e. A description of the minimum erosion and sediment control practices to be installed or implemented for each *construction activity* that will result in soil disturbance. Include a schedule that identifies the timing of initial placement or implementation of each erosion and sediment control practice and the minimum time frames that each practice should remain in place or be implemented;
 - f. A temporary and permanent soil stabilization plan that meets the requirements of this general permit and the technical standard, New York State Standards and Specifications for Erosion and Sediment Control, dated August 2005, for each stage of the project, including initial land clearing and grubbing to project completion and achievement of *final stabilization*;
 - g. A site map/construction drawing(s) showing the specific location(s), size(s), and length(s) of each erosion and sediment control practice;
 - h. The dimensions, material specifications, installation details, and operation and maintenance requirements for all erosion and sediment control practices. Include the location and sizing of any temporary sediment basins and structural practices that will be used to divert flows from exposed soils;
 - i. A maintenance inspection schedule for the contractor(s) identified in Part III.A.6. of this permit, to ensure continuous and effective operation of the erosion and sediment control practices. The maintenance inspection schedule shall be in accordance with the requirements in the technical standard, New York State Standards and Specifications for Erosion and Sediment Control, dated August 2005;
 - j. A description of the pollution prevention measures that will be used to control litter, construction chemicals and construction debris from becoming a *pollutant* source in the stormwater *discharges*;
 - k. A description and location of any stormwater *discharges* associated with industrial activity other than construction at the site, including, but not limited to, stormwater *discharges* from asphalt plants and concrete plants located on the construction site; and
 - l. Identification of any elements of the design that are not in conformance with the design criteria in the technical standard, New York State Standards and Specifications for Erosion and Sediment Control, dated August 2005. Include the reason for the deviation or alternative design

(Part III.B.1.I)

and provide information which demonstrates that the deviation or alternative design is *equivalent* to the technical standard.

2. Post-construction stormwater management practice component – The *owner or operator* of any construction project identified in Table 2 of Appendix B as needing post-construction stormwater management practices shall prepare a SWPPP that includes practices designed in conformance with the applicable *sizing criteria* in Part I.C.2.a., c. or d. of this permit and the *performance criteria* in the technical standard, New York State Stormwater Management Design Manual dated January 2015

Where post-construction stormwater management practices are not designed in conformance with the *performance criteria* in the technical standard, the *owner or operator* must include in the SWPPP the reason(s) for the deviation or alternative design and provide information which demonstrates that the deviation or alternative design is *equivalent* to the technical standard.

The post-construction stormwater management practice component of the SWPPP shall include the following:

- a. Identification of all post-construction stormwater management practices to be constructed as part of the project. Include the dimensions, material specifications and installation details for each post-construction stormwater management practice;
- b. A site map/construction drawing(s) showing the specific location and size of each post-construction stormwater management practice;
- c. A Stormwater Modeling and Analysis Report that includes:
 - (i) Map(s) showing pre-development conditions, including watershed/subcatchments boundaries, flow paths/routing, and design points;
 - (ii) Map(s) showing post-development conditions, including watershed/subcatchments boundaries, flow paths/routing, design points and post-construction stormwater management practices;
 - (iii) Results of stormwater modeling (i.e. hydrology and hydraulic analysis) for the required storm events. Include supporting calculations (model runs), methodology, and a summary table that compares pre and post-development runoff rates and volumes for the different storm events;
 - (iv) Summary table, with supporting calculations, which demonstrates

(Part III.B.2.c.iv)

that each post-construction stormwater management practice has been designed in conformance with the *sizing criteria* included in the Design Manual;

- (v) Identification of any *sizing criteria* that is not required based on the requirements included in Part I.C. of this permit; and
 - (vi) Identification of any elements of the design that are not in conformance with the *performance criteria* in the Design Manual. Include the reason(s) for the deviation or alternative design and provide information which demonstrates that the deviation or alternative design is *equivalent* to the Design Manual;
- d. Soil testing results and locations (test pits, borings);
 - e. Infiltration test results, when required; and
 - f. An operations and maintenance plan that includes inspection and maintenance schedules and actions to ensure continuous and effective operation of each post-construction stormwater management practice. The plan shall identify the entity that will be responsible for the long term operation and maintenance of each practice.
3. Enhanced Phosphorus Removal Standards - All construction projects identified in Table 2 of Appendix B that are located in the watersheds identified in Appendix C shall prepare a SWPPP that includes post-construction stormwater management practices designed in conformance with the applicable *sizing criteria* in Part I.C.2. b., c. or d. of this permit and the *performance criteria*, Enhanced Phosphorus Removal Standards included in the Design Manual. At a minimum, the post-construction stormwater management practice component of the SWPPP shall include items 2.a - 2.f. above.

C. Required SWPPP Components by Project Type

Unless otherwise notified by the Department, *owners or operators of construction activities* identified in Table 1 of Appendix B are required to prepare a SWPPP that only includes erosion and sediment control practices designed in conformance with Part III.B.1 of this permit. *Owners or operators of the construction activities* identified in Table 2 of Appendix B shall prepare a SWPPP that also includes post-construction stormwater management practices designed in conformance with Part III.B.2 or 3 of this permit.

(Part IV)

IV. Part IV. INSPECTION AND MAINTENANCE REQUIREMENTS

A. General Construction Site Inspection and Maintenance Requirements

1. The *owner or operator* must ensure that all erosion and sediment control practices (including pollution prevention measures) and all post-construction stormwater management practices identified in the SWPPP are inspected and maintained in accordance with Part IV.B. and C. of this permit.
2. The terms of this permit shall not be construed to prohibit the State of New York from exercising any authority pursuant to the ECL, common law or federal law, or prohibit New York State from taking any measures, whether civil or criminal, to prevent violations of the laws of the State of New York, or protect the public health and safety and/or the environment.

B. Contractor Maintenance Inspection Requirements

1. The *owner or operator* of each *construction activity* identified in Tables 1 and 2 of Appendix B shall have a *trained contractor* inspect the erosion and sediment control practices and pollution prevention measures being implemented within the active work area daily to ensure that they are being maintained in effective operating condition at all times. If deficiencies are identified, the contractor shall begin implementing corrective actions within one business day and shall complete the corrective actions in a reasonable time frame.
2. For construction sites where soil disturbance activities have been temporarily suspended (e.g. winter shutdown) and *temporary stabilization* measures have been applied to all disturbed areas, the *trained contractor* can stop conducting the maintenance inspections. The *trained contractor* shall begin conducting the maintenance inspections in accordance with Part IV.B.1. of this permit as soon as soil disturbance activities resume.
3. For construction sites where soil disturbance activities have been shut down with partial project completion, the *trained contractor* can stop conducting the maintenance inspections if all areas disturbed as of the project shutdown date have achieved *final stabilization* and all post-construction stormwater management practices required for the completed portion of the project have been constructed in conformance with the SWPPP and are operational.

C. Qualified Inspector Inspection Requirements

(Part IV.C)

The *owner or operator* shall have a *qualified inspector* conduct site inspections in conformance with the following requirements:

[Note: The *trained contractor* identified in Part III.A.6. and IV.B. of this permit **cannot** conduct the *qualified inspector* site inspections unless they meet the *qualified inspector* qualifications included in Appendix A. In order to perform these inspections, the *trained contractor* would have to be a:

- licensed Professional Engineer,
- Certified Professional in Erosion and Sediment Control (CPESC),
- Registered Landscape Architect, or
- someone working under the direct supervision of, and at the same company as, the licensed Professional Engineer or Registered Landscape Architect, provided they have received four (4) hours of Department endorsed training in proper erosion and sediment control principles from a Soil and Water Conservation District, or other Department endorsed entity].

1. A *qualified inspector* shall conduct site inspections for all *construction activities* identified in Tables 1 and 2 of Appendix B, with the exception of:
 - a. the construction of a single family residential subdivision with 25% or less *impervious cover* at total site build-out that involves a soil disturbance of one (1) or more acres of land but less than five (5) acres and is not located in one of the watersheds listed in Appendix C and not directly discharging to one of the 303(d) segments listed in Appendix E;
 - b. the construction of a single family home that involves a soil disturbance of one (1) or more acres of land but less than five (5) acres and is not located in one of the watersheds listed in Appendix C and not directly discharging to one of the 303(d) segments listed in Appendix E;
 - c. construction on agricultural property that involves a soil disturbance of one (1) or more acres of land but less than five (5) acres; and
 - d. *construction activities* located in the watersheds identified in Appendix D that involve soil disturbances between five thousand (5,000) square feet and one (1) acre of land.
2. Unless otherwise notified by the Department, the *qualified inspector* shall conduct site inspections in accordance with the following timetable:
 - a. For construction sites where soil disturbance activities are on-going, the *qualified inspector* shall conduct a site inspection at least once every seven (7) calendar days.
 - b. For construction sites where soil disturbance activities are on-going and

(Part IV.C.2.b)

the *owner or operator* has received authorization in accordance with Part II.C.3 to disturb greater than five (5) acres of soil at any one time, the *qualified inspector* shall conduct at least two (2) site inspections every seven (7) calendar days. The two (2) inspections shall be separated by a minimum of two (2) full calendar days.

- c. For construction sites where soil disturbance activities have been temporarily suspended (e.g. winter shutdown) and *temporary stabilization* measures have been applied to all disturbed areas, the *qualified inspector* shall conduct a site inspection at least once every thirty (30) calendar days. The *owner or operator* shall notify the DOW Water (SPDES) Program contact at the Regional Office (see contact information in Appendix F) or, in areas under the jurisdiction of a *regulated, traditional land use control MS4*, the *regulated, traditional land use control MS4* (provided the *regulated, traditional land use control MS4* is not the *owner or operator* of the *construction activity*) in writing prior to reducing the frequency of inspections.
- d. For construction sites where soil disturbance activities have been shut down with partial project completion, the *qualified inspector* can stop conducting inspections if all areas disturbed as of the project shutdown date have achieved *final stabilization* and all post-construction stormwater management practices required for the completed portion of the project have been constructed in conformance with the SWPPP and are operational. The *owner or operator* shall notify the DOW Water (SPDES) Program contact at the Regional Office (see contact information in Appendix F) or, in areas under the jurisdiction of a *regulated, traditional land use control MS4*, the *regulated, traditional land use control MS4* (provided the *regulated, traditional land use control MS4* is not the *owner or operator* of the *construction activity*) in writing prior to the shutdown. If soil disturbance activities are not resumed within 2 years from the date of shutdown, the *owner or operator* shall have the *qualified inspector* perform a final inspection and certify that all disturbed areas have achieved *final stabilization*, and all temporary, structural erosion and sediment control measures have been removed; and that all post-construction stormwater management practices have been constructed in conformance with the SWPPP by signing the “*Final Stabilization*” and “*Post-Construction Stormwater Management Practice*” certification statements on the NOT. The *owner or operator* shall then submit the completed NOT form to the address in Part II.A.1 of this permit.
- e. For construction sites that directly *discharge* to one of the 303(d) segments listed in Appendix E or is located in one of the watersheds listed in Appendix C, the *qualified inspector* shall conduct at least two (2) site inspections every seven (7) calendar days. The two (2) inspections shall

(Part IV.C.2.e)

be separated by a minimum of two (2) full calendar days.

3. At a minimum, the *qualified inspector* shall inspect all erosion and sediment control practices and pollution prevention measures to ensure integrity and effectiveness, all post-construction stormwater management practices under construction to ensure that they are constructed in conformance with the SWPPP, all areas of disturbance that have not achieved *final stabilization*, all points of *discharge* to natural surface waterbodies located within, or immediately adjacent to, the property boundaries of the construction site, and all points of *discharge* from the construction site.
4. The *qualified inspector* shall prepare an inspection report subsequent to each and every inspection. At a minimum, the inspection report shall include and/or address the following:
 - a. Date and time of inspection;
 - b. Name and title of person(s) performing inspection;
 - c. A description of the weather and soil conditions (e.g. dry, wet, saturated) at the time of the inspection;
 - d. A description of the condition of the runoff at all points of *discharge* from the construction site. This shall include identification of any *discharges* of sediment from the construction site. Include *discharges* from conveyance systems (i.e. pipes, culverts, ditches, etc.) and overland flow;
 - e. A description of the condition of all natural surface waterbodies located within, or immediately adjacent to, the property boundaries of the construction site which receive runoff from disturbed areas. This shall include identification of any *discharges* of sediment to the surface waterbody;
 - f. Identification of all erosion and sediment control practices and pollution prevention measures that need repair or maintenance;
 - g. Identification of all erosion and sediment control practices and pollution prevention measures that were not installed properly or are not functioning as designed and need to be reinstalled or replaced;
 - h. Description and sketch of areas with active soil disturbance activity, areas that have been disturbed but are inactive at the time of the inspection, and areas that have been stabilized (temporary and/or final) since the last inspection;

(Part IV.C.4.i)

- i. Current phase of construction of all post-construction stormwater management practices and identification of all construction that is not in conformance with the SWPPP and technical standards;
 - j. Corrective action(s) that must be taken to install, repair, replace or maintain erosion and sediment control practices and pollution prevention measures; and to correct deficiencies identified with the construction of the post-construction stormwater management practice(s);
 - k. Identification and status of all corrective actions that were required by previous inspection; and
 - l. Digital photographs, with date stamp, that clearly show the condition of all practices that have been identified as needing corrective actions. The *qualified inspector* shall attach paper color copies of the digital photographs to the inspection report being maintained onsite within seven (7) calendar days of the date of the inspection. The *qualified inspector* shall also take digital photographs, with date stamp, that clearly show the condition of the practice(s) after the corrective action has been completed. The *qualified inspector* shall attach paper color copies of the digital photographs to the inspection report that documents the completion of the corrective action work within seven (7) calendar days of that inspection.
5. Within one business day of the completion of an inspection, the *qualified inspector* shall notify the *owner or operator* and appropriate contractor or subcontractor identified in Part III.A.6. of this permit of any corrective actions that need to be taken. The contractor or subcontractor shall begin implementing the corrective actions within one business day of this notification and shall complete the corrective actions in a reasonable time frame.
 6. All inspection reports shall be signed by the *qualified inspector*. Pursuant to Part II.C.2. of this permit, the inspection reports shall be maintained on site with the SWPPP.

V. Part V. TERMINATION OF PERMIT COVERAGE

A. Termination of Permit Coverage

1. An *owner or operator* that is eligible to terminate coverage under this permit must submit a completed NOT form to the address in Part II.A.1 of this permit. The NOT form shall be one which is associated with this permit, signed in accordance with Part VII.H of this permit.

(Part V.A.2)

2. An *owner or operator* may terminate coverage when one or more the following conditions have been met:
 - a. Total project completion - All *construction activity* identified in the SWPPP has been completed; and all areas of disturbance have achieved *final stabilization*; and all temporary, structural erosion and sediment control measures have been removed; and all post-construction stormwater management practices have been constructed in conformance with the SWPPP and are operational;
 - b. Planned shutdown with partial project completion - All soil disturbance activities have ceased; and all areas disturbed as of the project shutdown date have achieved *final stabilization*; and all temporary, structural erosion and sediment control measures have been removed; and all post-construction stormwater management practices required for the completed portion of the project have been constructed in conformance with the SWPPP and are operational;
 - c. A new *owner or operator* has obtained coverage under this permit in accordance with Part II.E. of this permit.
 - d. The *owner or operator* obtains coverage under an alternative SPDES general permit or an individual SPDES permit.
3. For *construction activities* meeting subdivision 2a. or 2b. of this Part, the *owner or operator* shall have the *qualified inspector* perform a final site inspection prior to submitting the NOT. The *qualified inspector* shall, by signing the “*Final Stabilization*” and “*Post-Construction Stormwater Management Practice certification statements*” on the NOT, certify that all the requirements in Part V.A.2.a. or b. of this permit have been achieved.
4. For *construction activities* that are subject to the requirements of a *regulated, traditional land use control MS4* and meet subdivision 2a. or 2b. of this Part, the *owner or operator* shall have the *regulated, traditional land use control MS4* sign the “*MS4 Acceptance*” statement on the NOT in accordance with the requirements in Part VII.H. of this permit. The *regulated, traditional land use control MS4* official, by signing this statement, has determined that it is acceptable for the *owner or operator* to submit the NOT in accordance with the requirements of this Part. The *regulated, traditional land use control MS4* can make this determination by performing a final site inspection themselves or by accepting the *qualified inspector’s* final site inspection certification(s) required in Part V.A.3. of this permit.

(Part V.A.5)

5. For *construction activities* that require post-construction stormwater management practices and meet subdivision 2a. of this Part, the *owner or operator* must, prior to submitting the NOT, ensure one of the following:
 - a. the post-construction stormwater management practice(s) and any right-of-way(s) needed to maintain such practice(s) have been deeded to the municipality in which the practice(s) is located,
 - b. an executed maintenance agreement is in place with the municipality that will maintain the post-construction stormwater management practice(s),
 - c. for post-construction stormwater management practices that are privately owned, the *owner or operator* has a mechanism in place that requires operation and maintenance of the practice(s) in accordance with the operation and maintenance plan, such as a deed covenant in the *owner or operator's* deed of record,
 - d. for post-construction stormwater management practices that are owned by a public or private institution (e.g. school, university, hospital), government agency or authority, or public utility; the *owner or operator* has policy and procedures in place that ensures operation and maintenance of the practices in accordance with the operation and maintenance plan.

VI. Part VI. REPORTING AND RETENTION OF RECORDS

A. Record Retention

The *owner or operator* shall retain a copy of the NOI, NOI Acknowledgment Letter, SWPPP, MS4 SWPPP Acceptance form and any inspection reports that were prepared in conjunction with this permit for a period of at least five (5) years from the date that the Department receives a complete NOT submitted in accordance with Part V. of this general permit.

B. Addresses

With the exception of the NOI, NOT, and MS4 SWPPP Acceptance form (which must be submitted to the address referenced in Part II.A.1 of this permit), all written correspondence requested by the Department, including individual permit applications, shall be sent to the address of the appropriate DOW Water (SPDES) Program contact at the Regional Office listed in Appendix F.

(Part VII)

VII. Part VII. STANDARD PERMIT CONDITIONS

A. Duty to Comply

The *owner or operator* must comply with all conditions of this permit. All contractors and subcontractors associated with the project must comply with the terms of the SWPPP. Any non-compliance with this permit constitutes a violation of the Clean Water Act (CWA) and the ECL and is grounds for an enforcement action against the *owner or operator* and/or the contractor/subcontractor; permit revocation, suspension or modification; or denial of a permit renewal application. Upon a finding of significant non-compliance with this permit or the applicable SWPPP, the Department may order an immediate stop to all *construction activity* at the site until the non-compliance is remedied. The stop work order shall be in writing, shall describe the non-compliance in detail, and shall be sent to the *owner or operator*.

If any human remains or archaeological remains are encountered during excavation, the *owner or operator* must immediately cease, or cause to cease, all *construction activity* in the area of the remains and notify the appropriate Regional Water Engineer (RWE). *Construction activity* shall not resume until written permission to do so has been received from the RWE.

B. Continuation of the Expired General Permit

This permit expires five (5) years from the effective date. If a new general permit is not issued prior to the expiration of this general permit, an *owner or operator* with coverage under this permit may continue to operate and *discharge* in accordance with the terms and conditions of this general permit, if it is extended pursuant to the State Administrative Procedure Act and 6 NYCRR Part 621, until a new general permit is issued.

C. Enforcement

Failure of the *owner or operator*, its contractors, subcontractors, agents and/or assigns to strictly adhere to any of the permit requirements contained herein shall constitute a violation of this permit. There are substantial criminal, civil, and administrative penalties associated with violating the provisions of this permit. Fines of up to \$37,500 per day for each violation and imprisonment for up to fifteen (15) years may be assessed depending upon the nature and degree of the offense.

D. Need to Halt or Reduce Activity Not a Defense

It shall not be a defense for an *owner or operator* in an enforcement action that it would have been necessary to halt or reduce the *construction activity* in order to maintain compliance with the conditions of this permit.

(Part VII.E)

E. Duty to Mitigate

The *owner or operator* and its contractors and subcontractors shall take all reasonable steps to *minimize* or prevent any *discharge* in violation of this permit which has a reasonable likelihood of adversely affecting human health or the environment.

F. Duty to Provide Information

The *owner or operator* shall furnish to the Department, within a reasonable specified time period of a written request, all documentation necessary to demonstrate eligibility and any information to determine compliance with this permit or to determine whether cause exists for modifying or revoking this permit, or suspending or denying coverage under this permit, in accordance with the terms and conditions of this permit. The NOI, SWPPP and inspection reports required by this permit are public documents that the *owner or operator* must make available for review and copying by any person within five (5) business days of the *owner or operator* receiving a written request by any such person to review these documents. Copying of documents will be done at the requester's expense.

G. Other Information

When the *owner or operator* becomes aware that they failed to submit any relevant facts, or submitted incorrect information in the NOI or in any of the documents required by this permit, or have made substantive revisions to the SWPPP (e.g. the scope of the project changes significantly, the type of post-construction stormwater management practice(s) changes, there is a reduction in the sizing of the post-construction stormwater management practice, or there is an increase in the disturbance area or *impervious area*), which were not reflected in the original NOI submitted to the Department, they shall promptly submit such facts or information to the Department using the contact information in Part II.A. of this permit. Failure of the *owner or operator* to correct or supplement any relevant facts within five (5) business days of becoming aware of the deficiency shall constitute a violation of this permit.

H. Signatory Requirements

1. All NOIs and NOTs shall be signed as follows:
 - a. For a corporation these forms shall be signed by a responsible corporate officer. For the purpose of this section, a responsible corporate officer means:
 - (i) a president, secretary, treasurer, or vice-president of the

(Part VII.H.1.a.i)

corporation in charge of a principal business function, or any other person who performs similar policy or decision-making functions for the corporation; or

- (ii) the manager of one or more manufacturing, production or operating facilities, provided the manager is authorized to make management decisions which govern the operation of the regulated facility including having the explicit or implicit duty of making major capital investment recommendations, and initiating and directing other comprehensive measures to assure long term environmental compliance with environmental laws and regulations; the manager can ensure that the necessary systems are established or actions taken to gather complete and accurate information for permit application requirements; and where authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures;

b. For a partnership or sole proprietorship these forms shall be signed by a general partner or the proprietor, respectively; or

c. For a municipality, State, Federal, or other public agency these forms shall be signed by either a principal executive officer or ranking elected official. For purposes of this section, a principal executive officer of a Federal agency includes:

- (i) the chief executive officer of the agency, or

- (ii) a senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency (e.g., Regional Administrators of EPA).

