# AGENDA PACKET

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# TOWN OF LEWISBORO Westchester County, New York

**Planning Board** 79 Bouton Road South Salem, New York 10590



Tel: (914) 763-5592 Fax: (914) 875-9148 Email: planning@lewisborogov.com

**AGENDA** 

Tuesday, February 20, 2024

The Commons / Courtroom at 79 Bouton Road

Meeting will start at 7:30 p.m. and end at or before 11:00 p.m.

#### I. CONTINUATION OF PUBLIC HEARINGS

# Cal #06-17PB, Cal #43-23WP, Cal #18-23SW

Wolf Conservation Center, Buck Run, South Salem, NY 10590; Sheet 21, Block 10803, Lots 3, 65, 67, 81, 82, 83, 86 & 88 (Wolf Conservation Center, owner of record) - Application for a Site Development Plan Approval, Special Use Permit Approval, Wetland Activity Permit Approval and Stormwater Permit Approval for a private nature preserve.

# Cal #03-23PB, Cal #05-23SW

19 Mark Mead Road LLC parking, 19 Mark Mead Road, Cross River, NY 10518; Sheet 20, Block 10800 Lot 1 (19 Mark Mead Road LLC, owner of record) – Application for construction of 12 parking spaces for Bacio restaurant employees and four residential spaces.

#### II. **EXTENSION OF TIME REQUESTS**

# Cal #03-13PB, Cal #03-16WP, Cal #19-21SW

"Silvermine Preserve," Silvermine Drive & Lockwood Road, South Salem, NY, 10590 Sheet 48, Block 10057, Lot 15 and Sheet 51, Block 10057, Lot 104 (Ridgeview Designer Builders, Inc. & Daniel Higgins, owners of record) – Request for two 90-day extensions of time to the Resolution granting Final Subdivision Plat Approval, Wetland Activity and Stormwater Permits, dated August 16, 2022 for the construction of a 13 singlefamily houses; the current expiration date is February 14, 2024.

# Cal #08-14PB, Cal# 95-14WP, Cal# 20-14SW

Goldens Bridge Village Center, NYS Route 22, Goldens Bridge, NY 10526; Sheet 4, Block 11126, Lot 07 (Stephen Cipes, owner of record) – The Planning Board Resolution for Site Development Plan Approval, Wetland Activity Permit Approval and Town Stormwater Permit granted on January 21, 2020 for modifications to the existing shopping center; the current expiration date was January 22, 2024

#### III. SITE DEVELOPMENT PLAN REVIEW

# Cal #18-22PB

Bichon LLC, 876 Route 35, Cross River, NY 10518; Sheet 20, Block 10801, Lot 2 (Bichon LLC - owner of **record**) – Application for a change of use from residential to commercial (professional office).

#### WETLAND PERMIT REVIEW IV.

# Cal #22-23WP, Cal #02-23WV

Merchan and Valencia Residence, 1324 Route 35, South Salem, NY 10590; Sheet 39, Block 10543, Lot 22 (Lina Merchan and Fabio Valencia, owners of record) - Application for remediation of wetlands.

### Cal #29-23WP, Cal #09-23SW

Bernabo Residence, 96 Post Office Road, Waccabuc, NY 10597; Sheet 25, Block 10812, Lot 3 (Alex **Bernabo**, **owner of record**) – Application for a new well, septic and house.

# Cal #32-23WP, Cal #10-23SW

Gecaj Residence, 926 Route 35, South Salem, NY 10590; Sheet 20, Block 10801, Lot 156 (Xhafer Gecaj, owner of record) – Application for a new well, septic and house.

Wilson Residence, 55 Benedict Road, South Salem, NY 10590; Sheet 33, Block 11155, Lot 87 (Susan and Christopher Wilson, owners of record) - Application for an addition and rain garden.

# V. DISCUSSION

# Cal #12-22PB, Cal #36-22WP

Villas at Vista, 920 Oakridge Common, South Salem, NY 10590; Sheet 49D, Block 9829, Lot 10 (Smith Ridge Associates, owner of record) - Application for construction of 14 additional housing units.

# <u>Cal #05-22P</u>B

The Boro Café, 873 Route 35, Cross River, NY 10518, Sheet 20, Block 10800, Lots 2 & 8 (Swertfager Realty, LLC & Gecaj Associates Holding, LLC; owners of record) - Application for a liquor license.

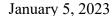
# Discussion of the Lewisboro Comprehensive Plan 2024 Timeline

- Nelson Pope Voorhis (NPV) to conduct office hours for residents' specific concerns date TBD
- Town Board to conduct public hearing(s) regarding Comprehensive Plan and zoning amendments to the Town Code; drafts can be found at: https://www.lewisborogov.com/cmpsc

# VI. CORRESPONDENCE

**Referral from North Salem, NY Planning Board -** Application for a two-lot subdivision at 234 Hawley Road, North Salem, NY.

- VII. MINUTES OF December 19, 2023.
- VIII. NEXT MEETING DATE: March 19, 2024.
- IX. ADJOURN MEETING.





Rohit T. Aggarwala Commissioner

Paul V. Rush, P.E. Deputy Commissioner prush@dep.nyc.gov

465 Columbus Ave. Valhalla, New York 10595

Tel. (845) 340-7800 Fax (845) 334-7175 Mr. Matthew J. Gironda, P.E. Bibbo Associates, L.L.P Millpond Offices 293 Route 100, Suite 203 Somers, New York 10589

Via email: mgironda@bibboassociates.com

Re: Wolf Conservation Center – SWPPP
7 Buck Run, South Salem: (T) Lewisboro
Tax Map ID #s 21-10803-3,65,67,81,82,83,84,86&88
Cross River Reservoir Drainage Basin
Log # 2021-CR-0285-SP.1

The New York City Department of Environmental Protection (DEP) determined that the above referenced application was *complete* on November 15, 2023. Please note that the following comments must be satisfactorily addressed prior to approval.

# A. Hydrology

- 1. Verify that the area modelled in HydroCAD for the grass cover in C soils is correct. The area seems large per the post development drainage area.
- 2. What is the purpose of the underdrain behind the proposed boulder retaining wall that outlets to ES3. Provide its sizing calculations. Also, it appears that the flow from ES3 is cascading through the Swale 4 to an area very close to the location of the existing septic to be built. Confirm that this method of channeling flow will not interrupt the proper functioning of the septic system.

# **B.** Stormwater Management /Runoff Reduction Practices

- 1. The infiltration basin outlet control configuration shows an outlet pipe to a level spreader, but this is not found on the plans. Also, the emergency spillway location should be identified on the plans relative to the existing single-story house and its driveway. Confirm that runoff from the spillway is not in the direct line of drainage to these structures and can safely convey the major storms.
- 2. Per the Design Manual, the infiltration basin should be equipped with a backup underdrain with a gate valve and cleanout ports capable of completely dewatering the practice within 24 hours in the event of a failure or emergency. The underdrain should discharge to a stabilized outfall per the NYS Stormwater Design Manual. (NYSDM). The note on Dwg# D-2 indicates that a pump will be used to drain the infiltration

basin to the 18" primary outlet which is not consistent with the 12" outlet device used in the HydroCAD and plans. It also states that there is an outlet to a level spreader which cannot be identified on the plans. Provide the reasoning as to why an underdrain is not used instead.

- 3. It appears that majority of the higher storms (10 and 100-yr) are infiltrated based on the model provided. Maximize the efficiency of the diversion structure in higher storms to primarily use the infiltration systems for treatment only. Please provide documentation that different pipe configurations were considered to maximize the diversion of larger storms. Although the proposed infiltration areas have higher infiltration rates based on the soil testing, per the NRCS hydrologic soil group C soils located in the area of the proposed infiltration Cultec units for 1.2P and 1.3P, consider using a more conservative infiltration rate (perhaps 10 in/hour) in the design to account for any anticipated slowdown and clogging in the area over time.
- 4. Per the NYSDM, infiltration practices must be designed as "offline" practices if the runoff is delivered by a storm drainpipe or along the main conveyance system and provide for bypass of larger storms (10 & 100 -year storms). There does not appear to be any measures to attenuate the larger storms as required in the NYSDM. The infiltration systems are showing the bypassed flows being directed to outlet devices. Provide documentation in the report on how the larger (10- & 100-year storms) will be attenuated.
- 5. Provide justification in the report for the deviation from NYSDM in utilizing the infiltration basin 1.1P for treatment and attenuation. Also, the diverted amount of runoff in the 100-year storm from the infiltration Cultec chambers 1.2P and 1.3P flows directly to the design point without passing through any attenuation practice this must be justified adequately.
- 6. Provide the Chamber Wizard from HydroCAD for the two underground infiltration systems proposed (1.2P and 1.3P) to demonstrate the storage available.
- 7. Label all the relevant elevations on the Cultec chamber detail provided on the plan. Provide elevations (finished grade elevations and existing grade elevations) or calculations on the plans to depict whether the top quarter of the infiltrations systems are located in fill or not.
- 8. A long system of drainage structures, pipes and conveyance measures such as swales are involved in this project. Although it is noted that the swales are sized to safely convey the 10 year storm, the pipe sizing calculations are not included. Please provide. Also, it recommended to size all these measures to safely pass

20% more than the 10-yr design storm to the desired point of convergence.

