535 Jerome Road
Yorktown Heights, NY

STORMWATER POLLUTION PREVENTION PLAN

PREPARED BY:

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1.0 Objective

P.W. Scott Engineering & Architecture, P.C. (PWSE&A, PC) prepared this Stormwater Pollution Prevention Plan (SWPPP) in accordance with the following applicable rules, regulations, and guidance documents:

- New York State Stormwater Management Design Manual, latest version produced by NYSDEC;
- New York State Standards and Specifications for Erosion and Sediment Control, latest version produced by NYSDEC;
- City of New York, Rules and Regulations for the Protection from Contamination, Degradation and Pollution of the New York City Water Supply and its Sources; 2019
- Town of Yorktown, Storm water Management and Erosion and Sediment Control, **Section 156-82.**

The objectives of this SWPPP are to:

1. Outline Owner and Contractor responsibilities to maintain compliance with SPDES GP-0-20-001, including required inspections, maintenance, forms, and certifications.
2. Outline measures to install, inspect, and maintain erosion and sediment control measures for the proposed project. The objective of these measures is to eliminate or significantly minimize pollutant discharges to the adjacent surface water bodies during construction activities.
3. Post construction water quality practices required for disturbance of over 1.0 acres for residential development.

2.0 Owner's Responsibilities

Tom Miressi, the "Owner," is responsible to ensure that the Contractor installs and maintains the erosion and sediment control measures in accordance with this SWPPP. The Owner is also responsible to ensure that the appropriate forms and certifications contained herein are completed prior to and throughout the duration of demolition and construction activities. The Owner shall keep a copy of this document, associated attachments, and any inspection reports generated on-site for the duration of the project and for a minimum of 5 years from the date that the site achieves final stabilization. The Owner should 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 appropriate NYSDEC office. The Owner should maintain a copy of the SPDES GP 0-20-002, Notice of Intent (NOI), NOI acknowledgement letter, SWPPP, MS4 SWPPP Acceptance Form and inspection reports at the construction site until all disturbed areas have achieved final stabilization and the Notice of Termination (NOT) has been submitted to NYSDEC. The documents must be maintained in a secure location, such as a job trailer, on site construction office, or mailbox with lock that is accessible during normal working hours to an individual performing a compliance inspection. The owner can retain the services of Qualified Stormwater Management Firm for supervision and compliance.

Refer to Appendix A for certification.

3.0 Contractor's Responsibilities

The Contractor is responsible for reading this entire SWPPP and related project specifications and reviewing all forms, certifications, and contract drawings to become familiar with all aspects related to the SPDES GP 0-20-001. The Contractor shall retain a signed copy of this SWPPP and all associated attachments onsite from the initiation of the dredging and proposed fill activities to the date of final stabilization. The Contractor is responsible for completing the certification contained herein prior to the commencement of demolition and proposed construction activities. The certification shall be signed by a president or any person who performs similar decision making functions and by the on-site individual having responsibility for the firm. Each of the subcontractors involved in the implementation of erosion and sediment control measures must also complete a certification. The Contractor is responsible for each of the subcontractors

employed by the Contractor that are involved in the implementation of erosion and sediment controls.

It is the duty of the Contractor to properly install and maintain all erosion and sediment control measures on the site as per this SWPPP. The Contractor shall also be responsible for the inspection of all erosion and sediment control measures for the proposed project site by a qualified inspector as per this SWPPP. Should the Owner, an owner's representative, or any local authority having jurisdiction deem that the SWPPP or the Contractor's implementation of the SWPPP proves to be ineffective in eliminating or significantly minimizing the pollutants or achieving the goals of the SPDES GP 0-20-001, the Contractor shall take any necessary action to conform to the objectives of the permit at no additional cost to the Owner.

The Contractor shall inspect and report the disturbed and stabilized areas for the duration of the project as indicated on the Record of Stabilization and Demolition and Construction Activities form contained herein. It is the duty of the Contractor to properly inspect and maintain all erosion and sediment control measures installed on the site as per this SWPPP. Any revision to the SWPPP in design, demolition and construction activities, inspection, or maintenance shall be reflected by the Contractor in the on-site copy of the SWPPP in a timely manner. At the beginning of this work, the Contractor must designate a qualified inspector. The Contractor shall coordinate with the Engineer of Record to ensure that all of the inspection requirements are in conformance with this SWPPP and the requirements of the SPDES GP 0-20-001. On a **bi-weekly basis**, copies of all inspection forms and maintenance records shall be organized and filed accordingly by the Contractor.

Refer to Appendix A for certifications.

3.1 NOI Compliance Requirements

The owner/operator shall coordinate NOI compliance requirements including inspections by a qualified Stormwater Inspector (CPESC) or licensed Professional Engineer or Architect twice per week and before & after any significant storm event over a 2-year – 24 hour storm event. Refer to Section 9.1.1 of the SWPPP for additional inspection criteria.

4.0 Pre-Development Conditions

4.1 Project Description

The subject property is located at 535 Jerome Road, on the south side. The subject parcel is identified as **Tax Map: 59.10, Block: 1, Lot: 10.1 of 4.0 acres**.

Existing Condition

The existing site consists of a vacant wooded site with an existing tennis court and residence located to the east at the top of the hill.

The soils within the site consist of:

Soil	Hydrogeological Classification
Chatfield-Hollis Rock Outcroppings (CuD) – 15 to 35 percent slopes	**B**

4.2 Existing Soil Conditions

The following soils are found on the property or adjacent sites based on the United States Department of Agriculture (USDA) Natural Resource Conservation Service Soil Survey of the lot – NRCS Soil Mapper.

Table 4-1

Project Site Soil Types

Symbol	Location	Soil Series Name	Hydrologic Soil Group	Drainage Characteristics
CuD	**Most of Site**	**Chatfield-Hollis Rock Outcroppings – 15 to 35 percent slopes**	**B**	**This soil is 45% Chatfield: Depth restrictive layer – 30" to 45" bedrock and 35% Charlton: Depth restrictive layer, 65" + bedrock, well drained.**

5. **Source:** Soil Survey of Putnam and Westchester Counties, New York, USDA Soil Conservation Service.

Note: * indicates soil unit is within the proposed footprint of disturbance. "K" Factor given indicates the erosion potential of each soil type. This indicates the susceptibility of a soil to sheet and rill erosion by water. Values of "K" range from 0.05 to 0.69. The higher the value the more susceptible the soil to erosion.

4.3 Existing Watercourses

There are no watercourses on the property.

4.4 Existing Wetlands

There are no wetlands on the property.

5.0 Proposed Project

5.1 Proposal Description (Reference Site Plan on SY1)

Site plan improvements include:

Installation of a driveway and residential site with individual well and septic system in conformance to the approved Stahmer Subdivision, Lot #2.

Limits of Disturbance

The plans outline the project disturbances on Dwg SY1– Refer to "L/D" Limit of Disturbance Line for this area

0.44 acres is disturbed to create the septic system primary and reserve

1.17 acres is disturbed for the house and the driveway.

0.22 acres is Infiltration Basin

The storm water system collects a watershed of 2.82 acres of land. The site contains uplands which are collected by the system as required by the NYCDEP for treatment of the septic area for Lot#1 of the Stahmer Subdivision. Only water shed 3A is diverted past the treatment system. There is an additional area at the entrance which is diverted past the driveway onto drainage along Jerome Road, refer to the Watershed Map for the project.

Net area of disturbance over 1.0 acres, NYSDEC Construction Activities permit is required.

5.2 Proposed Buffers

The plan utilizes the existing wooded perimeter trees as a buffer.

5.3 Storm water Management

The plan includes an infiltration basin which is sized to collect the first flush, 1 year for attenuation with the larger storms discharging across a weir to the downstream neighbor. The analysis included the design of the infiltration basin and bi-pass splitter box using the TR-55 methodology with the swales and the pipes size verified using the rational Method. Refer to the synopsis in Section 6.2.

Treatment:

Consists of an infiltration basin with a green lawn area and a seepage pit for pre-treatment. The area collected is 2.82 acres exclusive of the septic system area. The basin collects the area below the house directly as sheet flow. The septic area is treated with a lawn area downhill serving as a reparian buffer. The infiltration basin was tested with the NYCDEP personnel for suitability under Stahmer Subdivision Approval. The NYCDEP regulations have been revised such that Infiltration Basins are sized to collect the WQv only, and not the 1 year storm event.

Diversion Structures

The site includes slopes above the proposed disturbance. To minimize the infiltration system size, and to protect the areas of the site improved with the driveway and house, the storm water developed up hill is diverted past the house site with swales extending to catch basins which are allowed to discharge down the slope of the proposed site development.

5.4 Anticipated Permits

The following is a list of anticipated permits for the proposed project.

5.4.1 New York State Department of Environmental Conservation

Coverage under the SPDES GP-0-20-001 will be required as part of the proposed development with development over 5,000 sf in phosphorus restricted watershed. The SWPPP is being prepared in compliance with the requirements of the New York State Stormwater Management Design Manual. NYSDEC Protection of Waters Permit is required (Part 608.8) Joint Application for Permit Form to be filed.

5.4.2 Town of Yorktown

- Stormwater, Tree Clearing Permit
- The Town of Yorktown, as a Regulated Land Use MS4 Agent, is responsible to review the SWPPP and complete the MS4 acceptance form prior to filing the Notice of Intent with the NYSDEC.
- Planning Board Approval of the amended residential site plan.
- Special Permit for Home Office use in residential Zone
- Special Permit for a Solar power system.
- Driveway Permit
- Building Permit

5.4.3 NYCDEP

The Stahmer Subdivision was issued a NYCDEP permit which shall be maintained by each individual lot owner, in this case Lot #2. NYCDEP approval is required for the amended site plan for verification of Subdivision SWPPP approval.

5.5 NOI Application Outline

Attached in Appendix D is the NYSDEC Application Outline form prepared by PWSE&A PC, which shall be filed with the Town of Yorktown and subsequent issuance of an MS-4 permit number (pending). This basic data was used to register the scope of the project within the NYSDEC database.

6.0 Post-Construction Water Quality and Quantity Controls

Post-construction water quality and quantity controls are required to meet pollutant removal goals, reduce channel erosion, prevent overbank flooding, and control extreme floods. These controls help mitigate the effects of development by controlling suspended solids content and peak flows of runoff from developed sites. The NYSDEC has developed unified sizing criteria to size stormwater management measures. Attenuation is not required per the General Permit. Treatment is noted for Chapter 156 compliance.

The stormwater treatment practices have been designed to meet the most stringent regulations, including the requirement that the stormwater ponds be designed to capture and treat the runoff generated from the 1-year, 24-hour storm (Q_{NRCC} = 2.72 inch) event from new impervious surfaces. The NYSDEC requirement for Water Quality Volume (WQv) for enhanced phosphorous removal is to capture the estimated runoff from the 1-year, 24-hour design storm. The method for estimating the runoff volume is based on the USDA NRCS Technical Release 20 and Technical Release 55.

6.1 Regulations

6.1.1 NYSDEC Sizing Criteria

The General Permit requires a SWPPP with Treatment structures as is noted in this submission.

6.1.2 Town of Yorktown – Storm water Control Permit

6.1.3 Town of Yorktown – Wetlands and Erosion and Sedimentation Control Permit

6.1.4 Westchester County Department of Health – OWTS Permit
Each permit shall be submitted under separate cover to the Building Department

6.2 Design Analysis

The project shall include an analysis of the pre and post development runoff generated from the proposed site development based upon the NYSDEC criteria.

The following rainfall values for the site as noted on the NRCC Interactive Website, shown in Table 6-2, were used in the analysis. For the purposes of the hydrologic analysis the runoff was based on Type III rainfall distribution for the northeast region. The following rainfall values represent the rainfall distribution for various 24-hour storm frequencies.

Table 6-2
Rainfall Values

Rainfall Value (inches)	24-hour Storm Event (Year) NRCC
2.78	1
3.40	2
5.12	10
6.49	25
9.29	100

Source: NYSDEC NRC Extreme Precipitation File

All Piping & Drainage Structures shall be designed for the 25-year storm event using the Rational Method.

I. WATERSHED DESCRIPTIONS & QUANTITIES

A. PRE-DEVELOPMENT ANALYSIS

The Pre-Development watershed areas are listed as follows. Please also refer to the Pre-Development Drainage Overlay. The site is modeled as one drainage analysis point with each watershed below draining as noted below.

Computer Input:

WATERSHED #	AREA	CN	Tc: Hr.	Tt: Hr.	ANALYSIS POINT
EX1	3.56	56.4	.15	0.0	Point A
EX2 -ssts area	.64	55.0	.129	0.0	Point A

Total = 4.2 Acres to Point A

The remaining portions of the lot are not impacted by the project and are diverted around the disturbances and continue to discharge down the hillside.

B. POST-DEVELOPMENT ANALYSIS

The Post-Development watersheds are listed as follows. Please also refer to the Post-Development Watershed Plan, and the tabular worksheets, Tc calculations and storm event hydrographs, for the watershed areas listed below in Appendix B.

Computer Input: Model Analysis Point A

WATERSHED #	AREA	CN	Tc HOUR	Tt HOUR	ANALYSIS POINT
1 (Direct to infiltration Basin)	0.82	58.2	0.15	0.00	Point A
2 (colleted to swale #5 & splitter) to infil	0.78	69.6	0.10	0.00	Point A
3b (uphill collection of lot1 ssts area per NYCDEP) to infil	0.54	55.5	0.12	0.00	Point A
4 (uphill diverted runoff to infil basin) to infil	0.68	61.8	0.13	0.00	Point A
3 (Direct to neighbors) from ssts area as sheet flow	0.64	48.0	0.13	0.00	Point A
3a (Direct to neighbors) bypass per Insite plan	0.76	54.3	0.14	0.00	Point A

Total = 4.2 Acres to Point A

III. INFILTRATION BASIN DESIGN DESCRIPTION

THIS IS A TREATMENT BMP

SOIL TEST: SW7: refer to Insite Deep Holes
EXISTING GRADE AT SOIL DEEP TEST: 358.0
DEPTH TO RESTRUCTURED LAYER (LEDGE): 90" mottling
NO LEDGE, NO WATER

Infiltration rate: I3= 17 inches/hour: use 50% in model = 8.5 in/hour
I4 = 24 inches/hour

0-3" topsoil
3"-42" light brown mod compact fine sand w/trace silt
42"-90" Compact light brown, fine sand with trace silt/gravel

Refer to detail sheet #: SY4

DESIGN TYPE: INFILTRATION STRUCTURE

HYDROGRAPH NAME; IN: INFIL BASIN (1, 10, 25, 100)
OUT: INFIL BASIN (1, 10, 25, 100)

1) BASIN GEOMETRY: BOTTOM: UNIT INV: 354.5

TOP OF STRUCTURE: 358.50

OVERALL SIZE: 56' X 84'(FOREBAY&BASIN)

PRE-TREATMENT: SEEPAGE FOREBAY W/ GRAVEL WEIR

2) OUTLET STRUCTURES: CONCRETE INLET BOX
2'ID X 2' ID @ELEV:357.5
Rectangular Weir: 12" wide @elev:356.0

Emergency: RECTANGULAR WEIR:
2/1 SIDE SLOPES(RIP-RAP)
10.0' BASE WIDTH @ ELEVATION: 357.75

3) 3) HYDRAULIC ROUTING
STANDARD STORMS:

Storm Event	Input (CFS)	Discharge (CFS)	Elevation
1 Year	0.80	0.00	355.08
10 Year	3.17	0.92	356.45
25 Year	4.83	2.27	356.83
100 Year	8.54	5.67	357.51

Infiltration rate of 8.5 in/hr ave. included in the routing

IV. PRE & POST DEVELOPMENT DISCHARGE RATE

Comparison at Analysis Point A

The Pre & Post Discharges are listed as follows: (Includes offsite components not impacted with this property).

Analysis Point A					
	1 YR	2 YR	10 YR	25 YR	100 YR
PRE	0.23	0.76	4.03	7.49	15.7
POST	0.05	0.37	2.37	5.91	15.7
NET	-0.18	-0.39	-1.66	-1.58	+0.00
%	-78%	-51%	-41%	-21%	+0%

NYSDEC Attenuation Requirements

The NYSDEC Storm water Management: criteria have been met with this project.

A) 1 Year Storm Event – Channel Protection
Detain 1 Year Storm – 24 Hours
Reduce by over 50% from pre-development levels.

B) 2 Year Storm Event
Peak Discharge 50% reduction could not meet 1 year level due to large amounts of offsite developed area collected by the infil basin.

C) 10 Year Storm Event – Overbank Control
Attenuate to Pre-Development Levels

D) 100 Year Storm Event – Extreme Flood Control
Attenuate to Pre-Development Levels

Findings

The following is an overall review of the project relative to hydraulic requirements of NYSDEC Stormwater Management:

6.3 Nonstructural Stormwater Management

Nonstructural stormwater management practices include the following:

- Long-term soil stabilization through landscaping and maintenance in the developed areas. Prevention of soil loss, through establishment of vegetation and a landscape plan that will increase the amount of tree canopy and healthy ground cover. The lawn area will also maximize the travel time of stormwater runoff and minimize concentrated flows.
- The grounds maintenance program limits the potential for excessive nutrient loading, specifically controlling the application of phosphate-based fertilizers.

6.4 Summary

The project is designed based on Chapter 10 of the NYSSMDM. The proposed drainage systems will be sufficient to mitigate the potential impacts of the proposed project related to the quantity of storm water runoff. Refer to the Green Practice Summary for the extent of Quality Treatment.

7.0 Water Quality Summary

The project incorporates the use of a Infiltration Basin for treatment of the WQV.

Project includes the use of a riparian buffer for the septic area.

Note: Discharge from the Infiltration Basin is through a pipe with rip-rap outlet to Lot #3, also owned by the applicant.