2. The SWPPP and other information requested by the Department shall be signed by a person described in Part VII.H.1. of this permit or by a duly authorized representative of that person. A person is a duly authorized representative only if:

a. The authorization is made in writing by a person described in Part VII.H.1. of this permit;

b. The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity, such as the position of plant manager, operator of a well or a well field, superintendent, position of *equivalent* responsibility, or an individual or position having overall responsibility for environmental matters for the company. (A duly authorized representative may thus be either a named

(Part VII.H.2.b)

individual or any individual occupying a named position) and,

- c. The written authorization shall include the name, title and signature of the authorized representative and be attached to the SWPPP.
3. All inspection reports shall be signed by the *qualified inspector* that performs the inspection.
4. The MS4 SWPPP Acceptance form shall be signed by the principal executive officer or ranking elected official from the *regulated, traditional land use control MS4*, or by a duly authorized representative of that person.

It shall constitute a permit violation if an incorrect and/or improper signatory authorizes any required forms, SWPPP and/or inspection reports.

I. Property Rights

The issuance of this permit does not convey any property rights of any sort, nor any exclusive privileges, nor does it authorize any injury to private property nor any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations. *Owners or operators* must obtain any applicable conveyances, easements, licenses and/or access to real property prior to *commencing construction activity*.

J. Severability

The provisions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit shall not be affected thereby.

K. Requirement to Obtain Coverage Under an Alternative Permit

1. The Department may require any *owner or operator* authorized by this permit to apply for and/or obtain either an individual SPDES permit or another SPDES general permit. When the Department requires any *discharger* authorized by a general permit to apply for an individual SPDES permit, it shall notify the *discharger* in writing that a permit application is required. This notice shall include a brief statement of the reasons for this decision, an application form, a statement setting a time frame for the *owner or operator* to file the application for an individual SPDES permit, and a deadline, not sooner than 180 days from *owner or operator* receipt of the notification letter, whereby the authorization to

(Part VII.K.1)

discharge under this general permit shall be terminated. Applications must be submitted to the appropriate Permit Administrator at the Regional Office. The Department may grant additional time upon demonstration, to the satisfaction of the Department, that additional time to apply for an alternative authorization is necessary or where the Department has not provided a permit determination in accordance with Part 621 of this Title.

2. When an individual SPDES permit is issued to a discharger authorized to *discharge* under a general SPDES permit for the same *discharge(s)*, the general permit authorization for outfalls authorized under the individual SPDES permit is automatically terminated on the effective date of the individual permit unless termination is earlier in accordance with 6 NYCRR Part 750.

L. Proper Operation and Maintenance

The *owner or operator* shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the *owner or operator* to achieve compliance with the conditions of this permit and with the requirements of the SWPPP.

M. Inspection and Entry

The *owner or operator* shall allow an authorized representative of the Department, EPA, applicable county health department, or, in the case of a construction site which *discharges* through an *MS4*, an authorized representative of the *MS4* receiving the discharge, upon the presentation of credentials and other documents as may be required by law, to:

1. Enter upon the *owner's or operator's* premises where a regulated facility or activity is located or conducted or where records must be kept under the conditions of this permit;
2. Have access to and copy at reasonable times, any records that must be kept under the conditions of this permit; and
3. Inspect at reasonable times any facilities or equipment (including monitoring and control equipment), practices or operations regulated or required by this permit.
4. Sample or monitor at reasonable times, for purposes of assuring permit compliance or as otherwise authorized by the Act or ECL, any substances or parameters at any location.

(Part VII.N)

N. Permit Actions

This permit may, at any time, be modified, suspended, revoked, or renewed by the Department in accordance with 6 NYCRR Part 621. The filing of a request by the *owner or operator* for a permit modification, revocation and reissuance, termination, a notification of planned changes or anticipated noncompliance does not limit, diminish and/or stay compliance with any terms of this permit.

O. Definitions

Definitions of key terms are included in Appendix A of this permit.

P. Re-Opener Clause

1. If there is evidence indicating potential or realized impacts on water quality due to any stormwater discharge associated with *construction activity* covered by this permit, the *owner or operator* of such discharge may be required to obtain an individual permit or alternative general permit in accordance with Part VII.K. of this permit or the permit may be modified to include different limitations and/or requirements.
2. Any Department initiated permit modification, suspension or revocation will be conducted in accordance with 6 NYCRR Part 621, 6 NYCRR 750-1.18, and 6 NYCRR 750-1.20.

Q. Penalties for Falsification of Forms and Reports

In accordance with 6NYCRR Part 750-2.4 and 750-2.5, any person who knowingly makes any false material statement, representation, or certification in any application, record, report or other document filed or required to be maintained under this permit, including reports of compliance or noncompliance shall, upon conviction, be punished in accordance with ECL §71-1933 and or Articles 175 and 210 of the New York State Penal Law.

R. Other Permits

Nothing in this permit relieves the *owner or operator* from a requirement to obtain any other permits required by law.

VIII. APPENDIX A

Definitions

Alter Hydrology from Pre to Post-Development Conditions - means the post-development peak flow rate(s) has increased by more than 5% of the pre-developed condition for the design storm of interest (e.g. 10 yr and 100 yr).

Combined Sewer - means a sewer that is designed to collect and convey both “sewage” and “stormwater”.

Commence (Commencement of) Construction Activities - means the initial disturbance of soils associated with clearing, grading or excavation activities; or other construction related activities that disturb or expose soils such as demolition, stockpiling of fill material, and the initial installation of erosion and sediment control practices required in the SWPPP. See definition for “*Construction Activity(ies)*” also.

Construction Activity(ies) - means any clearing, grading, excavation, filling, demolition or stockpiling activities that result in soil disturbance. Clearing activities can include, but are not limited to, logging equipment operation, the cutting and skidding of trees, stump removal and/or brush root removal. Construction activity does not include routine maintenance that is performed to maintain the original line and grade, hydraulic capacity, or original purpose of a facility.

Direct Discharge (to a specific surface waterbody) - means that runoff flows from a construction site by overland flow and the first point of discharge is the specific surface waterbody, or runoff flows from a construction site to a separate storm sewer system and the first point of discharge from the separate storm sewer system is the specific surface waterbody.

Discharge(s) - means any addition of any pollutant to waters of the State through an outlet or point source.

Environmental Conservation Law (ECL) - means chapter 43-B of the Consolidated Laws of the State of New York, entitled the Environmental Conservation Law.

Equivalent (Equivalence) – means that the practice or measure meets all the performance, longevity, maintenance, and safety objectives of the technical standard and will provide an equal or greater degree of water quality protection.

Final Stabilization - means that all soil disturbance activities have ceased and a uniform, perennial vegetative cover with a density of eighty (80) percent over the entire pervious surface has been established; or other equivalent stabilization measures, such as permanent landscape mulches, rock rip-rap or washed/crushed stone have been applied

on all disturbed areas that are not covered by permanent structures, concrete or pavement.

General SPDES permit - means a SPDES permit issued pursuant to 6 NYCRR Part 750-1.21 and Section 70-0117 of the ECL authorizing a category of discharges.

Groundwater(s) - means waters in the saturated zone. The saturated zone is a subsurface zone in which all the interstices are filled with water under pressure greater than that of the atmosphere. Although the zone may contain gas-filled interstices or interstices filled with fluids other than water, it is still considered saturated.

Historic Property – means any building, structure, site, object or district that is listed on the State or National Registers of Historic Places or is determined to be eligible for listing on the State or National Registers of Historic Places.

Impervious Area (Cover) - means all impermeable surfaces that cannot effectively infiltrate rainfall. This includes paved, concrete and gravel surfaces (i.e. parking lots, driveways, roads, runways and sidewalks); building rooftops and miscellaneous impermeable structures such as patios, pools, and sheds.

Infeasible – means not technologically possible, or not economically practicable and achievable in light of best industry practices.

Larger Common Plan of Development or Sale - means a contiguous area where multiple separate and distinct *construction activities* are occurring, or will occur, under one plan. The term “plan” in “larger common plan of development or sale” is broadly defined as any announcement or piece of documentation (including a sign, public notice or hearing, marketing plan, advertisement, drawing, permit application, State Environmental Quality Review Act (SEQRA) environmental assessment form or other documents, zoning request, computer design, etc.) or physical demarcation (including boundary signs, lot stakes, surveyor markings, etc.) indicating that *construction activities* may occur on a specific plot.

For discrete construction projects that are located within a larger common plan of development or sale that are at least 1/4 mile apart, each project can be treated as a separate plan of development or sale provided any interconnecting road, pipeline or utility project that is part of the same “common plan” is not concurrently being disturbed.

Minimize – means reduce and/or eliminate to the extent achievable using control measures (including best management practices) that are technologically available and economically practicable and achievable in light of best industry practices.

Municipal Separate Storm Sewer (MS4) - a conveyance or system of conveyances (including roads with drainage systems, municipal streets, catch basins, curbs, gutters,

ditches, man-made channels, or storm drains):

- (i) Owned or operated by a State, city, town, borough, county, parish, district, association, or other public body (created by or pursuant to State law) having jurisdiction over disposal of sewage, industrial wastes, stormwater, or other wastes, including special districts under State law such as a sewer district, flood control district or drainage district, or similar entity, or an Indian tribe or an authorized Indian tribal organization, or a designated and approved management agency under section 208 of the CWA that discharges to surface waters of the State;
- (ii) Designed or used for collecting or conveying stormwater;
- (iii) Which is not a *combined sewer*; and
- (iv) Which is not part of a Publicly Owned Treatment Works (POTW) as defined at 40 CFR 122.2.

National Pollutant Discharge Elimination System (NPDES) - means the national system for the issuance of wastewater and stormwater permits under the Federal Water Pollution Control Act (Clean Water Act).

New Development – means any land disturbance that does not meet the definition of Redevelopment Activity included in this appendix.

NOI Acknowledgment Letter - means the letter that the Department sends to an owner or operator to acknowledge the Department's receipt and acceptance of a complete Notice of Intent. This letter documents the owner's or operator's authorization to discharge in accordance with the general permit for stormwater discharges from *construction activity*.

Owner or Operator - means the person, persons or legal entity which owns or leases the property on which the *construction activity* is occurring; and/or an entity that has operational control over the construction plans and specifications, including the ability to make modifications to the plans and specifications.

Performance Criteria – means the design criteria listed under the “Required Elements” sections in Chapters 5, 6 and 10 of the technical standard, New York State Stormwater Management Design Manual, dated January 2015. It does not include the Sizing Criteria (i.e. WQv, RRv, Cpv, Qp and Qf) in Part I.C.2. of the permit.

Pollutant - means dredged spoil, filter backwash, solid waste, incinerator residue, sewage, garbage, sewage sludge, munitions, chemical wastes, biological materials, radioactive materials, heat, wrecked or discarded equipment, rock, sand and industrial, municipal, agricultural waste and ballast discharged into water; which may cause or might reasonably be expected to cause pollution of the waters of the state in contravention of the standards or guidance values adopted as provided in 6 NYCRR Parts 700 et seq .

Qualified Inspector - means a person that is knowledgeable in the principles and practices of erosion and sediment control, such as a licensed Professional Engineer, Certified Professional in Erosion and Sediment Control (CPESC), Registered Landscape Architect, or other Department endorsed individual(s).

It can also mean someone working under the direct supervision of, and at the same company as, the licensed Professional Engineer or Registered Landscape Architect, provided that person has training in the principles and practices of erosion and sediment control. Training in the principles and practices of erosion and sediment control means that the individual working under the direct supervision of the licensed Professional Engineer or Registered Landscape Architect has received four (4) hours of Department endorsed training in proper erosion and sediment control principles from a Soil and Water Conservation District, or other Department endorsed entity. After receiving the initial training, the individual working under the direct supervision of the licensed Professional Engineer or Registered Landscape Architect shall receive four (4) hours of training every three (3) years.

It can also mean a person that meets the *Qualified Professional* qualifications in addition to the *Qualified Inspector* qualifications.

Note: Inspections of any post-construction stormwater management practices that include structural components, such as a dam for an impoundment, shall be performed by a licensed Professional Engineer.

Qualified Professional - means a person that is knowledgeable in the principles and practices of stormwater management and treatment, such as a licensed Professional Engineer, Registered Landscape Architect or other Department endorsed individual(s). Individuals preparing SWPPPs that require the post-construction stormwater management practice component must have an understanding of the principles of hydrology, water quality management practice design, water quantity control design, and, in many cases, the principles of hydraulics. All components of the SWPPP that involve the practice of engineering, as defined by the NYS Education Law (see Article 145), shall be prepared by, or under the direct supervision of, a professional engineer licensed to practice in the State of New York..

Redevelopment Activity(ies) – means the disturbance and reconstruction of existing impervious area, including impervious areas that were removed from a project site within five (5) years of preliminary project plan submission to the local government (i.e. site plan, subdivision, etc.).

Regulated, Traditional Land Use Control MS4 - means a city, town or village with land use control authority that is required to gain coverage under New York State DEC's SPDES General Permit For Stormwater Discharges from Municipal Separate Stormwater Sewer Systems (MS4s).

Routine Maintenance Activity - means *construction activity* that is performed to maintain the original line and grade, hydraulic capacity, or original purpose of a facility, including, but not limited to:

- Re-grading of gravel roads or parking lots,
- Stream bank restoration projects (does not include the placement of spoil material),
- Cleaning and shaping of existing roadside ditches and culverts that maintains the approximate original line and grade, and hydraulic capacity of the ditch,
- Cleaning and shaping of existing roadside ditches that does not maintain the approximate original grade, hydraulic capacity and purpose of the ditch if the changes to the line and grade, hydraulic capacity or purpose of the ditch are installed to improve water quality and quantity controls (e.g. installing grass lined ditch),
- Placement of aggregate shoulder backing that makes the transition between the road shoulder and the ditch or embankment,
- Full depth milling and filling of existing asphalt pavements, replacement of concrete pavement slabs, and similar work that does not expose soil or disturb the bottom six (6) inches of subbase material,
- Long-term use of equipment storage areas at or near highway maintenance facilities,
- Removal of sediment from the edge of the highway to restore a previously existing sheet-flow drainage connection from the highway surface to the highway ditch or embankment,
- Existing use of Canal Corp owned upland disposal sites for the canal, and
- Replacement of curbs, gutters, sidewalks and guide rail posts.

Site limitations – means site conditions that prevent the use of an infiltration technique and or infiltration of the total WQv. Typical site limitations include: seasonal high groundwater, shallow depth to bedrock, and soils with an infiltration rate less than 0.5 inches/hour. The existence of site limitations shall be confirmed and documented using actual field testing (i.e. test pits, soil borings, and infiltration test) or using information from the most current United States Department of Agriculture (USDA) Soil Survey for the County where the project is located.

Sizing Criteria – means the criteria included in Part I.C.2 of the permit that are used to size post-construction stormwater management control practices. The criteria include; Water Quality Volume (WQv), Runoff Reduction Volume (RRv), Channel Protection Volume (Cpv), Overbank Flood (Qp), and Extreme Flood (Qf).

State Pollutant Discharge Elimination System (SPDES) - means the system established pursuant to Article 17 of the ECL and 6 NYCRR Part 750 for issuance of permits authorizing discharges to the waters of the state.

Steep Slope – means land area with a Soil Slope Phase that is identified as an E or F, or

the map unit name is inclusive of 25% or greater slope, on the United States Department of Agriculture (“USDA”) Soil Survey for the County where the disturbance will occur.

Surface Waters of the State - shall be construed to include lakes, bays, sounds, ponds, impounding reservoirs, springs, rivers, streams, creeks, estuaries, marshes, inlets, canals, the Atlantic ocean within the territorial seas of the state of New York and all other bodies of surface water, natural or artificial, inland or coastal, fresh or salt, public or private (except those private waters that do not combine or effect a junction with natural surface waters), which are wholly or partially within or bordering the state or within its jurisdiction. Waters of the state are further defined in 6 NYCRR Parts 800 to 941.

Temporarily Ceased – means that an existing disturbed area will not be disturbed again within 14 calendar days of the previous soil disturbance.

Temporary Stabilization - means that exposed soil has been covered with material(s) as set forth in the technical standard, New York Standards and Specifications for Erosion and Sediment Control, to prevent the exposed soil from eroding. The materials can include, but are not limited to, mulch, seed and mulch, and erosion control mats (e.g. jute twisted yarn, excelsior wood fiber mats).

Total Maximum Daily Loads (TMDLs) - A TMDL is the sum of the allowable loads of a single pollutant from all contributing point and nonpoint sources. It is a calculation of the maximum amount of a pollutant that a waterbody can receive on a daily basis and still meet *water quality standards*, and an allocation of that amount to the pollutant's sources. A TMDL stipulates wasteload allocations (WLAs) for point source discharges, load allocations (LAs) for nonpoint sources, and a margin of safety (MOS).

Trained Contractor - means an employee from the contracting (construction) company, identified in Part III.A.6., that has received four (4) hours of Department endorsed training in proper erosion and sediment control principles from a Soil and Water Conservation District, or other Department endorsed entity. After receiving the initial training, the *trained contractor* shall receive four (4) hours of training every three (3) years.

It can also mean an employee from the contracting (construction) company, identified in Part III.A.6., that meets the *qualified inspector* qualifications (e.g. licensed Professional Engineer, Certified Professional in Erosion and Sediment Control (CPESC), Registered Landscape Architect, or someone working under the direct supervision of, and at the same company as, the licensed Professional Engineer or Registered Landscape Architect, provided they have received four (4) hours of Department endorsed training in proper erosion and sediment control principles from a Soil and Water Conservation District, or other Department endorsed entity).

The *trained contractor* is responsible for the day to day implementation of the SWPPP.

Uniform Procedures Act (UPA) Permit - means a permit required under 6 NYCRR Part

621 of the Environmental Conservation Law (ECL), Article 70.

Water Quality Standard - means such measures of purity or quality for any waters in relation to their reasonable and necessary use as promulgated in 6 NYCRR Part 700 et seq.

IX. APPENDIX B

Required SWPPP Components by Project Type

**Table 1
CONSTRUCTION ACTIVITIES THAT REQUIRE THE PREPARATION OF A SWPPP
THAT ONLY INCLUDES EROSION AND SEDIMENT CONTROLS**

<p>The following construction activities that involve soil disturbances of one (1) or more acres of land, but less than five (5) acres:</p> <ul style="list-style-type: none">• Single family home <u>not</u> located in one of the watersheds listed in Appendix C or <u>not directly discharging</u> to one of the 303(d) segments listed in Appendix E• Single family residential subdivisions with 25% or less impervious cover at total site build-out and <u>not</u> located in one of the watersheds listed in Appendix C and <u>not</u> directly discharging to one of the 303(d) segments listed in Appendix E• Construction of a barn or other agricultural building, silo, stock yard or pen.
<p>The following construction activities that involve soil disturbances of one (1) or more acres of land:</p> <ul style="list-style-type: none">• Installation of underground, linear utilities; such as gas lines, fiber-optic cable, cable TV, electric, telephone, sewer mains, and water mains• Environmental enhancement projects, such as wetland mitigation projects, stormwater retrofits and stream restoration projects• Bike paths and trails• Sidewalk construction projects that are not part of a road/ highway construction or reconstruction project• Slope stabilization projects• Slope flattening that changes the grade of the site, but does not significantly change the runoff characteristics• Spoil areas that will be covered with vegetation• Land clearing and grading for the purposes of creating vegetated open space (i.e. recreational parks, lawns, meadows, fields), excluding projects that <i>alter hydrology from pre to post development</i> conditions• Athletic fields (natural grass) that do not include the construction or reconstruction of <i>impervious area</i> <u>and</u> do not <i>alter hydrology from pre to post development</i> conditions• Demolition project where vegetation will be established and no redevelopment is planned• Overhead electric transmission line project that does not include the construction of permanent access roads or parking areas surfaced with <i>impervious cover</i>• Structural practices as identified in Table II in the "Agricultural Management Practices Catalog for Nonpoint Source Pollution in New York State", excluding projects that involve soil disturbances of less than five acres and construction activities that include the construction or reconstruction of impervious area
<p>The following construction activities that involve soil disturbances between five thousand (5000) square feet and one (1) acre of land:</p> <ul style="list-style-type: none">• All construction activities located in the watersheds identified in Appendix D that involve soil disturbances between five thousand (5,000) square feet and one (1) acre of land.

Table 2
CONSTRUCTION ACTIVITIES THAT REQUIRE THE PREPARATION OF A SWPPP THAT INCLUDES
POST-CONSTRUCTION STORMWATER MANAGEMENT PRACTICES

The following construction activities that involve soil disturbances of one (1) or more acres of land:

- Single family home located in one of the watersheds listed in Appendix C or *directly discharging* to one of the 303(d) segments listed in Appendix E
- Single family residential subdivisions located in one of the watersheds listed in Appendix C or *directly discharging* to one of the 303(d) segments listed in Appendix E
- Single family residential subdivisions that involve soil disturbances of between one (1) and five (5) acres of land with greater than 25% impervious cover at total site build-out
- Single family residential subdivisions that involve soil disturbances of five (5) or more acres of land, and single family residential subdivisions that involve soil disturbances of less than five (5) acres that are part of a larger common plan of development or sale that will ultimately disturb five or more acres of land
- Multi-family residential developments; includes townhomes, condominiums, senior housing complexes, apartment complexes, and mobile home parks
- Airports
- Amusement parks
- Campgrounds
- Cemeteries that include the construction or reconstruction of impervious area (>5% of disturbed area) or *alter the hydrology from pre to post development* conditions
- Commercial developments
- Churches and other places of worship
- Construction of a barn or other agricultural building(e.g. silo) and structural practices as identified in Table II in the “Agricultural Management Practices Catalog for Nonpoint Source Pollution in New York State” that include the construction or reconstruction of *impervious area*, excluding projects that involve soil disturbances of less than five acres.
- Golf courses
- Institutional, includes hospitals, prisons, schools and colleges
- Industrial facilities, includes industrial parks
- Landfills
- Municipal facilities; includes highway garages, transfer stations, office buildings, POTW’s and water treatment plants
- Office complexes
- Sports complexes
- Racetracks, includes racetracks with earthen (dirt) surface
- Road construction or reconstruction
- Parking lot construction or reconstruction
- Athletic fields (natural grass) that include the construction or reconstruction of impervious area (>5% of disturbed area) or *alter the hydrology from pre to post development* conditions
- Athletic fields with artificial turf
- Permanent access roads, parking areas, substations, compressor stations and well drilling pads, surfaced with *impervious cover*, and constructed as part of an over-head electric transmission line project , wind-power project, cell tower project, oil or gas well drilling project, sewer or water main project or other linear utility project
- All other construction activities that include the construction or reconstruction of *impervious area* or *alter the hydrology from pre to post development* conditions, and are not listed in Table 1

APPENDIX C**Watersheds Where Enhanced Phosphorus Removal Standards Are Required**

Watersheds where *owners or operators* of construction activities identified in Table 2 of Appendix B must prepare a SWPPP that includes post-construction stormwater management practices designed in conformance with the Enhanced Phosphorus Removal Standards included in the technical standard, New York State Stormwater Management Design Manual (“Design Manual”).