- 9. Add the diversion manhole 1.3 detail on the plans.
- 10. Provide in a tabular format all the relevant elevations for all three diversion structures.
- 11. Include sizing of the three proposed pretreatment chambers in a tabular format on the plans. Call out the treatment rate, the minimum and the maximum flow allowed for the device along with its bypass capacity. Verify that it is sized for the flow it receives as higher storms are mostly flowing through it to the infiltration practice. Confirm that each system have the capacity to pretreat the incoming flow as the design Manual only calls for 100% pretreatment of the WQV. In addition, demonstrate that the exit velocities from the pretreatment practices are non-erosive for the 2-year storm.
- 12. Provide supporting documentation from HydroCAD that the Channel Protection Volume (CPv) is detained for 24 hours in the three proposed infiltration systems and that the full WQv can be dewatered within 48 hours after each storm event. The report mentions that the detention of CPv is not required for drainage areas treated with infiltration practices which is not in compliance with the NYSDM.
- 13. Provide the rock outlet protection sizing calculations for the different end structures proposed.
- 14. The third column in the swale sizing table is written for the tributary area whereas the volume provided is for the volume. Include the velocity as part of the table. Clarify if check dams will be included where the site area is greater than 2%.

### **C.** Erosion And Sediment Control

- 1. The cut and fill Exhibits Elevation Table seems to have some discrepancies. The minimum elevation for cuts shows a higher number compared to the maximum elevation. Please correct and explain.
- 2. The construction sequence #10, 19 & 23 calls for drop inlet protection at catch basins. Since two type of inlet protection is provided on the plans specify when and where each type will be used. Also, it is recommended to use stone and block drop inlet protection over the fabric drop inlet protection during the initial grading phase of the project. If there is a preference for the fabric drop inlet protection, please provide justification.

- 3. Verify whether the two infiltration Cultec systems will also be installed in sequence #10 as it is not clear from the description. The contractor should be fully made aware by adding in the sequence that both infiltration systems must be plugged off during the entire construction period until the site is adequately stabilized. Clarify whether the pretreatment units and bypass structures will be in use during construction, or if they will be plugged along with the infiltration systems.
- 4. Indicate in the sequence when the third infiltration system would be built and mention when the last retaining wall near CB # 26 will be constructed. Also, indicate when the tree planting and wetland mitigation be performed. These items are not mentioned in the sequence.
- 5. No sediment traps or sediment basins are proposed during the construction. Clarify whether the infiltration basin will be utilized as a temporary sediment basin. If yes, provide the sizing calculations and temporary outlet structure details and also describe the partial excavation and the means for cleaning and converting it to a final infiltration basin. Also, explain in the report on how the stormwater runoff will be managed during construction. Consider providing either multiple smaller localized sediment traps or a full sediment basin during construction.
- 6. Please verify that all silt fences shown are parallel to the contours; if not, it will not function as intended.
- 7. Provide a call out for the staging area.
- 8. Sequence should mention when the rock outlet protection for the end structures will be installed.
- 9. Per the Blue Book, the height of the silt fence filter fabric should be a minimum of 18-inches above grade. The silt fence detail on drawing, D-1 shows 16-inches. Please review the Blue Book construction requirements for silt fencing and ensure that the detail shown meets all requirements.
- 10. DEC discourages the use of geotextile because it has the potential to negatively impact the stream if the geotextile becomes dislodged and breaks into pieces. If the applicant proceeds with using geotextile, DEP prefers the use of 100% non-synthetic biodegradable.
- 11. It is recommended to provide a tabular format of the various post development inspection and maintenance requirements/needs as part of the Schedule A.

The review of your application will not commence until the DEP receives the necessary information. Please be advised that failure to submit information to the DEP or to follow DEP procedures is grounds to deny approval, pursuant to Section 18-23(b) (3).

If you have any questions, please contact the undersigned at (914) 749-5357.