Infiltration Basins

Site selection criteria based upon the matrix review of NYSDEC Storm Water Manual section:

Section 7.1:	Land Use Selection: Residential land use: Depends on soil conditions which have been met.
Section 7.2:	Physical Feasibility Matrix: Infiltration, HSG A & B soils Water table – More 3' to 4' below practice Drainage Acreage – Under 10 acres: Steep Slopes: Less than 8% all basins Head: 3 feet plus with lot grading
Section 7.3	Watershed Regional Selection: No aquifers or sensitive streams downstream of basins Overland flow through buffers below outflows 100' provided from wells 'OK' for Ice Pond Drainage Basin
Section 7.4:	Stormwater Management Capability Matrix: Good for nitrogen, Fair for metals, Good for bacteria,
Section 7.5:	Channel Protection – excellent soils Ease of Maintenance: low Community Acceptance: high Affordability: moderate Safety: good

7.1 WQv Analysis

The following is the WQv for the disturbed area of the site and collected non-disturbed areas of the site. The NYCDEP requires the collection of the Lot #1 septic area for treatment by the proposed infiltration basin.

I) Post development WS1 & 2 consist of the driveway, house site and areas below the house site plus the upland areas from the neighbor WS 3B and 4 which drain into the infiltration basin. Note: WS1 drains directly to the basin.

Note: Analysis based upon I year storm event which is the revised NYCDEP 2019 regulations

Total watershed area = 2.82 acres.

$$WQv = \frac{P(Rv)\ A}{12}$$

P = 1.20

I = 0.46 acre = 16% - Two treatments provided: Infiltration Basin and Buffer Distribution.

Rv = .05 + .009 (16) = 0.192 use Rv = 0.2 min for residential

$$WQv = \frac{1.2\ (.2)\ (2.82)}{12} = .056 \text{ acre-feet} = 2450 \text{ cf}$$

From the computer model: WS 1,2,3B & 4 as input to the splitter box and WS1,4 direct WQv: 1 year storm volume = .085 acre-feet = 3702.6 cf. governs

II) Post development WS3 consists of septic area which drains to a riparian buffer.

Total watershed area = 0.644 acres.

$$WQv = \frac{P(Rv)\ A}{12}$$

P = 1.20

I = 0.0 acre = 0% - Treatment Buffer Distribution.

Rv = .05 + .009 (0) = 0.05

$$WQv = \frac{1.2\ (.05)\ (0.64)}{12} = .0032 \text{ acre-feet} = 139 \text{ cf}$$ governs

WQv 1 year: computer model: .001 acre-ft

7.2 RRv Analysis

$$RRv = \frac{P\ Rv^*\ Ai}{12}$$

Aic = impervious cover = 0.46 acre

Rv = .05 + .009 (100) = .95

S (Class B) = 0.4

Ai = SAic

P= 1 year storm = 2.78 inches

RRv = $\frac{2.78\ (0.95)\ (0.4)\ (0.46)}{12}$ = 0.040 acre-feet = 1764 cf

Note, WS 3 does not contribute to RRv since Ai = 0

7.3 Treatment Proposed - SMP with RRv Capacity

Propose for Treatment – Infiltration Structure

90% effective treatment of WQv

WQv = 3,703 cf

Store WQv in bio-retention for attenuation: 90% WQv = 3,332 cf

Sizing of the Infiltration practice is the required storage of 100% of the WQv
The volume of 3,332 cf ; Surface area = Vm/depth (3.0' deep: 357.5 to 354.5)= 1110 cf
The surface area proposed is 3349 sf. @ 357.5, refer to the site plan
The actual volume is: 6865 cf to top of concrete outlet standpipe.

Pre-treatment is a settling forebay equal to 25% WQv volume = .25 (3,703) = 925 cf.
The soils are class B soils
With 2.0-foot depth: surface area = 925/2 = 463 sf.
Propose: 592 sf surface area

The flow Separator is a concrete box with 3.0' long weir plate and 6" dia diversion pipe to the infiltrator basin.

The infiltration basin is routed for the first flush and resulting site attenuation.

7.4 Green Practices

A. Existing: Disconnection of roof flows is accomplished by the discharge of roof flow through gutters and leaders to the lawn area below the site and into a Low flow Swale for pre-treatment. The flow distances of over 100 feet reduce runoff through infiltration prior to reaching property lines.

B. Riparian Buffer –Below the septic area for WS#3.

C. Low Flow Collection swale to the infiltration basin, portion of WS#1. Flow less than 1 fps.

7.4.1 SMP With RR Reduction

Bio-Retention Basin proposed to treat first flush.

7.5 WQv REDUCTION ANALYSIS

WS #	Treatment Type	Soil Class	Efficiency	WQv cf	RRv Reduction cf
1	Infiltration Basin	B	90%	3702	3331
1	Riparian Buffer	B	Area reduction	139	139

The RRv reduction of 3470 cf exceeds RRv min. of 1764 cf.

7.6 Erosion and Sediment Controls

The proposed work will have minimal impact on the site. Grading generally follows existing grades. In this way, significant impacts to topography and slopes will be avoided. The slope is approximately between 14% on the driveway to 3% across the rear of the residence. The existing and proposed grading plan is shown on Drawing SY2. An outline of Erosion Control Practices are as follows:

A construction entrance is proposed off the driveway for access to the rear yard. Construction fence will surround the perimeter (approx. 490 linear feet) of the existing septic area. A line of silt fencing (approx. 60 linear feet) will be downhill of the Bio-Retention Basin installation worksite. Other lengths of site fence (approx. 200 linear feet) will be placed as shown on the SY1. Any trees in the area of the access or work that require protection shall be protected according to the detail, 5/SY2. Once all erosion control is in place, the work may proceed.

7.7 Erosion and Sediment Control Practices - Temporary

The following are specific erosion control measures as identified in the drawings prepared for this project.

7.7.1 Stabilized Construction Entrance (SCE) /Exit

All construction entrances and exits shall have a stabilized aggregate pad underlain with filter cloth to prevent construction vehicles from tracking sediment off-site. Stabilized construction entrances shall be located throughout the project site at specific transition areas between concrete/asphalt to exposed earth.

7.7.2 Silt Fence

Silt fence shall be installed on the down gradient edge of disturbed areas parallel to existing or proposed contours or along the property line as perimeter control. Silt fence are to be used where stakes can be properly driven into the ground as per the Silt Fence Barrier Detail in the New York State Standards and Specifications for Erosion and Sediment Control and as shown on the Drawings.

Silt fence controls sediment runoff where the soil has been disturbed by slowing the flow of water and encouraging the deposition of sediment before the water passes through the straw bale or silt fence. Built-up sediment shall be removed from silt fences when it has reached one-third the height of the bale/fence and properly disposed.

7.7.3 Stockpile Detail

Stockpiled soil is to be protected, stabilized, and sited in accordance with the Soil Stockpile Detail, as shown on the Detail Sheets. Soil stockpiles and exposed soil shall be stabilized by seed, mulch, or other appropriate measures, when activities temporarily cease during construction for 7 days or more in accordance with NYSDEC requirements.

7.7.4 Dust Control

During the demolition and construction process, debris and any disturbed earth shall be wet down with water, if necessary, to control dust. After demolition and construction activities, all disturbed areas shall be covered and/or vegetated to provide for dust control on the site.

7.7.5 Temporary Seeding and Stabilization

In areas where demolition and construction activities, clearing, and grubbing have ceased, temporary seeding or permanent landscaping shall be performed to control sediment-laden runoff and provide stabilization to control erosion during storm events. This temporary seeding/stabilization or permanent landscaping shall be in place no later than 14 days after demolition and construction activity has ceased.

7.7.6 Temporary Diversion Swale

The purpose of a perimeter dike/swale is to prevent off-site storm runoff from entering a disturbed area and to prevent sediment laden storm runoff from leaving the construction site or disturbed area.

7.7.7 Snow Removal

During winter operations, snow accumulations will be removed from active work sites and placed in a snow dump located on the project site. The snow dump will be located in an area that will prevent any potential for stormwater pollution and shall drain to the future bio-retention basin.

7.7.8 Materials Handling/Soil Stabilization

The Contractor must store construction and waste materials as far as practical from any environmentally sensitive areas. Where possible, materials shall be stored in a covered area to minimize any potential runoff. The Contractor shall incorporate storage practices to minimize exposure of the materials to stormwater, and spill prevention and response where practicable. Prior to commencing any construction activities, the contractor shall obtain all necessary permits or verify that all permits have been obtained.

7.7.9 Yard Drain Protection (Block & Gravel)

The yard drains proposed o the site require protection from sediment collection during construction. The proposal is to use block wrapped with filter fabric with a gravel surround which shall trap the sediments from the graded driveways and courtyards.

7.8 Erosion and Sediment Control Practices – Permanent

7.8.1 Rip-Rap Outlet Protection

Each pipe outlet shall be protected with a rip-rap outlet apron over filter fabric which is defined on the detail plans for each individual pipe proposed on the project. Calculations are available for the confirmation of the design of the aprons which, in each case of each pipe, is discharging at less than 50% of pipe diameter.

7.8.2 Grass Lined Swales

The project includes grass lined swales with a liner to collect runoff from the slopes off the site and transport the flow to yard drains on the site. The swales are not considered treatment swales with this project.

7.8.3 Yard Drains and piping

Concrete yard Drains are proposed with 2.0' deep sumps to collect any sediment prior to discharge into the treatment structures. The piping proposed is HDPE with adequate access for cleaning. The frame and covers are bicycle protective for residential use.

7.8.4 Infiltration basin (Used to store WQv)

Prior to construction, all storm water from the site shall be diverted past the area of the infiltration system prior to stabilization with a good vegetated cover.

Construction Requirements:

1. The area of the Infiltration Basin shall be fenced off with orange poly construction fence after the clearing of trees to prevent the movement of construction vehicles over the area of the Basin.

2. A stable benchmark shall be set by the design engineer or land surveyor for use by the contractor,

3. The outline of the Infiltration system shall be staked in the field by the design engineer or contractor,

4. The Infiltration system shall be excavated to the required design depth by hydraulic excavator located outside the limit of the facility. No excavation equipment is permitted in the actual system,

5. After the rough excavation has occurred, the side walls shall be raked with a metal garden rake to remove any soil smearing,

6. The bottom of the facility shall also be scarified by the teeth on the excavated and be made as level as possible. Loose soil from the scarification shall be removed by the excavator,

7. The non-organic material excavated shall be stockpiled to create a berm.

8. Install the stone for the settling forebay weir and follow the detail for the required geometry. Do no compact the interior of the infiltration basin, so work is from the forebay side of the excavation.

9. The infiltration pipe shall be excavated into the final basin elevation and placed level extending to the drain down valve location.

10. The drain down weir is installed in the berm for peak storm periods.

Construction Inspections:
The design engineer shall oversee the entire installation of the Infiltration system at these specific steps:

1. After the excavation and scarification of the basin has been completed,

2. After the installation of the low flow pipe and valve

3. After installation of overflow provisions as may be applicable,

4. After seeded and planted.

8.0 Sequence of Construction for Erosion and Sediment Control

This narrative describes the erosion and sediment controls proposed for this project, discusses the construction sequence and states the requirements for inspection and maintenance of the erosion and sediment controls. The plan has been designed in accordance with the State of New York "Standards and Specifications for Erosion and Sediment Control."

The sequences provided include anticipated start dates, which are predicated on municipal and state agency approvals.

INTRODUCTION

1. Pre-application meeting with Town of Yorktown Town Engineer/MS4 Agent, Contractor & Engineer for project scheduling and final plan coordination. There is a NYCDEP requirement for the subdivision, NYCDEP notification required.
2. File NYSDEC NOI Forms with start dates
3. E.O.R. to complete NYSDEC inspections twice/week per NOI permit.

GENERAL SPECIFICATIONS

1. Surveyor to locate limits of house, driveway centerline and infiltration basin.
2. Layout the limit of disturbance area noted on the plans. Mark the trees for Town Inspection per the Tree Ordinance.
3. Cut the trees within the limit of disturbance areas.
4. Install erosion control devices including silt fence (1/SY2) and construction entrance (2/SY2). Refer to Sheet SY2.

5. Install construction fence to protect proposed septic area and infiltration basin area.
6. Excavate and remove the stumps off site to a recycling center.
7. Strip topsoil and stockpile as noted on the plan (ref 3/SY2)
8. Rough grade the driveway to the house site (ref 6/SY3) .
9. Install YD#5 and the pipe to FES # 1 for the collection of uphill runoff past the excavation site. Install outlet protection (ref 8/SY2).
10. Install the rip-rap outlet apron (ref 8/SY2).
11. Install YD 1 to the ex-CB on Jerome Road.
12. Extend Swale #1 from YD1 up the hillside. Install liner and seed hillside.
13. Construct swale #3A and 3B above the driveway and extend to YD5 inlet to divert the runoff. Add swale liner if weather permits or move to next step.
14. Install YD6 to FES2 piping with rip-rap outlet protection, (ref 8/SY2). Protect yd with drop inlet protection (ref 14/SY2)
15. Excavate and install piping and Yard drains from YD6 to YD4 to YD3 to YD2, install inlet protection (ref 14/SY2).
16. Excavate the house site to the proposed elevations. Excess fill is installed below the house to create a pad and below the driveway as a flat pad.
17. Add topsoil, seed and mulch within 7 days of grading completion.
18. Install YD7 to FES3 with rip-rap outlet protection (ref 8/SY2) and inlet protection (ref 14/SY2).
19. Grade the hillside and Install Swale #4 above the foundation to divert uphill runoff.
20. Run the electrical conduits down the driveway.
21. Install item #4 across the width of the driveway to create a drivable surface.
22. Set up the concrete forms for the footings and walls and pour the foundation of the residence.
23. Waterproof and install footing drains and roof drains as noted on the plans. Roof drains extend into the Yard drains wherever possible. Footing drains can discharge to daylight. Backfill the foundation and seed and mulch the perimeter.
24. Install topsoil, seed and mulch below the house site extending to the area of the proposed infiltration basin.
25. Continue work on the house site.

Infiltration Basin Construction

1. Install the splitter box for the infiltration basin. Plug the discharge hole into the infiltration basin. Install the rip-rap outlet protection at outlet(ref 8/SY2).
2. Extend swale #5 from the splitter to FES #2 rip-rap apron.
3. Install swale #6 to FES #3 rip-rap outlet apron.
4. Layout the infiltration basin and construct as noted in the SWPPP, step by step with supervision of the Engineer of record. Protect the excavation from sediment.
5. Install the stone weir for the settling forebay with fabric noted.
6. Once the grass area has stabilized above the infiltration basin can be brought on-line by installing the 6" pipe into the settling forebay.

Final Site Completion

1. Pave the driveway as noted on the plans. Curbs are not required for this project.
2. Install concrete sidewalks, patios and staircases as noted on the plan.
3. Install the stonework on the buildings and on the pool area concrete retaining walls.
4. Install trees and bushes along site as noted on the plans.
5. Install fencing along property as noted.
6. Clean up topsoil storage areas, seed and mulch.
7. With grass cover in place across the site, remove silt fence across the site.
8. Schedule final MS4 inspections.
9. File NYSDEC NOT forms.

Project Complete

Note: Building construction including exterior lighting installations under Building Department inspections.

Pool construction is by an independent contractor.

9.0 Inspection and Maintenance

9.1 Inspections and Record Keeping During Construction

Once the contract has been let, the name, address, and phone number of responsible parties for maintenance will be provided to the NYSDEC. The following is a description of the maintenance and inspection practices that will be implemented as part of the project. Maintenance and inspection is important to ensure that the stabilization and structural practices that are part of the SWPPP continue to be effective in preventing sediment and other pollutants from entering the stormwater system. It is the responsibility of the owner or operator to ensure that inspections are completed in accordance with NYSDEC regulations.

9.1.1 Record Forms

Inspection and maintenance is important to ensure that the erosion and sediment control practices that are part of the SWPPP continue to be effective in preventing sediment and other pollutants from entering the stormwater system. It is the responsibility of the owner to ensure that inspections are completed in accordance with SPDES GP-0-20-002.

As a part of the SWPPP inspection and maintenance activities during construction, forms shall be updated and kept on-site, including:

- Erosion and Sediment Control Inspection Report
- Monthly Summary of Inspection Activities

Inspections would be conducted by the qualified inspector periodically according to the schedule required by the SPDES GP 0-20-002 **twice per week**. During each inspection, the qualified inspector would record the areas of disturbance, deficiencies in erosion and sediment control practices, required maintenance, and areas of temporary or permanent stabilization. The need for modifications to the Erosion and Sediment Control Plan would be identified and implemented immediately.

The Erosion and Sediment Control Inspection Report will be completed by a qualified inspector to fully document each inspection. A qualified inspector is a person 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), licensed Landscape Architect, or other NYSDEC endorsed individual(s). It also means someone working under the direct supervision of the licensed Professional engineer or licensed Landscape Architect, provided the 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 an individual performing the site inspection has received four hours of training, which has been endorsed by the NYSDEC, from a Soil and Water Conservation District, CPESC, Inc., or other NYSDEC endorsed entity, in proper erosion and sediment control principles no later than two years from the date SPDES GP-0-15-002 is issued. After receiving the initial training, an individual working under the direct supervision of the licensed Professional Engineer or licensed Landscape Architect shall receive four hours of training every three years.

9.1.2 Inspections

Inspections shall be conducted by the qualified inspector periodically according to the following schedule:

1. When construction activities are ongoing, the qualified inspector shall conduct a site inspection at least Twice Per Week per NYSDEC regulations.

2. If 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 Regional Office stormwater contact person in writing prior to reducing the frequency of inspections.

3. If 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 Regional Office stormwater contact person in writing prior to the shutdown. If soil disturbance activities have not resumed within 2 years from the date of shutdown, the owner or operator shall have the qualified inspector(s) 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 Notice of Termination (NOT). The owner or operator shall then submit the completed NOT form in accordance with NYSDEC regulations.

   During each inspection, the qualified inspector should fill out the Erosion and Sediment Control Inspection Report as directed below:

   On the Erosion and Sediment Control Inspection Report site map show the following:

   - Disturbed site areas and drainage pathways.
   - Site areas that are expected to undergo initial disturbance or significant site work within the next 7-day period.
   - Site areas that have undergone temporary or permanent stabilization.
   - In areas where soil disturbance activity has been temporarily or permanently ceased, temporary and/or permanent soil stabilization measures shall be installed and/or implemented within seven (7) days from the date the soil disturbance activity ceased. The soil stabilization measures selected shall be in conformance with the most current version of the technical standard, New York State Standards and Specifications for Erosion and Sediment Control.