- Entire New York City Watershed located east of the Hudson River - Figure 1
- Onondaga Lake Watershed - Figure 2
- Greenwood Lake Watershed -Figure 3
- Oscawana Lake Watershed – Figure 4
- Kinderhook Lake Watershed – Figure 5

Figure 1 - New York City Watershed East of the Hudson

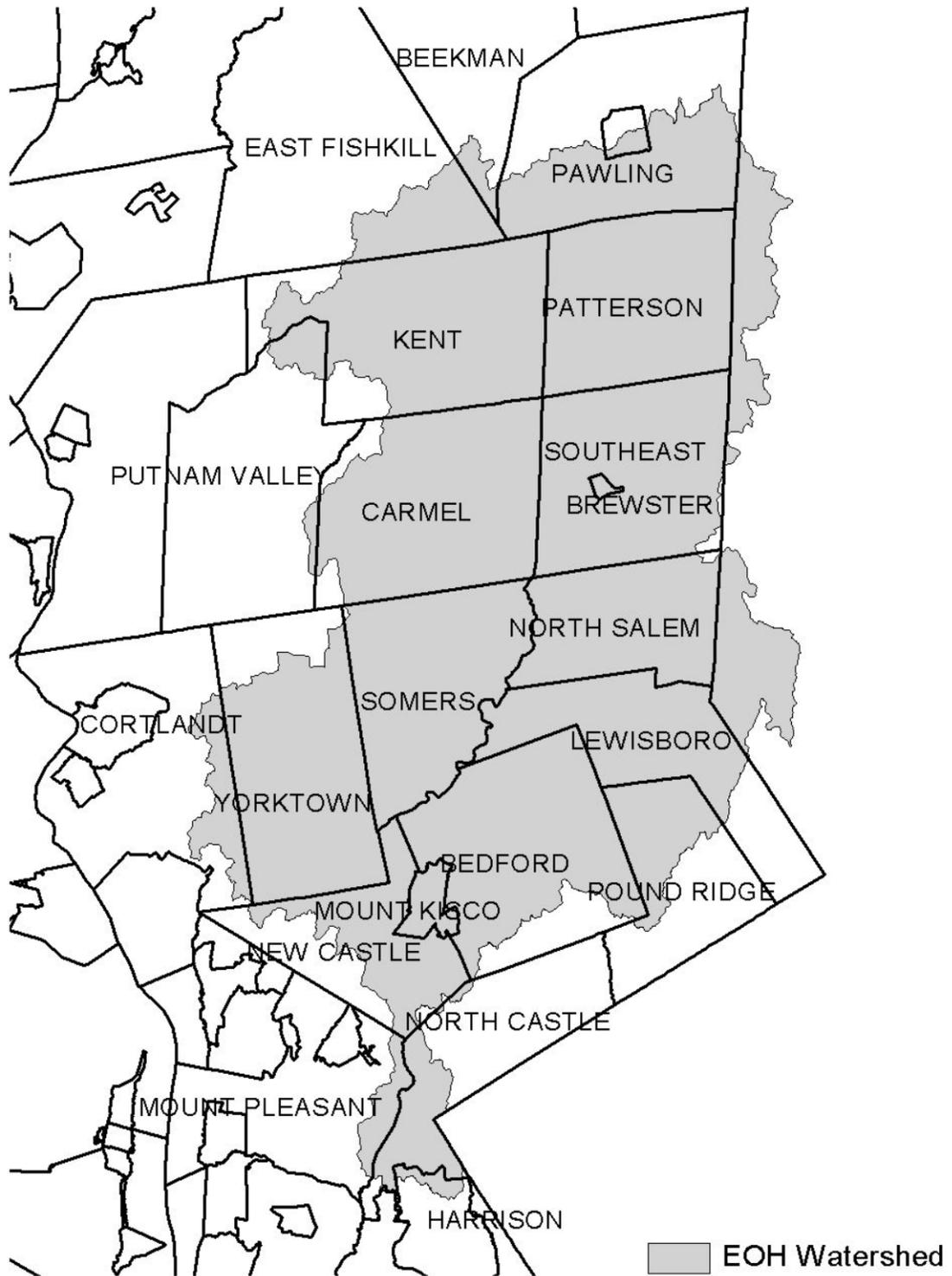


Figure 2 - Onondaga Lake Watershed



Figure 3 - Greenwood Lake Watershed

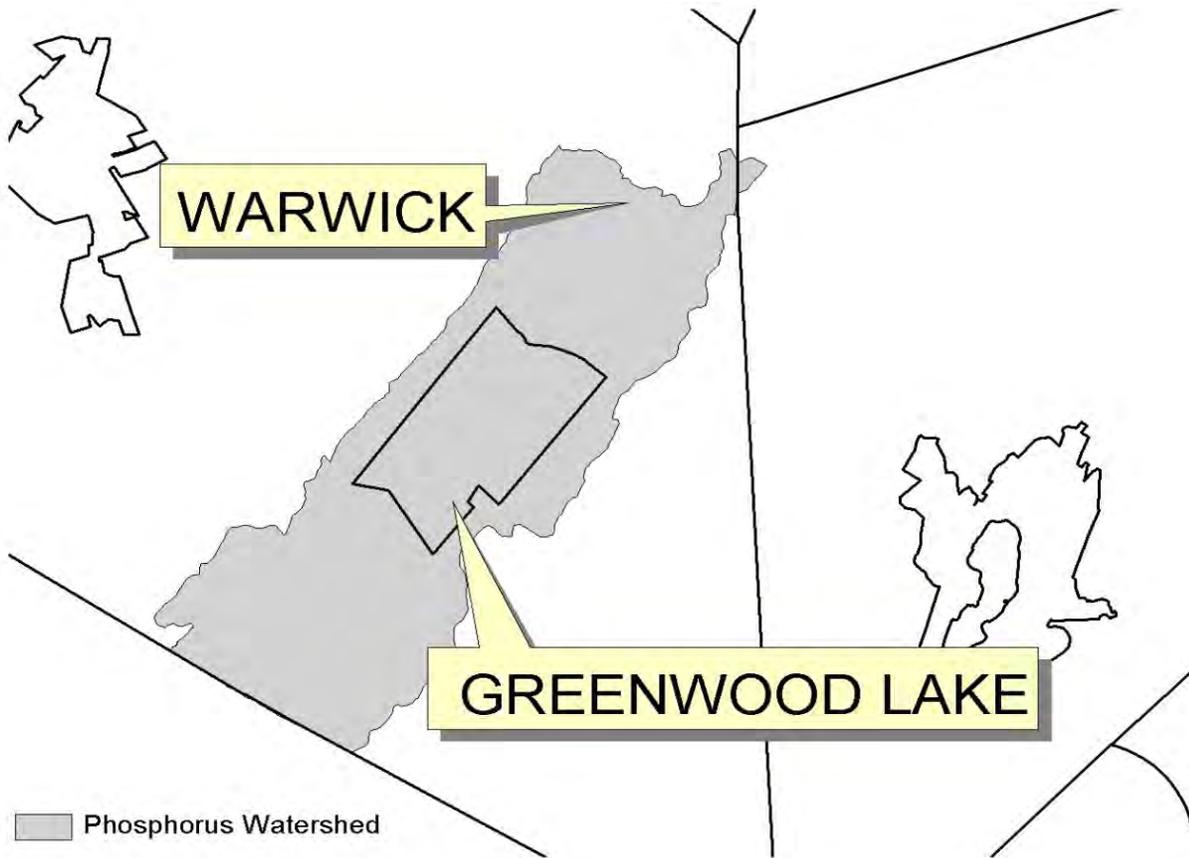


Figure 4 - Oscawana Lake Watershed

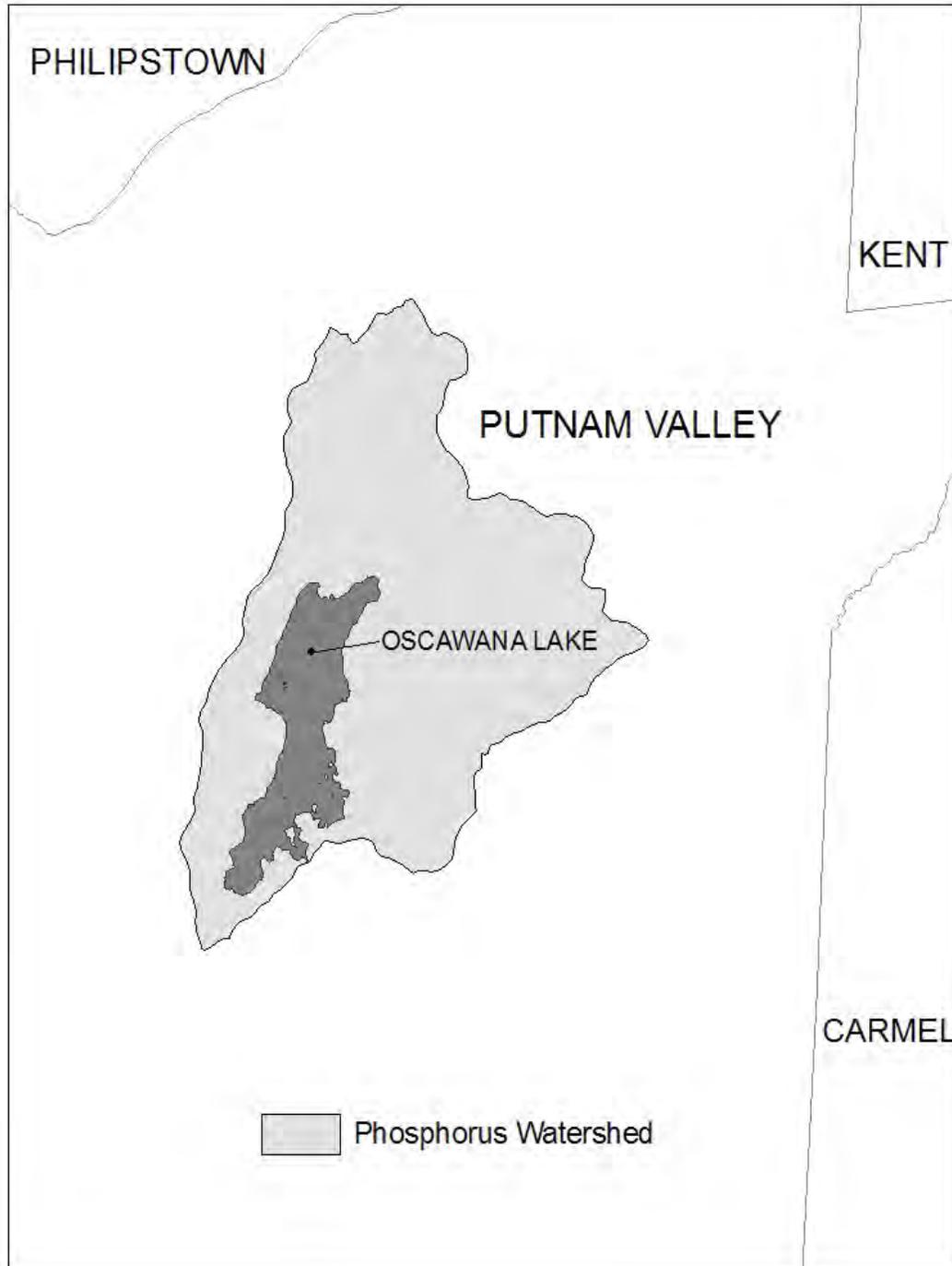
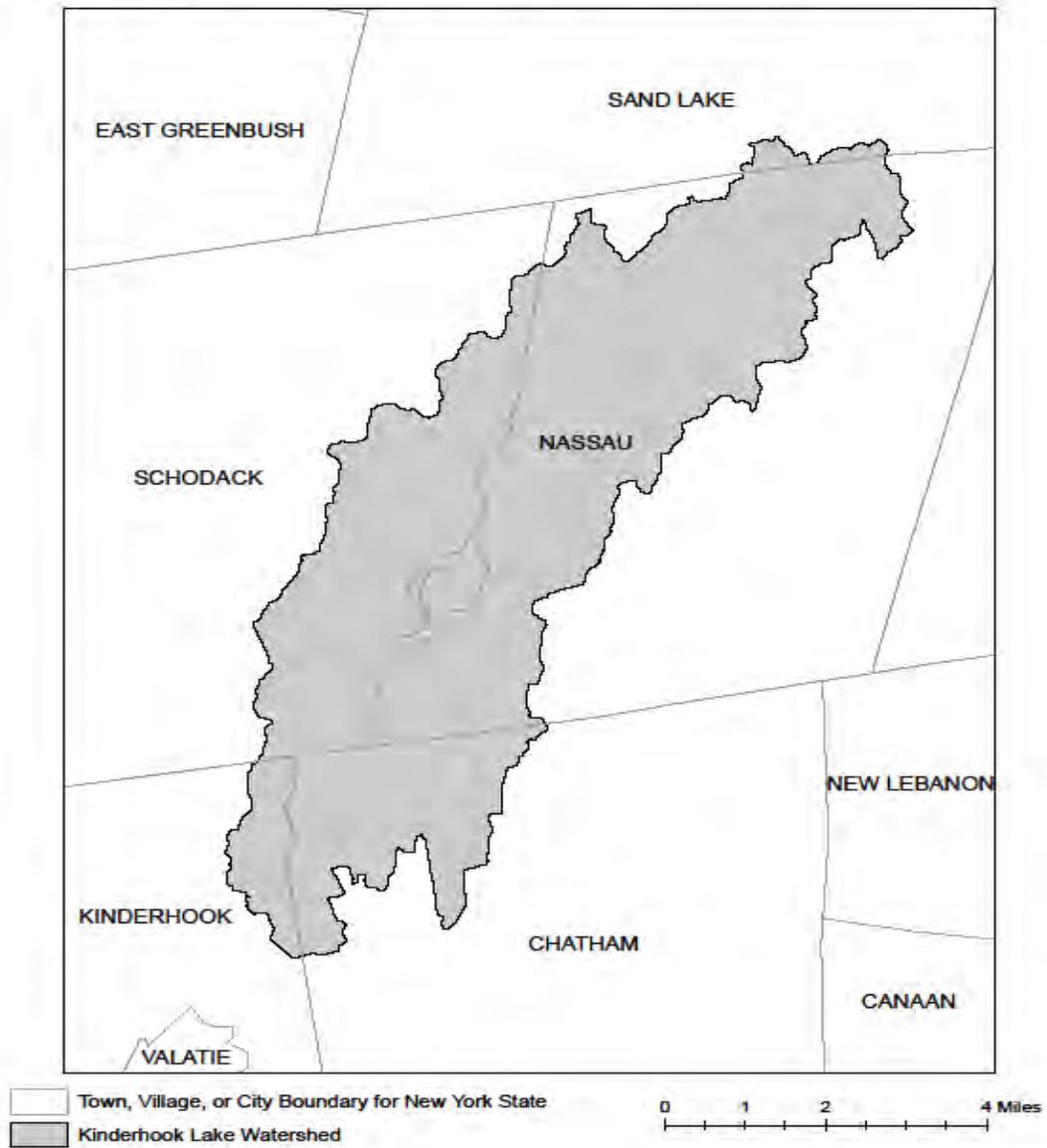


Figure 5: Kinderhook Lake Watershed



XI. **APPENDIX D**

Watersheds where *owners or operators* of construction activities that involve soil disturbances between five thousand (5000) square feet and one (1) acre of land must obtain coverage under this permit.

Entire New York City Watershed that is located east of the Hudson River - See Figure 1 in Appendix C

XII. APPENDIX E

List of 303(d) segments impaired by pollutants related to *construction activity* (e.g. silt, sediment or nutrients). *Owners or operators* of single family home and single family residential subdivisions with 25% or less total impervious cover at total site build-out that involve soil disturbances of one or more acres of land, but less than 5 acres, and *directly discharge* to one of the listed segments below shall prepare a SWPPP that includes post-construction stormwater management practices designed in conformance with the New York State Stormwater Management Design Manual (“Design Manual”), dated January 2015.

COUNTY	WATERBODY	COUNTY	WATERBODY
Albany	Ann Lee (Shakers) Pond, Stump Pond	Greene	Sleepy Hollow Lake
Albany	Basic Creek Reservoir	Herkimer	Steele Creek tribs
Allegheny	Amity Lake, Saunders Pond	Kings	Hendrix Creek
Bronx	Van Cortlandt Lake	Lewis	Mill Creek/South Branch and tribs
Broome	Whitney Point Lake/Reservoir	Livingston	Conesus Lake
Broome	Fly Pond, Deer Lake	Livingston	Jaycox Creek and tribs
Broome	Minor Tribs to Lower Susquehanna (north)	Livingston	Mill Creek and minor tribs
Cattaraugus	Allegheny River/Reservoir	Livingston	Bradner Creek and tribs
Cattaraugus	Case Lake	Livingston	Christie Creek and tribs
Cattaraugus	Linlyco/Club Pond	Monroe	Lake Ontario Shoreline, Western
Cayuga	Duck Lake	Monroe	Mill Creek/Blue Pond Outlet and tribs
Chautauqua	Chautauqua Lake, North	Monroe	Rochester Embayment - East
Chautauqua	Chautauqua Lake, South	Monroe	Rochester Embayment - West
Chautauqua	Bear Lake	Monroe	Unnamed Trib to Honeoye Creek
Chautauqua	Chadakoin River and tribs	Monroe	Genesee River, Lower, Main Stem
Chautauqua	Lower Cassadaga Lake	Monroe	Genesee River, Middle, Main Stem
Chautauqua	Middle Cassadaga Lake	Monroe	Black Creek, Lower, and minor tribs
Chautauqua	Findley Lake	Monroe	Buck Pond
Clinton	Great Chazy River, Lower, Main Stem	Monroe	Long Pond
Columbia	Kinderhook Lake	Monroe	Cranberry Pond
Columbia	Robinson Pond	Monroe	Mill Creek and tribs
Dutchess	Hillside Lake	Monroe	Shipbuilders Creek and tribs
Dutchess	Wappinger Lakes	Monroe	Minor tribs to Irondequoit Bay
Dutchess	Fall Kill and tribs	Monroe	Thomas Creek/White Brook and tribs
Erie	Green Lake	Nassau	Glen Cove Creek, Lower, and tribs
Erie	Scajaquada Creek, Lower, and tribs	Nassau	LI Tribs (fresh) to East Bay
Erie	Scajaquada Creek, Middle, and tribs	Nassau	East Meadow Brook, Upper, and tribs
Erie	Scajaquada Creek, Upper, and tribs	Nassau	Hempstead Bay
Erie	Rush Creek and tribs	Nassau	Hempstead Lake
Erie	Ellicott Creek, Lower, and tribs	Nassau	Grant Park Pond
Erie	Beeman Creek and tribs	Nassau	Beaver Lake
Erie	Murder Creek, Lower, and tribs	Nassau	Camaans Pond
Erie	South Branch Smoke Cr, Lower, and tribs	Nassau	Halls Pond
Erie	Little Sister Creek, Lower, and tribs	Nassau	LI Tidal Tribs to Hempstead Bay
Essex	Lake George (primary county: Warren)	Nassau	Massapequa Creek and tribs
Genesee	Black Creek, Upper, and minor tribs	Nassau	Reynolds Channel, east
Genesee	Tonawanda Creek, Middle, Main Stem	Nassau	Reynolds Channel, west
Genesee	Oak Orchard Creek, Upper, and tribs	Nassau	Silver Lake, Lofts Pond
Genesee	Bowen Brook and tribs	Nassau	Woodmere Channel
Genesee	Bigelow Creek and tribs	Niagara	Hyde Park Lake
Genesee	Black Creek, Middle, and minor tribs	Niagara	Lake Ontario Shoreline, Western
Genesee	LeRoy Reservoir	Niagara	Bergholtz Creek and tribs
Greene	Schoharie Reservoir	Oneida	Ballou, Nail Creeks
		Onondaga	Ley Creek and tribs
		Onondaga	Onondaga Creek, Lower and tribs

APPENDIX E

List of 303(d) segments impaired by pollutants related to construction activity, cont'd.

COUNTY	WATERBODY	COUNTY	WATERBODY
Onondaga	Onondaga Creek, Middle and tribs	Suffolk	Great South Bay, West
Onondaga	Onondaga Creek, Upp, and minor tribs	Suffolk	Mill and Seven Ponds
Onondaga	Harbor Brook, Lower, and tribs	Suffolk	Moriches Bay, East
Onondaga	Ninemile Creek, Lower, and tribs	Suffolk	Moriches Bay, West
Onondaga	Minor tribs to Onondaga Lake	Suffolk	Quantuck Bay
Onondaga	Onondaga Creek, Lower, and tribs	Suffolk	Shinnecock Bay (and Inlet)
Ontario	Honeoye Lake	Sullivan	Bodine, Montgomery Lakes
Ontario	Hemlock Lake Outlet and minor tribs	Sullivan	Davies Lake
Ontario	Great Brook and minor tribs	Sullivan	Pleasure Lake
Orange	Monhagen Brook and tribs	Sullivan	Swan Lake
Orange	Orange Lake	Tompkins	Cayuga Lake, Southern End
Orleans	Lake Ontario Shoreline, Western	Tompkins	Owasco Inlet, Upper, and tribs
Oswego	Pleasant Lake	Ulster	Ashokan Reservoir
Oswego	Lake Neatahwanta	Ulster	Esopus Creek, Upper, and minor tribs
Putnam	Oscawana Lake	Ulster	Esopus Creek, Lower, Main Stem
Putnam	Palmer Lake	Ulster	Esopus Creek, Middle, and minor tribs
Putnam	Lake Carmel	Warren	Lake George
Queens	Jamaica Bay, Eastern, and tribs (Queens)	Warren	Tribs to L.George, Village of L George
Queens	Bergen Basin	Warren	Huddle/Finkle Brooks and tribs
Queens	Shellbank Basin	Warren	Indian Brook and tribs
Rensselaer	Nassau Lake	Warren	Hague Brook and tribs
Rensselaer	Snyders Lake	Washington	Tribs to L.George, East Shr Lk George
Richmond	Grasmere, Arbutus and Wolfes Lakes	Washington	Cossayuna Lake
Rockland	Congers Lake, Swartout Lake	Washington	Wood Cr/Champlain Canal, minor tribs
Rockland	Rockland Lake	Wayne	Port Bay
Saratoga	Ballston Lake	Wayne	Marbletown Creek and tribs
Saratoga	Round Lake	Westchester	Lake Katonah
Saratoga	Dwaas Kill and tribs	Westchester	Lake Mohegan
Saratoga	Tribs to Lake Lonely	Westchester	Lake Shenorock
Saratoga	Lake Lonely	Westchester	Reservoir No.1 (Lake Isle)
Schenectady	Collins Lake	Westchester	Saw Mill River, Middle, and tribs
Schenectady	Duane Lake	Westchester	Silver Lake
Schenectady	Mariaville Lake	Westchester	Teatown Lake
Schoharie	Engleville Pond	Westchester	Truesdale Lake
Schoharie	Summit Lake	Westchester	Wallace Pond
Schuyler	Cayuta Lake	Westchester	Peach Lake
St. Lawrence	Fish Creek and minor tribs	Westchester	Mamaroneck River, Lower
St. Lawrence	Black Lake Outlet/Black Lake	Westchester	Mamaroneck River, Upp, and tribs
Steuben	Lake Salubria	Westchester	Sheldrake River and tribs
Steuben	Smith Pond	Westchester	Blind Brook, Lower
Suffolk	Millers Pond	Westchester	Blind Brook, Upper, and tribs
Suffolk	Mattituck (Marratooka) Pond	Westchester	Lake Lincolndale
Suffolk	Tidal tribs to West Moriches Bay	Westchester	Lake Meahaugh
Suffolk	Canaan Lake	Wyoming	Java Lake
Suffolk	Lake Ronkonkoma	Wyoming	Silver Lake
Suffolk	Beaverdam Creek and tribs		
Suffolk	Big/Little Fresh Ponds		
Suffolk	Fresh Pond		
Suffolk	Great South Bay, East		
Suffolk	Great South Bay, Middle		

Note: The list above identifies those waters from the final New York State "2014 Section 303(d) List of Impaired Waters Requiring a TMDL/Other Strategy", dated January 2015, that are impaired by silt, sediment or nutrients.