Sincerely,

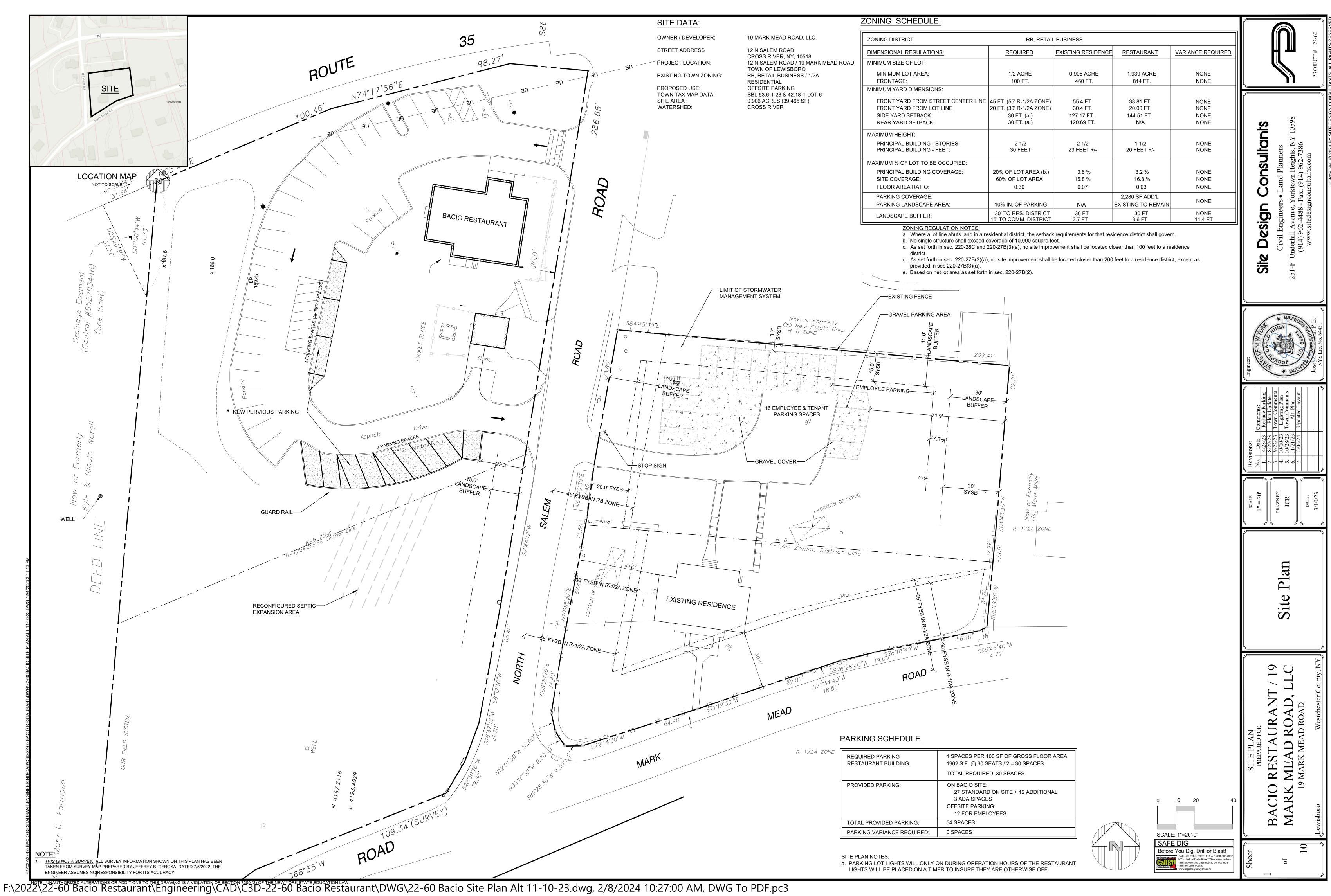
Mariyam Zachariah

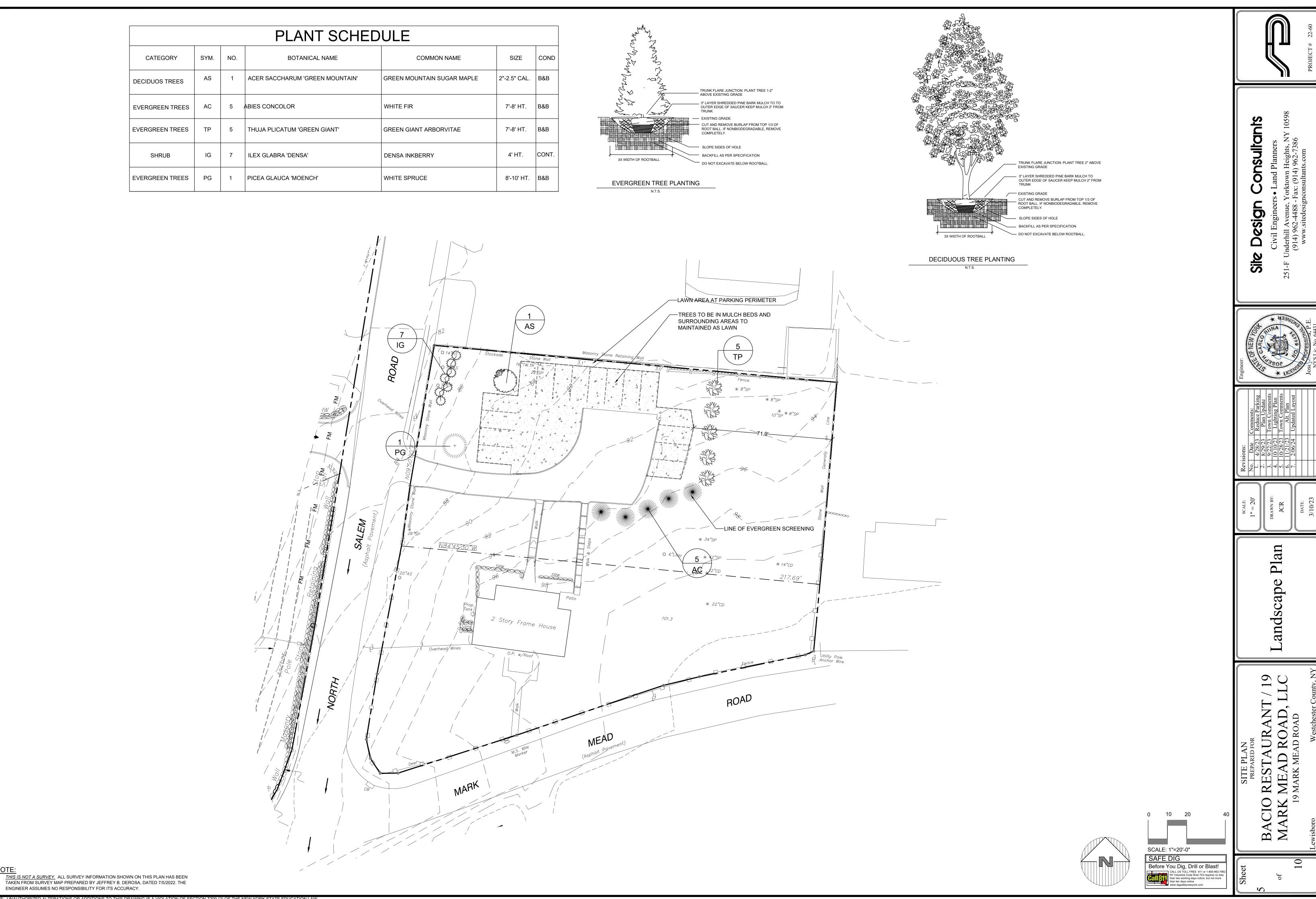
Associate Project Manager II EOH Project Review Group

Mariyam Zachariah

Regulatory & Engineering Programs

Cc: Town of Lewisboro Planning - <u>planning@lewisborogov.com</u> Jan K. Johannessen, Town Planner, <u>johannessen@kelses.com</u>





F:\2022\22-60 Bacio Restaurant\Engineering\CAD\C3D-22-60 Bacio Restaurant\DWG\22-60 Bacio Restaurant\DWG\22-60 Bacio Site Plan Alt 11-10-23.dwg, 2/8/2024 10:27:38 AM, DWG To PDF.pc3

# **Ciorsdan Conran**

From:

Linda Jeanne <crossriverhamlet@gmail.com>

Sent:

Saturday, January 13, 2024 3:26 PM

To:

Ciorsdan Conran

Subject:

**Bacio's Restaurant Plans** 

I fully support Bacio's Restaurant plan as outlined in Cal #03-23PB, Cal #05-23SW.

As a 30+ year resident of Cross River, I have always found Baccio's Restaurant to be a good neighbor. Their restaurant has a stellar reputation and enhances the economic viability of the Cross River hamlet, consistent with the goals of the draft Comprehensive Master Plan.

I urge the Planning Board to approve their proposed plans.

Linda Press Wolfe 87 Locust Ridge Cross River, NY. 10518 914.763.6278

Linda Jeanne crossriverhamlet@gmail.com Cross River, NY



Attorneys at Law Geraldine N. Tortorella (NY, CT) Adam L. Wekstein (NY) Noelle C. Wolfson (NY, CT)

Henry M. Hocherman, Retired

January 22, 2024

Via Electronic Mail (Planning@lewisborogov.com) and First Class Mail

Hon. Janet Andersen, Chairwoman and Members of the Planning Board Town of Lewisboro 79 Bouton Road South Salem, New York 10590

Ro.

Conditional Final Subdivision Approval and Wetland Permit for the Silvermine Preserve Subdivision Silvermine Drive and Lockwood Road, Town of Lewisboro

Tax Identification Nos.: Sheet 48, Block 10057, Lot 15 and

Sheet 51, Block 10057, Lot 104 Third Request for Extension

Dear Chairwoman Andersen and Members of the Planning Board:

At its July 18, 2023 meeting, the Board granted two ninety-day extensions of time with respect to Planning Board Resolution Cal #3-13PB which granted Final Subdivision Plat, Wetland Permit and Stormwater Permit Approvals for the Silvermine Preserve Subdivision (the "Approval"), to and including February 14, 2024. Construction of the road and drainage facilities was commenced several months ago and substantial progress has been made. I am advised that erosion controls have been set and are inspected periodically and maintained. The disturbance limits have been cleared and grubbed, the road has been fully graded and work on the subgrade continues. In addition, stormwater basins 1, 2 and 3 have been rough graded. Notwithstanding this progress, more construction is required to achieve substantial completion.

We have been working on drafts of the legal instruments, which are undergoing internal review with our project team and client. I anticipate submitting them to the Board, Planning Consultant and Planning Board Attorney in the near future.

In light of our client's plan to install the infrastructure before filing the Subdivision Plat, we are writing to request two additional ninety-day extensions of the Approval, to and including August 12, 2024. This is our third request for two ninety-day extensions.

Kindly schedule this request for extensions for consideration and, hopefully, action at the Board's February 20, 2024 meeting and let us know if an appearance is requested or required.

Respectfully yours,

Hocherman Tortorella & Wekstein, LLP

Geraldine N. Tortorella



Hon. Janet Andersen, Chairwoman and Members of the Planning Board January 22, 2024 Page 2

# GNT:hc

cc: (via electronic mail)
Jan Johannessen, AICP
Joseph Cermele, P.E.
Judson Siebert, Esq.
Timothy Allen, P.E.
Alan Pilch, P.E.
Mr. Eric Moss
Ms. Sue Haft

S:\# MATTERS\Moss 0056\Lewisboro (Silvermine) 002\Letters\Planning Board Third Ext Rqst Final App 1-22-2024.docx

# **Ciorsdan Conran**

From:

nancytuccillo@aol.com

Sent:

Friday, January 19, 2024 8:42 AM

To:

Ciorsdan Conran

Subject:

Request for extension of building permit

Hi Ciorsdan,

We would like to request an extension of the existing permit for the development of the north lot at the North County shopping center in Goldens Bridge.