Record the following information on the Erosion and Sediment Control Inspection Report:

- For each structural measure, circle YES, NO, or N/A (not applicable) to indicate if the pollutant control measure is in conformance with specifications.
- For each structural measure, circle YES, NO, or N/A to indicate whether the structural measure is performing effectively in minimizing stormwater pollution.
- Inspect all sediment control practices and record the approximate degree of sediment accumulation as a percentage of the sediment storage volume in the allocated location on the Inspection Form Chart (i.e., 10 percent, 20 percent, and 50 percent).

- 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.
- A description of the condition of all-natural surface water bodies 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 water body.

The qualified inspector will give a brief explanation for all locations where he/she has noted that the structural practice was either not in conformance with specifications or in need of repair. This should be noted in the Erosion and Sediment Control Inspection Report. The qualified inspector will then give a brief recommendation for soil erosion and sediment control practices that were not installed properly or are not functioning as designed and need to be reinstalled or replaced.

9.1.3 Erosion and Sediment Control Maintenance Measures

All maintenance described below shall be completed in accordance with the New York State Standards and Specifications for Erosion and Sediment Control. Any material removed from erosion and sediment control measure shall be properly disposed.

All measures will be maintained in good working order; if repairs are found to be necessary, the qualified inspector shall notify the owner or operator and appropriate contractor (and subcontractor) of any corrective actions needed within one business day. 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.

A maintenance inspection report, titled "Erosion and Sediment Control Inspection Report," will be made after each inspection conducted by a qualified inspector.

Disturbed areas and materials storage areas will be inspected for evidence of potential pollutants entering stormwater systems. Within one business day of the completion of the inspection, the qualified inspector shall notify the owner or operator and the appropriate contractor (or subcontractor) 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.

A Monthly Summary of Site Inspection Activities will be prepared and kept on file with completed Erosion and Sediment Control Inspection Report. A Record of Stabilization and Construction Activities will be prepared and kept on file with the completed Construction Duration Inspection Forms.

The following are the maintenance requirements for each practice that will be implemented at the site.

9.2 Maintenance Practices – Temporary

Refer to attached table – Appendix C

9.2.1 Stabilized Construction Entrance/Exit

The stabilized construction entrance/exit shall be maintained in a condition that will prevent the tracking or flow of sediment onto public rights-of-way. All sediment spilled, dropped, washed or tracked onto public rights-of-way must be removed immediately; streets shall be swept as needed. The gravel pad shall be replaced as necessary. Sediment tracked onto public streets should be removed or cleaned on a daily basis.

9.2.2 Silt Fence

Maintenance of all silt fences shall be performed as needed. If a silt fence is knocked down, it shall be replaced immediately. When a silt fence appears deteriorated or ineffective and/or built-up sediment reaches one-third the height of the fence, the silt fence shall be replaced and/or cleaned accordingly. When "bulges" of material develop on the fence, they shall be removed.

Silt fence controls sediment runoff where the soil has been disturbed by slowing the flow of water and encouraging the deposition of sediment before the water passes through the silt fence. Built-up sediment shall be removed from silt fences when it has reached one-third the height of the fence and properly disposed.

9.2.3 Clean Material Stockpile

The silt fence should be inspected for bulges and proper installation. The soil stockpile should be stabilized with grass or rolled erosion control blanket.

9.2.4 Dust Control

Dust control maintenance requires exposed areas to be covered or seeded and mulched. Maintain through dry periods.

9.2.5 Temporary Seeding and Stabilization

In areas where demolition and construction activities, clearing, and grubbing have ceased, temporary seeding or permanent landscaping shall be performed to control sediment-laden runoff and provide stabilization to control erosion during storm events. This temporary seeding/stabilization or permanent landscaping shall be in place no later than 14 days after demolition and construction activity has ceased.

9.2.6 Temporary Diversion Swale

The diversion swale should be properly stabilized with rolled erosion control blanket or other stabilized measures. Any rolling or areas of cutting should be immediately stabilized. Further investigation as o the cause should also be performed to determine of other upstream erosion and sediment control measures are needed. When accumulated sediment reaches a depth of 1/3 of the total depth of the swale, this material shall be removed and properly disposed.

9.2.7 Material Handling/ Soil Stabilization

The ensure that the site 1s properly seeded and stabilized, the Contractor must initiate stabilization measures as soon as practicable in areas of the site where construction activities have permanently ceased and in no case more than 14 days after the construction activity in that portion of this site has temporarily or permanently ceased. The Contractor will be responsible for the maintenance of the vegetated cover for the duration of construction activities. The areas shall be monitored to ensure that vegetation achieves a good coverage over the entire

disturbed section. Additional seeding shall be completed as needed. Watering shall be provided as needed.

In areas where soil disturbance activity has been temporarily ceased, temporary and/or permanent soil stabilization measures shall be installed and/or implemented within seven days from the date the soil disturbance activity ceased. The soil stabilization measures selected shall be in conformance with the most current version of the technical standard, New York State Standards and Specifications for Erosion and Sediment Control.

9.2.8 Yard Drain Drop Inlet Protection

Consists of maintenance and inspection of the filter fabric cloth beneath inlet grates in paved areas of the filter fabric drop inlet protection around the drop inlet shall be conducted. The filter fabric cloth shall be cleaned to allow water to pass and prevent clogging the drainage structure. The drainage inlet protection should be inspected for integrity and visible sediment buildup. Collected sediment should be removed from the drainage inlet protection and shall be disposed of properly in accordance with all applicable local, state and federal requirements.

9.3 Maintenance Practices – Permanent

9.3.1 Rip-rap outlet apron

Maintenance consists of weekly inspection during construction for stone placement, edge erosion and sediment build-up. Sediment should be removed every year or when sediment fills the voids between the rocks.

9.3.2 Grass lined swale

The maintenance consists of inspections after storm events and weekly during installation. Upon final completion of project, inspections are once per year. Maintenance consists of replacement of displaced soils, erosion along edge of swales and sediment removal behind gravel water breaks should swale bottom become filled to half the depth of the water break.

Swale maintenance is largely aimed at keeping grass cover dense and vigorous. This primarily involves periodic mowing, occasional spot reseeding, and weed control. Watering may also be necessary in times of drought, particularly in the first few months after establishment. Care should be exercised to prevent mowing too close to the swale surface to maintain operation of the swale.

9.3.3 Yard Drains

Inspection once per month, visually review rim/grate and sump for accumulated sediments, erosion, and evidence of storm water bypass. Maintenance consists of the following:

A) Remove sediments from the basin sump if accumulated volume is greater than 12"
B) Clear the rim and grate of debris and leaves.
C) Ensure that the swale, which drains directly into the yard drain, is clear of debris and evidence of erosion is repaired with grass plantings or rip-rap as required.

Piping and Culverts

Including all piping for individual lots and open bottom culverts beneath driveway.

1. Remove sediments or blockage or debris from any piping twice per year.
2. Check piping for differential settlement and ponded water in pipe.
3. Corrective measures may require localized excavations and re-setting of the pipe.

9.3.4 Infiltration Basin

1. The storm water management system should be inspected after each major storm event (greater than 2-year, 24-hour storm) to ensure the small orifices and inlets remain open.
2. Litter and debris will be removed from the outlet control structures of the infiltration basin and from perimeter fencing.
3. The basins shall be inspected for any erosion of the earthen berms, grass cover for infiltration basins and proper operations of the outlet structures.
4. Forebay sediment storage to be monitored; if greater than 50% full remove sediment off-site.
5. Check existing outlet pipe from downstream end for any debris or blockage.

9.4 Maintenance Requirements

The responsibility for the implementation of long-term operation and maintenance of a post-construction storm water management practice shall be vested with the property owner: Tom Miressi or his successors, by a legally binding and enforceable mechanism as prepared by the project attorney and approved by the NYCDEP legal department. The following items are provided in compliance with Section 3.5 of the NYSSMDM, 2010 Manual.

9.4.1 Responsible Entity

Identity of the entity responsible for long-term operation and maintenance of the storm water practices:

Tom Miressi: (Current Address):
499 West Broadway
White Plains, NY
10603
Tell #917-532-7238
Email: luigie1@AOL.com

Note: New Address is 535 Jerome Rd, Yorktown Heights NY when C.O. is issued for project.

9.5 Long Term Operation and Maintenance

Following completion of construction, a long-term inspection and maintenance program will be implemented to ensure the proper function of the stormwater management system. The program will be carried out by the Owner of Record. Post construction includes maintenance of the permanent erosion control structures, swales, the accessway to the well and infiltration structures.

Following completion of construction, a long-term inspection and maintenance program will be implemented to ensure the proper function of the stormwater management system. This includes the maintenance of permanent Storm water Structures which are listed below.

9.5.1 Site Maintenance

1. Litter and debris will be removed from parking courtyard and driveway. Sand or silt from parking lot shall be removed if it exceeds 1 inch to protect Infiltration Basin filter.
2. The storm water management system should be inspected after each major storm event (greater than 2-year, 24-hour storm) to ensure infiltration outlet structure remains clear.
3. Any settlement within lawn areas shall be corrected with topsoil with seed and mulch.

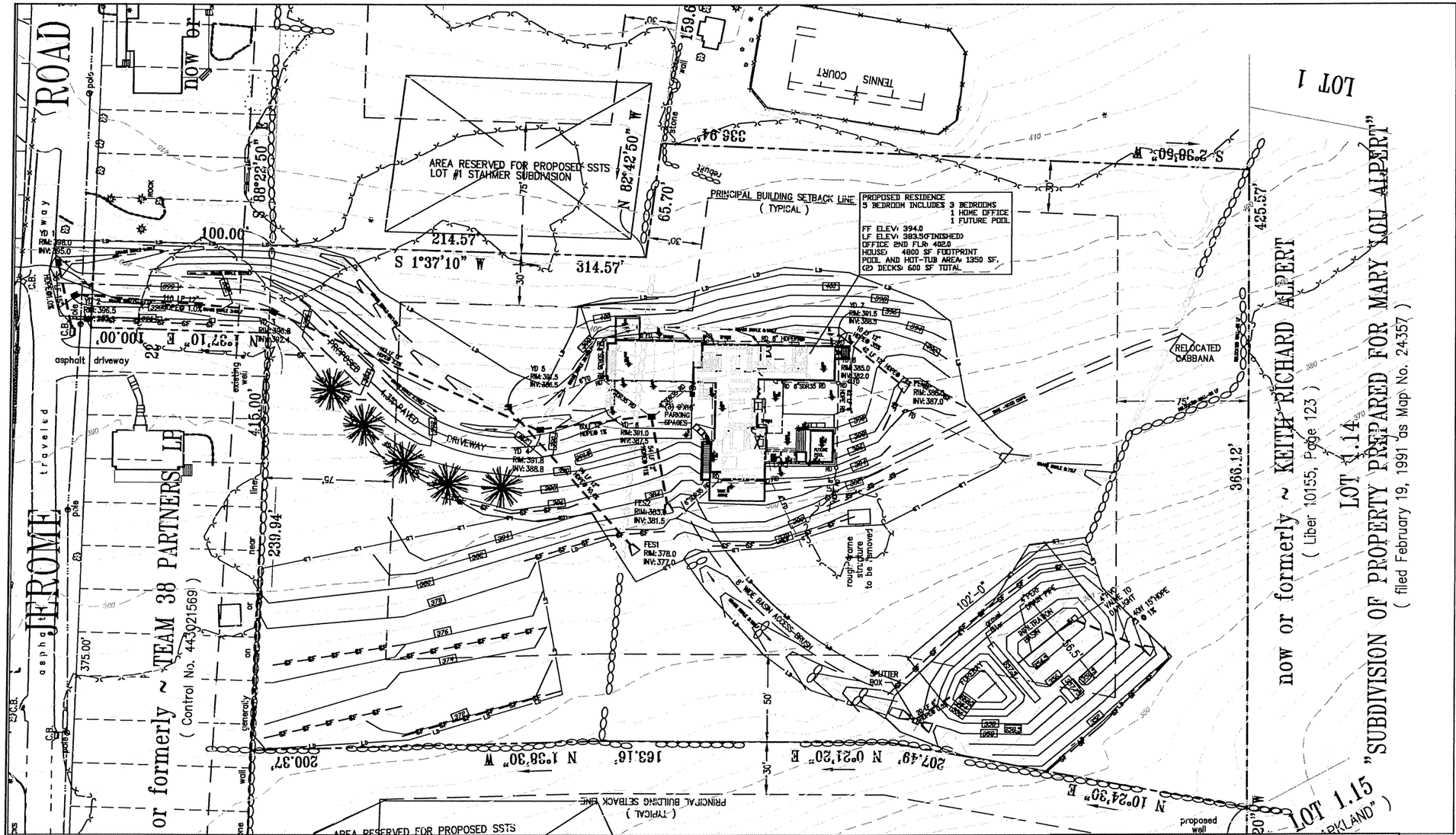
4. All plantings shall be inspected each year and replaced as necessary for a period of 3 years to maintain 80% survival rate.
5. Infiltration Basin follows the Maintenance Practice of 9.3.4.
6. Site shall be maintained with lawn mowing, tree trimming, and leaf clean-up as is necessary for an acceptable school environment.
7. Refer to Section 9.3- Permanent Maintenance Practices are noted for rip-rap outlet aprons, grass swales and yard drains.

Long Term Management Operations and Maintenance Reference Guideline

The following items document requirements of this SWPPP and the Approved Covenant:

Refer to the following items:
Section 9.0 and Specifically 9.3 – Post Construction Operation and Maintenance
Appendix B: Inspection and Maintenance Forms
Appendix C: Maintenance Schedule – Temporary and Permanent
Appendix G: Long Term Operations and Maintenance Covenant

Drawings:
Drawing SY1: Erosion Control Plan: includes Appendix E Schedules
Figure 3.0: SWPPP Overlay



CONSTRUCTION SITE PLAN

GRAPHIC SCALE

1 Inch = 30 ft.
(IN FEET)

NOTE: NO SOIL STOCKPILES , MATERIALS OR EQUIPMENT WILL BE STORED IN THE AREA TO BE USED FOR THE STORM WATER INFILTRATION PRACTICE AND FOR THE SUBSURFACE SEWAGE TREATMENT SYSTEM.

GENERAL NOTES

THROUGHOUT THE CONSTRUCTION PHASE OF THE PROJECT, CHANGES TO THE APPROVED SITE PLAN ARE PROHIBITED, UNLESS A SITE PLAN REVISION APPROVAL IS SECURED FROM THE PLANNING BOARD.

ALL STORM SEWERS ARE TO BE HDPE PIPE, UNLESS NOTED OTHERWISE.

ALL STORM AND SANITARY SEWER LINES ARE TO BE INSTALLED USING CATCH BASIN OR MANHOLE INVERT ELEVATIONS. PIPE SLOPES ARE FOR REFERENCE USE ONLY.

ANY DRAINAGE STRUCTURES, DITCHES, ASPHALT, CURBS OR GRASSED AREAS DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO ORIGINAL CONDITION.

ALL UTILITY SERVICE TO BE INSTALLED UNDERGROUND.

ALL FOOTING AND ROOF DRAINS ARE TO BE CONNECTED TO THE STORM DRAINAGE SYSTEM AS INDICATED ON SITE PLAN THROUGH THE USE OF 6" DIAMETER PVC PIPE AS NOTED ON THE PLANS.

IT IS THE CONTRACTOR'S RESPONSIBILITY TO ASSURE THAT ALL PIPING IS PROPERLY BEDDED AND STABILIZED IN AREAS OF HIGH GROUND WATER AND/OR UNSTABLE SOIL CONDITIONS.

ALL AREAS OF DISTURBED EARTH SHALL BE STABILIZED BY MULCHING OR OTHER MEANS. SEEDING OF GRASSED AREAS SHALL BE INITIATED AS SOON AS PRACTICAL TO MITIGATE EROSION ON SITE. REFER TO EROSION CONTROL TECHNIQUES ON EROSION CONTROL SITE PLAN.

IT IS THE DEVELOPERS RESPONSIBILITY TO OBTAIN ALL NECESSARY PERMITS AND/OR EASEMENTS FROM THE STATE AND LOCAL AUTHORITIES. RIGHT TO DRAIN, CONSTRUCTION RIGHTS AND SLOPE RIGHTS AS MAY BE REQUIRED FROM ADJOINING PROPERTY OWNERS ARE THE RESPONSIBILITY OF THE PROPERTY OWNER.

LOCATIONS SHOWN ARE APPROXIMATE AND ARE SUBJECT TO FINAL SITE SURVEY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ALL ELEVATIONS, PROPERTY LINES, LOCATION OF UTILITIES AND SITE CONDITIONS IN THE FIELD. IF ANY DEVIATION OR ALTERATION IS REQUIRED FOR THE COMPLETION OF THIS PROJECT, THE CONTRACTOR SHALL CONTACT P.W. SCOTT ENGINEERING & ARCHITECTURE, P.C. SO THAT REVISIONS MAY BE COMPLETED.

ALL GRATES WITHIN 10' OF THE TRAVEL PATH TO COMPLY WITH ADA GRATE OPENING REQUIREMENTS.

ALL EXISTING PIPING ON AND OFF-SITE INVERTS MUST BE VERIFIED WITH AN A-2 SURVEY PRIOR TO ANY SITE ACTIVITIES.

ALL PIPING SHALL BE INSTALLED TO CONFORM WITH H20 LOADING

SURVEY OF THE PROPERTY

THE SURVEYOR OF RECORD IS BAXTER LAND SURVEYING. 2' CONTOURS. TOPOGRAPHY 1929 DATUM.