XIII. APPENDIX F

LIST OF NYS DEC REGIONAL OFFICES

<u>Region</u>	<u>COVERING THE FOLLOWING COUNTIES:</u>	<u>DIVISION OF ENVIRONMENTAL PERMITS (DEP) PERMIT ADMINISTRATORS</u>	<u>DIVISION OF WATER (DOW) WATER (SPDES) PROGRAM</u>
1	NASSAU AND SUFFOLK	50 CIRCLE ROAD STONY BROOK, NY 11790 TEL. (631) 444-0365	50 CIRCLE ROAD STONY BROOK, NY 11790-3409 TEL. (631) 444-0405
2	BRONX, KINGS, NEW YORK, QUEENS AND RICHMOND	1 HUNTERS POINT PLAZA, 47-40 21ST ST. LONG ISLAND CITY, NY 11101-5407 TEL. (718) 482-4997	1 HUNTERS POINT PLAZA, 47-40 21ST ST. LONG ISLAND CITY, NY 11101-5407 TEL. (718) 482-4933
3	DUTCHESS, ORANGE, PUTNAM, ROCKLAND, SULLIVAN, ULSTER AND WESTCHESTER	21 SOUTH PUTT CORNERS ROAD NEW PALTZ, NY 12561-1696 TEL. (845) 256-3059	100 HILLSIDE AVENUE, SUITE 1W WHITE PLAINS, NY 10603 TEL. (914) 428 - 2505
4	ALBANY, COLUMBIA, DELAWARE, GREENE, MONTGOMERY, OTSEGO, RENSSELAER, SCHENECTADY AND SCHOHARIE	1150 NORTH WESTCOTT ROAD SCHENECTADY, NY 12306-2014 TEL. (518) 357-2069	1130 NORTH WESTCOTT ROAD SCHENECTADY, NY 12306-2014 TEL. (518) 357-2045
5	CLINTON, ESSEX, FRANKLIN, FULTON, HAMILTON, SARATOGA, WARREN AND WASHINGTON	1115 STATE ROUTE 86, Po Box 296 RAY BROOK, NY 12977-0296 TEL. (518) 897-1234	232 GOLF COURSE ROAD WARRENSBURG, NY 12885-1172 TEL. (518) 623-1200
6	HERKIMER, JEFFERSON, LEWIS, ONEIDA AND ST. LAWRENCE	STATE OFFICE BUILDING 317 WASHINGTON STREET WATERTOWN, NY 13601-3787 TEL. (315) 785-2245	STATE OFFICE BUILDING 207 GENESEE STREET UTICA, NY 13501-2885 TEL. (315) 793-2554
7	BROOME, CAYUGA, CHENANGO, CORTLAND, MADISON, ONONDAGA, OSWEGO, TIOGA AND TOMPKINS	615 ERIE BLVD. WEST SYRACUSE, NY 13204-2400 TEL. (315) 426-7438	615 ERIE BLVD. WEST SYRACUSE, NY 13204-2400 TEL. (315) 426-7500
8	CHEMUNG, GENESEE, LIVINGSTON, MONROE, ONTARIO, ORLEANS, SCHUYLER, SENECA, STEUBEN, WAYNE AND YATES	6274 EAST AVON-LIMA ROAD AVON, NY 14414-9519 TEL. (585) 226-2466	6274 EAST AVON-LIMA RD. AVON, NY 14414-9519 TEL. (585) 226-2466
9	ALLEGANY, CATTARAUGUS, CHAUTAUQUA, ERIE, NIAGARA AND WYOMING	270 MICHIGAN AVENUE BUFFALO, NY 14203-2999 TEL. (716) 851-7165	270 MICHIGAN AVE. BUFFALO, NY 14203-2999 TEL. (716) 851-7070

APPENDIX H

Notice of Intent (NOI) Form

NOTICE OF INTENT



**New York State Department of Environmental Conservation
Division of Water**

**625 Broadway, 4th Floor
Albany, New York 12233-3505**

NYR
(for DEC use only)

Stormwater Discharges Associated with Construction Activity Under State Pollutant Discharge Elimination System (SPDES) General Permit # GP-0-15-002
All sections must be completed unless otherwise noted. Failure to complete all items may result in this form being returned to you, thereby delaying your coverage under this General Permit. Applicants must read and understand the conditions of the permit and prepare a Stormwater Pollution Prevention Plan prior to submitting this NOI. Applicants are responsible for identifying and obtaining other DEC permits that may be required.

- IMPORTANT -
RETURN THIS FORM TO THE ADDRESS ABOVE
OWNER/OPERATOR MUST SIGN FORM

Owner/Operator Information

Owner/Operator (Company Name/Private Owner Name/Municipality Name)

Hudson Valley Community College

Owner/Operator Contact Person Last Name (NOT CONSULTANT)

Edwards

Owner/Operator Contact Person First Name

Richard

Owner/Operator Mailing Address

80 Vandenburg Avenue

City

Troy

State

NY

Zip

12180 -

Phone (Owner/Operator)

518 - 629 - 7356

Fax (Owner/Operator)

- -

Email (Owner/Operator)

r.edwards@hvcc.edu

FED TAX ID

14 - 6009464 (not required for individuals)

Project Site Information

Project/Site Name

R e c o n s t r u c t i o n o f C a m p u s P a r k i n g L o t s

Street Address (NOT P.O. BOX)

8 0 V a n d e n b u r g h A v e .

Side of Street

North South East West

City/Town/Village (THAT ISSUES BUILDING PERMIT)

T r o y

State

N Y

Zip

1 2 1 8 0 -

County

R e n s s e l a e r

DEC Region

4

Name of Nearest Cross Street

N o r t h D r i v e

Distance to Nearest Cross Street (Feet)

1 0 0

Project In Relation to Cross Street

North South East West

Tax Map Numbers

Section-Block-Parcel

1 1 2 . 0 0 - 4 - 4 5 . 1

Tax Map Numbers

1. Provide the Geographic Coordinates for the project site in NYTM Units. To do this you must go to the NYSDEC Stormwater Interactive Map on the DEC website at:

www.dec.ny.gov/ismaps/stormwater/viewer.htm

Zoom into your Project Location such that you can accurately click on the centroid of your site. Once you have located your project site, go to the tool boxes on the top and choose "i"(identify). Then click on the center of your site and a new window containing the X, Y coordinates in UTM will pop up. Transcribe these coordinates into the boxes below. For problems with the interactive map use the help function.

X Coordinates (Easting)

6 0 7 8 0 3

Y Coordinates (Northing)

4 7 2 7 8 6 6

2. What is the nature of this construction project?

- New Construction
- Redevelopment with increase in impervious area
- Redevelopment with no increase in impervious area

Post-construction Stormwater Management Practice (SMP) Requirements

Important: Completion of Questions 27-39 is not required if response to Question 22 is No.

27. Identify all site planning practices that were used to prepare the final site plan/layout for the project.

- Preservation of Undisturbed Areas
- Preservation of Buffers
- Reduction of Clearing and Grading
- Locating Development in Less Sensitive Areas
- Roadway Reduction
- Sidewalk Reduction
- Driveway Reduction
- Cul-de-sac Reduction
- Building Footprint Reduction
- Parking Reduction

27a. Indicate which of the following soil restoration criteria was used to address the requirements in Section 5.1.6("Soil Restoration") of the Design Manual (2010 version).

- All disturbed areas will be restored in accordance with the Soil Restoration requirements in Table 5.3 of the Design Manual (see page 5-22).
- Compacted areas were considered as impervious cover when calculating the **WQv Required**, and the compacted areas were assigned a post-construction Hydrologic Soil Group (HSG) designation that is one level less permeable than existing conditions for the hydrology analysis.

28. Provide the total Water Quality Volume (WQv) required for this project (based on final site plan/layout).

Total WQv Required

. acre-feet

29. Identify the RR techniques (Area Reduction), RR techniques (Volume Reduction) and Standard SMPs with RRv Capacity in Table 1 (See Page 9) that were used to reduce the Total WQv Required (#28).

Also, provide in Table 1 the total impervious area that contributes runoff to each technique/practice selected. For the Area Reduction Techniques, provide the total contributing area (includes pervious area) and, if applicable, the total impervious area that contributes runoff to the technique/practice.

Note: Redevelopment projects shall use Tables 1 and 2 to identify the SMPs used to treat and/or reduce the WQv required. If runoff reduction techniques will not be used to reduce the required WQv, skip to question 33a after identifying the SMPs.

Table 1 - Runoff Reduction (RR) Techniques and Standard Stormwater Management Practices (SMPs)

<u>RR Techniques (Area Reduction)</u>	<u>Total Contributing Area (acres)</u>		<u>Total Contributing Impervious Area (acres)</u>	
<input type="radio"/> Conservation of Natural Areas (RR-1) ...	<input type="text"/>	<input type="text"/>	and/or	<input type="text"/>
<input checked="" type="radio"/> Sheetflow to Riparian Buffers/Filters Strips (RR-2)	<input type="text"/>	0 9	and/or	<input type="text"/>
<input checked="" type="radio"/> Tree Planting/Tree Pit (RR-3)	<input type="text"/>	0 2 0	and/or	<input type="text"/>
<input type="radio"/> Disconnection of Rooftop Runoff (RR-4) ..	<input type="text"/>	<input type="text"/>	and/or	<input type="text"/>
<u>RR Techniques (Volume Reduction)</u>				
<input type="radio"/> Vegetated Swale (RR-5)	<input type="text"/>	<input type="text"/>		<input type="text"/>
<input type="radio"/> Rain Garden (RR-6)	<input type="text"/>	<input type="text"/>		<input type="text"/>
<input type="radio"/> Stormwater Planter (RR-7)	<input type="text"/>	<input type="text"/>		<input type="text"/>
<input type="radio"/> Rain Barrel/Cistern (RR-8)	<input type="text"/>	<input type="text"/>		<input type="text"/>
<input checked="" type="radio"/> Porous Pavement (RR-9)	<input type="text"/>	<input type="text"/>	1	2 3
<input type="radio"/> Green Roof (RR-10)	<input type="text"/>	<input type="text"/>		<input type="text"/>
<u>Standard SMPs with RRv Capacity</u>				
<input type="radio"/> Infiltration Trench (I-1)	<input type="text"/>	<input type="text"/>		<input type="text"/>
<input type="radio"/> Infiltration Basin (I-2)	<input type="text"/>	<input type="text"/>		<input type="text"/>
<input type="radio"/> Dry Well (I-3)	<input type="text"/>	<input type="text"/>		<input type="text"/>
<input type="radio"/> Underground Infiltration System (I-4)	<input type="text"/>	<input type="text"/>		<input type="text"/>
<input type="radio"/> Bioretention (F-5)	<input type="text"/>	<input type="text"/>		<input type="text"/>
<input type="radio"/> Dry Swale (O-1)	<input type="text"/>	<input type="text"/>		<input type="text"/>
<u>Standard SMPs</u>				
<input type="radio"/> Micropool Extended Detention (P-1)	<input type="text"/>	<input type="text"/>		<input type="text"/>
<input type="radio"/> Wet Pond (P-2)	<input type="text"/>	<input type="text"/>		<input type="text"/>
<input type="radio"/> Wet Extended Detention (P-3)	<input type="text"/>	<input type="text"/>		<input type="text"/>
<input type="radio"/> Multiple Pond System (P-4)	<input type="text"/>	<input type="text"/>		<input type="text"/>
<input type="radio"/> Pocket Pond (P-5)	<input type="text"/>	<input type="text"/>		<input type="text"/>
<input type="radio"/> Surface Sand Filter (F-1)	<input type="text"/>	<input type="text"/>		<input type="text"/>
<input type="radio"/> Underground Sand Filter (F-2)	<input type="text"/>	<input type="text"/>		<input type="text"/>
<input type="radio"/> Perimeter Sand Filter (F-3)	<input type="text"/>	<input type="text"/>		<input type="text"/>
<input type="radio"/> Organic Filter (F-4)	<input type="text"/>	<input type="text"/>		<input type="text"/>
<input type="radio"/> Shallow Wetland (W-1)	<input type="text"/>	<input type="text"/>		<input type="text"/>
<input type="radio"/> Extended Detention Wetland (W-2)	<input type="text"/>	<input type="text"/>		<input type="text"/>
<input type="radio"/> Pond/Wetland System (W-3)	<input type="text"/>	<input type="text"/>		<input type="text"/>
<input type="radio"/> Pocket Wetland (W-4)	<input type="text"/>	<input type="text"/>		<input type="text"/>
<input type="radio"/> Wet Swale (O-2)	<input type="text"/>	<input type="text"/>		<input type="text"/>

33. Identify the Standard SMPs in Table 1 and, if applicable, the Alternative SMPs in Table 2 that were used to treat the remaining total WQv(=Total WQv Required in 28 - Total RRv Provided in 30).

Also, provide in Table 1 and 2 the total impervious area that contributes runoff to each practice selected.

Note: Use Tables 1 and 2 to identify the SMPs used on Redevelopment projects.

33a. Indicate the Total WQv provided (i.e. WQv treated) by the SMPs identified in question #33 and Standard SMPs with RRv Capacity identified in question 29.

WQv Provided

. acre-feet

Note: For the standard SMPs with RRv capacity, the WQv provided by each practice = the WQv calculated using the contributing drainage area to the practice - RRv provided by the practice. (See Table 3.5 in Design Manual)

34. Provide the sum of the Total RRv provided (#30) and the WQv provided (#33a). .

35. Is the sum of the RRv provided (#30) and the WQv provided (#33a) greater than or equal to the total WQv required (#28)? Yes No

If Yes, go to question 36.
 If No, sizing criteria has not been met, so NOI can not be processed. SWPPP preparer must modify design to meet sizing criteria.

36. Provide the total Channel Protection Storage Volume (CPv) required and provided or select waiver (36a), if applicable.

CPv Required <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> acre-feet	CPv Provided <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> acre-feet
---	---

36a. The need to provide channel protection has been waived because:

- Site discharges directly to tidal waters or a fifth order or larger stream.
- Reduction of the total CPv is achieved on site through runoff reduction techniques or infiltration systems.

37. Provide the Overbank Flood (Qp) and Extreme Flood (Qf) control criteria or select waiver (37a), if applicable.

Total Overbank Flood Control Criteria (Qp)

Pre-Development <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> CFS	Post-development <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> CFS
--	---

Total Extreme Flood Control Criteria (Qf)

Pre-Development <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> CFS	Post-development <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> CFS
--	---

Owner/Operator Certification

I have read or been advised of the permit conditions and believe that I understand them. I also understand that, under the terms of the permit, there may be reporting requirements. I hereby certify that this document and the corresponding documents were prepared under my direction or supervision. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I further understand that coverage under the general permit will be identified in the acknowledgment that I will receive as a result of submitting this NOI and can be as long as sixty (60) business days as provided for in the general permit. I also understand that, by submitting this NOI, I am acknowledging that the SWPPP has been developed and will be implemented as the first element of construction, and agreeing to comply with all the terms and conditions of the general permit for which this NOI is being submitted.

Print First Name

R	i	c	h	a	r	d													
---	---	---	---	---	---	---	--	--	--	--	--	--	--	--	--	--	--	--	--

MI

L

Print Last Name

E	d	w	a	r	d	s													
---	---	---	---	---	---	---	--	--	--	--	--	--	--	--	--	--	--	--	--

Owner/Operator Signature

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Date

		/			/			
--	--	---	--	--	---	--	--	--

APPENDIX I

Notice of Termination (NOT) Form

**New York State Department of Environmental Conservation
Division of Water
625 Broadway, 4th Floor
Albany, New York 12233-3505**

(NOTE: Submit completed form to address above)

**NOTICE OF TERMINATION for Storm Water Discharges Authorized
under the SPDES General Permit for Construction Activity**

Please indicate your permit identification number: NYR _____

I. Owner or Operator Information

1. Owner/Operator Name:

2. Street Address:

3. City/State/Zip:

4. Contact Person:

4a. Telephone:

4b. Contact Person E-Mail:

II. Project Site Information

5. Project/Site Name:

6. Street Address:

7. City/Zip:

8. County:

III. Reason for Termination

9a. All disturbed areas have achieved final stabilization in accordance with the general permit and SWPPP. *Date final stabilization completed (month/year): _____

9b. Permit coverage has been transferred to new owner/operator. Indicate new owner/operator's permit identification number: NYR _____
(Note: Permit coverage can not be terminated by owner identified in I.1. above until new owner/operator obtains coverage under the general permit)

9c. Other (Explain on Page 2)

IV. Final Site Information:

10a. Did this construction activity require the development of a SWPPP that includes post-construction stormwater management practices? yes no (If no, go to question 10f.)

10b. Have all post-construction stormwater management practices included in the final SWPPP been constructed? yes no (If no, explain on Page 2)

10c. Identify the entity responsible for long-term operation and maintenance of practice(s)?

**NOTICE OF TERMINATION for Storm Water Discharges Authorized under the
SPDES General Permit for Construction Activity - continued**

10d. Has the entity responsible for long-term operation and maintenance been given a copy of the operation and maintenance plan required by the general permit? yes no

10e. Indicate the method used to ensure long-term operation and maintenance of the post-construction stormwater management practice(s):

- Post-construction stormwater management practice(s) and any right-of-way(s) needed to maintain practice(s) have been deeded to the municipality.
- Executed maintenance agreement is in place with the municipality that will maintain the post-construction stormwater management practice(s).
- For post-construction stormwater management practices that are privately owned, a mechanism is in place that requires operation and maintenance of the practice(s) in accordance with the operation and maintenance plan, such as a deed covenant in the owner or operator's deed of record.
- For post-construction stormwater management practices that are owned by a public or private institution (e.g. school, university or hospital), government agency or authority, or public utility; policy and procedures are in place that ensures operation and maintenance of the practice(s) in accordance with the operation and maintenance plan.

10f. Provide the total area of impervious surface (i.e. roof, pavement, concrete, gravel, etc.) constructed within the disturbance area? _____
(acres)

11. Is this project subject to the requirements of a regulated, traditional land use control MS4? yes
 no
(If Yes, complete section VI - "MS4 Acceptance" statement)

V. Additional Information/Explanation:
(Use this section to answer questions 9c. and 10b., if applicable)

VI. MS4 Acceptance - MS4 Official (principal executive officer or ranking elected official) or Duly Authorized Representative (Note: Not required when 9b. is checked -transfer of coverage)

I have determined that it is acceptable for the owner or operator of the construction project identified in question 5 to submit the Notice of Termination at this time.

Printed Name:

Title/Position:

Signature:

Date:

NOTICE OF TERMINATION for Storm Water Discharges Authorized under the
SPDES General Permit for Construction Activity - continued

VII. Qualified Inspector Certification - Final Stabilization:

I hereby certify that all disturbed areas have achieved final stabilization as defined in the current version of the general permit, and that all temporary, structural erosion and sediment control measures have been removed. Furthermore, I understand that certifying false, incorrect or inaccurate information is a violation of the referenced permit and the laws of the State of New York and could subject me to criminal, civil and/or administrative proceedings.

Printed Name:

Title/Position:

Signature:

Date:

VIII. Qualified Inspector Certification - Post-construction Stormwater Management Practice(s):

I hereby certify that all post-construction stormwater management practices have been constructed in conformance with the SWPPP. Furthermore, I understand that certifying false, incorrect or inaccurate information is a violation of the referenced permit and the laws of the State of New York and could subject me to criminal, civil and/or administrative proceedings.

Printed Name:

Title/Position:

Signature:

Date:

IX. Owner or Operator Certification

I hereby certify that this document was prepared by me or under my direction or supervision. My determination, based upon my inquiry of the person(s) who managed the construction activity, or those persons directly responsible for gathering the information, is that the information provided in this document is true, accurate and complete. Furthermore, I understand that certifying false, incorrect or inaccurate information is a violation of the referenced permit and the laws of the State of New York and could subject me to criminal, civil and/or administrative proceedings.

Printed Name:

Title/Position:

Signature:

Date:

APPENDIX J

Site Assessment and Inspection Log

SWPPP Site Assessment and Inspection Log

Construction Stormwater Inspection Report (for SPDES General Permit GP-0-15-002)

Project Name and Location: Municipality:	Date:	Report No.
	Weather Conditions: Reason:	
	Soil Conditions:	
	Entry Time	Exit Time:

Overall Inspection Rating: <input type="checkbox"/> Satisfactory <input type="checkbox"/> Marginal <input type="checkbox"/> Unsatisfactory			
Name of Qualified Inspector: Name: Title:	Signature of Qualified Inspector:	Reviewed by:	Signature of Reviewer:

<table style="width: 100%;"> <tr> <th style="text-align: left;">Yes</th> <th style="text-align: left;">No</th> <th style="text-align: left;">N/A</th> <th></th> </tr> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>Routine Inspection?</td> </tr> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>Inspection following rain event?</td> </tr> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>Is this a final inspection?</td> </tr> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>Has the site undergone final stabilization?</td> </tr> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>If so, have all temporary erosion and sediment controls been removed?</td> </tr> </table>	Yes	No	N/A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Routine Inspection?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Inspection following rain event?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Is this a final inspection?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Has the site undergone final stabilization?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	If so, have all temporary erosion and sediment controls been removed?	Date of last inspection: Notes: _____ _____ _____ _____
Yes	No	N/A																							
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Routine Inspection?																						
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Inspection following rain event?																						
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Is this a final inspection?																						
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Has the site undergone final stabilization?																						
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	If so, have all temporary erosion and sediment controls been removed?																						