We have done extensive engineering on the site in the north lot and are working with an architect to develop plans to present to the building department currently.

Kindly let us know if this request meets with your approval or if you might need any further information.

With best regards,

Nancy Tuccillo Property Manager 914-769-3141



# **M**EMORANDUM

TO: Chairperson Janet Andersen and

Members of Lewisboro Planning Board

CC: Ciorsdan Conran

Judson Siebert, Esq.

Kevin Kelly, Building Inspector

FROM: Jan K. Johannessen, AICP //

Joseph M. Cermele, P.E., CFM

**Town Consulting Professionals** 

DATE: February 16, 2024

RE: Bichon, LLC

876 Route 35

Sheet 20, Block 10801, Lot 2

### **PROJECT DESCRIPTION**

The subject property consists of ±1.03 acres of land and is located at 876 Route 35 within the RB Zoning District. The subject property contains a former residence, driveway off Route 35, expansive asphalt and gravel parking areas, septic system and well. The property is located to the east of the Shell Gas Station, west of Cameron's deli, and north (to the rear) of an existing auto repair station. The site had been used for the unlawful storage of vehicles, which have since been removed. The applicant is proposing to convert the use of the building to office, with two (2) tenants, one of which is proposed to include the storage of three (3) flatbed trucks. Wetlands are located on and immediately adjacent to the property and the regulated buffer encompasses the majority of the parcel, including the developed portion of the site. The last approved use of the site was for a single-family residence and, therefore, the application involves a change of use from single-family residential to office/storage.

### **SEQRA**

The proposed action has been preliminarily identified as a Type II Action and is therefore categorically exempt from the State Environmental Quality Review Act (SEQRA).

CIVIL ENGINEERING | LANDSCAPE ARCHITECTURE | SITE & ENVIRONMENTAL PLANNING

Chairperson Janet Andersen Bichon, LLC – 876 Route 35 February 16, 2024 Page 2 of 2

### REQUIRED APPROVALS/REFERRALS

- 1. Site Development Plan Approval and a Wetland Activity Permit is required from the Planning Board; a public hearing is required to be held on the Wetland Permit.
- 2. An Article 24 Freshwater Wetland Permit may be required from the New York State Department of Environmental Conservation (NYSDEC).
- 3. The application must be referred to the Westchester County Planning Board in accordance with Section 239-m of the General Municipal Law. The Planning Board Administrator will coordinate this referral.
- 4. The subject property is located within the NYC East of Hudson Watershed and if land disturbance exceeds 5,000 s.f., coverage under the NYSDEC SPDES General Permit for Stormwater Discharges from Construction Activity (GP-0-20-001) will be required.

#### **COMMENTS**

1. Prior to commencing review of the site plan, we recommend that the application be referred to the Building Inspector for zoning review. Following a zoning determination, we will evaluate the proposed site plan.

### **DOCUMENTS REVIEWED:**

- Letter, prepared by Patrick M. Croke Architect, dated February 1, 2024
- Letter, prepared by Michael Sirignano, Esq., dated January 31, 2024
- Floor Plan

### JKJ/dc

https://kellardsessionsconsulti.sharepoint.com/sites/Kellard/Municipal/Lewisboro/Correspondence/2024-02-16\_LWPB\_Bichon, LLC - 876 Route 35\_Review Memo.docx



1 February 2024

Town of Lewisboro Planning Board 79 Bouton Road South Salem, New York 10590

RE: Bichon LLC, 876 Route 35, Cross River, NY 10518

Dear Chair Andersen and members of the Lewisboro Planning Board,

The following is an annotated response to the memo from Jan Johannessen, dated 2/24/23. The numbered items correspond to the memo items and our response is in the indented line below each item.

#### **COMMENTS**

- 1. This office defers review of the plan for zoning compliance to the Building Inspector. It is recommended that the application be referred to the Building Inspector for review.

  Nothing required.
- 2. The applicant shall submit a business plan, which shall provide a detailed description of the proposed use and its operation. The business plan shall include a title and date for reference purposes.

The applicant has submitted a business plan dated 1/31/24, which provides a detailed description of the proposed use and its operation

3. Is the storage of containers an accessory use to the office? Are they related? The building Inspector should determine if the outdoor storage of containers is permitted use within the underlying zone.

Nothing required. The containers have been removed.

4. Based upon aerial imagery, it appears that the parking/storage area has grown over time, including during periods when the Town's wetland ordinance was in effect. The applicant should provide any information it has on the development history of the property, including permits obtained (or not) for this work.

Prior to the applicant's acquisition of the property in 2022 the abutting operators of the former gas station to the South encroached on the property, vehicles were stored there until applicant demanded that all such vehicles be removed from the property.

5. Gravel/asphalt extends to, over, or in close proximity to the front and side property lines, leaving little to no landscape buffer. The minimum landscape buffer setback shall be illustrated on the plan. It is recommended that the buffers be reestablished.



Applicant looks to the Planning Board for guidance.

6. The limits of the storage area should be clearly defined by a permanent physical barrier to prevent future encroachment/expansion. Consider fencing, curbing, large stone boulders, or a combination thereof.

Applicant looks to the Planning Board for guidance.

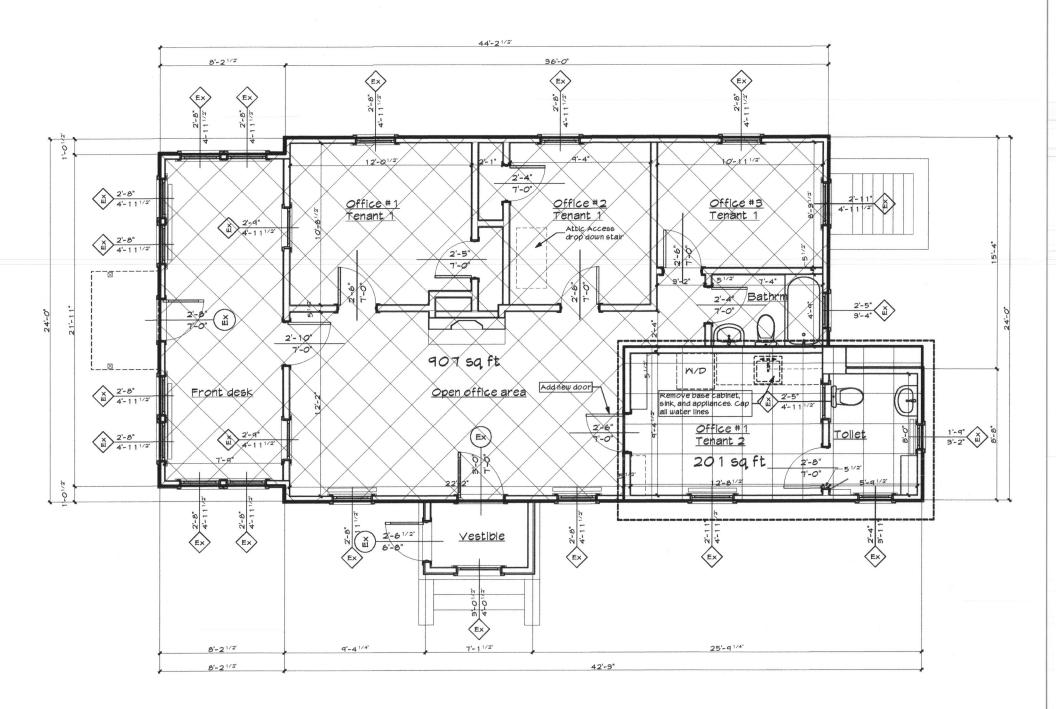
7. The applicant shall prepare and submit a landscaping plan demonstrating compliance with Section 220-15 and 220-55E of the Zoning Code. The plan shall illustrate the location of all proposed plants and shall include a corresponding plant schedule identifying the specie type, size, and quantity of all proposed plant material. Cross-section installation details shall be provided for proposed trees and shrubs, as applicable.

Landscaping is shown on the current plan.

Please do not hesitate to contact me with any questions you may have.