LOT SIZE 4.03 ACRES
ZONE RI- 80

UTILITY PLAN NOTES

THE PIPING DEPICTED IS BASED UPON THE APPROVED SITE PLAN, THE SPECIFIC COMPLIANCE OF THE STORMWATER COMPONENTS HAVE NOT BEEN FIELD VARIFIED

PROPERTY IDENTIFICATION

OWNER:	TOM MIRESSI
ADDRESS:	499 NORTH BROADWAY WHITE PLAINS N.Y. 10603
E911 # :	535 JEROME ROAD
T.M. #:	59.10-1-10.1
PROPERTY ADDRESS:	535 JEROME ROAD YORKTOWN HEIGHTS N.Y. 10598
NYC DEP WATERSHED:	NEW CROTON
REALTY SUBDIVISION:	STAHMER SUBDIVISION LOT 2 (2019) CURRENT TAX MAP LOT #10.1 FIELD MAP # 29353 DATE 12/2019
AREA OF HOUSE	
PROPOSED:	4,800 SF
# BEDROOMS:	5
INCLUDES	3 BEDROOMS 1 HOME OFFICE 1 FUTURE POOL

RI-80 RESIDENTIAL

Lot Acreage: 4.3 acres

Reference Survey: ROBERT H. STAHMER
TOWN OF YORKTOWN
BAXTER LAND SURVEYING

EROSION CONTROL LEGEND

SEDIMENT & EROSION CONTROL LEGEND

NO.	SYMBOL	DESCRIPTION	STATUS
1	—SF——SF—	SILT FENCE	TEMPORARY SEE DET. 1/SY2 PLACE PARALLEL TO GRADE-CONTOURS
2	—□——□——□	CONSTRUCTION FENCE	TEMPORARY: SEE DET.2/SY2
3	◉	TOPSOIL STOCKPILE AREA	TEMPORARY SEE DET. 3/SY2 RING WITH SILT FENCE
4	—TP——TP—	TREE PROTECTION FENCE	TEMPORARY SEE DET. 4/SY2 RING TREE @ DRIP LINE
5	▬	CONSTRUCTION ENTRANCE	TEMPORARY SEE DET. 5/SY2 PLACE @ EA. POINT OF ENTRY INTO SITE
6	▣	DROP INLET PROTECTION	TEMPORARY SEE DET. 14/SY2 PLACE @ EA. YARD DRAIN
7	⟵	TEMP. DIVERSION SWALE	TEMPORARY: SEE DET.7/SY2
8	◁	RIP-RAP OUTFALL APRON	PERMANENT: SEE DET.8/SY2
9	⟵	GRASS LINED SWALE SLOPE UNDER 5%	PERMANENT: SEE DET.9/SY2
10	↑	STONE CHECK DAMS	PERMANENT: SEE DET.10/SY2
11		WATER BAR	TEMPORARY SEE DET. 11/SY2
12	——LD——	LIMIT OF DISTURBANCE	

L E G E N D

NOT TO SCALE

— — ——	PROPERTY LINE	═══	PROPOSED 6" HIGH CONCRETE CURB
— — — —	SETBACK LINE	▨	PROPOSED SIDEWALK
○○○○○○○	Existing stone wall	-□-□-□-	PROPOSED GUIDERAIL
⌀——	Utility pole(with guy cable)	-.—.—.-	PROPOSED CHAIN LINK FENCE
——-——	Line of overhead wires	——400——	TOPOGRAPHY-ORIGINAL
—SF——SF—	EROSION CONTROL FENCE	——▭——	GRADING PROPOSED
▭	YARD DRAIN	▭ +	GRADING PROPOSED SPOT
■ ■ ■ ■	DRAINAGE PIPING	▭	BUILDING / STRUCTURES
——L/D——	LIMIT OF DISTURBANCE		

P. W. SCOTT
ENGINEERING & ARCHITECTURE, P.C.
3871 ROUTE 6

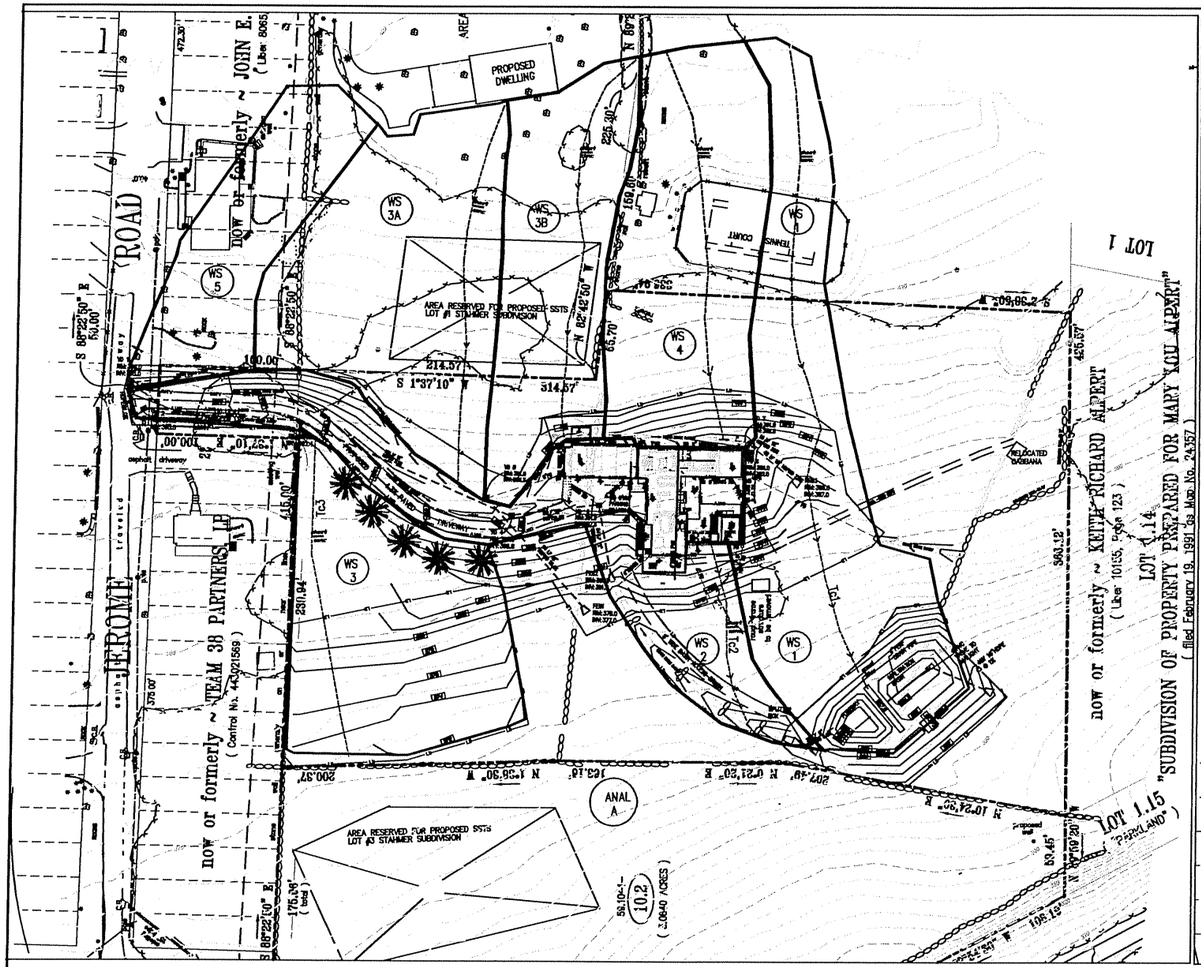
Revisions

No.	Date	Description
A	12/22/20	OFFSITE DRAINAGE TREATMENT-NYCDEP
B	1/18/21	REVISION PER TOWN ENGINEER
C	1/18/21	REVISION PER NYCDEP

Dwg. Title	CONSTRUCTION_SITE_PLAN		
Project Title	535_JEROME_ROAD,_YORKTOWN_HEIGHTS		
Proj. No.	20-116	Drawn by	PWS
Date	07/24/20	Scale	AS_NOTED

Seal

Dwg. No.
SY1

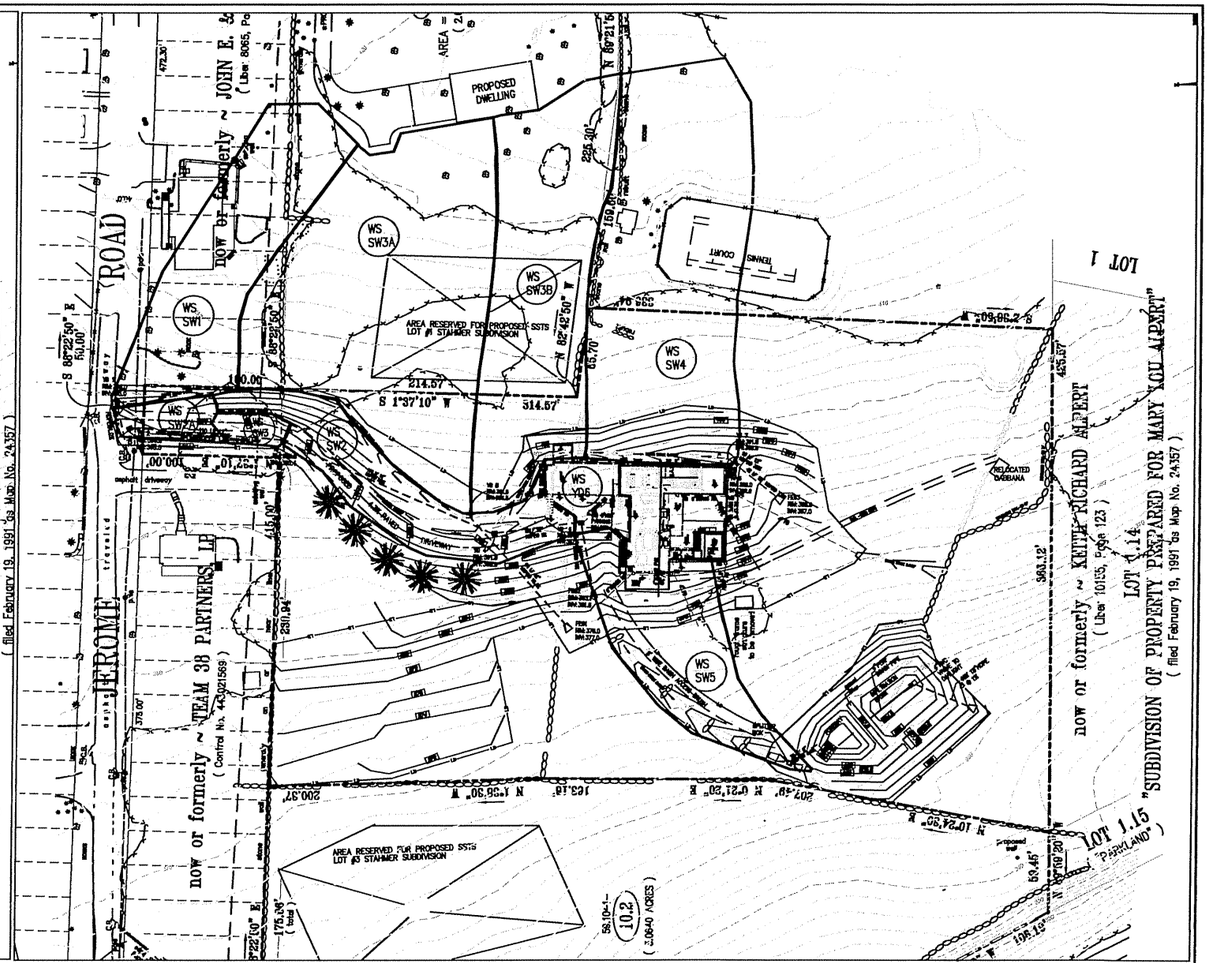


DRAINAGE OVERLAY

GRAPHIC SCALE

60 0 30 60 100 180

1 inch = 50 ft.
(IN FEET)



SWALE OVERLAY

GRAPHIC SCALE

60 0 30 60 100 180

1 inch = 50 ft.
(IN FEET)

All soils are CuD: Charlton Hollis Rock Outcroppings

P. W. SCOTT
ENGINEERING & ARCHITECTURE, P.C.
3871 ROUTE 6

Revisions		
No.	Date	Description
A	12/22/20	OFFSITE DRAINAGE TREATMENT-NYCDEP

Dwg. Title: DRAINAGE-OVERLAYS
Project Title: 535_JEROME_ROAD,_YORKTOWN_HEIGHTS
Proj. No.: 20-116
Drawn by: PWS
Date: 07/24/20
Scale: AS_NOTED
Seal:
Dwg. No.: D1

APPENDICES

A: Certifications
B: Construction Inspection Logs
C: Maintenance Schedule – Temporary & Permanent
D: NOI Application -NYSDEC
E: MS-4 SWPPP Acceptance Form filed with Town of Southeast
F: Short Form EAF
G: Long Term Maintenance Agreement

APPENDIX A

CERTIFICATIONS

NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

Owner/Operator Certification Form

SPDES General Permit For Stormwater Discharges From Construction Activity (GP-0-15-002)

Project/Site Name: 535 Jerome Ave, Yorktown Heights, NY

eNOI Submission Number: _____

eNOI Submitted by: ☐ **Owner/Operator** ☑ **SWPPP Preparer** ☐ **Other**

Certification Statement - Owner/Operator

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.

Thomas		Miressi
Owner/Operator First Name	M.I.	Last Name

_____

Signature

_____

Date

NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

SWPPP Preparer Certification Form

SPDES General Permit for Stormwater Discharges From Construction Activity (GP-0-20-001)

Project Site Information

Project/Site Name

535 JEROME RD, YORKTOWN HEIGHTS, NY

Owner/Operator Information

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

THOMAS MIRESSI

Certification Statement – SWPPP Preparer

I hereby certify that the Stormwater Pollution Prevention Plan (SWPPP) for this project has been prepared in accordance with the terms and conditions of the GP-0-20-001. Furthermore, I understand that certifying false, incorrect or inaccurate information is a violation of this permit and the laws of the State of New York and could subject me to criminal, civil and/or administrative proceedings.

PEDER	W	SCOTT
First name	MI	Last Name

Signature 

Date 11/16/20

Contractor's Certification

"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 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 safety 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 be subject me to criminal, civil and/or administrative proceedings."

Signed _____ Date _____

Name _____

Company _____

Address _____

_____

Phone _____

Site _____

SWPPP Implementer's Name _____

SWPPP Implementer's Title _____

Contractor's Scope _____

Trained Contractor's Name _____

Trained Contractor's Title _____

* The SWPPP Implementer must be a trainer contractor responsible for SPPP implementation, an employee of the firm who has received training in accordance with SPEDES GP-0-15-002.

APPENDIX B

CONSTRUCTION INSPECTION LOGS

INSPECTION FORM

RECORD OF STABILIZATION, DEMOLITION, AND CONSTRUCTION ACTIVITIES

A record of dates when major grading activities occur, when construction activities temporarily or permanently cease on a portion of the site, and when stabilization measures are initiated shall be maintained until final site stabilization is achieved and the notice of termination is filed. Maintain this form in log book at the project site.

MAJOR GRADING, CONSTRUCTION OR STABILIZATION ACTIVITIES

Description of Activity: _____

Begin Date: _____ Site Contractor: _____

Location: _____

End Date: _____

Description of Activity: _____

Begin Date: _____ Site Contractor: _____

Location: _____

End Date: _____

Description of Activity: _____

Begin Date: _____ Site Contractor: _____

Location: _____

End Date: _____

Description of Activity: _____

Begin Date: _____ Site Contractor: _____

Location: _____

End Date: _____

Description of Activity: _____

Begin Date: _____ Site Contractor: _____

Location: _____

End Date: _____

Description of Activity: _____

Begin Date: _____ Site Contractor: _____

Location: _____

End Date: _____

EROSION AND SEDIMENT CONTROL INSPECTION REPORT

SITE PLAN/SKETCH

Provide a concise sketch indicating construction activities, location and description of stormwater runoff from the site, stabilization activities, and soil erosion and sediment control BMPs. Indicate BMPs improperly installed or in need of repair. The inspector shall notify the contractor(s) and subcontractor(s) of necessary repairs of BMPs required within one business day of this inspection.

Provide a brief description of soil and weather conditions:

Qualified Inspector (print name)

Date of Inspection

Qualified Professional (print name)

Qualified Professional Signature

The above signed acknowledges that, to the best of his/her knowledge, all information provided on the forms is accurate and complete.

Maintaining Water Quality

Yes	No	NA	
[ ]	[ ]	[ ]	Is there an increase in turbidity causing a substantial visible contrast to natural conditions?
[ ]	[ ]	[ ]	Is there residue from oil and floating substances, visible oil film, or globules or grease?
[ ]	[ ]	[ ]	All disturbance is within the limits of the approved plans.
[ ]	[ ]	[ ]	Have receiving lake/bay, stream, and/or wetland been impacted by silt from project?

Housekeeping

1. General Site Conditions

Yes	No	NA	
[ ]	[ ]	[ ]	Is construction site litter and debris appropriately managed?
[ ]	[ ]	[ ]	Are facilities and equipment necessary for implementation of erosion and sediment control in working order and/or properly maintained?
[ ]	[ ]	[ ]	Is construction impacting the adjacent property?
[ ]	[ ]	[ ]	Is dust adequately controlled?

2. Temporary Stream Crossing

Yes	No	NA	
[ ]	[ ]	[ ]	Maximum diameter pipes necessary to span creek without dredging are installed.
[ ]	[ ]	[ ]	Installed non-woven geotextile fabric beneath approaches.
[ ]	[ ]	[ ]	Is fill composed of aggregate (no earth or soil)?
[ ]	[ ]	[ ]	Rock on approaches is clean enough to remove mud from vehicles & prevent sediment from entering stream during high flow.

Runoff Control Practices

1. Excavation Dewatering

Yes	No	NA	
[ ]	[ ]	[ ]	Upstream and downstream berms (sandbags, inflatable dams, etc.) are installed per plan.
[ ]	[ ]	[ ]	Clean water from upstream pool is being pumped to the downstream pool.
[ ]	[ ]	[ ]	Sediment laden water from work area is being discharged to a silt-trapping device.
[ ]	[ ]	[ ]	Constructed upstream berm with one-foot minimum freeboard.

2. Level Spreader

Yes	No	NA	
[ ]	[ ]	[ ]	Installed per plan.
[ ]	[ ]	[ ]	Constructed on undisturbed soil, not on fill, receiving only clear, non-sediment laden flow.
[ ]	[ ]	[ ]	Flow sheets out of level spreader without erosion on downstream edge.