REPORT CHECKLIST

Complete the following report checklist and key issue items to attached site plan

1. Site Disturbance (Indicate Locations on Plan)

Yes	No	N/A	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1.1 Areas previously disturbed, but have not undergone active site work in the last 14 days?
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1.2 Areas disturbed within last 14 days?
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1.3 Areas expected to be disturbed in next 14 days?
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1.4 Do areas of steep slopes or complex stabilization issues exist? If "YES," explain:
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1.5 Are there currently more than 5 acres of disturbed soil at the site?

Additional comments: _____

2. Inspection of Erosion and Sediment Control Practices

Yes	No	N/A	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2.1 Do any erosion and sediment control practices require repair or maintenance? If yes, identify required maintenance below.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2.2 Are any erosion and sediment control practices not installed properly or not functioning as designed? If yes, identify required corrective action below.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2.3 Were all practices inspected in accordance with the New York State Standard Specifications for Erosion and Sediment Control?

Additional comments: _____

3. Inspection of Post-Construction Stormwater Management Practices

Yes No N/A

3.1 Has construction begun on any Post-Construction Practices? If yes, provide status of construction below.

3.2 Has construction been completed on any Post-Construction Practices? If so, identify any deficiencies below.

3.3 Do any completed Post-Construction Practices require maintenance or repair? If so, identify required action below.

Additional
comments:

4. Stabilization

Yes No N/A

4.1 Are all existing disturbed areas contained by erosion control and sediment practices?

4.2 Are there areas that require stabilization within the next 14 days?

4.3 Have stabilization measures been initiated in inactive areas?

4.4 Is there current snow cover or frozen ground conditions?

4.5 Rills or gullies?

4.6 Slumping / deposition?

4.7 Loss of vegetation?

4.8 Lack of germination?

4.9 Loss of mulching?

Additional
comments:

5. Receiving Structures / Water Bodies (Indicate locations where runoff leaves the project site on the plan)

Yes No N/A

5.1 Surface water swale or stream?

5.2 Municipal or community system?

Inspect locations where runoff from project site enters the receiving waters and indicate if there is evidence of:

5.3 Rills or gullies?

5.4 Slumping / deposition?

5.5 Loss of vegetation?

5.6 Undermining of structures?

5.7 Was there a discharge into the receiving water on the day of inspection?

5.8 Is there evidence of turbidity, sedimentation, or oil in the receiving waters?

Additional
comments:

6. General Site Conditions

Yes No N/A

- 6.1 Have action Items from previous reports been addressed??
- 6.2 Does routine maintenance of protection components occur on a regular basis?
- 6.3 Does cleaning and/or sweeping affected roadways occur, at minimum, daily?
- 6.4 Is debris and litter removed on a monthly basis, or as necessary?
- 6.5 Is the site maintained in an orderly manner?

Contractor progress over last 7 days: _____

Anticipated work to begin over the next 7 days: _____

7. Visual Observations

Yes No N/A

- 7.1 All erosion and sediment control measures have been installed/constructed?
- 7.2 All erosion and sediment control measures are being maintained properly?

Outstanding Item	Photo(s)	Action Item
<input type="checkbox"/>	_____	_____ _____
<input type="checkbox"/>	_____	_____ _____
<input type="checkbox"/>	_____	_____ _____

Any Additional Comments: _____

Action Reported to / Company: _____
(Name) (Title) (Company) (Date)

Received By / Company: _____
(Name) (Title) (Company) (Date)

APPENDIX K

Operations and Maintenance Checklist

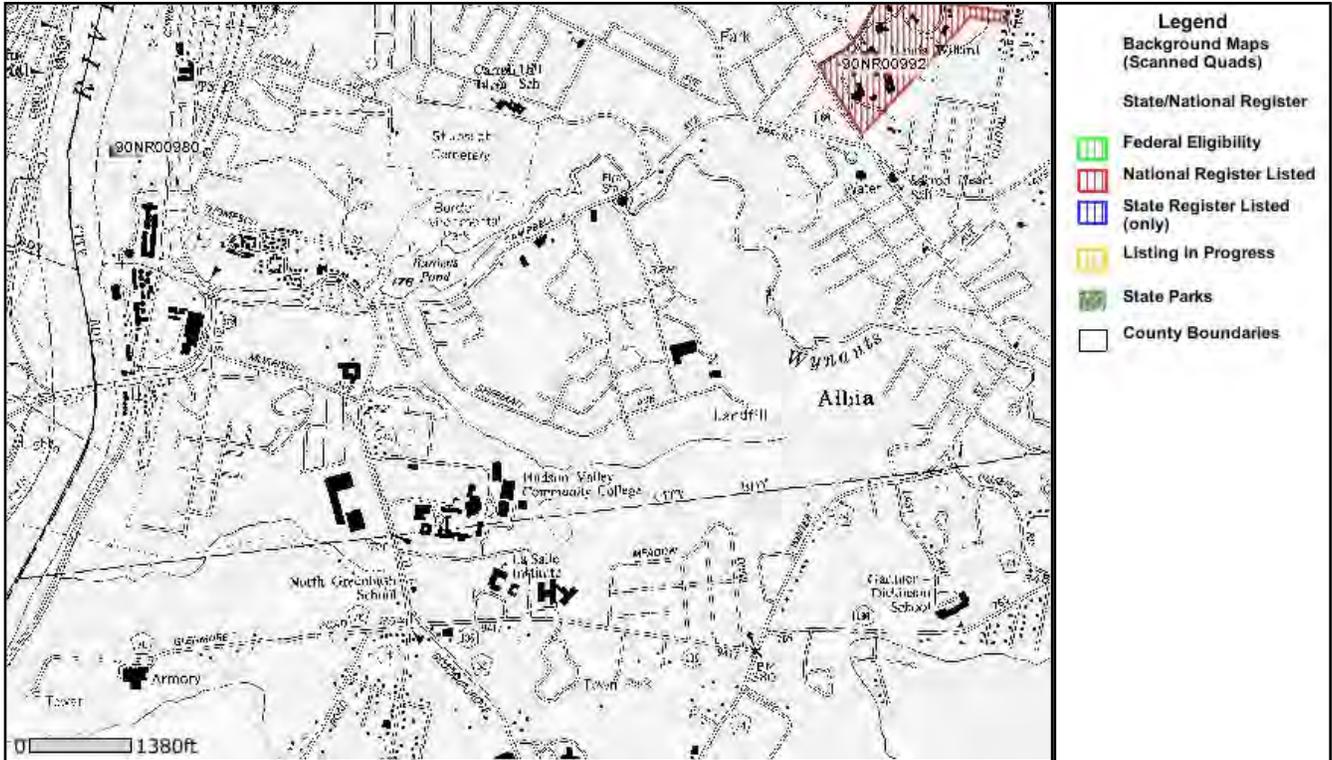
Porous Asphalt Pavement, Maintenance and Management Inspection Checklist

MAINTENANCE ITEM	SATISFACTORY / UNSATISFACTORY	COMMENTS
A. Typical Maintenance (Monthly)		
1. Ensure that paving area is clean of debris		
2. No dumping of yard wastes or de-icing sands into paving area		
3. Ensure that paving area dewateres between storms		
4. Mow upland and adjacent areas, seed bare spots		
5. Ensure that paving area is clean of sediments		
6. Sweep, blow or vacuum paving areas to keep surface free of sediments		

APPENDIX L

SHPO Map

SHPO



January 18, 2011

Disclaimer: This map was prepared by the New York State Parks, Recreation and Historic Preservation National Register Listing Internet Application. The information was compiled using the most current data available. It is deemed accurate, but is not guaranteed.

APPENDIX M

Project Plans

HUDSON VALLEY COMMUNITY COLLEGE

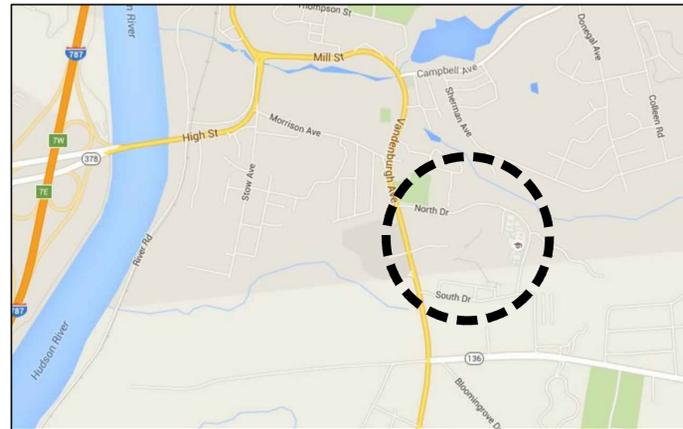
RECONSTRUCTION OF CAMPUS PARKING LOTS BID NO. 3632



Hudson Valley Community College

80 Vandenburg Ave
Troy, NY 12180

RECONSTRUCTION OF CAMPUS PARKING LOTS

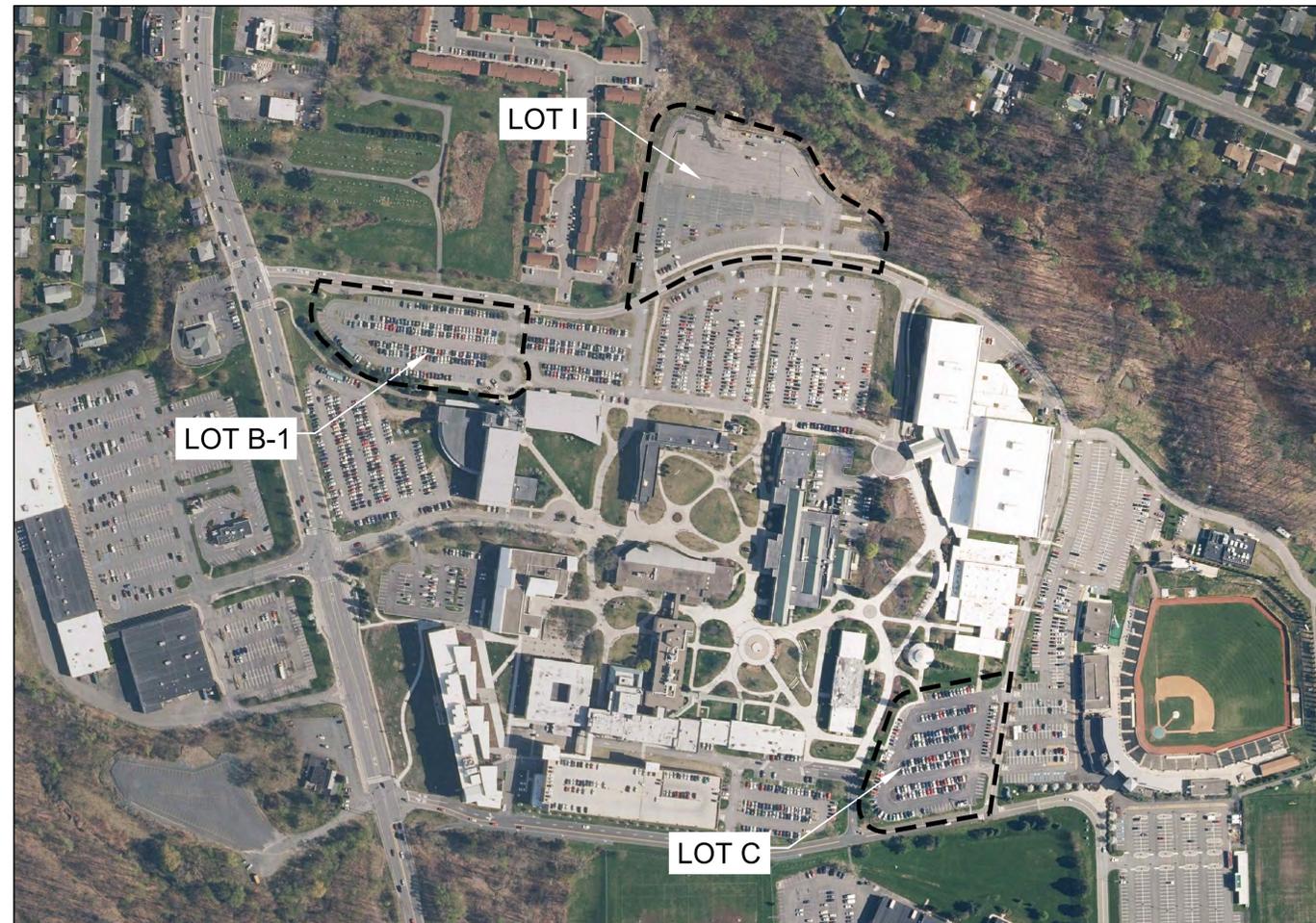


LOCATION MAP

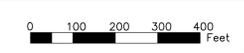


GENERAL CONSTRUCTION NOTES

- ALL EXISTING UNDERGROUND UTILITIES ARE SHOWN BASED ON AVAILABLE RECORD MAPS. THEIR EXACT LOCATION MAY DIFFER FROM THAT AS SHOWN AND OTHERS MAY EXIST. CONTRACTOR SHALL VERIFY THE LOCATION OF UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION AND SHALL NOTIFY THE OWNER'S REPRESENTATIVE OF ANY DISCREPANCIES WITH THE PLANS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROCEED WITH CARE IN EXECUTING THE WORK. CONTACT U.F.P.O. 48 HOURS BEFORE DIGGING AT 1-800-962-7962 OR VISIT WWW.DIGSAFELYNEWYORK.COM FOR MORE INFORMATION.
- ALL EXISTING UNDERGROUND UTILITIES DAMAGED AS A RESULT OF NEW CONSTRUCTION SHALL BE RESTORED TO ORIGINAL CONDITION IN CONFORMANCE WITH THE AGENCY HAVING JURISDICTION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO TAKE THE NECESSARY PRECAUTIONS TO ENSURE THAT EXISTING UTILITIES WILL NOT BE DAMAGED DURING THE COURSE OF NEW CONSTRUCTION. DAMAGED UTILITIES SHALL BE RESTORED AT THE EXPENSE OF THE CONTRACTOR. COMMENCEMENT OF WORK AND NOTIFY THE OWNER'S REPRESENTATIVE OF ANY CONDITIONS THAT VARY FROM THE PLANS.
- THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS IN THE FIELD PRIOR TO COMMENCEMENT OF WORK AND NOTIFY THE OWNER'S REPRESENTATIVE OF ANY CONDITIONS THAT VARY FROM THE PLANS.
- THE CONTRACTOR SHALL EXERCISE CARE DURING REMOVAL OPERATIONS TO ENSURE THE PROTECTION OF EXISTING FACILITIES AND STRUCTURES TO REMAIN. THE CONTRACTOR SHALL RESTORE ALL DAMAGED FACILITIES AND STRUCTURES DISTURBED AS A RESULT OF NEW CONSTRUCTION TO ORIGINAL CONDITION AT CONTRACTOR'S EXPENSE.
- EXPLORATORY TESTS ARE THE RESPONSIBILITY OF THE CONTRACTOR.
- THE CONTRACTOR SHALL PAY FOR, OBTAIN AND COMPLY WITH ALL REQUIRED PERMITS, INSPECTIONS AND CERTIFICATES.
- THE CONTRACTOR IS RESPONSIBLE FOR CONDUCTING HIS WORK IN A SAFE MANNER. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST APPLICABLE O.S.H.A REGULATIONS.
- DEWATERING AND MAINTENANCE OF SURFACE DRAINAGE DURING THE COURSE OF WORK SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. PROVIDE PROPER MAINTENANCE OF FLOW THROUGH EXISTING STORM SYSTEM. THE DISCHARGE OF SUMP PUMP WATER AND OTHER DEWATERING METHODS SHALL BE CONTROLLED TO PREVENT SURFACE EROSION.
- THE CONTRACTOR SHALL GRADE THE SITE TO PROVIDE POSITIVE DRAINAGE TOWARDS STORMWATER MANAGEMENT FACILITIES.
- THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL FIELD (SURVEY) LAYOUT. THE CONTRACTOR SHALL ALSO RECORD AND PREPARE AS-BUILT DRAWINGS SHOWING ALL NEW AND EXISTING UTILITIES.
- THE CONTRACTOR SHALL MAKE A THOROUGH INVESTIGATION OF SURFACE AND SUBSURFACE CONDITIONS. NO ADDITIONAL PAYMENT OR EXTENSION OF TIME SHALL BE GRANTED BECAUSE OTHER CONDITIONS WERE ENCOUNTERED BY THE CONTRACTOR.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING PUBLIC TRAFFIC IN A SAFE AND EFFICIENT MANNER AT ALL TIMES DURING THE CONSTRUCTION PERIOD. PROVIDE SIGNS, FLAGMEN AND OTHER FACILITIES AS NECESSARY.
- ALL NEW WORK SHALL BE CLEANED AND/OR FLUSHED FOR FINAL COMPLETION OF THE WORK. ALL DAMAGES TO NEW WORK RESULTING FROM CONTRACTOR'S OPERATIONS SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE.
- ALL UNUSABLE EXCESS MATERIALS AND UNSUITABLE SOILS AND DEBRIS SHALL BE REMOVED FROM THE SITE BY THE CONTRACTOR IN A LEGAL MANNER.
- THE CONTRACTOR SHALL CERTIFY COMPLIANCE WITH THE PROJECT STORMWATER POLLUTION PREVENTION PLAN.



VICINITY MAP



LIST OF DRAWINGS:

- | | |
|------|--|
| C100 | COVER SHEET |
| L101 | EXISTING CONDITIONS PLAN: B1 LOT |
| L102 | EXISTING CONDITIONS PLAN: C LOT |
| L103 | EXISTING CONDITIONS PLAN: I LOT |
| L201 | DEMOLITION PLAN: B1 LOT |
| L202 | DEMOLITION PLAN: C LOT |
| L203 | DEMOLITION AND EROSION CONTROL PLAN: I LOT |
| L301 | LAYOUT AND MATERIALS PLAN: B1 LOT |
| L302 | LAYOUT AND MATERIALS PLAN: C LOT |
| L303 | LAYOUT AND MATERIALS PLAN: I LOT |
| L400 | GRADING, DRAINAGE, AND UTILITY PLAN: I LOT |
| L500 | PLANTING PLAN: I LOT |
| L600 | SITE DETAILS |
| L601 | SITE UTILITY DETAILS |

CONSULTANTS:

SARATOGA ASSOCIATES
LANDSCAPE ARCHITECTS, ARCHITECTS,
ENGINEERS AND PLANNERS, P.C.
21 CONGRESS ST, SUITE 201
SARATOGA SPRINGS, NY 12866

M.J. ENGINEERING AND LAND SURVEYING, P.C.
UTILITY AND TOPOGRAPHIC SURVEY
1533 CRESENT ROAD
CLIFTON PARK, NY 12065

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PHASE: 100% CD

COVER SHEET

C100



Hudson Valley Community College

80 Vandenburg Ave
Troy, NY 12180

**RECONSTRUCTION OF
CAMPUS PARKING LOTS**

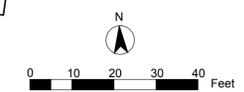
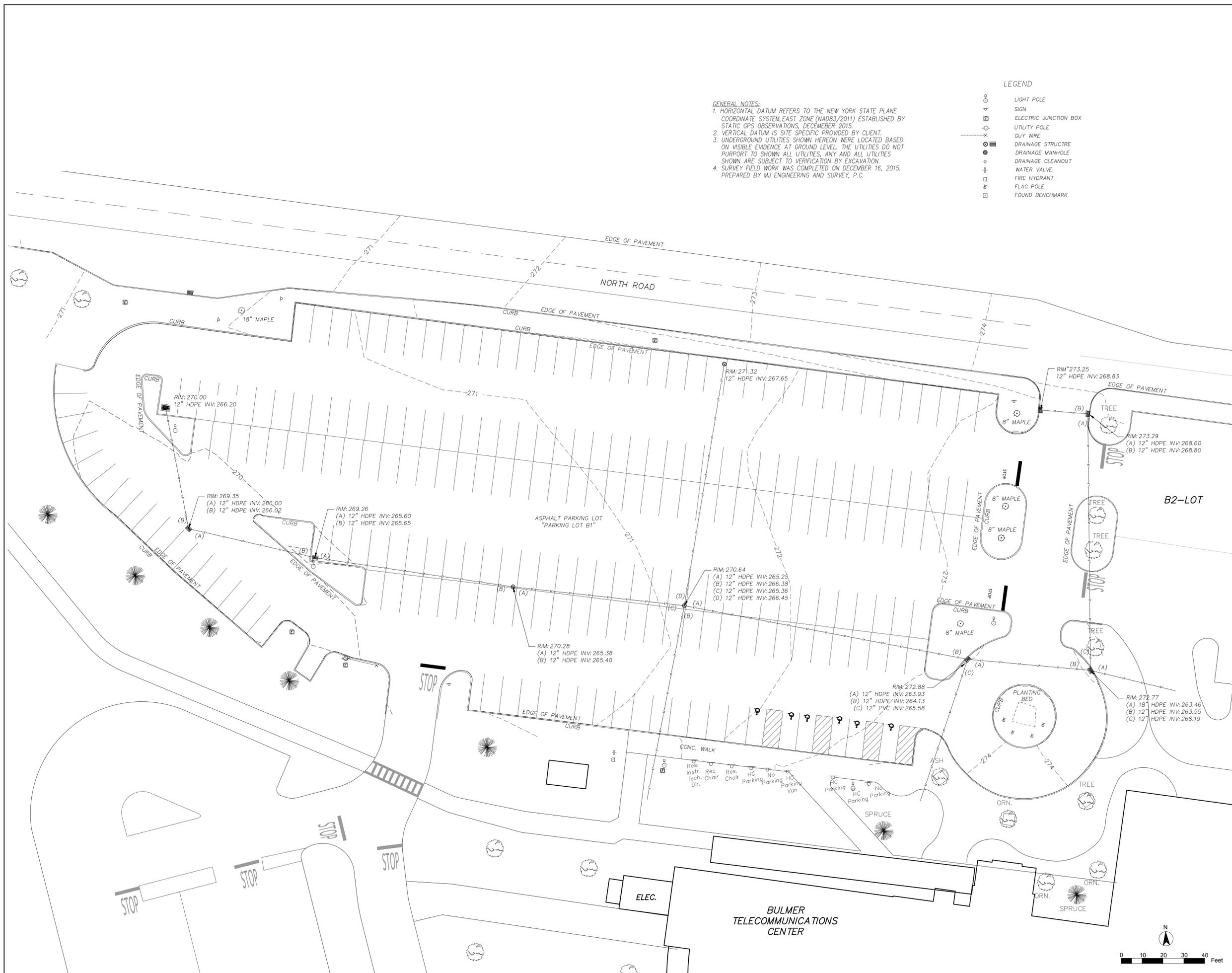
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EXISTING
CONDITIONS
PLAN
B1 LOT

L101





Hudson Valley Community College

80 Vandenburgh Ave
Troy, NY 12180

RECONSTRUCTION OF CAMPUS PARKING LOTS

SARATOGA ASSOCIATES PROJECT # 15-042.10U

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EXISTING CONDITIONS PLAN C LOT

L102



- LEGEND**
- LIGHT POLE
 - SIGN
 - ⊕ ELECTRIC JUNCTION BOX
 - UTILITY POLE
 - GUY WIRE
 - DRAINAGE STRUCTURE
 - DRAINAGE MANHOLE
 - DRAINAGE CLEANOUT
 - WATER VALVE
 - FIRE HYDRANT
 - FLAG POLE
 - FOUND BENCHMARK

- GENERAL NOTES:**
1. HORIZONTAL DATUM REFERS TO THE NEW YORK STATE PLANE COORDINATE SYSTEM, EAST ZONE (NAD83/2011) ESTABLISHED BY STATIC GPS OBSERVATIONS, DECEMBER 2015.
 2. VERTICAL DATUM IS SITE SPECIFIC PROVIDED BY CLIENT.
 3. UNDERGROUND UTILITIES SHOWN HEREON WERE LOCATED BASED ON VISIBLE EVIDENCE AT GROUND LEVEL. THE UTILITIES DO NOT PURPORT TO SHOW ALL UTILITIES. ANY AND ALL UTILITIES SHOWN ARE SUBJECT TO VERIFICATION BY EXCAVATION.
 4. SURVEY FIELD WORK WAS COMPLETED ON DECEMBER 16, 2015. PREPARED BY MJ ENGINEERING AND SURVEY, P.C.