Sincerely,

Patrick M. Croke LEED AP, BD+C



# Michael Fuller Sirignano Attorney and Counselor at Law

Old Post Road Professional Building 892 Route 35, P.O. Box 784 Cross River, New York 10518 Tel: (914) 763-5500 Fax: (914) 763-9589 Email: lawoffice@sirignano.us

January 31, 2024

Ms. Janet Andersen Planning Board Chair Town of Lewisboro 79 Bouton Road South Salem, NY 10590

Re: Bishon LLC Business Plan for 876 Route 35, Cross River, NY 10518

Dear Ms. Andersen and Members of the Planning Board:

This site plan application, as modified following comments from the Board and its consultants, seeks approval for two (2) separate offices within the former residence. The majority of the 1,108 sq. ft. floor area will be rented as professional or business offices and contains 907 sq. ft. consisting of three (3) private offices, an open office and reception area. A second office containing 201sq. ft. is located in the northeast corner of the building and will be used by the Owner's family in connection with their towing company. A floor plan is enclosed herein.

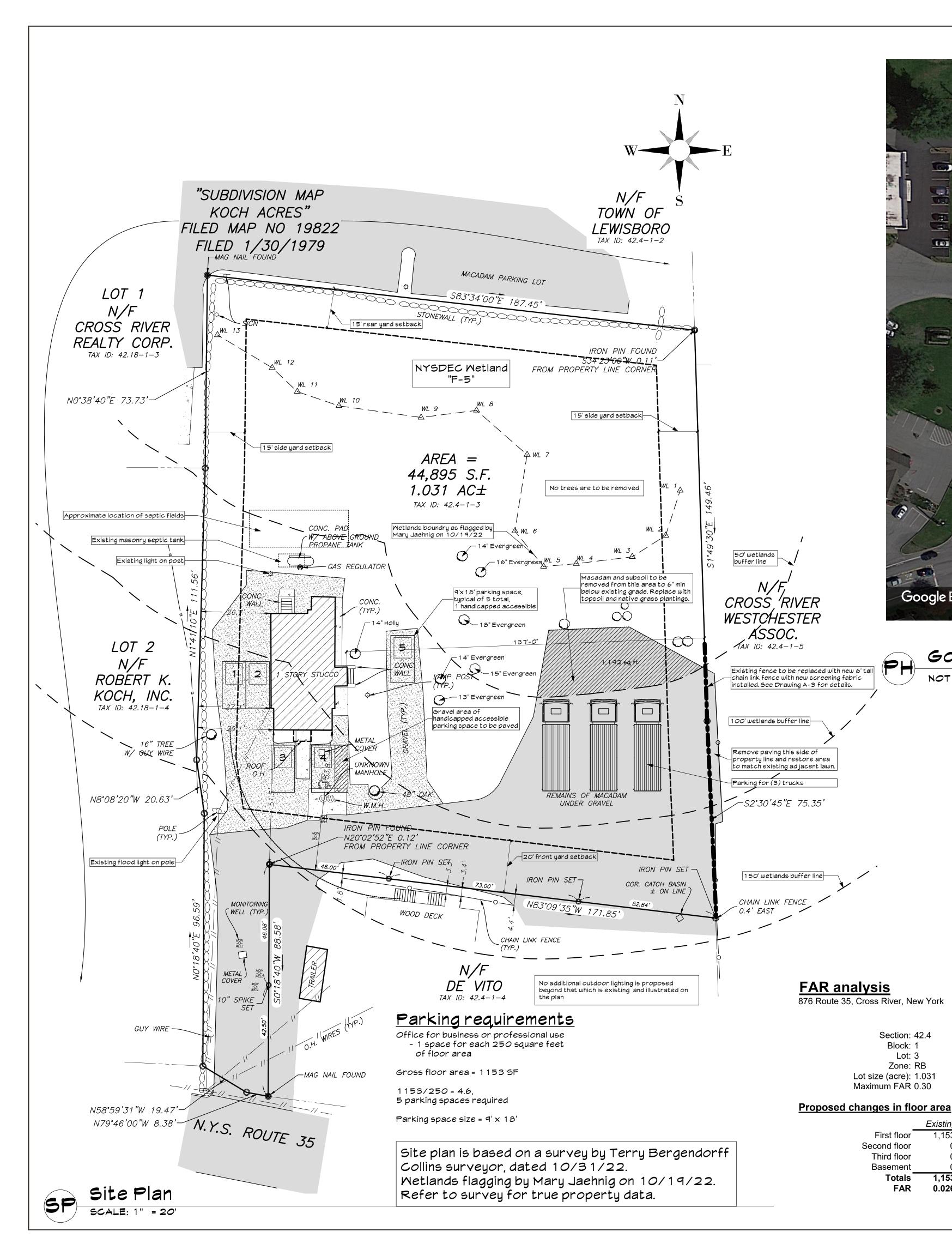
The hours of operation for the leased office space will be dependent on the operational needs of the particular tenant. However, the most likely hours will be between 7:00 am and 7:00 pm weekdays and Saturdays. The hours of operation for the owner's tow company office will be the same.

Our proposed site plan designates a previously paved gravel area for off-street parking of the Owner's three (3) flatbed trucks. Such off-street parking is an accessory use customarily incidental to the Owner's permitted principal business office use (see §220-24C(2)[c]). More specifically, "off street parking and loading" are permitted accessory uses" in this RB District (see §220-24C(2)[a]).

Very truly yours,

Michael Fuller Sirignano
Michael Fuller Sirignano

cc: Kevin Kelly, Building Inspector
Jan Johannessen, Planning Board Consultant
Jud Seibert, Planning Board Attorney





# Google Earth photo

NOT TO SCALE

Section: 42.4

Lot: 3

Zone: RB

44,910 SF

13,473 SF

Existing Proposed Increase

0.026

Block: 1

First floor

Third floor

Basement

Totals

FAR

0.026

Second floor

**Zoning analysis** Change of use 876 Route 35, Cross River, New York

> Section: Block: Lot: Zone: 1.031 Lot size (acres): 44,910 Lot size (square feet):

Regulation	Minimum	Maximum	Actual (Existing)	Proposed	Remarks
Min. lot size (acres)	0.5		1.031	1.031	
Min. lot frontage	100'		24.8	24.8	
Front yard (Feet) from street center line	45'		153.8	153.8	
Front yard (Feet) from front lot line	20'		48.1	48.1	
Side one (Feet)	15'		26.7	26.7	
Side two (Feet)	15'		137	137	
Rear yard (Feet)	15'		116.8	116.8	
Max. height, stories		2 1/2	1	1	
Max. height, feet		30'	20' +/-	20' +/-	
Duilding coverage		20%	2.63%	2.63%	Percentage
Building coverage		8,982	1,181	1,181	Square feet
Sito Coverage		60%	30.08%	27.42%	Percentage
Site Coverage		0	13,508	12,316	Square feet
Floor Area Ratio		0.30	0.03	0.03	Square feet

Total impervious surfaces

# Building coverage summary 876 Route 35, Cross River, New York

Section:	42.4		
Block:	1		
Lot:	3		
Zone:	RB		
Lot size (acre):	1.031	44,910	SF
Max. Principle bldg:	20%	8,982	SF
Max Site Coverage	60%	26,946	SF

As per Terry Bergendorff Collins Land Surveyor dated Sept. 28, 2022					
	Existing		Proposed		
Structure	Foot print	% of lot	Change (SF)	Foot print	% of lot
Residence	1,153	2.57%	0	1,153	2.57%
Rood overhange	28	0.06%	0	28	0.06%
Total building coverage	1,181	2.63%	0	1,181	2.63%
Building coverage (from above)	1,181	2.63%	0	1,181	2.63%
Driveway Macadam areas)	11,813	26.30%	(1,192)	10,621	23.65%
Basement stair	55	0.12%	0	55	0.12%
Concrete walks, steps and plat	423	0.94%	0	423	0.94%
Concrete pad - propane tank	36	0.08%	0	36	0.08%

30.08%

# Patrick M. Croke **Architect**

20 Woodsbridge Road Katonah, New York 10536 T: 914.234.6093 F: 914.234.0548 info@pmcarchitect.com



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NOTE: DO NOT SCALE DRAWINGS

This project is designed to conform to the 2020 Building Code of NYS

Submission to Planning Board	11/27/23	×
Planning Board revisions as per meeting with Jan Johannessen	11/16/23	
Planning Board review for business use	09/05/23	
Additional info for Planning Board review	03/27/23	
Added trees, septic and additional info	02/03/23	
Building Department and Planning Board submission	11/30/22	