3. Interceptor Dikes and Swales

Yes	No	NA	
[ ]	[ ]	[ ]	Installed per plan with minimum side slopes 2H:1V or flatter.
[ ]	[ ]	[ ]	Stabilized by geotextile fabric, seed, or mulch with no erosion occurring.
[ ]	[ ]	[ ]	Sediment-laden runoff directed to sediment trapping structure

4. Stone Check Dam

Yes	No	NA	
[ ]	[ ]	[ ]	Is channel stable? (flow is not eroding soil underneath or around the structure).
[ ]	[ ]	[ ]	Check is in good condition (rocks in place and no permanent pools behind structure).
[ ]	[ ]	[ ]	Has accumulated sediment been removed?

5. Rock Outlet Protection

Yes	No	NA	
[ ]	[ ]	[ ]	Installed per plan.
[ ]	[ ]	[ ]	Installed concurrently with pipe installation.

Soil Stabilization

1. Topsoil and Spoil Stockpiles

Yes	No	NA	
[ ]	[ ]	[ ]	Stockpiles are stabilized with vegetation and/or mulch.
[ ]	[ ]	[ ]	Sediment control is installed at the toe of the slope.

2. Revegetation

Yes	No	NA	
[ ]	[ ]	[ ]	Temporary seeding and mulch have been applied to idle areas.
[ ]	[ ]	[ ]	4 inches minimum of topsoil has been applied under permanent seeding

Sediment Control

1. Stabilized Construction Entrance

Yes	No	NA	
[ ]	[ ]	[ ]	Stone is clean enough to effectively remove mud from vehicles.
[ ]	[ ]	[ ]	Installed per standards and specifications?
[ ]	[ ]	[ ]	Does all traffic use the stabilized entrance to enter and leave site?
[ ]	[ ]	[ ]	Is adequate drainage provided to prevent ponding at entrance?

2. Silt Fence

Yes	No	NA	
[ ]	[ ]	[ ]	Installed on Contour, 10 feet from toe of slope (not across conveyance channels).
[ ]	[ ]	[ ]	Joints constructed by wrapping the two ends together for continuous support.
[ ]	[ ]	[ ]	Fabric buried 6 inches minimum.
[ ]	[ ]	[ ]	Posts are stable, fabric is tight and without rips or frayed areas.
			Sediment accumulation is ____% of design capacity.

3. Storm Drain Inlet Protection (Use for Stone & Block; Filter Fabric; Curb; or, Excavated practices)

Yes	No	NA	
[ ]	[ ]	[ ]	Installed concrete blocks lengthwise so open ends face outward, not upward.
[ ]	[ ]	[ ]	Placed wire screen between No. 3 crushed stone and concrete blocks.
[ ]	[ ]	[ ]	Drainage area is 1acre or less.
[ ]	[ ]	[ ]	Excavated area is 900 cubic feet.
[ ]	[ ]	[ ]	Excavated side slopes should be 2:1.
[ ]	[ ]	[ ]	2" x 4" frame is constructed and structurally sound.
[ ]	[ ]	[ ]	Posts 3-foot maximum spacing between posts.
[ ]	[ ]	[ ]	Fabric is embedded 1 to 1.5 feet below ground and secured to frame/posts with staples at max 8-inch spacing.
[ ]	[ ]	[ ]	Posts are stable, fabric is tight and without rips or frayed areas.
			Sediment accumulation ____% of design capacity.

4. Temporary Sediment Trap

Yes	No	NA	
[ ]	[ ]	[ ]	Outlet structure is constructed per the approved plan or drawing.
[ ]	[ ]	[ ]	Geotextile fabric has been placed beneath rock fill.
			Sediment accumulation is ____% of design capacity.

5. Temporary Sediment Basin

Yes	No	NA	
[ ]	[ ]	[ ]	Basin and outlet structure constructed per the approved plan.
[ ]	[ ]	[ ]	Basin side slopes are stabilized with seed/mulch.
[ ]	[ ]	[ ]	Drainage structure flushed and basin surface restored upon removal of sediment basin facility.
			Sediment accumulation is ____% of design capacity.

Note: Not all erosion and sediment control practices are included in this listing. Add additional pages to this list as required by site specific design.

Construction inspection checklists for post-development stormwater management practices can be found in Appendix C of this document and Appendix F of the New York State Stormwater Management Design Manual.

b. Modifications to the SPPP (To be completed as described below)

The Operator shall amend the SPPP whenever:

1. There is a significant change in design, construction, operation, or maintenance which may have a significant effect on the potential for the discharge of pollutants to the waters of the United States and which has not otherwise been addressed in the SPPP; or

2. The SPPP proves to be ineffective in:

   a. Eliminating or significantly minimizing pollutants from sources identified in the SPPP and as required by this permit; or

   b. Achieving the general objectives of controlling pollutants in stormwater discharges from permitted construction activity; and

3. Additionally, the SPPP shall be amended to identify any new contractor or subcontractor that will implement any measure of the SPPP.

MODIFICATION & REASON:

MONTHLY SUMMARY OF SITE INSPECTION ACTIVITIES

Name of Permitted Facility:	Today's Date:	Reporting Month:
Location:	Permit Identification No.	
Name and Telephone of Site Inspector:		

Date of Inspection:	Regular/Rainfall based Inspection	Name of Inspector	Items of Concern:

Infiltration Trench Operation, Maintenance, and Management Inspection Checklist

Project:
Location:
Site Status:

Date:

Time:

Inspector:

MAINTENANCE ITEM	SATISFACTORY / UNSATISFACTORY	COMMENTS
1. Debris Cleanout (Monthly)		
Trench surface clear of debris		
Inflow pipes clear of debris		
Overflow spillway clear of debris		
Inlet area clear of debris		
2. Sediment Traps or Forebays (Annual)		
Obviously trapping sediment		
Greater than 50% of storage volume remaining		
3. Dewatering (Monthly)		
Trench dewaters between storms		
4. Sediment Cleanout of Trench (Annual)		
No evidence of sedimentation in trench		
Sediment accumulation doesn't yet require cleanout		
5. Inlets (Annual)		

MAINTENANCE ITEM	SATISFACTORY / UNSATISFACTORY	COMMENTS
Good condition		
No evidence of erosion		
6. Outlet/Overflow Spillway (Annual)		
Good condition, no need for repair		
No evidence of erosion		
7. Aggregate Repairs (Annual)		
Surface of aggregate clean		
Top layer of stone does not need replacement		
Trench does not need rehabilitation		

Comments:

Actions to be Taken:

APPENDIX C

MAINTENANCE SCHEDULES

Temporary

Permanent

Maintenance Schedule – During Construction – Temporary Structures

``	Component	MINIMUM Inspection Required	After Every Storm Event	Item to Inspect	Sediment Removal Req'd	Special Inspection Items **Inspect the following:**	Maintenance and sediment removal
1	Construction Entrance	Weekly	X	Stone Placement	None	Stone Placement & soil deposit between stones	Repair Top Dressing with additional aggregate and correct stone placement.
2	Silt Fence	Bi-Weekly	X	Woven Wire Fence Alignment	Yes	Woven Wire & Fence Stability	Remove material when a "bulge" develops, ensure fence extends into soil and fence upright, staple fencing
3	Topsoil Stockpile Area	Bi-Weekly	X	Soil Pile Condition	None	Silt Fence at Base of Pile to be inspected and seeding reviewed.	Remove material when a "bulge" develops, ensure fence extends into soil and fence is upright, staple fencing
4	Diversion Swale	Weekly	X	Swale's water capacity	Yes	Side slopes & Bottom to be clean, no erosion or breaks	On Bi-weekly basis, clean swale of debris, fix channel and side slopes, ensure no blow outs
5	Yard Drain Protection (Block & Gravel)	Weekly	X	Gravel & Sediment Placement or silt fence	Yes	Gravel & block placement around perimeter of catch basin	On Bi-weekly basis, remove sediment and fix block placement
6	Construction Fence	Bi-Weekly		Fence woven wire condition	None	Fence posts and grid	Fix fence upright and staple as required to ensure integrity.
7	Stone Check Dams	Bi-Weekly	X	Stone Placement & Location	Yes	Stone & Sediment Accumulation	Bi-weekly, remove sediment, set stones to correct profile, fix any swale/berm blow-outs
8	Temporary Water Bars	Bi-Weekly	X	Condition & sediment & outlet areas	Yes	Local Erosion & Debris	On Bi-weekly basis, remove sediment
9	Temporary Staging Area	Bi-Weekly		Present Location	None	Local Erosion & Debris	N/A

Maintenance Schedule – Common - Permanent Structures

Erosion Control #	Component	Inspections Required: Upon Installation	Inspections Required: Permanent Schedule	Inspections Required: Items to Inspect	Mowing Schedule		Sediment Removal	Schedule (Years)	Outlet - Structure	Schedule	Planting - Supplemental	Schedule	Erosion or Displacement - Task	
1	Rip rap Outlet Apron	X	Weekly	Rock Displacement	n/a		Remove trapped soils within rock pad	Semi-Annual	Clear outlet of any debris	Semi-Annual	n/a		2 Years	Fix stone placement
2	Swales – Grass	X	Weekly	Stone Check Dams Rock Displacement	Side Slope Channel Water Passage	1st Week June/Sept. 4"to 6" grass height	To Swale Dimensions	Annual	N/A	N/A	For Grass Swale	If eroded or Annually	Bi-annual inspect	Fix with topsoil and seed or gravel
3	Yard Drain	X	Monthly	Sediment & Debris	N/A		Sediment & Oil	Annual	Clear Outlet Pipe	Monthly	N/A		Monthly	RIM Deflection SHIM as required
4	Infiltration Basins	X	Monthly	Refer to DEC Appendix G Enclosed in SWPPP	Berm & Bottom	1st Week June/Sept.	Inlet Piping/Trench Dewatering	Monthly	Debris Removal Clogging	Monthly	GrassRepair Berm	1st year 2nd year Annually	Ponding Water * Bi-annual inspect.	Repair area & Replant Seed

* If there is Ponding for over 48 Hours Remove & Replace top 2 inches of Discolored Material.
For infiltration basin (ponding evident), install perforated pipe and valve.

APPENDIX D

NOI APPLICATION
NYSDEC

0644089821

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)
Thomas Miressi

Owner/Operator Contact Person Last Name (NOT CONSULTANT)
Miressi

Owner/Operator Contact Person First Name
Thomas

Owner/Operator Mailing Address
494 North Broadway

City
White Plains

State
NY

Zip
10603-____

Phone (Owner/Operator)
917-532-7238

Fax (Owner/Operator)
___-___-____

Email (Owner/Operator)
luigie@aol.com

FED TAX ID
__-_____ (not required for individuals)

Project Site Information

Project/Site Name
535 Jerome Ave

Street Address (NOT P.O. BOX)
535 Jerome Ave.

Side of Street
○ **North** ● **South** ○ **East** ○ **West**

City/Town/Village (THAT ISSUES BUILDING PERMIT)
Yorktown Heights

State: NY
Zip: 10598-
County: Westchester
DEC Region: 3

Name of Nearest Cross Street
Starlight Street

Distance to Nearest Cross Street (Feet)
1200

Project In Relation to Cross Street
○ **North** ○ **South** ○ **East** ● **West**

Tax Map Numbers
Section-Block-Parcel
59.10-1-10.1

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/imsmaps/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): 601824

Y Coordinates (Northing): 4565855

2. What is the nature of this construction project?

● **New Construction**

○ **Redevelopment with increase in impervious area**

○ **Redevelopment with no increase in impervious area**

3. Select the predominant land use for both pre and post development conditions.
SELECT ONLY ONE CHOICE FOR EACH

Pre-Development Existing Land Use

- (●) FOREST
- ( ) PASTURE/OPEN LAND
- ( ) CULTIVATED LAND
- ( ) SINGLE FAMILY HOME
- ( ) SINGLE FAMILY SUBDIVISION
- ( ) TOWN HOME RESIDENTIAL
- ( ) MULTIFAMILY RESIDENTIAL
- ( ) INSTITUTIONAL/SCHOOL
- ( ) INDUSTRIAL
- ( ) COMMERCIAL
- ( ) ROAD/HIGHWAY
- ( ) RECREATIONAL/SPORTS FIELD
- ( ) BIKE PATH/TRAIL
- ( ) LINEAR UTILITY
- ( ) PARKING LOT
- ( ) OTHER

Post-Development Future Land Use

- (●) SINGLE FAMILY HOME — Number of Lots
- ( ) SINGLE FAMILY SUBDIVISION
- ( ) TOWN HOME RESIDENTIAL
- ( ) MULTIFAMILY RESIDENTIAL
- ( ) INSTITUTIONAL/SCHOOL
- ( ) INDUSTRIAL
- ( ) COMMERCIAL
- ( ) MUNICIPAL
- ( ) ROAD/HIGHWAY
- ( ) RECREATIONAL/SPORTS FIELD
- ( ) BIKE PATH/TRAIL
- ( ) LINEAR UTILITY (water, sewer, gas, etc.)
- ( ) PARKING LOT
- ( ) CLEARING/GRADING ONLY
- ( ) DEMOLITION, NO REDEVELOPMENT
- ( ) WELL DRILLING ACTIVITY *(Oil, Gas, etc.)
- ( ) OTHER

***Note:** for gas well drilling, non-high volume hydraulic fractured wells only

4. In accordance with the larger common plan of development or sale, enter the total project site area; the total area to be disturbed; existing impervious area to be disturbed (for redevelopment activities); and the future impervious area constructed within the disturbed area. (Round to the nearest tenth of an acre.)

Total Site Area	Total Area To Be Disturbed	Existing Impervious Area To Be Disturbed	Future Impervious Area Within Disturbed Area
4.3	1.8	0.0	0.3

5. Do you plan to disturb more than 5 acres of soil at any one time? ( ) **Yes** (●) **No**

6. Indicate the percentage of each Hydrologic Soil Group(HSG) at the site.

A	B	C	D
%	100 %	%	%

7. Is this a phased project? ( ) **Yes** (●) **No**

8. Enter the planned start and end dates of the disturbance activities.

Start Date 12/20/2020 – **End Date** 12/20/2021

8600089821

9. Identify the nearest surface waterbody(ies) to which construction site runoff will discharge.

Name

New Croton Reservoir

9a. Type of waterbody identified in Question 9?

- ○ Wetland / State Jurisdiction On Site (Answer 9b)
- ○ Wetland / State Jurisdiction Off Site
- ○ Wetland / Federal Jurisdiction On Site (Answer 9b)
- ○ Wetland / Federal Jurisdiction Off Site
- ○ Stream / Creek On Site
- ○ Stream / Creek Off Site
- ○ River On Site
- ○ River Off Site
- ○ Lake On Site
- ● Lake Off Site
- ○ Other Type On Site
- ○ Other Type Off Site

9b. How was the wetland identified?

- ○ Regulatory Map
- ○ Delineated by Consultant
- ○ Delineated by Army Corps of Engineers
- ○ Other (identify)

10. Has the surface waterbody(ies) in question 9 been identified as a 303(d) segment in Appendix E of GP-0-15-002? ○ **Yes** ● **No**

11. Is this project located in one of the Watersheds identified in Appendix C of GP-0-15-002? ● **Yes** ○ **No**

12. Is the project located in one of the watershed areas associated with AA and AA-S classified waters? ○ **Yes** ● **No**
If no, skip question 13.

13. Does this construction activity disturb land with no existing impervious cover and where the Soil Slope Phase is identified as an E or F on the USDA Soil Survey? ○ **Yes** ● **No**
If Yes, what is the acreage to be disturbed?

14. Will the project disturb soils within a State regulated wetland or the protected 100 foot adjacent area? ○ **Yes** ● **No**

15. Does the site runoff enter a separate storm sewer system (including roadside drains, swales, ditches, culverts, etc)? ○ Yes ● No ○ Unknown

16. What is the name of the municipality/entity that owns the separate storm sewer system?

17. Does any runoff from the site enter a sewer classified as a Combined Sewer? ○ Yes ● No ○ Unknown

18. Will future use of this site be an agricultural property as defined by the NYS Agriculture and Markets Law? ○ Yes ● No

19. Is this property owned by a state authority, state agency, federal government or local government? ○ Yes ● No

20. Is this a remediation project being done under a Department approved work plan? (i.e. CERCLA, RCRA, Voluntary Cleanup Agreement, etc.) ○ Yes ● No

21. Has the required Erosion and Sediment Control component of the SWPPP been developed in conformance with the current NYS Standards and Specifications for Erosion and Sediment Control (aka Blue Book)? ● Yes ○ No

22. Does this construction activity require the development of a SWPPP that includes the post-construction stormwater management practice component (i.e. Runoff Reduction, Water Quality and Quantity Control practices/techniques)? ● Yes ○ No
If No, skip questions 23 and 27-39.

23. Has the post-construction stormwater management practice component of the SWPPP been developed in conformance with the current NYS Stormwater Management Design Manual? ● Yes ○ No

0251089825

24. The Stormwater Pollution Prevention Plan (SWPPP) was prepared by:

- ● **Professional Engineer (P.E.)**
- ○ **Soil and Water Conservation District (SWCD)**
- ○ **Registered Landscape Architect (R.L.A)**
- ○ **Certified Professional in Erosion and Sediment Control (CPESC)**
- ○ **Owner/Operator**
- ○ **Other**

SWPPP Preparer

P.W.Scott

Contact Name (Last, Space, First)

Scott, , Peder

Mailing Address

3871 Danbury Road

City

Brewter

State NY Zip 10509-

Phone 845-278-2110

Fax --

Email

pwscott@pwscott.com

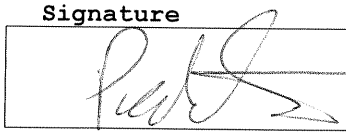
SWPPP Preparer Certification

I hereby certify that the Stormwater Pollution Prevention Plan (SWPPP) for this project has been prepared in accordance with the terms and conditions of the GP-0-15-002. Furthermore, I understand that certifying false, incorrect or inaccurate information is a violation of this permit and the laws of the State of New York and could subject me to criminal, civil and/or administrative proceedings.