RIM: 289.74
(A) 12" HDPE INV: 285.63
(B) 12" HDPE INV: 285.89

RIM: 289.34
(A) 12" HDPE INV: 285.15
(B) 12" HDPE INV: 285.25

RIM: 289.31
12" HDPE INV: 286.01

RIM: 284.99
(A) 12" HDPE INV: 280.78
(B) 12" HDPE INV: 280.97

RIM: 287.81
12" HDPE INV: 283.26

RIM: 284.46
(A) 18" HDPE INV: 274.26
(B) 12" HDPE INV: 278.96

RIM: 284.46
(A) 12" HDPE INV: 279.51
(B) 12" HDPE INV: 280.54



Hudson Valley Community College

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RECONSTRUCTION OF CAMPUS PARKING LOTS

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EXISTING CONDITIONS PLAN I LOT

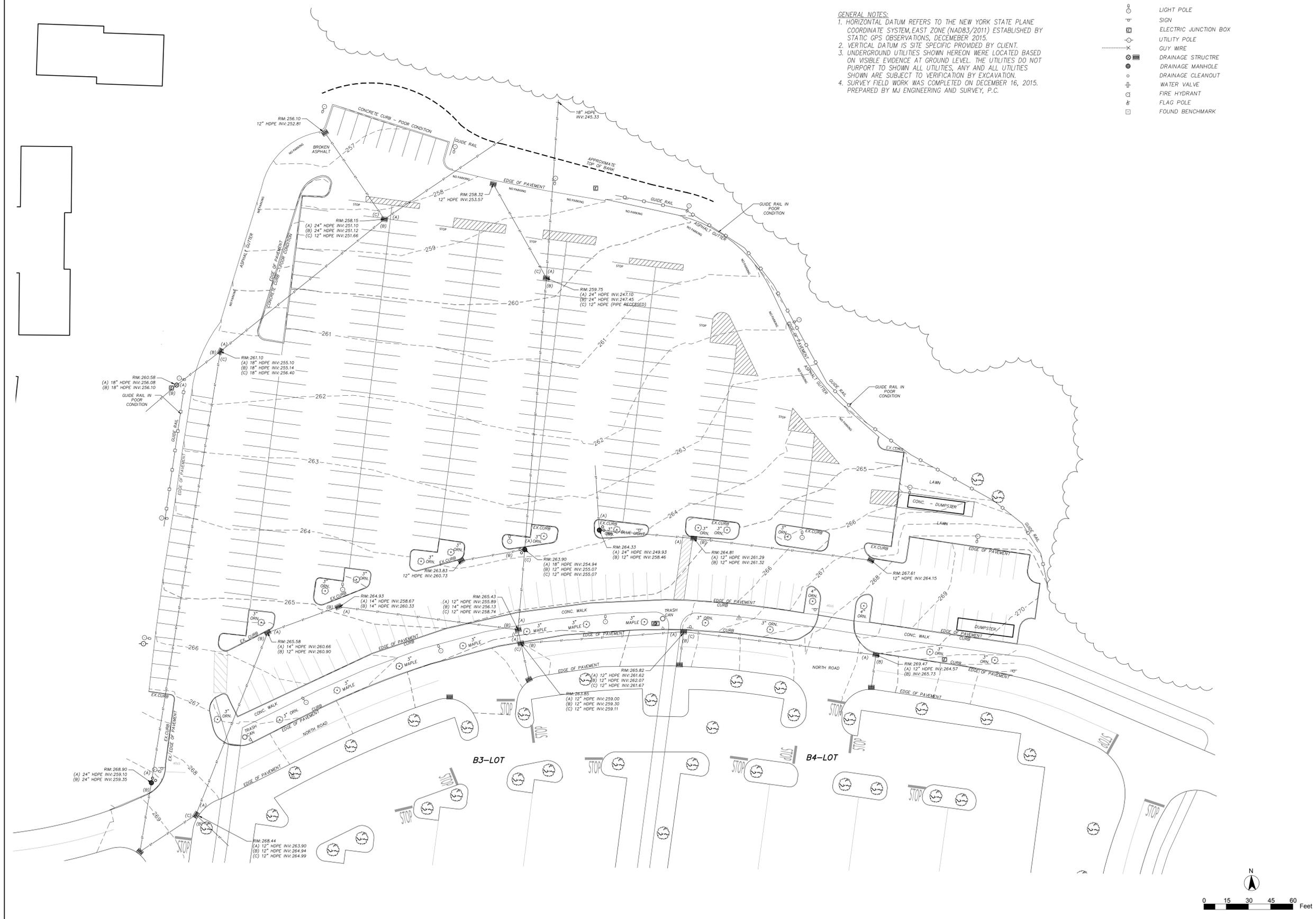
L103

LEGEND

- LIGHT POLE
- SIGN
- ⊕ ELECTRIC JUNCTION BOX
- UTILITY POLE
- GUY WIRE
- ⊖ DRAINAGE STRUCTURE
- DRAINAGE MANHOLE
- DRAINAGE CLEANOUT
- WATER VALVE
- FIRE HYDRANT
- ⊕ FLAG POLE
- ⊕ FOUND BENCHMARK

GENERAL NOTES:

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4. SURVEY FIELD WORK WAS COMPLETED ON DECEMBER 16, 2015. PREPARED BY MJ ENGINEERING AND SURVEY, P.C.





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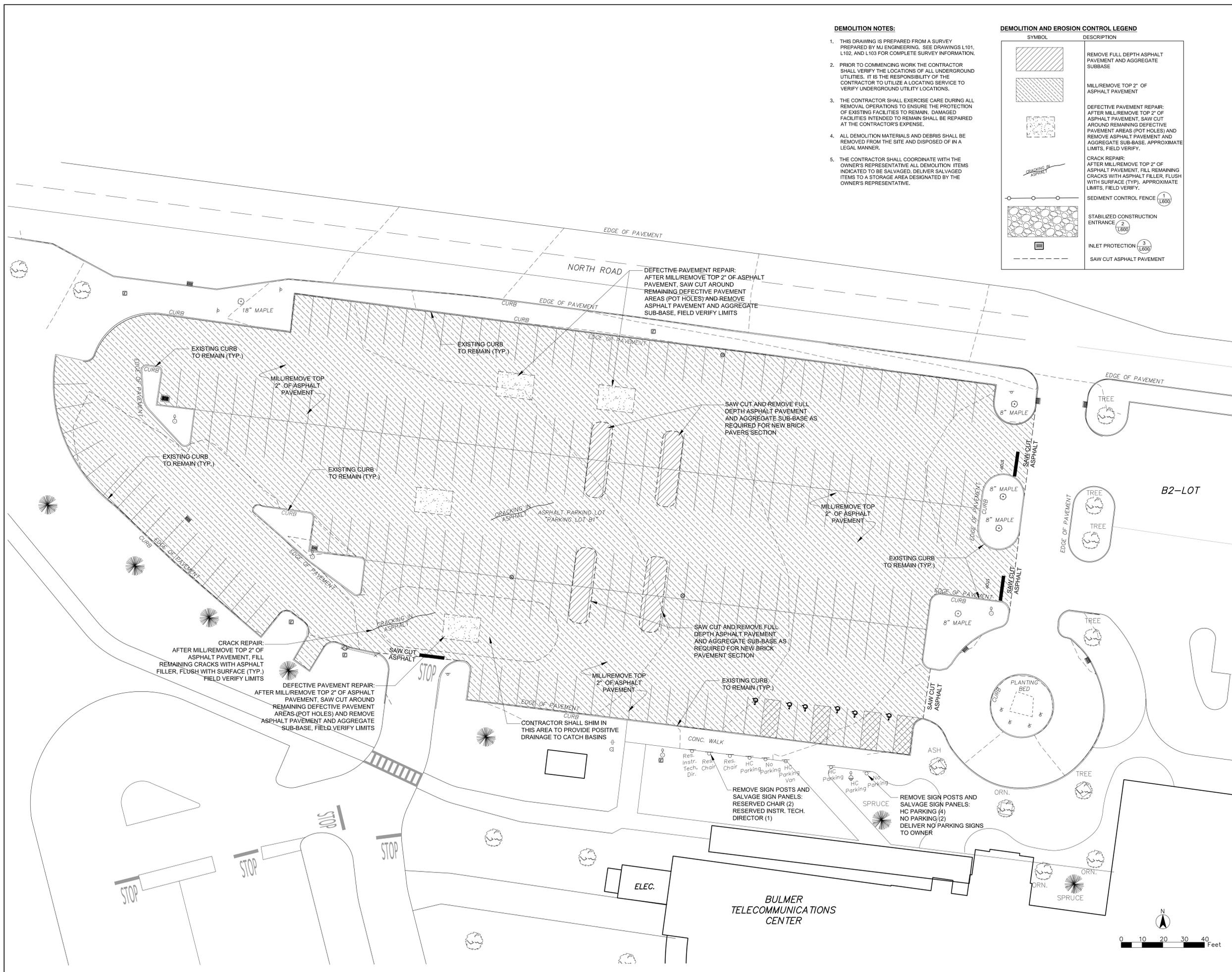
RECONSTRUCTION OF CAMPUS PARKING LOTS

DEMOLITION NOTES:

1. THIS DRAWING IS PREPARED FROM A SURVEY PREPARED BY MJ ENGINEERING. SEE DRAWINGS L101, L102, AND L103 FOR COMPLETE SURVEY INFORMATION.
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4. ALL DEMOLITION MATERIALS AND DEBRIS SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN A LEGAL MANNER.
5. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER'S REPRESENTATIVE ALL DEMOLITION ITEMS INDICATED TO BE SALVAGED. DELIVER SALVAGED ITEMS TO A STORAGE AREA DESIGNATED BY THE OWNER'S REPRESENTATIVE.

DEMOLITION AND EROSION CONTROL LEGEND

SYMBOL	DESCRIPTION
	REMOVE FULL DEPTH ASPHALT PAVEMENT AND AGGREGATE SUBBASE
	MILL/REMOVE TOP 2" OF ASPHALT PAVEMENT
	DEFECTIVE PAVEMENT REPAIR: AFTER MILL/REMOVE TOP 2" OF ASPHALT PAVEMENT, SAW CUT AROUND REMAINING DEFECTIVE PAVEMENT AREAS (POT HOLES) AND REMOVE ASPHALT PAVEMENT AND AGGREGATE SUB-BASE. APPROXIMATE LIMITS, FIELD VERIFY.
	CRACK REPAIR: AFTER MILL/REMOVE TOP 2" OF ASPHALT PAVEMENT, FILL REMAINING CRACKS WITH ASPHALT FILLER, FLUSH WITH SURFACE (TYP.). APPROXIMATE LIMITS, FIELD VERIFY.
	SEDIMENT CONTROL FENCE (1) (L600)
	STABILIZED CONSTRUCTION ENTRANCE (2) (L600)
	INLET PROTECTION (3) (L600)
	SAW CUT ASPHALT PAVEMENT



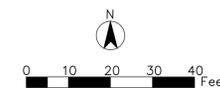
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DEMOLITION PLAN B1 LOT

L201





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RECONSTRUCTION OF CAMPUS PARKING LOTS

SARATOGA ASSOCIATES PROJECT # 15-042.10U

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DEMOLITION PLAN
C LOT

L202

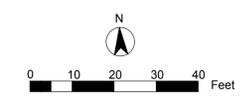


DEMOLITION NOTES:

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- THE CONTRACTOR SHALL COORDINATE WITH THE OWNER'S REPRESENTATIVE ALL DEMOLITION ITEMS INDICATED TO BE SALVAGED. DELIVER SALVAGED ITEMS TO A STORAGE AREA DESIGNATED BY THE OWNER'S REPRESENTATIVE.

DEMOLITION AND EROSION CONTROL LEGEND

SYMBOL	DESCRIPTION
	REMOVE FULL DEPTH ASPHALT PAVEMENT AND AGGREGATE SUBBASE
	MILL/REMOVE TOP 2" OF ASPHALT PAVEMENT
	DEFECTIVE PAVEMENT REPAIR: AFTER MILL/REMOVE TOP 2" OF ASPHALT PAVEMENT, SAW CUT AROUND REMAINING DEFECTIVE PAVEMENT AREAS (POT HOLES) AND REMOVE ASPHALT PAVEMENT AND AGGREGATE SUB-BASE, APPROXIMATE LIMITS, FIELD VERIFY.
	CRACK REPAIR: AFTER MILL/REMOVE TOP 2" OF ASPHALT PAVEMENT, FILL REMAINING CRACKS WITH ASPHALT FILLER, FLUSH WITH SURFACE (TYP.), APPROXIMATE LIMITS, FIELD VERIFY.
	SEDIMENT CONTROL FENCE (1) (L600)
	STABILIZED CONSTRUCTION ENTRANCE (2) (L600)
	INLET PROTECTION (3) (L600)
	SAW CUT ASPHALT PAVEMENT





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RECONSTRUCTION OF CAMPUS PARKING LOTS

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DEMOLITION AND EROSION CONTROL PLAN
I LOT

L203

DEMOLITION NOTES:

- THIS DRAWING IS PREPARED FROM A SURVEY PREPARED BY NJ ENGINEERS. SEE DRAWINGS L101, L102, AND L103 FOR COMPLETE SURVEY INFORMATION.
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DEMOLITION AND EROSION CONTROL LEGEND

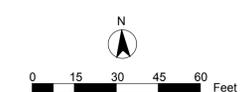
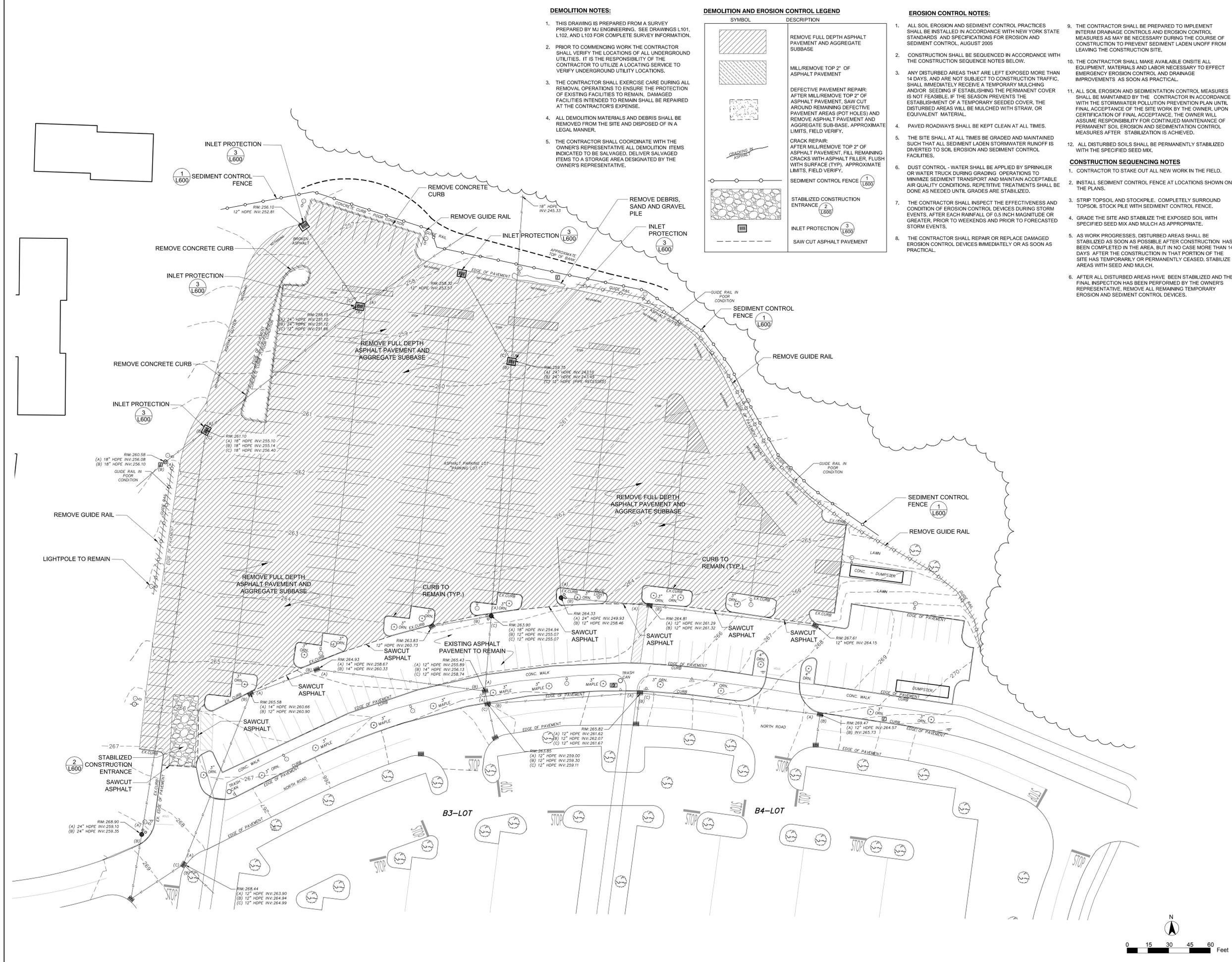
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	SEDIMENT CONTROL FENCE (1) L600
	STABILIZED CONSTRUCTION ENTRANCE (2) L600
	INLET PROTECTION (3) L600
	SAW CUT ASPHALT PAVEMENT

EROSION CONTROL NOTES:

- ALL SOIL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE INSTALLED IN ACCORDANCE WITH NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL, AUGUST 2005
- CONSTRUCTION SHALL BE SEQUENCED IN ACCORDANCE WITH THE CONSTRUCTION SEQUENCE NOTES BELOW.
- ANY DISTURBED AREAS THAT ARE LEFT EXPOSED MORE THAN 14 DAYS, AND ARE NOT SUBJECT TO CONSTRUCTION TRAFFIC, SHALL IMMEDIATELY RECEIVE A TEMPORARY MULCHING AND/OR SEEDING IF ESTABLISHING THE PERMANENT COVER IS NOT FEASIBLE. IF THE SEASON PREVENTS THE ESTABLISHMENT OF A TEMPORARY SEED COVER, THE DISTURBED AREAS WILL BE MULCHED WITH STRAW, OR EQUIVALENT MATERIAL.
- PAVED ROADWAYS SHALL BE KEPT CLEAN AT ALL TIMES.
- THE SITE SHALL AT ALL TIMES BE GRADED AND MAINTAINED SUCH THAT ALL SEDIMENT LADEN STORMWATER RUNOFF IS DIVERTED TO SOIL EROSION AND SEDIMENT CONTROL FACILITIES.
- DUST CONTROL - WATER SHALL BE APPLIED BY SPRINKLER OR WATER TRUCK DURING GRADING OPERATIONS TO MINIMIZE SEDIMENT TRANSPORT AND MAINTAIN ACCEPTABLE AIR QUALITY CONDITIONS. REPETITIVE TREATMENTS SHALL BE DONE AS NEEDED UNTIL GRADES ARE STABILIZED.
- THE CONTRACTOR SHALL INSPECT THE EFFECTIVENESS AND CONDITION OF EROSION CONTROL DEVICES DURING STORM EVENTS. AFTER EACH RAINFALL OF 0.5 INCH MAGNITUDE OR GREATER, PRIOR TO WEEKENDS AND PRIOR TO FORECASTED STORM EVENTS.
- THE CONTRACTOR SHALL REPAIR OR REPLACE DAMAGED EROSION CONTROL DEVICES IMMEDIATELY OR AS SOON AS PRACTICAL.
- THE CONTRACTOR SHALL BE PREPARED TO IMPLEMENT INTERIM DRAINAGE CONTROLS AND EROSION CONTROL MEASURES AS MAY BE NECESSARY DURING THE COURSE OF CONSTRUCTION TO PREVENT SEDIMENT LADEN UNOFF FROM LEAVING THE CONSTRUCTION SITE.
- THE CONTRACTOR SHALL MAKE AVAILABLE ONSITE ALL EQUIPMENT, MATERIALS AND LABOR NECESSARY TO EFFECT EMERGENCY EROSION CONTROL AND DRAINAGE IMPROVEMENTS AS SOON AS PRACTICAL.
- ALL SOIL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE MAINTAINED BY THE CONTRACTOR IN ACCORDANCE WITH THE STORMWATER POLLUTION PREVENTION PLAN UNTIL FINAL ACCEPTANCE OF THE SITE WORK BY THE OWNER. UPON CERTIFICATION OF FINAL ACCEPTANCE, THE OWNER WILL ASSUME RESPONSIBILITY FOR CONTINUED MAINTENANCE OF PERMANENT SOIL EROSION AND SEDIMENTATION CONTROL MEASURES AFTER STABILIZATION IS ACHIEVED.
- ALL DISTURBED SOILS SHALL BE PERMANENTLY STABILIZED WITH THE SPECIFIED SEED MIX.