First Name Peder **MI** W

Last Name Scott

Signature



Date 11/16/2020

25. Has a construction sequence schedule for the planned management practices been prepared? ○ Yes ○ No

26. Select **all** of the erosion and sediment control practices that will be employed on the project site:

Temporary Structural

- ● Check Dams
- ○ Construction Road Stabilization
- ● Dust Control
- ○ Earth Dike
- ○ Level Spreader
- ○ Perimeter Dike/Swale
- ○ Pipe Slope Drain
- ○ Portable Sediment Tank
- ○ Rock Dam
- ○ Sediment Basin
- ○ Sediment Traps
- ● Silt Fence
- ○ Stabilized Construction Entrance
- ● Storm Drain Inlet Protection
- ○ Straw/Hay Bale Dike
- ○ Temporary Access Waterway Crossing
- ○ Temporary Stormdrain Diversion
- ● Temporary Swale
- ○ Turbidity Curtain
- ● Water bars

Biotechnical

- ○ Brush Matting
- ○ Wattling

Vegetative Measures

- ○ Brush Matting
- ○ Dune Stabilization
- ● Grassed Waterway
- ● Mulching
- ○ Protecting Vegetation
- ○ Recreation Area Improvement
- ● Seeding
- ○ Sodding
- ○ Straw/Hay Bale Dike
- ○ Streambank Protection
- ○ Temporary Swale
- ● Topsoiling
- ○ Vegetating Waterways

Permanent Structural

- ○ Debris Basin
- ○ Diversion
- ○ Grade Stabilization Structure
- ● Land Grading
- ○ Lined Waterway (Rock)
- ○ Paved Channel (Concrete)
- ○ Paved Flume
- ○ Retaining Wall
- ○ Riprap Slope Protection
- ● Rock Outlet Protection
- ○ Streambank Protection

Other

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

[ ][ ][ ].[0][8][5] **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.

7738089822

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

RR Techniques (Area Reduction)	Total Contributing Area (acres)		Total Contributing Impervious Area (acres)
○ Conservation of Natural Areas (RR-1)		and/or	
○ Sheetflow to Riparian Buffers/Filters Strips (RR-2)	0.644	and/or	0.0
○ Tree Planting/Tree Pit (RR-3)		and/or	
○ Disconnection of Rooftop Runoff (RR-4)		and/or	

RR Techniques (Volume Reduction)	
○ Vegetated Swale (RR-5)	
○ Rain Garden (RR-6)	
○ Stormwater Planter (RR-7)	
○ Rain Barrel/Cistern (RR-8)	
○ Porous Pavement (RR-9)	
○ Green Roof (RR-10)	

Standard SMPs with RRv Capacity	
● Infiltration Trench (I-1)	0.31
○ Infiltration Basin (I-2)	
○ Dry Well (I-3)	
○ Underground Infiltration System (I-4)	
○ Bioretention (F-5)	
○ Dry Swale (O-1)	

Standard SMPs	
○ Micropool Extended Detention (P-1)	
○ Wet Pond (P-2)	
○ Wet Extended Detention (P-3)	
○ Multiple Pond System (P-4)	
○ Pocket Pond (P-5)	
○ Surface Sand Filter (F-1)	
○ Underground Sand Filter (F-2)	
○ Perimeter Sand Filter (F-3)	
○ Organic Filter (F-4)	
○ Shallow Wetland (W-1)	
○ Extended Detention Wetland (W-2)	
○ Pond/Wetland System (W-3)	
○ Pocket Wetland (W-4)	
○ Wet Swale (O-2)	

Table 2 - Alternative SMPs (DO NOT INCLUDE PRACTICES BEING USED FOR PRETREATMENT ONLY)

Alternative SMP	Total Contributing Impervious Area (acres)
○ **Hydrodynamic**	
○ **Wet Vault**	
○ **Media Filter**	
○ **Other**	

Provide the name and manufacturer of the Alternative SMPs (i.e. proprietary practice(s)) being used for WQv treatment.

Name

Manufacturer

Note: Redevelopment projects which do not use RR techniques, shall use questions 28, 29, 33 and 33a to provide SMPs used, total WQv required and total WQv provided for the project.

30. Indicate the Total RRv provided by the RR techniques (Area/Volume Reduction) and Standard SMPs with RRv capacity identified in question 29.

Total RRv provided

0.031 **acre-feet**

31. Is the Total RRv provided (#30) greater than or equal to the total WQv required (#28).

○ **Yes** ● **No**

If Yes, go to question 36.
If No, go to question 32.

32. Provide the Minimum RRv required based on HSG.
[Minimum RRv Required = (P)(0.95)(Ai)/12, Ai=(S)(Aic)]

Minimum RRv Required

0.041 **acre-feet**

32a. Is the Total RRv provided (#30) greater than or equal to the Minimum RRv Required (#32)?

● **Yes** ○ **No**

If Yes, go to question 33.
Note: Use the space provided in question #39 to summarize the specific site limitations and justification for not reducing 100% of WQv required (#28). A detailed evaluation of the specific site limitations and justification for not reducing 100% of the WQv required (#28) must also be included in the SWPPP.
If No, sizing criteria has not been met, so NOI can not be processed. SWPPP preparer must modify design to meet sizing criteria.

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

0.085 **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).

0.085

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

0.084 **acre-feet**

CPv Provided

0.084 **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

4.03 **CFS**

Post-development

2.37 **CFS**

Total Extreme Flood Control Criteria (Qf)

Pre-Development

15.7 **CFS**

Post-development

15.7 **CFS**

37a. The need to meet the Qp and Qf criteria has been waived because:

- ○ Site discharges directly to tidal waters or a fifth order or larger stream.
- ○ Downstream analysis reveals that the Qp and Qf controls are not required

38. Has a long term Operation and Maintenance Plan for the post-construction stormwater management practice(s) been developed? ● Yes ○ No

If Yes, Identify the entity responsible for the long term Operation and Maintenance

Thomas Miressi

39. Use this space to summarize the specific site limitations and justification for not reducing 100% of WQv required(#28). (See question 32a) This space can also be used for other pertinent project information.

Infiltration of 90% WQv is achieved. /The remaining 10% is treated.

40. Identify other DEC permits, existing and new, that are required for this project/facility.

- ○ Air Pollution Control
- ○ Coastal Erosion
- ○ Hazardous Waste
- ○ Long Island Wells
- ○ Mined Land Reclamation
- ○ Solid Waste
- ○ Navigable Waters Protection / Article 15
- ○ Water Quality Certificate
- ○ Dam Safety
- ○ Water Supply
- ○ Freshwater Wetlands/Article 24
- ○ Tidal Wetlands
- ○ Wild, Scenic and Recreational Rivers
- ○ Stream Bed or Bank Protection / Article 15
- ○ Endangered or Threatened Species(Incidental Take Permit)
- ● Individual SPDES
- ○ SPDES Multi-Sector GP [N][Y][R][ ][ ][ ][ ][ ][ ]
- ○ Other [ ]
- ○ None

41. Does this project require a US Army Corps of Engineers Wetland Permit? ○ **Yes** ● **No**
If Yes, Indicate Size of Impact. [ ][ ][ ][ ][ ][ ].[ ]

42. Is this project subject to the requirements of a regulated, traditional land use control MS4? ● **Yes** ○ **No**
(If No, skip question 43)

43. Has the "MS4 SWPPP Acceptance" form been signed by the principal executive officer or ranking elected official and submitted along with this NOI? ● **Yes** ○ **No**

44. If this NOI is being submitted for the purpose of continuing or transferring coverage under a general permit for stormwater runoff from construction activities, please indicate the former SPDES number assigned. [N][Y][R][ ][ ][ ][ ][ ][ ]

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

Thomas

MI

Print Last Name

Miressi

Owner/Operator Signature

Date

11/16/2020

APPENDIX E

MS4 ACCEPTANCE FORM

NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

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

MS4 Stormwater Pollution Prevention Plan (SWPPP) Acceptance Form

for

Construction Activities Seeking Authorization Under SPDES General Permit

*(NOTE: Attach Completed Form to Notice Of Intent and Submit to Address Above)

I. Project Owner/Operator Information	
1. Owner/Operator Name:	Thomas Miressi
2. Contact Person:	Peder Scott, C/o PW Scott Eng & Arch,PC
3. Street Address:	3871 Danbury Road
4. City/State/Zip:	Brewster, NY 10509
II. Project Site Information	
5. Project/Site Name:	535 Jerome Ave,
6. Street Address:	Yorktown Heights
7. City/State/Zip:	NY 10598
III. Stormwater Pollution Prevention Plan (SWPPP) Review and Acceptance Information	
8. SWPPP Reviewed by:	
9. Title/Position:	
10. Date Final SWPPP Reviewed and Accepted:	
IV. Regulated MS4 Information	
11. Name of MS4:	
12. MS4 SPDES Permit Identification Number: NYR20A	
13. Contact Person:	
14. Street Address:	
15. City/State/Zip:	
16. Telephone Number:	

MS4 SWPPP Acceptance Form - continued

V. Certification Statement - MS4 Official (principal executive officer or ranking elected official) or Duly Authorized Representative

I hereby certify that the final Stormwater Pollution Prevention Plan (SWPPP) for the construction project identified in question 5 has been reviewed and meets the substantive requirements in the SPDES General Permit For Stormwater Discharges from Municipal Separate Storm Sewer Systems (MS4s). Note: The MS4, through the acceptance of the SWPPP, assumes no responsibility for the accuracy and adequacy of the design included in the SWPPP. In addition, review and acceptance of the SWPPP by the MS4 does not relieve the owner/operator or their SWPPP preparer of responsibility or liability for errors or omissions in the plan.

Printed Name:

Title/Position:

Signature:

Date:

VI. Additional Information

(NYS DEC - MS4 SWPPP Acceptance Form - January 2015)

APPENDIX F

SHORT FORM EAF
FOR SINGLE LOT

Short Environmental Assessment Form
Part 1 - Project Information

Instructions for Completing

Part 1 – Project Information. The applicant or project sponsor is responsible for the completion of Part 1. Responses become part of the application for approval or funding, are subject to public review, and may be subject to further verification. Complete Part 1 based on information currently available. If additional research or investigation would be needed to fully respond to any item, please answer as thoroughly as possible based on current information.

Complete all items in Part 1. You may also provide any additional information which you believe will be needed by or useful to the lead agency; attach additional pages as necessary to supplement any item.

Part 1 – Project and Sponsor Information

Name of Action or Project:
535 Jerome Road

Project Location (describe, and attach a location map):
535 Jerome Road South side of road, 1/4 from intersection

Brief Description of Proposed Action:
Construction of a single family house with driveway, individual septic and well
House footprint: 4,800 SF (2) Decks: 600SF
Pool Area: 1,300 SF

Name of Applicant or Sponsor:	Telephone: 917-532-7238
Thomas Miressi	E-Mail: Luigie@aol.com

Address:
499 West Broadway

City/PO:	State:	Zip Code:
White Plains	NY	10603

	NO	YES
1. Does the proposed action only involve the legislative adoption of a plan, local law, ordinance, administrative rule, or regulation? If Yes, attach a narrative description of the intent of the proposed action and the environmental resources that may be affected in the municipality and proceed to Part 2. If no, continue to question 2.	☑	☐
2. Does the proposed action require a permit, approval or funding from any other government Agency? If Yes, list agency(s) name and permit or approval: WCDOH - Septic/well Permit, NYCDEP- Verification of SWPPP Compliance, Town of Yorktown-Building Department, Driveway permit,	☐	☑

3. a. Total acreage of the site of the proposed action? 4.3 acres
   b. Total acreage to be physically disturbed? 1.77 acres
   c. Total acreage (project site and any contiguous properties) owned or controlled by the applicant or project sponsor? 7.4 acres

4. Check all land uses that occur on, are adjoining or near the proposed action:
   ☐ Urban ☐ Rural (non-agriculture) ☐ Industrial ☐ Commercial ☐ Residential (suburban)
   ☑ Forest ☐ Agriculture ☐ Aquatic ☐ Other(Specify):
   ☐ Parkland

	NO	YES	N/A
5. Is the proposed action,			
a. A permitted use under the zoning regulations?	☐	☑	☐
b. Consistent with the adopted comprehensive plan?	☐	☑	☐

	NO	YES
6. Is the proposed action consistent with the predominant character of the existing built or natural landscape?	☐	☑

	NO	YES
7. Is the site of the proposed action located in, or does it adjoin, a state listed Critical Environmental Area?		
If Yes, identify: _____	☑	☐

	NO	YES
8. a. Will the proposed action result in a substantial increase in traffic above present levels?	☑	☐
b. Are public transportation services available at or near the site of the proposed action?	☑	☐
c. Are any pedestrian accommodations or bicycle routes available on or near the site of the proposed action?	☐	☑

	NO	YES
9. Does the proposed action meet or exceed the state energy code requirements?		
If the proposed action will exceed requirements, describe design features and technologies:	☐	☑

	NO	YES
10. Will the proposed action connect to an existing public/private water supply?		
If No, describe method for providing potable water: Individual Well	☑	☐

	NO	YES
11. Will the proposed action connect to existing wastewater utilities?		
If No, describe method for providing wastewater treatment: Individual OWTS	☑	☐

	NO	YES
12. a. Does the project site contain, or is it substantially contiguous to, a building, archaeological site, or district which is listed on the National or State Register of Historic Places, or that has been determined by the Commissioner of the NYS Office of Parks, Recreation and Historic Preservation to be eligible for listing on the State Register of Historic Places?	☑	☐
b. Is the project site, or any portion of it, located in or adjacent to an area designated as sensitive for archaeological sites on the NY State Historic Preservation Office (SHPO) archaeological site inventory?	☑	☐

	NO	YES
13. a. Does any portion of the site of the proposed action, or lands adjoining the proposed action, contain wetlands or other waterbodies regulated by a federal, state or local agency?	☑	☐
b. Would the proposed action physically alter, or encroach into, any existing wetland or waterbody?	☑	☐
If Yes, identify the wetland or waterbody and extent of alterations in square feet or acres: _____		

14. Identify the typical habitat types that occur on, or are likely to be found on the project site. Check all that apply:

☐ Shoreline ☑ Forest ☐ Agricultural/grasslands ☐ Early mid-successional

☐ Wetland ☐ Urban ☐ Suburban

	NO	YES
15. Does the site of the proposed action contain any species of animal, or associated habitats, listed by the State or Federal government as threatened or endangered? Brown Bats – Summer Hibernation	☐	☑
16. Is the project site located in the 100-year flood plan?	☑	☐
17. Will the proposed action create storm water discharge, either from point or non-point sources?	☐	☑
If Yes, a. Will storm water discharges flow to adjacent properties?	☐	☑
b. Will storm water discharges be directed to established conveyance systems (runoff and storm drains)?	☑	☐
If Yes, briefly describe:		
18. Does the proposed action include construction or other activities that would result in the impoundment of water or other liquids (e.g., retention pond, waste lagoon, dam)? If Yes, explain the purpose and size of the impoundment: Infiltration Basin: 33' x 85'	☐	☑
19. Has the site of the proposed action or an adjoining property been the location of an active or closed solid waste management facility? If Yes, describe:	☑	☐
20.Has the site of the proposed action or an adjoining property been the subject of remediation (ongoing or completed) for hazardous waste? If Yes, describe:	☑	☐

I CERTIFY THAT THE INFORMATION PROVIDED ABOVE IS TRUE AND ACCURATE TO THE BEST OF MY KNOWLEDGE

Applicant/sponsor/name: Peder W. Scott Date: 11/16/2020

Signature: Title: Professional Engineeer

PRINT FORM

APPENDIX G

LONG TERM MAINTENANCE AGREEMENT

Declaration of Covenants, Restrictions and Maintenance Obligations
(Pending Upon review of Attorney)

Long Term Management Operations and Maintenance Reference Guideline

The following items document requirements of this SWPPP and the Approved Covenant:

Refer to the following items:
Section 9.0 and Specifically 9.3 – Post Construction Operation and Maintenance
Appendix B: Inspection and Maintenance Forms
Appendix C: Maintenance Schedule – Temporary and Permanent
Appendix G: Long Term Operations and Maintenance Covenant

Drawings:
Drawing SY1: Erosion Control Plan: includes Appendix E Schedules
Figure 3.0: SWPPP Overlay

Site Maintenance

1. Litter and debris will be removed from parking courtyard and driveway. Sand or silt from parking lot shall be removed if it exceeds 1 inch to protect Infiltration Basin filter.
2. The storm water management system should be inspected after each major storm event (greater than 2-year, 24-hour storm) to ensure infiltration outlet structure remains clear.
3. Any settlement within lawn areas shall be corrected with topsoil with seed and mulch.
4. All planting shall be inspected each year and replaced as necessary for a period of 3 years to maintain 80% survival rate.
5. Infiltration Basin follows the Maintenance Inspection Protocol of 9.3.4.
6. Site shall be maintained with lawn mowing, tree trimming, and leaf clean-up as is necessary for an acceptable school environment.