CONSTRUCTION SEQUENCING NOTES

- CONTRACTOR TO STAKE OUT ALL NEW WORK IN THE FIELD.
- INSTALL SEDIMENT CONTROL FENCE AT LOCATIONS SHOWN ON THE PLANS.
- STRIP TOPSOIL AND STOCKPILE. COMPLETELY SURROUND TOPSOIL STOCK PILE WITH SEDIMENT CONTROL FENCE.
- GRADE THE SITE AND STABILIZE THE EXPOSED SOIL WITH SPECIFIED SEED MIX AND MULCH AS APPROPRIATE.
- AS WORK PROGRESSES, DISTURBED AREAS SHALL BE STABILIZED AS SOON AS POSSIBLE AFTER CONSTRUCTION HAS BEEN COMPLETED IN THE AREA, BUT IN NO CASE MORE THAN 14 DAYS AFTER THE CONSTRUCTION IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED. STABILIZE AREAS WITH SEED AND MULCH.
- AFTER ALL DISTURBED AREAS HAVE BEEN STABILIZED AND THE FINAL INSPECTION HAS BEEN PERFORMED BY THE OWNER'S REPRESENTATIVE, REMOVE ALL REMAINING TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES.





Hudson Valley Community College

80 Vandenberg Ave
Troy, NY 12180

RECONSTRUCTION OF CAMPUS PARKING LOTS

PARKING COUNT:
202 REGULAR SPACES
4 ADA SPACES
206 TOTAL SPACES

224 EXISTING

SARATOGA ASSOCIATES PROJECT # 15-042.10U

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PHASE: 100% CD

LAYOUT AND MATERIALS
PLAN
B1 LOT

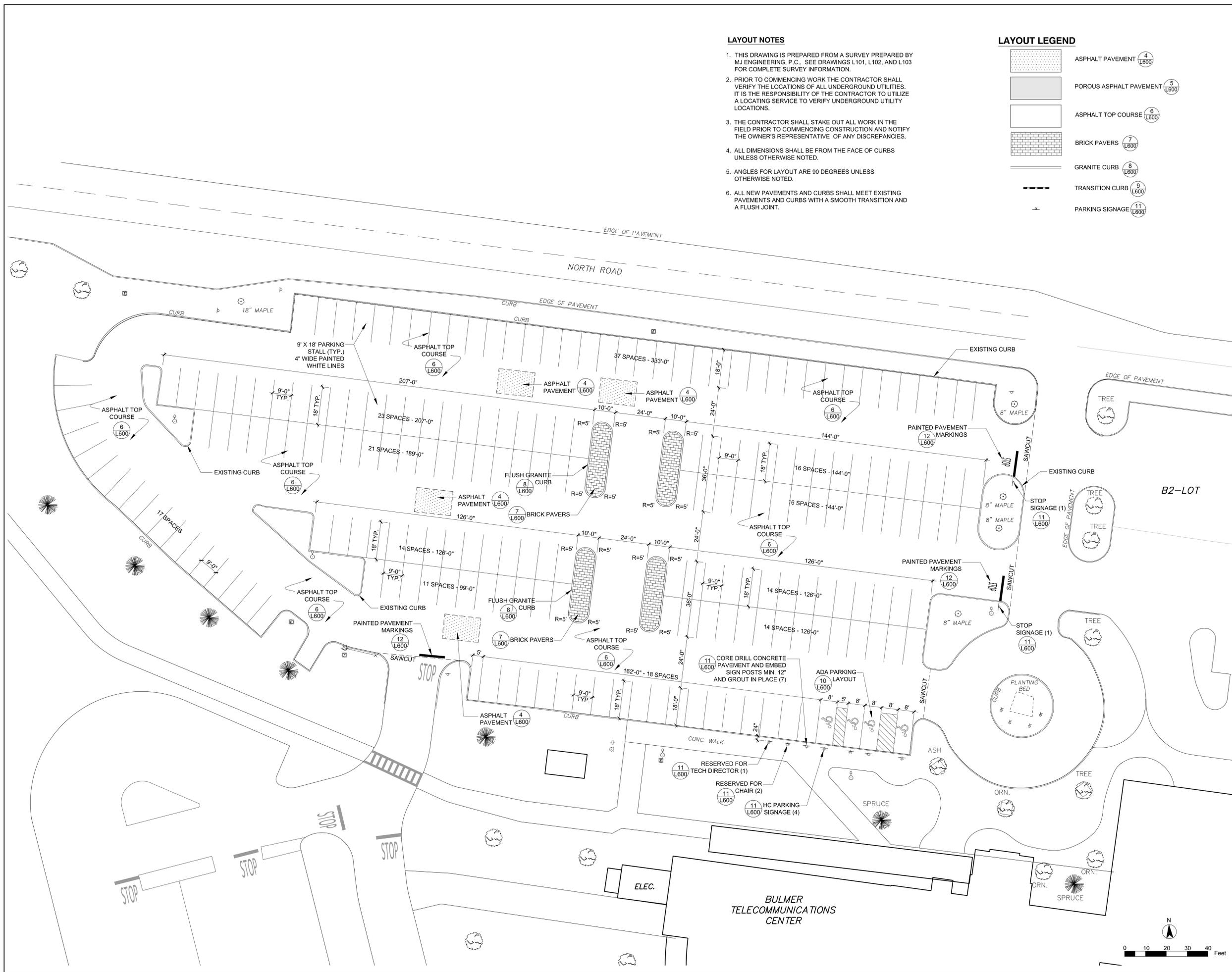
L301

LAYOUT NOTES

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3. THE CONTRACTOR SHALL STAKE OUT ALL WORK IN THE FIELD PRIOR TO COMMENCING CONSTRUCTION AND NOTIFY THE OWNER'S REPRESENTATIVE OF ANY DISCREPANCIES.
4. ALL DIMENSIONS SHALL BE FROM THE FACE OF CURBS UNLESS OTHERWISE NOTED.
5. ANGLES FOR LAYOUT ARE 90 DEGREES UNLESS OTHERWISE NOTED.
6. ALL NEW PAVEMENTS AND CURBS SHALL MEET EXISTING PAVEMENTS AND CURBS WITH A SMOOTH TRANSITION AND A FLUSH JOINT.

LAYOUT LEGEND

- ASPHALT PAVEMENT (4 L600)
- POROUS ASPHALT PAVEMENT (5 L600)
- ASPHALT TOP COURSE (6 L600)
- BRICK PAVERS (7 L600)
- GRANITE CURB (8 L600)
- TRANSITION CURB (9 L600)
- PARKING SIGNAGE (11 L600)





Hudson Valley Community College

80 Vandenberg Ave
Troy, NY 12180

RECONSTRUCTION OF CAMPUS PARKING LOTS

SARATOGA ASSOCIATES PROJECT # 15-042.10U

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LAYOUT AND MATERIALS
PLAN
C LOT

L302

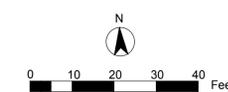


LAYOUT NOTES

1. THIS DRAWING IS PREPARED FROM A SURVEY PREPARED BY MJ ENGINEERING, P.C. SEE DRAWINGS L101, L102, AND L103 FOR COMPLETE SURVEY INFORMATION.
2. PRIOR TO COMMENCING WORK THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL UNDERGROUND UTILITIES. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO UTILIZE A LOCATING SERVICE TO VERIFY UNDERGROUND UTILITY LOCATIONS.
3. THE CONTRACTOR SHALL STAKE OUT ALL WORK IN THE FIELD PRIOR TO COMMENCING CONSTRUCTION AND NOTIFY THE OWNER'S REPRESENTATIVE OF ANY DISCREPANCIES.
4. ALL DIMENSIONS SHALL BE FROM THE FACE OF CURBS UNLESS OTHERWISE NOTED.
5. ANGLES FOR LAYOUT ARE 90 DEGREES UNLESS OTHERWISE NOTED.
6. ALL NEW PAVEMENTS AND CURBS SHALL MEET EXISTING PAVEMENTS AND CURBS WITH A SMOOTH TRANSITION AND A FLUSH JOINT.

LAYOUT LEGEND

	ASPHALT PAVEMENT (4)
	POROUS ASPHALT PAVEMENT (5)
	ASPHALT TOP COURSE (6)
	BRICK PAVERS (7)
	GRANITE CURB (8)
	TRANSITION CURB (9)
	PARKING SIGNAGE (11)





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LAYOUT AND MATERIALS PLAN I LOT

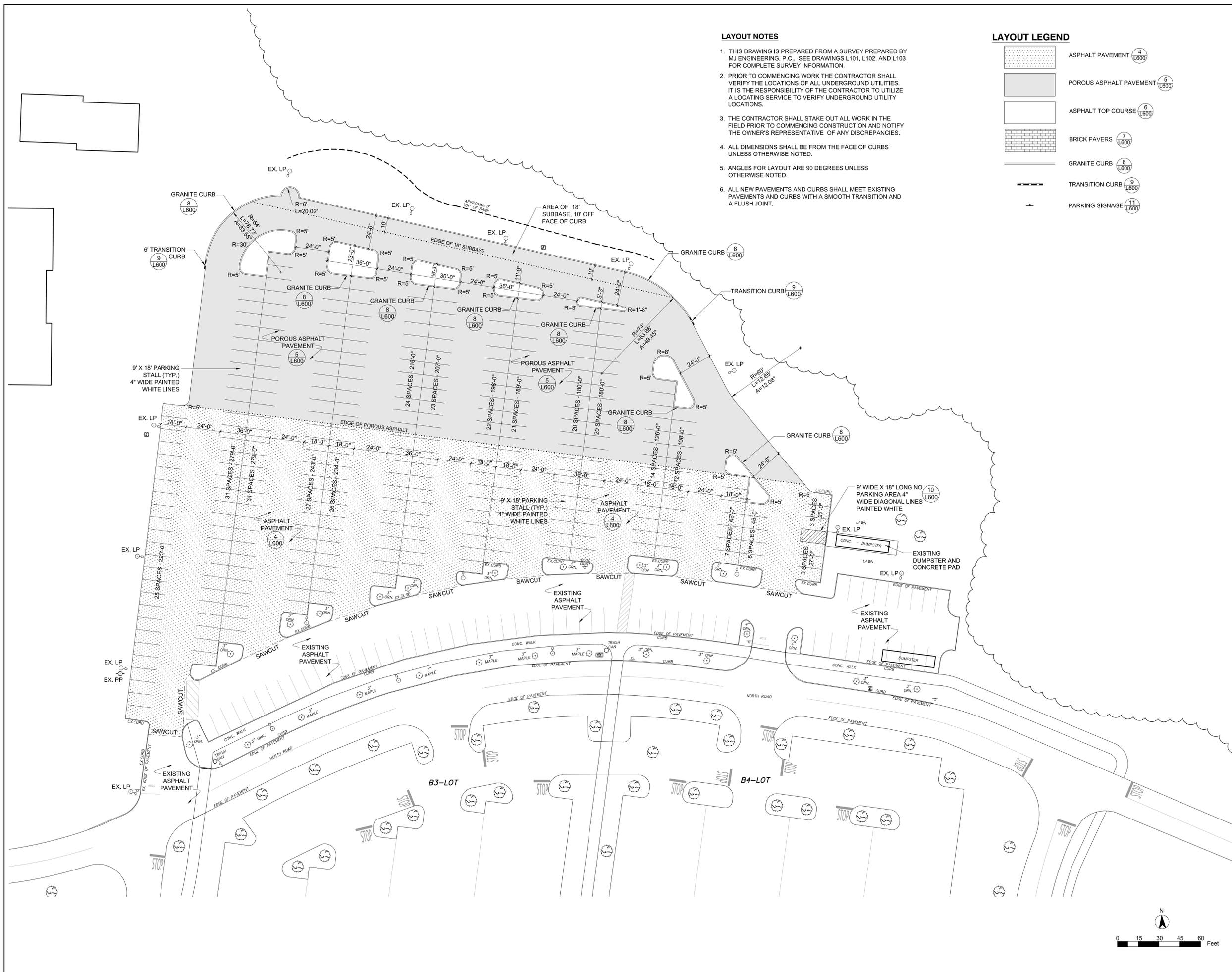
L303

LAYOUT NOTES

1. THIS DRAWING IS PREPARED FROM A SURVEY PREPARED BY MJ ENGINEERING, P.C. SEE DRAWINGS L101, L102, AND L103 FOR COMPLETE SURVEY INFORMATION.
2. PRIOR TO COMMENCING WORK THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL UNDERGROUND UTILITIES. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO UTILIZE A LOCATING SERVICE TO VERIFY UNDERGROUND UTILITY LOCATIONS.
3. THE CONTRACTOR SHALL STAKE OUT ALL WORK IN THE FIELD PRIOR TO COMMENCING CONSTRUCTION AND NOTIFY THE OWNER'S REPRESENTATIVE OF ANY DISCREPANCIES.
4. ALL DIMENSIONS SHALL BE FROM THE FACE OF CURBS UNLESS OTHERWISE NOTED.
5. ANGLES FOR LAYOUT ARE 90 DEGREES UNLESS OTHERWISE NOTED.
6. ALL NEW PAVEMENTS AND CURBS SHALL MEET EXISTING PAVEMENTS AND CURBS WITH A SMOOTH TRANSITION AND A FLUSH JOINT.

LAYOUT LEGEND

- ASPHALT PAVEMENT (4) L600
- POROUS ASPHALT PAVEMENT (5) L600
- ASPHALT TOP COURSE (6) L600
- BRICK PAVERS (7) L600
- GRANITE CURB (8) L600
- TRANSITION CURB (9) L600
- PARKING SIGNAGE (11) L600





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GRADING,
DRAINAGE, AND
UTILITY PLAN
I LOT

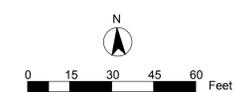
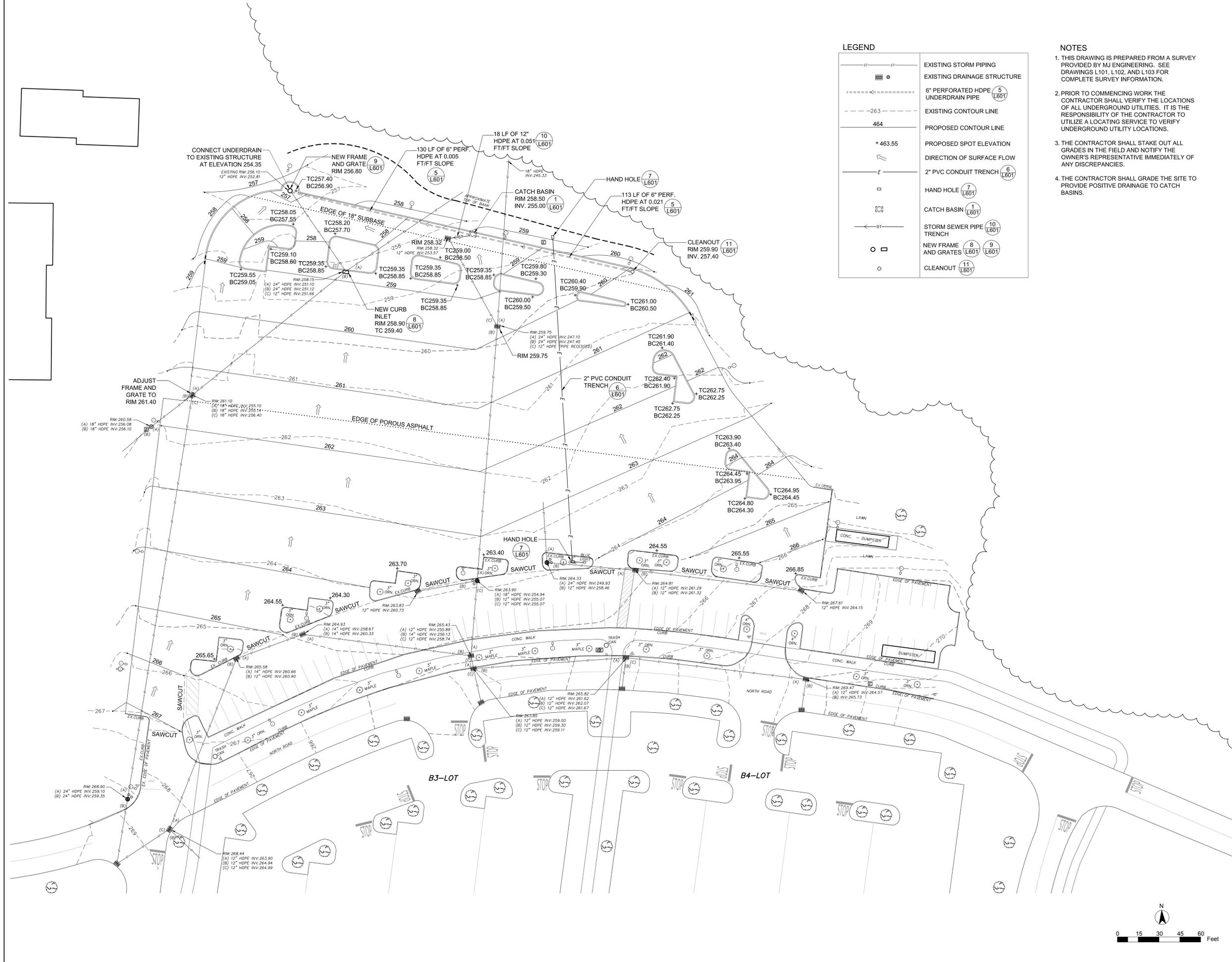
L400

LEGEND

	EXISTING STORM PIPING
	EXISTING DRAINAGE STRUCTURE
	6" PERFORATED HDPE UNDERDRAIN PIPE (5)
	EXISTING CONTOUR LINE
	PROPOSED CONTOUR LINE
	PROPOSED SPOT ELEVATION
	DIRECTION OF SURFACE FLOW
	2" PVC CONDUIT TRENCH (6)
	HAND HOLE (7)
	CATCH BASIN (1)
	STORM SEWER PIPE TRENCH (10)
	NEW FRAME AND GRATES (8) (9)
	CLEANOUT (11)

NOTES

1. THIS DRAWING IS PREPARED FROM A SURVEY PROVIDED BY MJ ENGINEERING. SEE DRAWINGS L101, L102, AND L103 FOR COMPLETE SURVEY INFORMATION.
2. PRIOR TO COMMENCING WORK THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL UNDERGROUND UTILITIES. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO UTILIZE A LOCATING SERVICE TO VERIFY UNDERGROUND UTILITY LOCATIONS.
3. THE CONTRACTOR SHALL STAKE OUT ALL GRADES IN THE FIELD AND NOTIFY THE OWNER'S REPRESENTATIVE IMMEDIATELY OF ANY DISCREPANCIES.
4. THE CONTRACTOR SHALL GRADE THE SITE TO PROVIDE POSITIVE DRAINAGE TO CATCH BASINS.





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PLANTING PLAN I LOT

L500

LEGEND

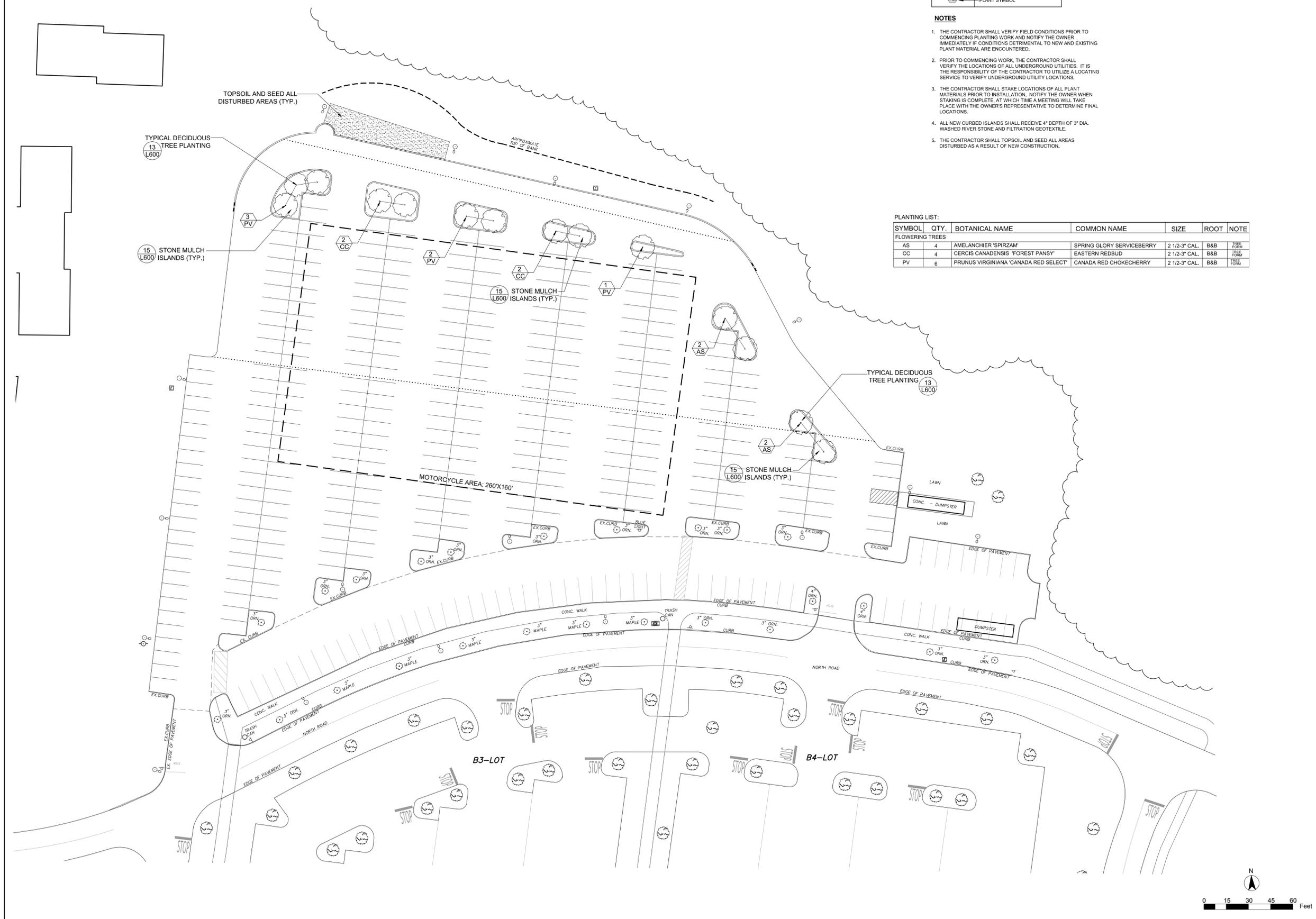
SYMBOL	DESCRIPTION
	TYPICAL DECIDUOUS TREE PLANTING
	PLANT QTY.
	PLANT SYMBOL

NOTES

1. THE CONTRACTOR SHALL VERIFY FIELD CONDITIONS PRIOR TO COMMENCING PLANTING WORK AND NOTIFY THE OWNER IMMEDIATELY IF CONDITIONS DETRIMENTAL TO NEW AND EXISTING PLANT MATERIAL ARE ENCOUNTERED.
2. PRIOR TO COMMENCING WORK, THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL UNDERGROUND UTILITIES. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO UTILIZE A LOCATING SERVICE TO VERIFY UNDERGROUND UTILITY LOCATIONS.
3. THE CONTRACTOR SHALL STAKE LOCATIONS OF ALL PLANT MATERIALS PRIOR TO INSTALLATION. NOTIFY THE OWNER WHEN STAKING IS COMPLETE. AT WHICH TIME A MEETING WILL TAKE PLACE WITH THE OWNER'S REPRESENTATIVE TO DETERMINE FINAL LOCATIONS.
4. ALL NEW CURBED ISLANDS SHALL RECEIVE 4" DEPTH OF 3" DIA. WASHED RIVER STONE AND FILTRATION GEOTEXTILE.
5. THE CONTRACTOR SHALL TOPSOIL AND SEED ALL AREAS DISTURBED AS A RESULT OF NEW CONSTRUCTION.

PLANTING LIST:

SYMBOL	QTY.	BOTANICAL NAME	COMMON NAME	SIZE	ROOT	NOTE
FLOWERING TREES						
AS	4	AMELANCHIER 'SPRIZAM'	SPRING GLORY SERVICEBERRY	2 1/2-3" CAL.	B&B	7/5/16
CC	4	CERCIS CANADENSIS 'FOREST PANSY'	EASTERN REDBUD	2 1/2-3" CAL.	B&B	7/5/16
PV	6	PRUNUS VIRGINIANA 'CANADA RED SELECT'	CANADA RED CHOKECHERRY	2 1/2-3" CAL.	B&B	7/5/16





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RECONSTRUCTION OF CAMPUS PARKING LOTS

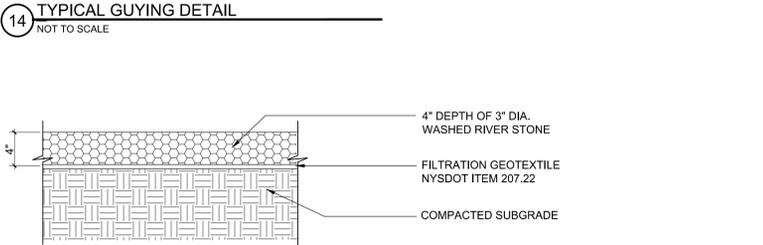
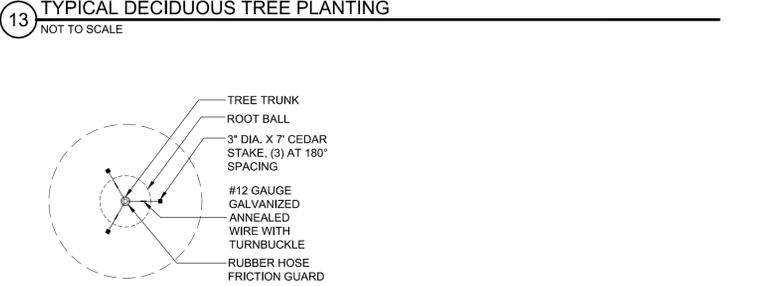
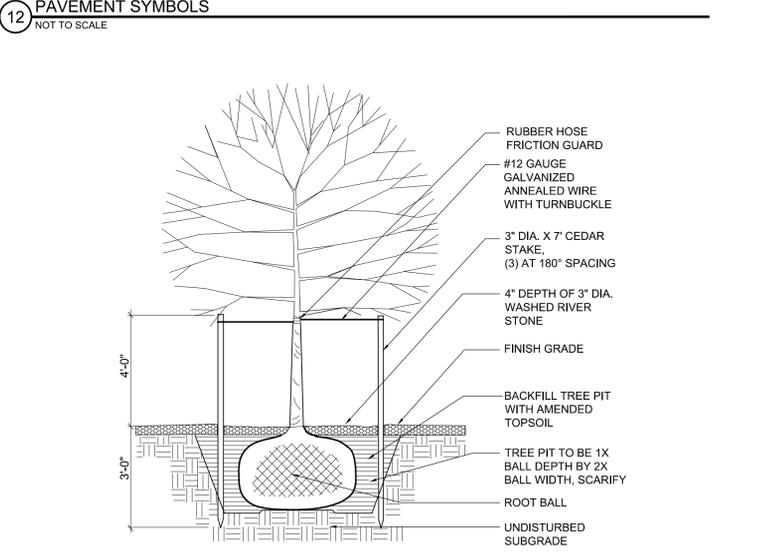
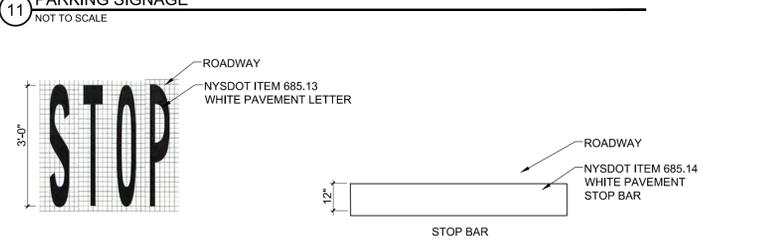
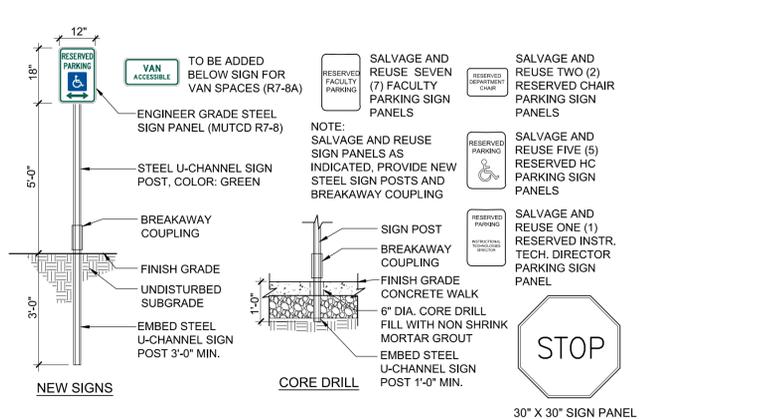
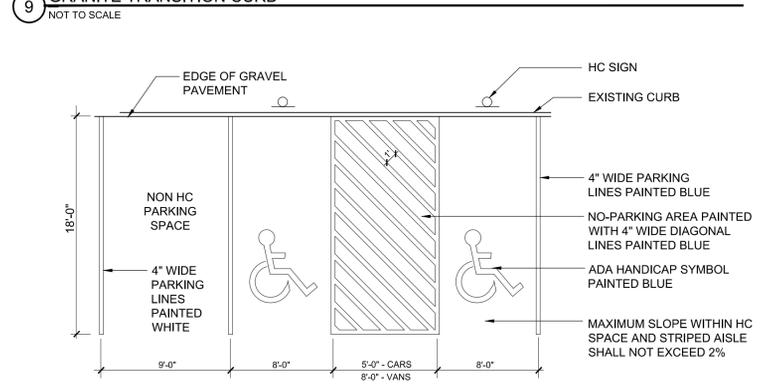
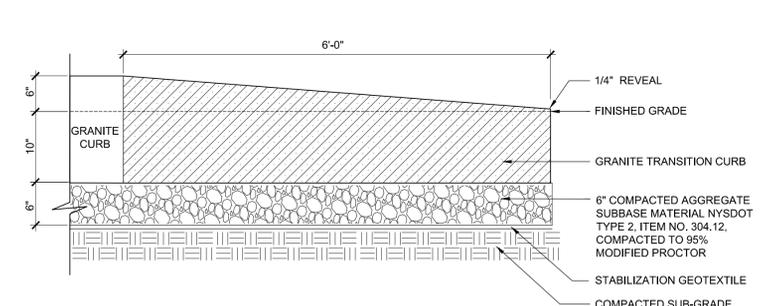
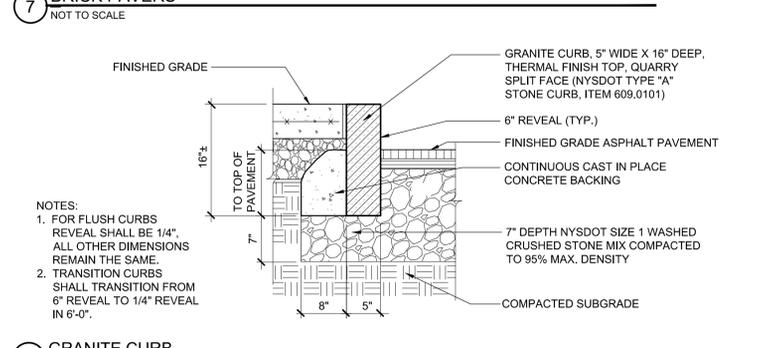
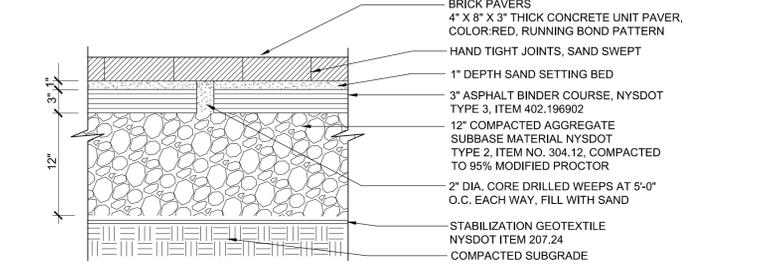
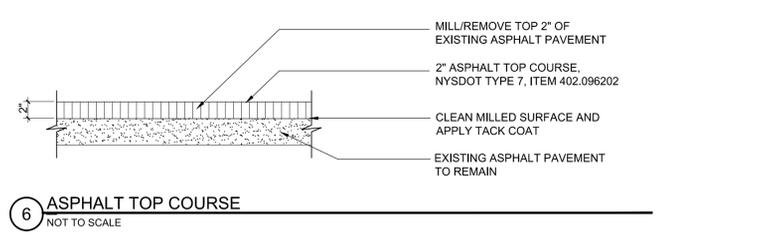
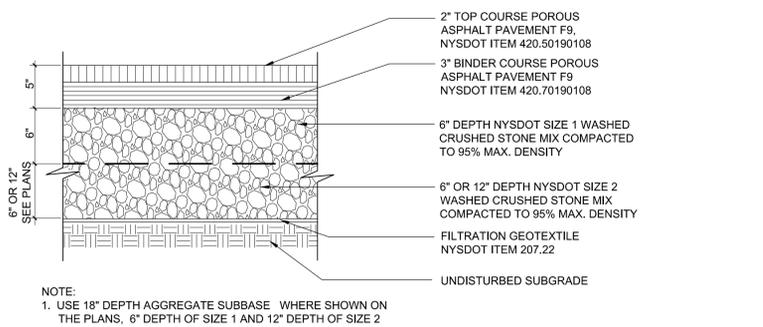
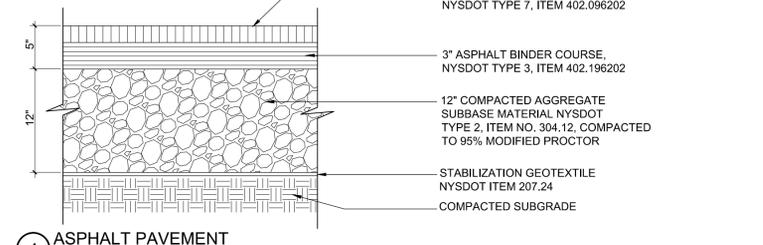
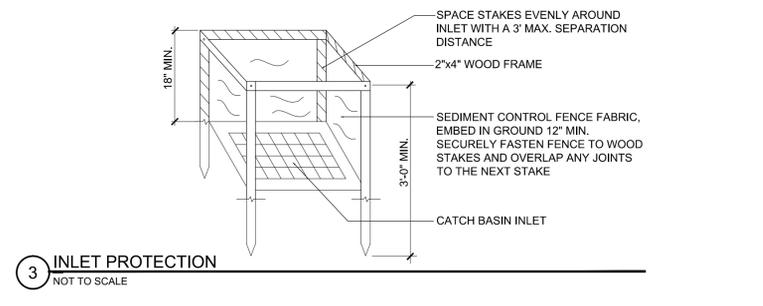
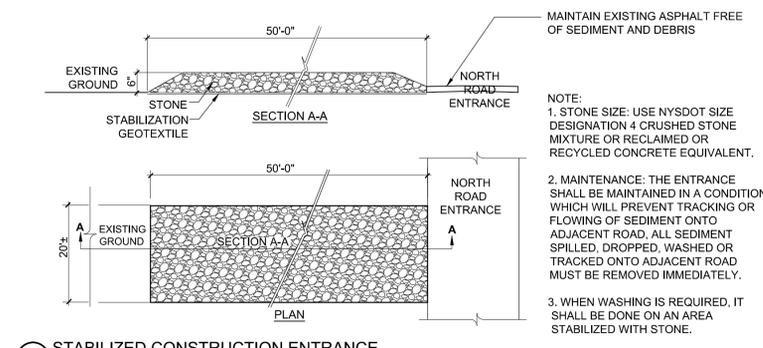
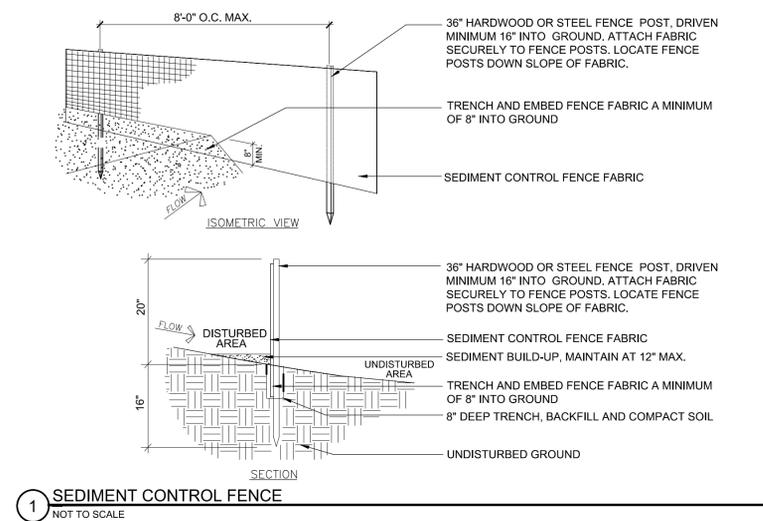
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SITE DETAILS

L600





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RECONSTRUCTION OF CAMPUS PARKING LOTS

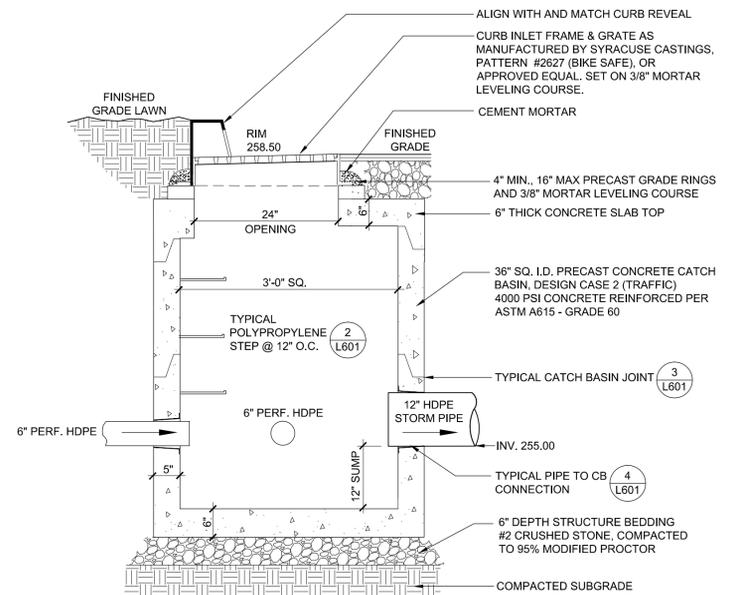
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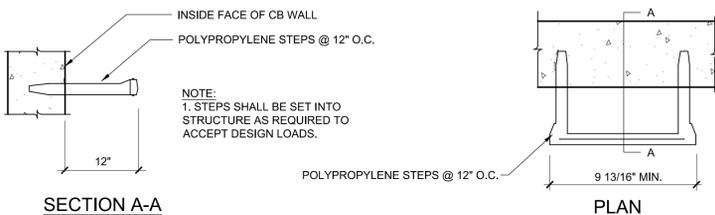
DATE: 03.11.2016
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SITE UTILITY DETAILS

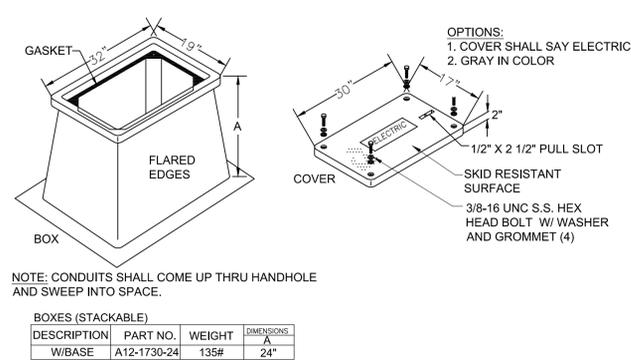
L601



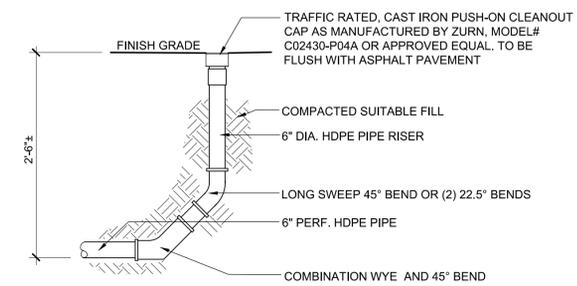
1 CATCH BASIN
NOT TO SCALE



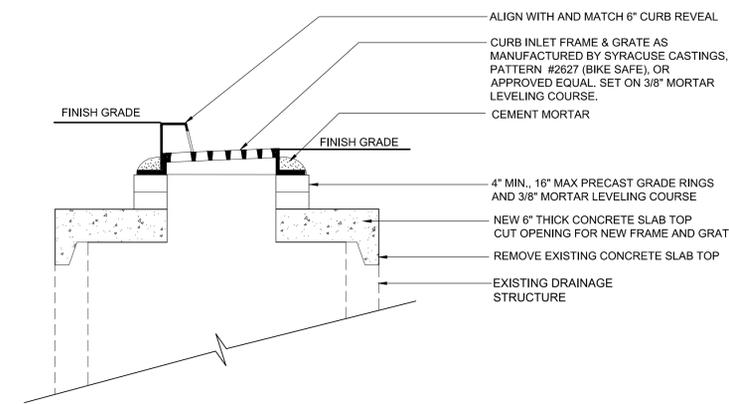
2 TYPICAL POLYPROPYLENE STEPS
NOT TO SCALE



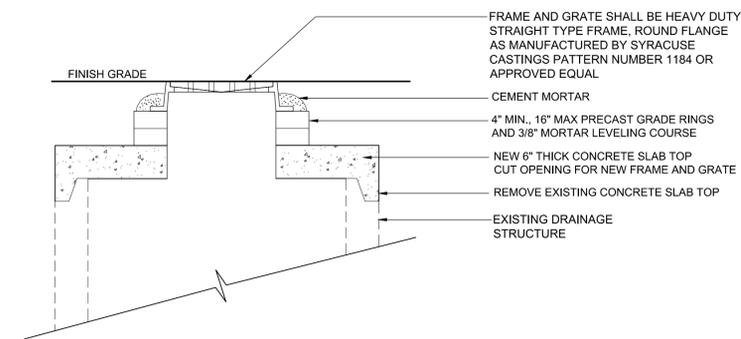
7 HAND HOLE
NOT TO SCALE



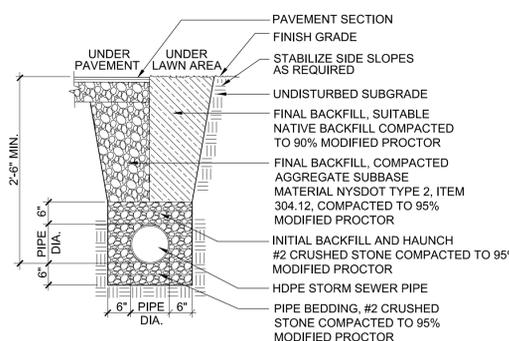
11 CLEAN OUT
NOT TO SCALE



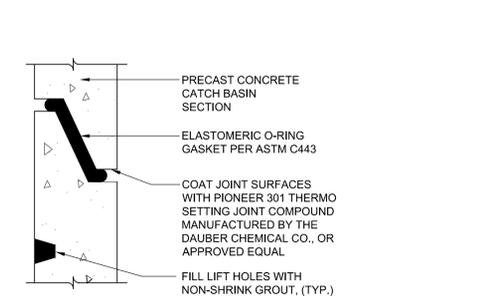
8 NEW CURB INLET
NOT TO SCALE



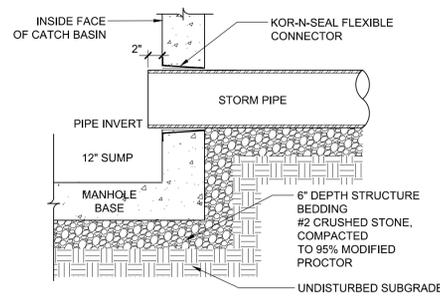
9 NEW FRAME AND GRATE
NOT TO SCALE



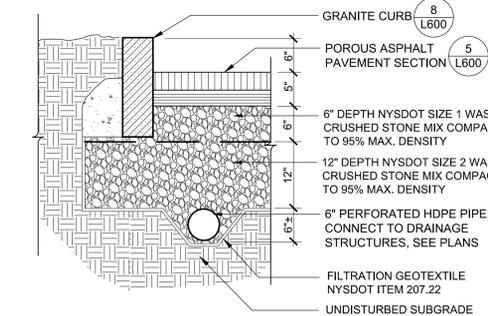
10 STORM SEWER PIPE TRENCH
NOT TO SCALE



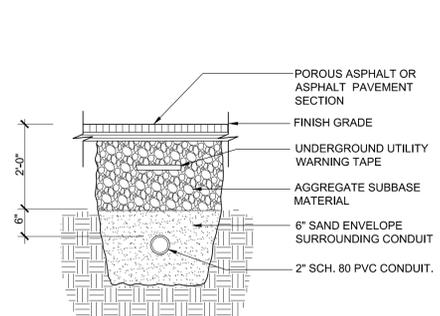
3 TYPICAL CATCH BASIN JOINT
NOT TO SCALE



4 TYPICAL PIPE TO CATCH BASIN CONNECTION
NOT TO SCALE



5 6" PERF. HDPE UNDERDRAIN
NOT TO SCALE



6 2" PVC CONDUIT TRENCH
NOT TO SCALE