MAPS

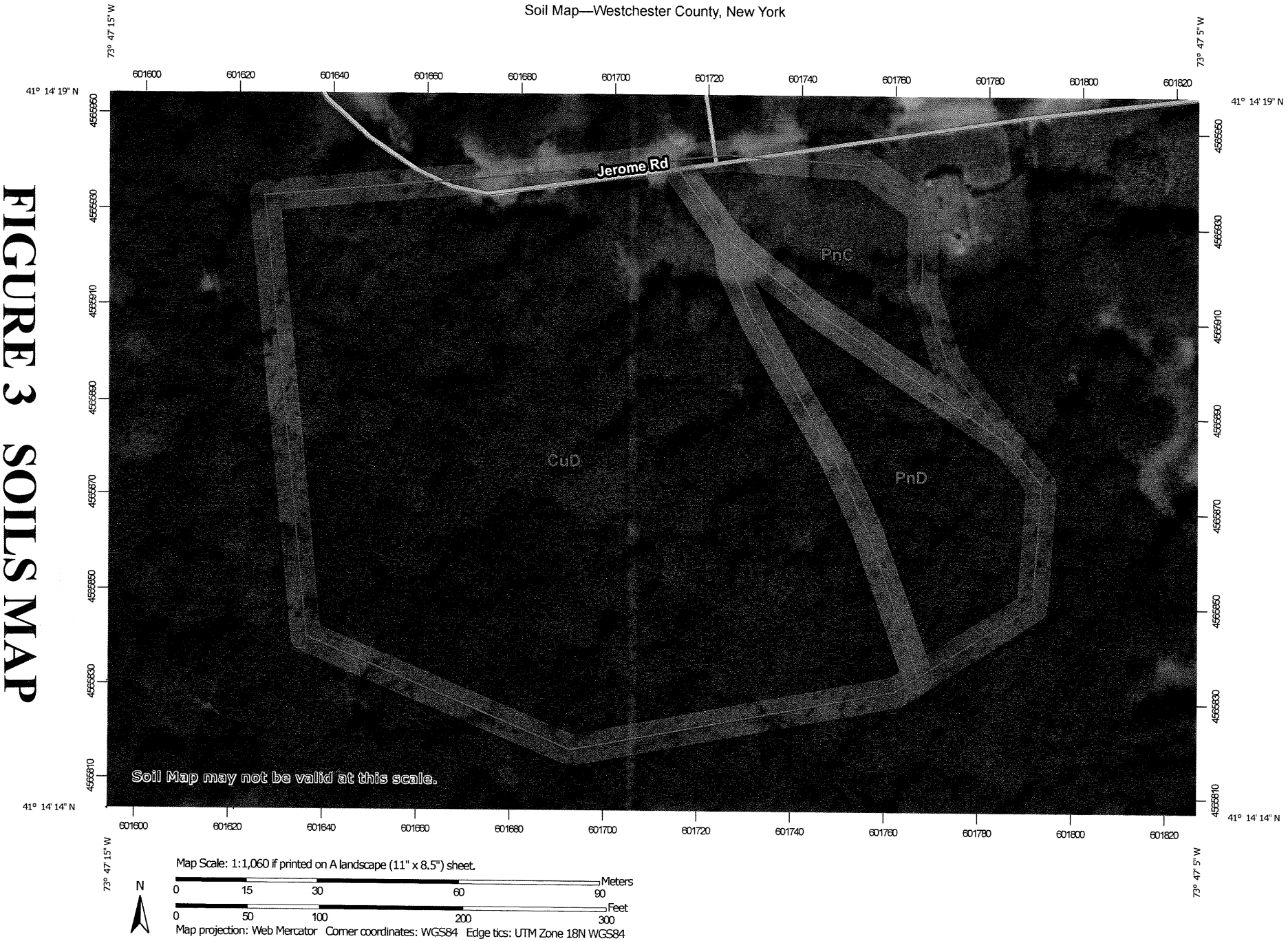
Figure 1:	Aerial Map
Figure 2:	NYSDEC Mapper
Figure 3:	Soils Map
Map:	Stahmer Subdivision
Drawing:	SY1 Construction Site Plan
	D1 Drainage Overlay D1

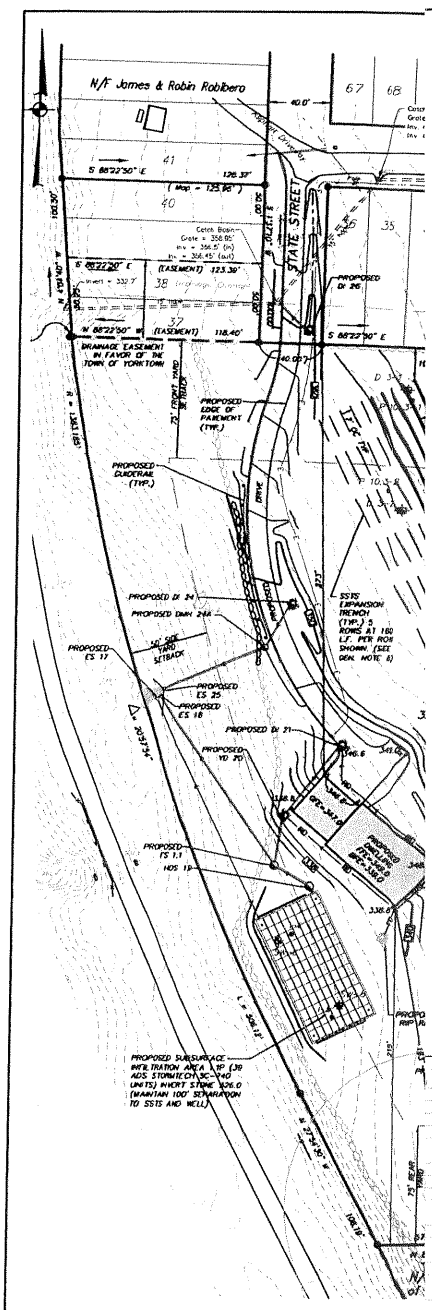
FIGURE 1 AERIAL MAP

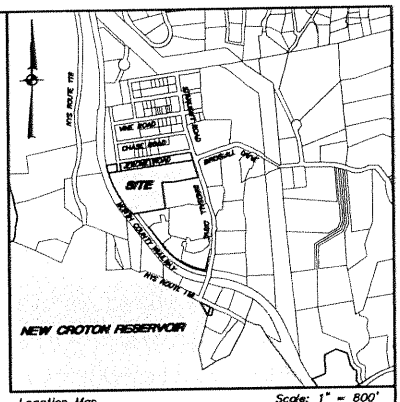
NYSDEC MAPPER

FIGURE 2 NYSDEC MAPPER

FIGURE 3 SOILS MAP







Location Map Scale: 1" = 800'

Owner/Applicant:

Robert H Stahmer
610 Birdsall Drive
Yorktown Heights, New York 10598

Site Data:

Zone: R1-80 Residential
Total Acreage 10.0 AC±
Tax Map No.: 58.10-1-10, 12 & 16

General Notes:

1. Property line and existing features shown hereon obtained from final plat subdivision of property prepared by Baxter Land Surveying dated 7-13-15.
2. Topography shown hereon is based upon aerial photogrammetry provided by Baxter Land Surveying. The contour interval is 2'.
3. There are no wells within 200' of OWTS unless otherwise shown on plan.
4. There are no OWTS's within 200' of a proposed wet unless otherwise shown on plan.
5. No soil stockpiles, materials or equipment will be stored in areas to be used for the stormwater infiltration practice and for the subsurface sewage treatment system.
6. The subdivision Stormwater Pollution Prevention Plan has been designed to treat:
   0.3 Ac. of impervious surfaces on Lot 1
   0.3 Ac. of impervious surfaces on Lot 2
   0.2 Ac. of impervious surfaces on Lot 3
7. The electric and communication utilities shall be installed in accordance with the utility provider specifications including but not limited to provided the proper bedding, cover, and detectible warning tape / tracer wire.
8. Primary and absorption trenches have been shown for subdivision purposes only. A site specific SSTS Design must be submitted to WCDOH at the time of individual lot construction.
9. The rim elevation of the existing catch basin was determined by interpolating existing topographic information. The invert was determined by field measurements between the rim and invert and relating the invert to the interpolated rim elevation.

R1-80 Zone Requirements:

	Required:	LOT 1	LOT 2	LOT 3
Lot Area: (sf)	80,000	117,530	186,500	133,470
Lot Width At Main Bldg Line: (ft)	200'	234'±	276'±	236'±
Lot Depth: (ft)	200'	510'±	561'±	571'±
Front Yard: (ft)				
Birdsall Drive	75'	273'±		
Jerome Road	100'(1)		320'±	273'±
Side Yard: (ft)				
Main or Accessory Bldg., Minimum Either Side	30'	56'	61'±	65'±
Two Combined	80'	140'±	195'±	133'±
Accessory Bldg. If In Rear Yard, Minimum Either Side	10'	N/A	N/A	N/A
Rear Yard: (ft)				
Main Bldg.	75'	194'±	258'±	215'±
Accessory Bldg. or Structure	10'	N/A	N/A	N/A
Maximum Height: (ft)				
Main Bldg.	35'	<35'	<35'	<35'
Accessory Bldg.	15'	N/A	N/A	N/A
Minimum Useable Floor Area of Dwelling Unit: (sf)	1,200	2,100 (AS SHOWN)	2,100 (AS SHOWN)	2,100 (AS SHOWN)
Maximum Bldg. Coverage (All Buildings)	10%	2.5% ± (AS SHOWN)	1.6% ± (AS SHOWN)	2.4% ± (AS SHOWN)
Required Off-Street Parking Spaces Per Dwelling Unit	1	2	2	2
Road Frontage: (ft)	200'	235'±	50' (2)	140'± (2)

(1) ON STREETS WITH LESS THAN 50-FOOT RIGHT-OF-WAY, THE FRONT YARD SETBACK SHALL BE MEASURED FROM THE CENTER LINE OF THE EXISTING ROADWAY AND 25 FEET SHALL BE ADDED TO THE REQUIRED FRONT YARD SETBACK.
(2) ZONING VARIANCES FOR FRONTAGE FOR LOTS 2 & 3 GRANTED BY ZONING BOARD OF APPEALS ON 4-27-2006 RESOLUTION #22/06.

SSTS PERCOLATION TEST RESULTS

LOT 1
(TESTING PERFORMED 8-4-10 BY JACK GOLDSTEIN, P.E. AND WITNESSED BY WCDOH)
P 10.1-1 11 MIN./IN.
P 10.1-2 30 MIN./IN.
P 10.1-3 30 MIN./IN.

LOT 2
(TESTING PERFORMED BY INSITE ENGINEERING, SURVEYING & LANDSCAPE ARCHITECT ON 9-13-2017)
P 2-1 15 MIN./IN.
P 2-2 15 MIN./IN.
P 2-3 15 MIN./IN.

LOT 3
(TESTING PERFORMED 7-30-10 BY JACK GOLDSTEIN, P.E. AND WITNESSED BY WCDOH)
P 10.3-1 42 MIN./IN.
P 10.3-2 30 MIN./IN.
P 10.3-3 31 MIN./IN.

STORMWATER MA

DEEP TEST PERFORMED ON INSITE ENGINEERING, SURVE

NOTE: NO GROUNDWATER, UNLESS NOTED.

SW 1: 0"-6": TOPSOI
6"-144": COMPA GROUNDWATER SEEP GROUNDWATER OR LI

SW 2: 0"-6": TOPSOI
6"-80": LIGHT I SPOT MOTTLING OBSE NO GROUNDWATER O

SW 3: 0"-6": TOPSOI
6"-96": LIGHT B SPOT MOTTLING OBSE NO GROUNDWATER O

SW 4: 0"-6": TOPSOI
6"-86": LIGHT B SPOT MOTTLING OBSE NO GROUNDWATER O

SW 5: 0"-6": TOPSOI
6"-108": COMPAC OR SILT
108"-120": MOTTLED SILT
MOTTLING @ 108"
NO GROUNDWATER OR

SW 6: 0"-6": TOPSOI
6"-54": MEDIUM AND TR
54"-96": COMPAC WITH SIL
96"-120": DARK G
120"-126": DARK G
MOTTLING @ 126"
NO GROUNDWATER OR

SW 7: 0"-3": TOPSOI
3"-42": LIGHT BR TYPE SA
42"-90": COMPAC TRACE G
MOTTLING @ 90"
NO GROUNDWATER OR

GRAPHIC SCALE

40 0 20 40 80 160

(IN FEET)
1 inch = 40 ft

LEGEND

- PROPOSED PROPERTY LINE
- PROPERTY LINE
- EXISTING STONE WALL
- EXISTING 2' CONTOUR
- EXISTING 10' CONTOUR
- PROPOSED EDGE OF PAVEMENT
- PROPOSED BELGIUM BLOCK CURB
- 280 PROPOSED 10' CONTOUR
- 282 PROPOSED 2' CONTOUR
- RD PROPOSED 4" PVC SDR 35 ROOF LEADER DRAIN
- FD PROPOSED 4" PVC SDR 35 FOOTING DRAIN
- 611.7 PROPOSED SPOT GRADE
- PROPOSED DRAINAGE MANHOLE
- PROPOSED DRAIN INLET/CATCH BASIN
- PROPOSED YARD DRAIN
- PROPOSED END SECTION
- DP4 DEEP TEST HOLE LOCATION
- I-17 INFILTRATION TEST LOCATION
- PROPOSED DRAINAGE PIPE
- PROPOSED ELECTRICAL LINE
- PROPOSED RIP RAP PAD
- PROPOSED RETAINING WALL
- PROPOSED DRAINAGE SWALE

NO.	DATE	REVISION	BY
9	8-27-19	REVISED FOR PLAT COORDINATION	KAM
8	6-4-19	REVISED PER TOWN COMMENTS	JMM
7	4-10-19	REVISED PER DEP COMMENTS	JMM
6	3-19-19	REVISED PER DEP COMMENTS	JMM
5	1-23-19	REVISED PER DEP COMMENTS	JMM
4	11-16-18	REVISED PER DEP COMMENTS	JMM
3	7-09-18	REVISED PER DOH COMMENTS	JJR
2	4-24-18	GENERAL REVISIONS	JLL
1	10-25-17	GENERAL REVISIONS	KMS

INSITE
ENGINEERING, SURVEYING & LANDSCAPE ARCHITECTURE, P.C.
3 Garrett Place
Carmel, NY 10512
(845) 225-9690
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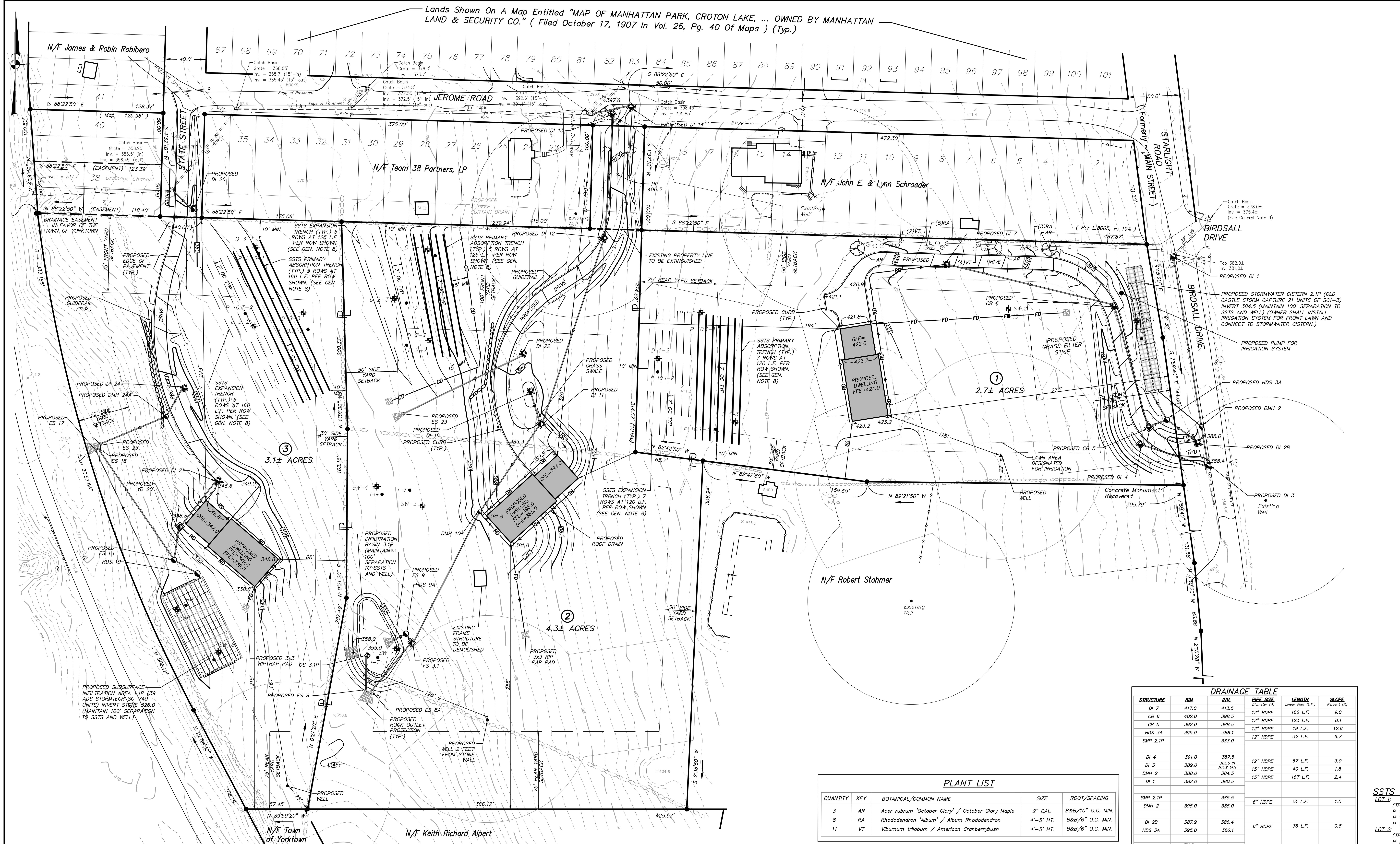
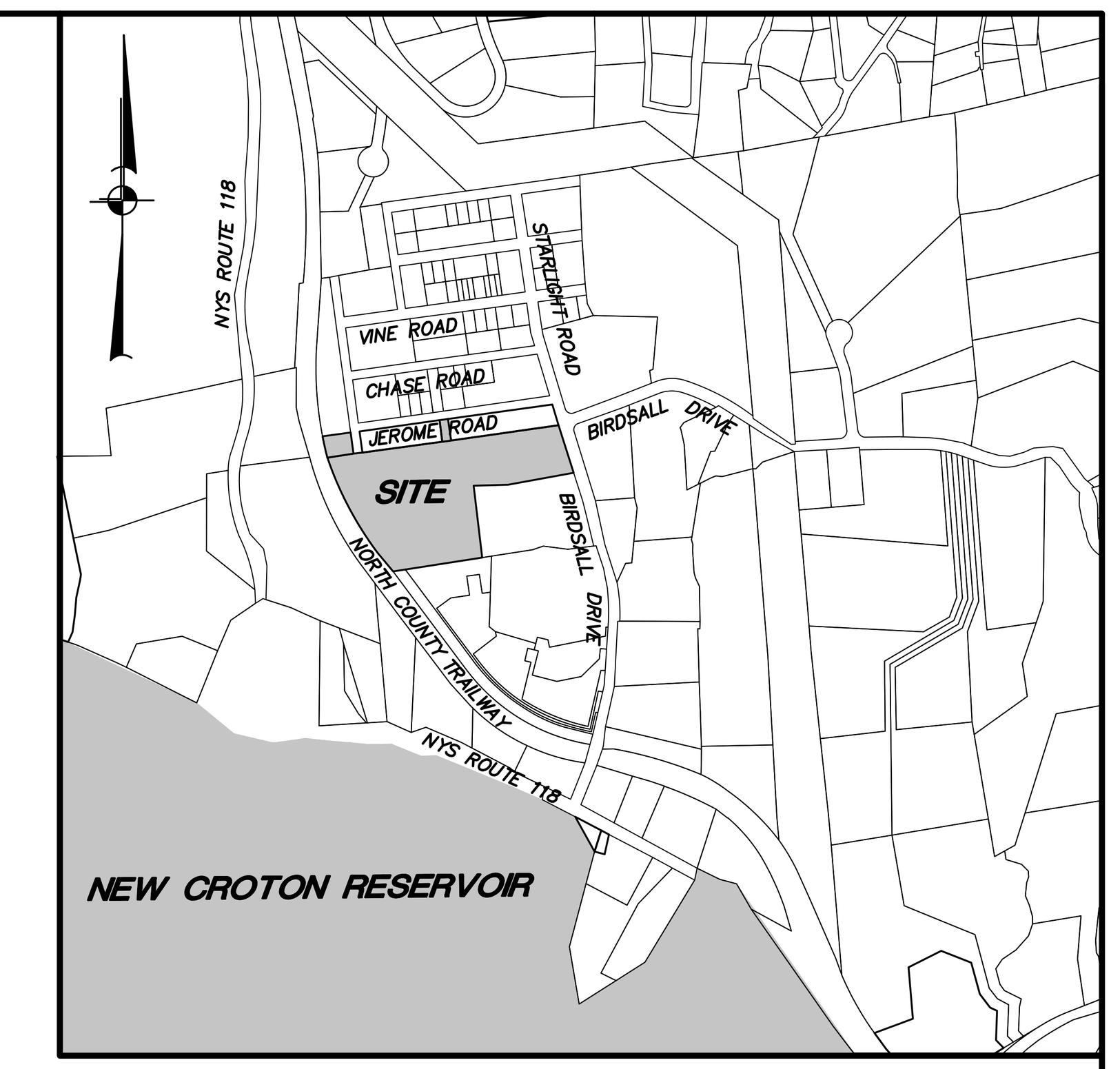
PROJECT:
STAHMER SUBDIVISION
BIRDSALL DRIVE AND JEROME ROAD
TOWN OF YORKTOWN, WESTCHESTER COUNTY, NEW YORK

DRAWING:
INTEGRATED PLOT PLAN

PROJECT NUMBER	16140.100	PROJECT MANAGER	R.D.W.
DATE	10-5-16	DRAWN BY	C.T.Q.
SCALE	1" = 40'	CHECKED BY	J.L.L.

DRAWING NO. IPP-1 SHEET 1/6





Location Map

Scale: 1" = 800'

Owner/Applicant:

Robert H Stahmer
610 Birdsall Drive
Yorktown Heights, New York 10598

Site Data:

Zone: RI–80 Residential
Total Acreage 10.0 AC±
Tax Map No.: 59.10–1–10, 12 & 16

General Notes:

1. Property line and existing features shown hereon obtained from final plat subdivision of property prepared by Baxter Land Surveying dated 7–13–15.
2. Topography shown hereon is based upon aerial photogrammetry provided by Baxter Land Surveying. The contour interval is 2'.
3. There are no wells within 200' of OWTS unless otherwise shown on plan.
4. There are no OWTS's within 200' of a proposed well unless otherwise shown on plan.
5. No soil stockpiles, materials or equipment will be stored in areas to be used for the stormwater infiltration practice and for the subsurface sewage treatment system.
6. The subdivision Stormwater Pollution Prevention Plan has been designed to treat:
   0.3 Ac. of impervious surfaces on Lot 1
   0.3 Ac. of impervious surfaces on Lot 2
   0.2 Ac. of impervious surfaces on Lot 3.
7. The electric and communication utilities shall be installed in accordance with the utility provider specifications including but not limited to provided the proper bedding, cover, and detectible warning tape / tracer wire.
8. Primary and absorption trenches have been shown for subdivision purposes only. A site specific SSTS Design must be submitted to WCDOH at the time of individual lot construction.
9. The rim elevation of the existing catch basin was determined by interpolating existing topographic information. The invert was determined by field measurements between the rim and invert and relating the invert to the interpolated rim elevation.

R1–80 Zone Requirements:

	Required:	LOT 1	LOT 2	LOT 3
Lot Area: (sf)	80,000	117,530	186,500	133,470
Lot Width At Main Bldg Line: (ft)	200'	234'±	278'±	236'±
Lot Depth: (ft)	200'	510'±	561'±	571'±
Front Yard: (ft)				
Birdsall Drive	75'	273'±		
Jerome Road	100' (1)		320'±	273'±
Side Yard: (ft)				
Main or Accessory Bldg., Minimum Either Side	30'	56'	61'±	65'±
Two Combined	80'	140'±	195'±	132'±
Accessory Bldg. if in Rear Yard, Minimum Either Side	10'	N/A	N/A	N/A
Rear Yard: (ft)				
Main Bldg.	75'	194'±	258'±	215'±
Accessory Bldg. or Structure	10'	N/A	N/A	N/A
Maximum Height: (ft)				
Main Bldg.	35'	<35'	<35'	<35'
Accessory Bldg.	15'	N/A	N/A	N/A
Minimum Useable Floor Area of Dwelling Unit: (sf)	1,200	2,100 (AS SHOWN)	2,100 (AS SHOWN)	2,100 (AS SHOWN)
Maximum Bldg. Coverage (All Buildings)	10%	2.5% ± (AS SHOWN)	1.6% ± (AS SHOWN)	2.4% ± (AS SHOWN)
Required Off–Street Parking Spaces Per Dwelling Unit	1	2	2	2
Road Frontage: (ft)	200'	235'±	50'± (2)	140'± (2)

(1) ON STREETS WITH LESS THAN 50–FOOT RIGHT–OF–WAY, THE FRONT YARD SETBACK SHALL BE MEASURED FROM THE CENTER LINE OF THE EXISTING ROADWAY AND 25 FEET SHALL BE ADDED TO THE REQUIRED FRONT YARD SETBACK.
(2) ZONING VARIANCES FOR FRONTAGE FOR LOTS 2 & 3 GRANTED BY ZONING BOARD OF APPEALS ON 4–27–2006 RESOLUTION #22/06.

DRAINAGE TABLE

STRUCTURE	RIM	INV.	PIPE SIZE Diameter (ø)	LENGTH Linear Feet (L.F.)	SLOPE Percent (%)
DI 7	417.0	413.5	12" HDPE	166 L.F.	9.0
CB 6	402.0	398.5	12" HDPE	123 L.F.	8.1
CB 5	392.0	388.5	12" HDPE	19 L.F.	12.6
HDS 3A	395.0	386.1	12" HDPE	32 L.F.	9.7
SMP 2.1P		383.0			
DI 4	391.0	387.5	12" HDPE	67 L.F.	3.0
DI 3	389.0	385.5 IN / 385.2 OUT	15" HDPE	40 L.F.	1.8
DMH 2	388.0	384.5	15" HDPE	167 L.F.	2.4
DI 1	382.0	380.5			
SMP 2.1P		385.5	6" HDPE	51 L.F.	1.0
DMH 2	395.0	385.0			
DI 2B	387.9	386.4	6" HDPE	36 L.F.	0.8
HDS 3A	395.0	386.1			
OS 3.1P	358.0 / 0.5' WEIR @ 357.6	354.0	12" HDPE	27 L.F.	3.7
ES 8		353.0			
DI 13	397.5	393.5	12" HDPE	122 L.F.	1.1
DI 12	397.5	392.2	12" HDPE	188 L.F.	4.4
DI 11	387.5	384.0	12" HDPE	105 L.F.	7.3
DMH 10	380.0	376.3	12" HDPE	145 L.F.	14.1
FS 3.1	360.0	355.8	10" HDPE	10 L.F.	8.0
HDS 9A	359.8	355.0	12" HDPE	10 L.F.	10.0
ES 9		354.0			
FS 3.1	360.0	355.8	10" HDPE	58 L.F.	3.1
ES 8A		354.0			
DI 16	387.0	384.5	8" HDPE	32 L.F.	1.6
DI 11	387.5	384.0			
DI 14	398.5	395.5	12" HDPE	37 L.F.	7.3
EX CB	395.4	392.8			
DI 21	346.6	341.0	12" HDPE	57 L.F.	13.2
YD 20	338.0	333.5	12" HDPE	32 L.F.	12.5
FS 1.1	332.5	329.5	12" HDPE	130 L.F.	11.1
ES 18		315.0			
FS 1.1	332.5	328.6	12" HDPE	25 L.F.	4.4
HDS 19	333.0	327.5	12" HDPE	7 L.F.	14.2
INF. 1.1P		326.5			
INF. 1.1P		328.6	6" HDPE	150 L.F.	9.1
ES 17		315.0			
DI 22	391.0	388.0	8" HDPE	130 L.F.	11.9
ES 23		372.5			
DI 24	349.5	345.0	12" HDPE	32 L.F.	9.4
DMH 24A	348.0	342.0	12" HDPE	70 L.F.	39.6
ES 25		315.0			
DI 26	359.5	356.8	12" HDPE	27 L.F.	0.7
EX CB	359.0	356.6			

PLANT LIST

QUANTITY	KEY	BOTANICAL/COMMON NAME	SIZE	ROOT/SPACING
3	AR	Acer rubrum 'October Glory' / October Glory Maple	2" CAL.	B&B/10" O.C. MIN.
8	RA	Rhododendron 'Album' / Album Rhododendron	4'–5' HT.	B&B/6" O.C. MIN.
11	VT	Viburnum trilobum / American Cranberrybush	4'–5' HT.	B&B/6" O.C. MIN.

SSTS SCHEDULE

Lot Number	Lot Area (in s.f)	Deep Test Hole Description	Mottling and/or Ground Water Elevation	Impervious Layer Elevation	Percolation Rate (Min./In.)	% Slope S.S.T.S. Area	Required Amount of Absorption Trenches (lf): 3 Bedroom	4 Bedroom	5 Bedroom	R.O.B. Gravel Fill: Depth	Volume	Curtain Drain: Depth	Length	Remarks
1	117,530	D1–1: 0 to 6" Topsoil. 6" to 60" Sandy loam. 60" to 96" Compact sandy loam. D1–2: 0 to 6" Topsoil. 6" to 90" Sandy loam. D1–3: 0 to 6" Topsoil. 6" to 60" Sandy loam. 60" to 90" Compact sandy loam. (Lot 1 testing performed on 10–13–09 by Jack Goldstein, PE and witnessed by WCDOH.)	N/A	N/A	21 to 30	4%	504	672	840	N/A	N/A	N/A	N/A	• Dosing required for 4 or 5 bedroom. residence.
2	186,500	D2–1: 0 to 6" Topsoil. 6" to 60" Medium brown moderately compact fine sandy loam. 60" to 84" Compacted medium to fine sandy loam. No groundwater or ledge rock encountered. D2–2: 0 to 6" Topsoil. 6" to 60" Medium brown moderately compact fine sandy loam. 60" to 84" Compacted medium to fine sandy loam. No groundwater or ledge rock encountered. D2–3: 0 to 6" Topsoil. 6" to 60" Medium brown moderately compact fine sandy loam. 60" to 84" Compacted medium to fine sandy loam. Groundwater at 78". No ledge rock encountered. (Lot 2 testing performed on 8–28–17 by Insite Engineering, Surveying & Landscape Architecture, P.C.)	Water at 6.5' (D2–3)	N/A	11 to 15	9%	375	500	625	1.5'	800 CY	7'	145'	• Dosing required for 4 or 5 bedroom residence. • 1 ½' ROB fill required. • 7' Curtain drain required.
3	124,784	D3–1: 0 to 6" Topsoil. 6" to 36" Sandy loam. 36" to 84" Compact sandy loam. D3–2: 0 to 6" Topsoil. 6" to 36" Sandy loam. 36" to 84" Compact sandy loam. D3–3: 0 to 6" Topsoil. 6" to 36" Sandy loam. 36" to 84" Compact sandy loam. (Lot 3 testing performed on 10–13–09 by Jack Goldstein, PE and witnessed by WCDOH.)	N/A	N/A	31 to 45	7%	600	800	–	N/A	N/A	N/A	N/A	• Pump system required. • ROB fill for grading.

SSTS PERCOLATION TEST RESULTS

LOT 1:
(TESTING PERFORMED 8–4–10 BY JACK GOLDSTEIN, P.E. AND WITNESSED BY WCDOH)
P 10.1–1 11 MIN./IN.
P 10.1–2 30 MIN./IN.
P 10.1–3 30 MIN./IN.

LOT 2:
(TESTING PERFORMED BY INSITE ENGINEERING, SURVEYING & LANDSCAPE ARCHITECT ON 9–13–2017)
P 2–1 15 MIN./IN.
P 2–2 15 MIN./IN.
P 2–3 15 MIN./IN.

LOT 3:
(TESTING PERFORMED 7–30–10 BY JACK GOLDSTEIN, P.E. AND WITNESSED BY WCDOH)
P 10.3–1 42 MIN./IN.
P 10.3–2 30 MIN./IN.
P 10.3–3 31 MIN./IN.

GRAPHIC SCALE

40 0 20 40 80 160

(IN FEET)
1 inch = 40 ft.

LEGEND

- PROPOSED PROPERTY LINE
- PROPERTY LINE
- EXISTING STONE WALL
- EXISTING 2' CONTOUR
- EXISTING 10' CONTOUR
- PROPOSED EDGE OF PAVEMENT
- PROPOSED BELGIUM BLOCK CURB
- 290 PROPOSED 10' CONTOUR
- 292 PROPOSED 2' CONTOUR
- RD PROPOSED 4" PVC SDR 35 ROOF LEADER DRAIN
- FD PROPOSED 4" PVC SDR 35 FOOTING DRAIN
- 611.7 PROPOSED SPOT GRADE
- PROPOSED DRAINAGE MANHOLE
- PROPOSED DRAIN INLET/CATCH BASIN
- PROPOSED YARD DRAIN
- PROPOSED END SECTION
- D4 DEEP TEST HOLE LOCATION
- I–17 INFILTRATION TEST LOCATION
- PROPOSED DRAINAGE PIPE
- E PROPOSED ELECTRICAL LINE
- PROPOSED RIP RAP PAD
- PROPOSED RETAINING WALL
- PROPOSED DRAINAGE SWALE

STORMWATER MANAGEMENT PRACTICE TEST RESULTS

DEEP TEST PERFORMED ON AUGUST 28, 29 AND 30, 2017 BY INSITE ENGINEERING, SURVEYING & LANDSCAPE ARCHITECTURE.

NOTE: NO GROUNDWATER, MOTTLING, OR ROCK ENCOUNTERED UNLESS NOTED.

SW 1: 0"–6": TOPSOIL
6"–144": COMPACT BROWN FINE SAND
GROUNDWATER SEEP @ 132"
GROUNDWATER OR LEDGE ENCOUNTERED @ 144"

SW 2: 0"–6": TOPSOIL
6"–80": LIGHT BROWN FINE SANDY LOAM
SPOT MOTTLING OBSERVED @ 32"
NO GROUNDWATER OR LEDGE ENCOUNTERED

SW 3: 0"–6": TOPSOIL
6"–96": LIGHT BROWN FINE SANDY LOAM
SPOT MOTTLING OBSERVED @ 32"
NO GROUNDWATER OR LEDGE ENCOUNTERED

SW 4: 0"–6": TOPSOIL
6"–96": LIGHT BROWN FINE SANDY LOAM
SPOT MOTTLING OBSERVED @ 32"
NO GROUNDWATER OR LEDGE ENCOUNTERED

SW 5: 0"–6": TOPSOIL
6"–108": COMPACT RED BROWN SAND WITH TRACE OF SILT AND COBBLES
108"–120": MOTTLED GRAY BLACK SAND WITH SOME SILT
MOTTLING @ 108"
NO GROUNDWATER OR LEDGE ENCOUNTERED

SW 6: 0"–6": TOPSOIL
6"–54": MEDIUM BROWN FINE SAND WITH SILT AND TRACE OF GRAVEL
54"–96": COMPACT MEDIUM BROWN FINE SAND WITH SILT AND TRACE OF GRAVEL
96"–120": DARK GRAY COMPACT SAND WITH SILT
120"–126": DARK GRAY COMPACT SAND WITH SILT
MOTTLING @ 126"
NO GROUNDWATER OR LEDGE ENCOUNTERED

SW 7: 0"–3": TOPSOIL
3"–42": LIGHT BROWN MODERATELY COMPACT FINE SAND WITH TRACE OF SILT
42"–90": COMPACT LIGHT BROWN FINE SAND WITH TRACE OF SILT AND GRAVEL
MOTTLING @ 90"
NO GROUNDWATER OR LEDGE ENCOUNTERED

INFILTRATION TEST RESULTS
I–1: 12 INCHES/HOUR
I–3: 17 INCHES/HOUR
I–4: 21 INCHES/HOUR
I–5: 48 INCHES/HOUR
I–6: 14 INCHES/HOUR
I–7: 16 INCHES/HOUR

NO.	DATE	REVISION	BY
9	8–27–19	REVISED FOR PLAT COORDINATION	KAM
8	6–4–19	REVISED PER TOWN COMMENTS	JWM
7	4–10–19	REVISED PER DEP COMMENTS	JWM
6	3–19–19	REVISED PER DEP COMMENTS	JWM
5	1–23–19	REVISED PER DEP COMMENTS	JWM
4	11–16–18	REVISED PER DEP COMMENTS	JWM
3	7–09–18	REVISED PER DOH COMMENTS	JJR
2	4–24–18	GENERAL REVISIONS	JLL
1	10–25–17	GENERAL REVISIONS	KMS

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