Revisions:

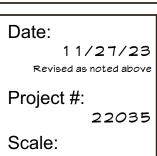
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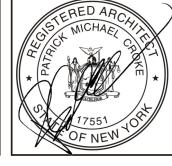
# Offices and parking (Business use)

876 Route 35 Cross River, NY

Drawing Title:

Site plan, aerial photo and general notes



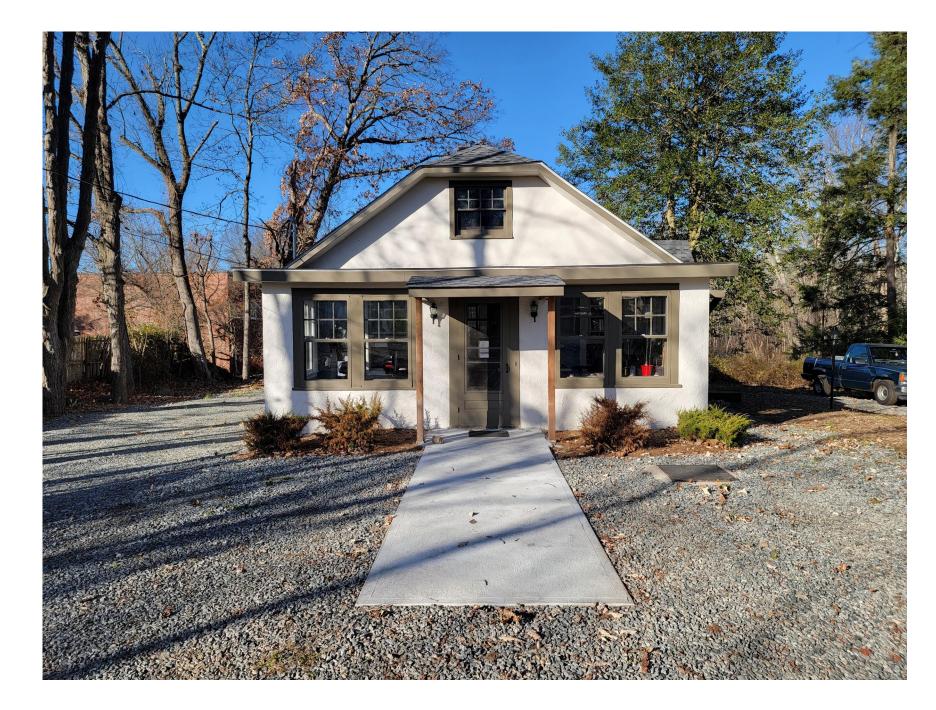


**Drawing Number:** 

27.42%

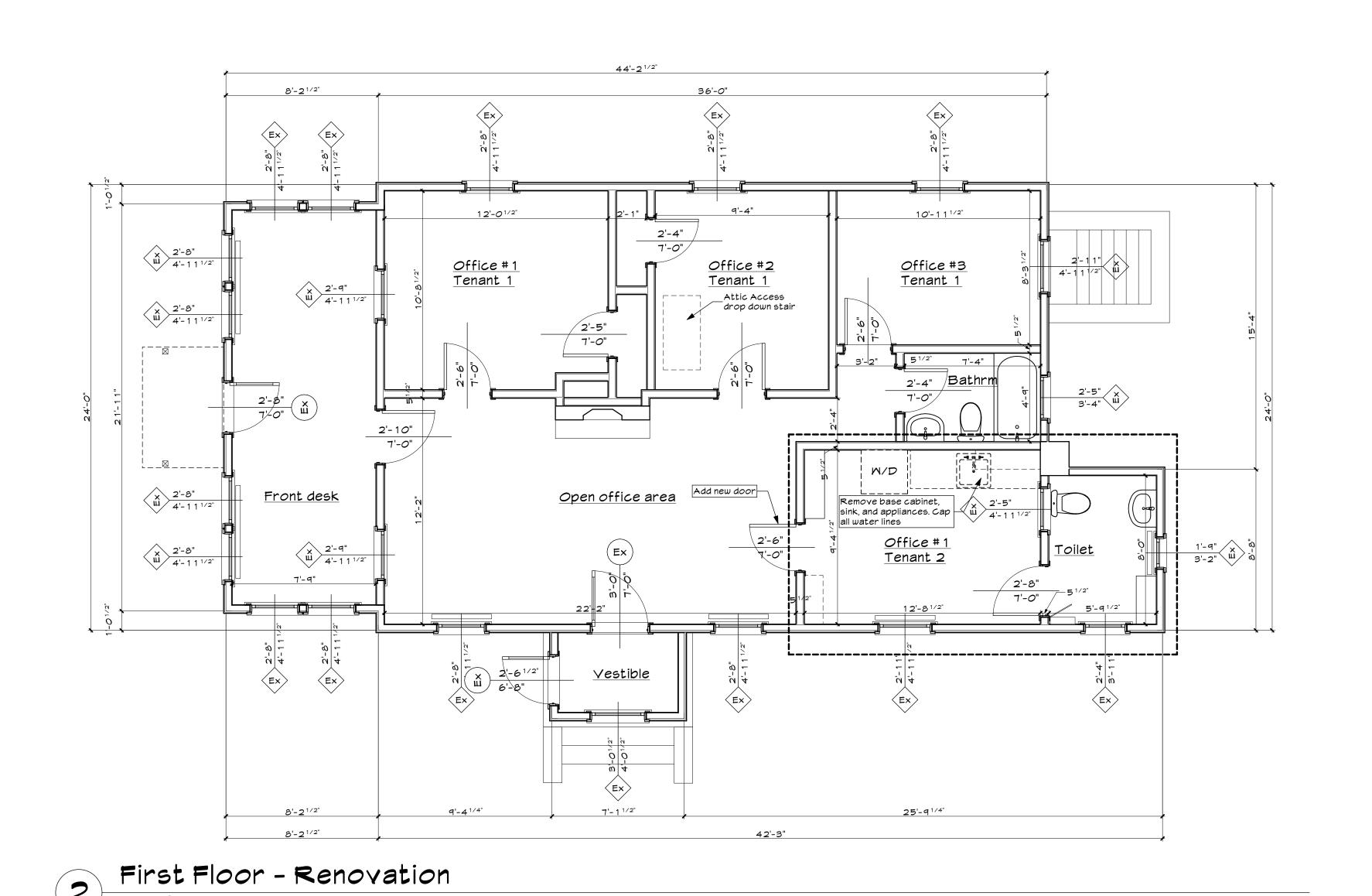
12,316















# Patrick M. Croke **Architect**

20 Woodsbridge Road Katonah, New York 10536 T: 914.234.6093 F: 914.234.0548 info@pmcarchitect.com





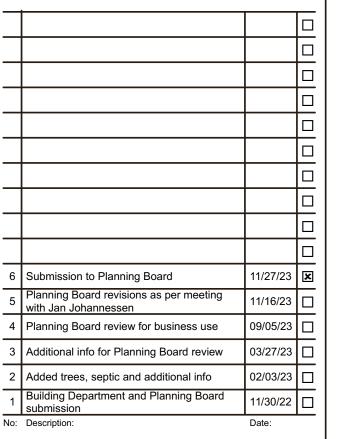
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NOTE: DO NOT SCALE DRAWINGS

This project is designed to conform to the 2020 Building Code of NYS

.1-Project files\22035 - Rotondi\2 - Drawings\22035 - Rotondi - CD - V25 - 23 1 127.pln



Revisions:

Project Name:

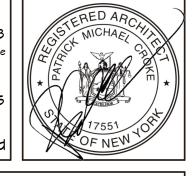
# Offices and parking (Business use)

876 Route 35 Cross River, NY

Drawing Title:

Building floor plan and photos

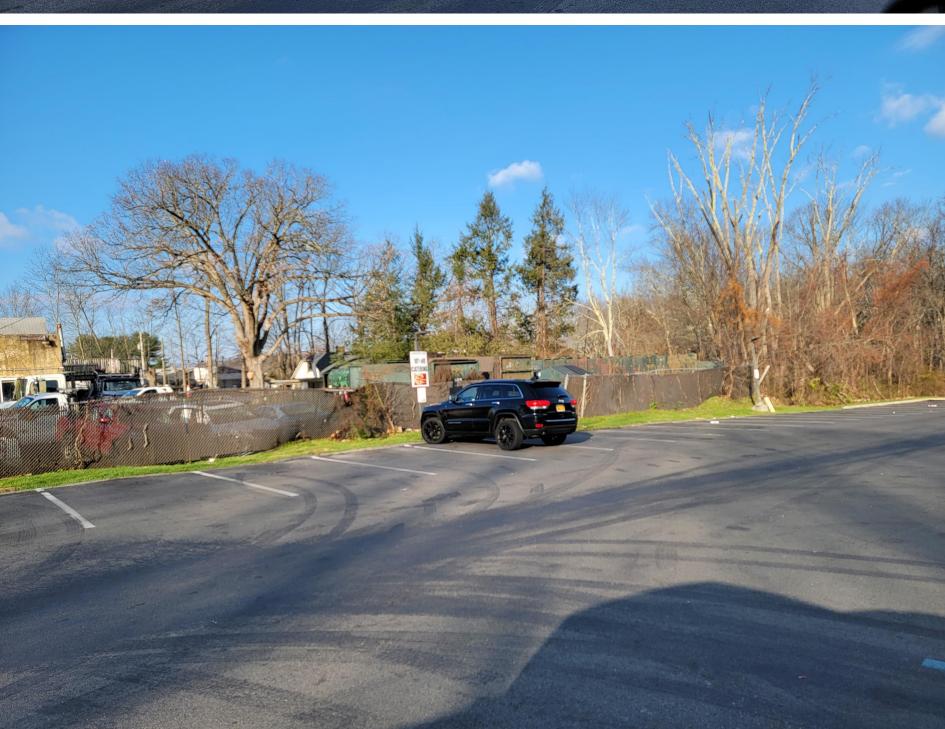
11/27/23 Revised as noted abov



Drawing Number:

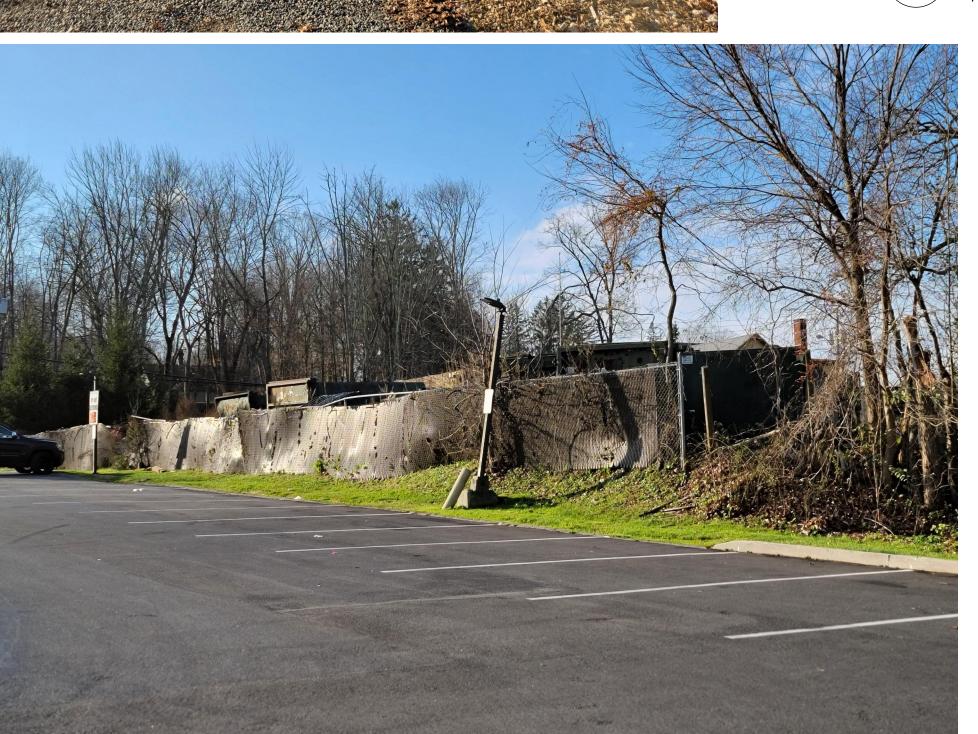


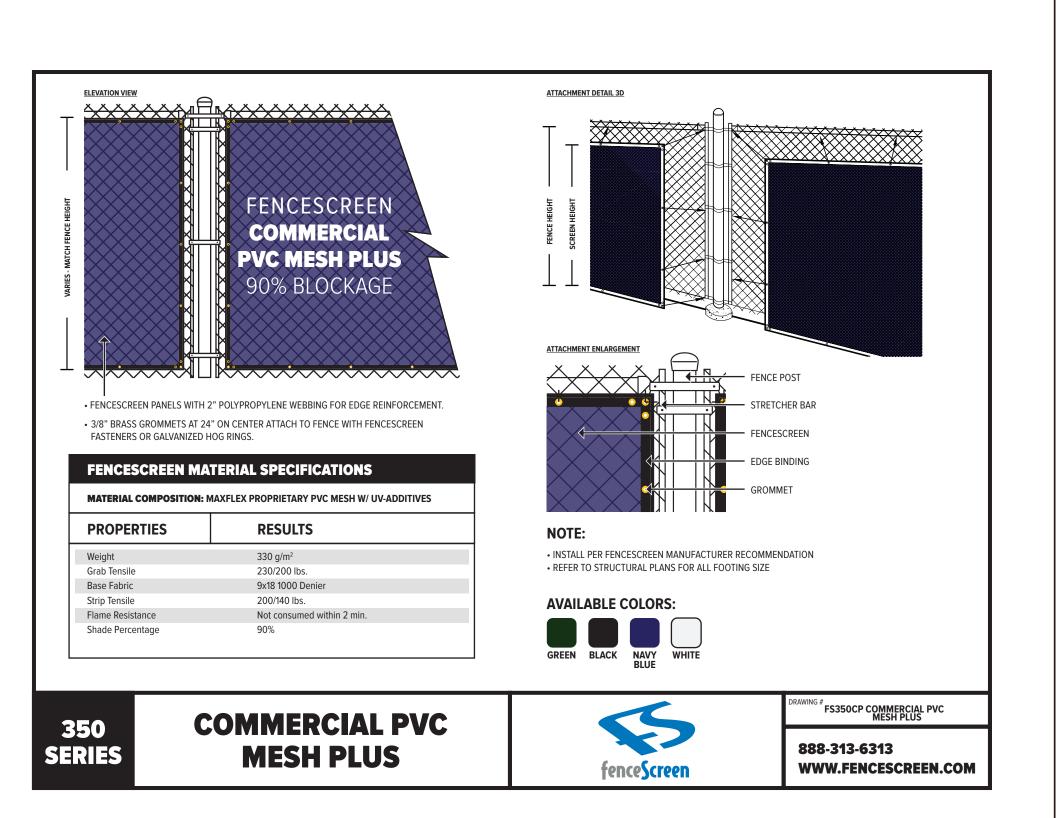




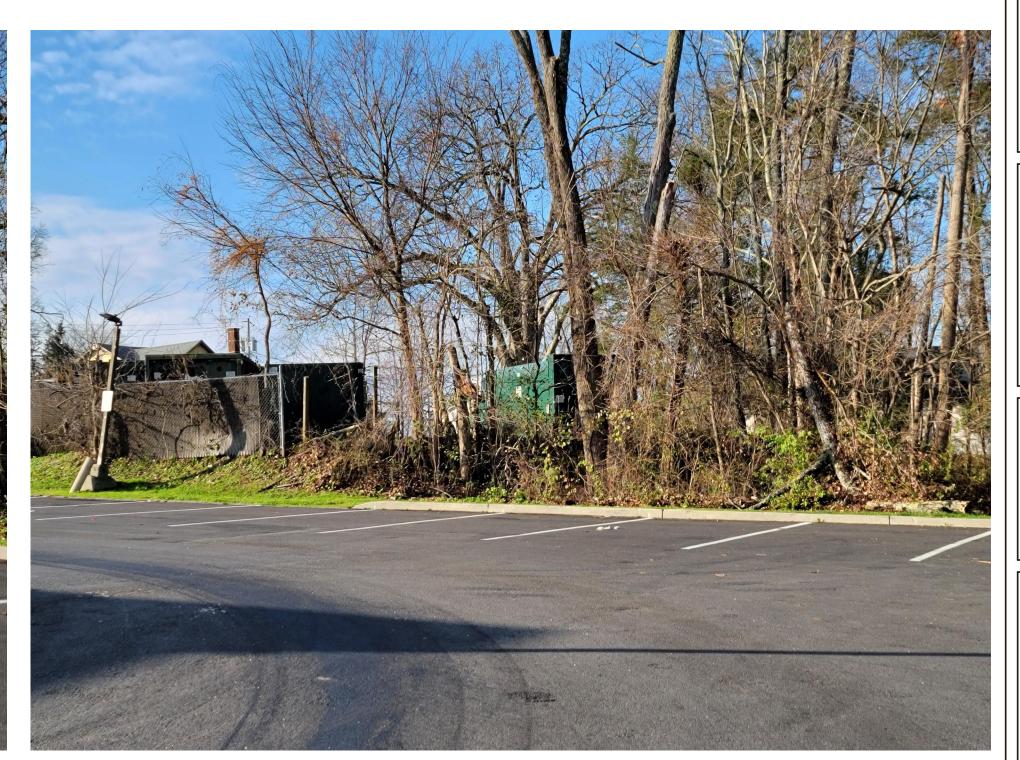








# Fence screening - 350 series material spec NOT TO SCALE



# Patrick M. Croke **Architect**

20 Woodsbridge Road Katonah, New York 10536 T: 914.234.6093 F: 914.234.0548 info@pmcarchitect.com





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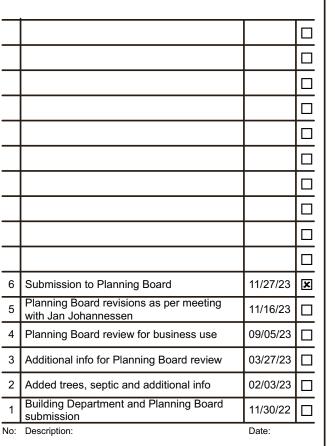
DRAWINGS AND SPECIFICATIONS, AS INSTRUMENTS OF PROFESSIONAL SERVICE, ARE AND SHALL REMAIN THE PROPERTY OF THE ARCHITECT. DOCUMENTS ARE NOT BE USED, IN WHOLE OR IN PART, FOR OTHER PROJECTS OR PURPOSES OR BY ANY OTHER PARTIES THAN THOSE AUTHORIZED BY CONTRACT WITHOUT THE SPECIFIC WRITTEN AUTHORIZATION OF THE ARCHITECT. CONTRACTORS MUST CHECK ALL DIMENSIONS ON SITE. ONLY FIGURED DIMENSIONS ARE TO BE WORKED FROM. DISCREPANCIES MUST BE REPORTED IMMDIATELY TO THE ARCHITECT BEFORE PROCEEDING.

NOTE: DO NOT SCALE DRAWINGS

This project is

\1-Project files\22035 - Rotondi\2 - Drawings\22035 - Rotondi - CD - V25 - 23 1 1 2 T.pln

designed to conform to the 2020 Building Code of NYS



Revisions:

Project Name:

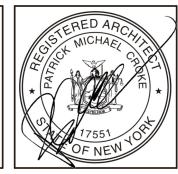
# Offices and parking (Business use)

876 Route 35 Cross River, NY

Drawing Title:

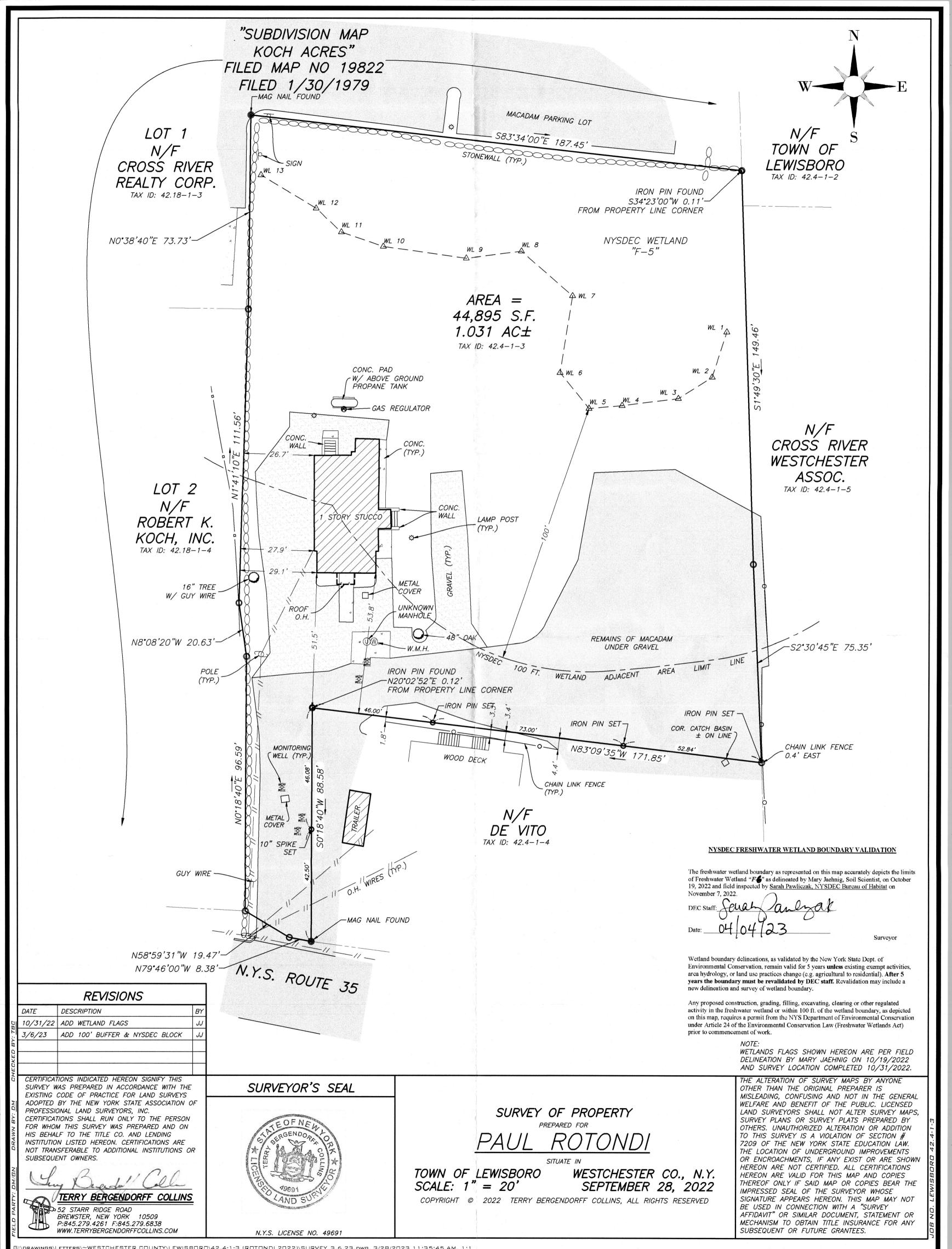
Fence photos and details

11/27/23 Scale:



Drawing Number:





### **Ciorsdan Conran**

From:

Linda Jeanne <crossriverhamlet@gmail.com>

Sent:

Tuesday, February 28, 2023 11:14 AM

To:

Ciorsdan Conran; planning@lewisborogov.com

Subject:

Objection to change of use application in Cross River

**Attachments:** 

OTRJF2-2022-09-26-3-58-02.pdf

To the Lewisboro Town Planning Board Chair and Members,

The following application is on the Planning Board agenda:

# Cal #18-22PB

Bichon LLC, 876 Route 35, Cross River, NY 10518; Sheet 20, Block 10801, Lot 2 (Bichon LLC – owner of record) – Application for a change of use from residential to commercial (professional office and outdoor storage of containers).

While I have no objection to the property's use for "professional office" I do object to "outdoor storage of containers."

The property owner is already in violation of **Town of Lewisboro and/or the 2020 NYS Uniform Code** - see attached. Approximately eleven of these metal containers (dumpsters in appearance) in various sizes are on the property today - in violation of code.

There are environmental and water quality concerns. As I understand it, the property abuts wetlands. It also sits on higher ground in proximity to The Meadows condominium. It is unknown what these containers would store - as the property owner has stated an intent to rent out the containers and allow something (unknown at this writing) to be stored.

An additional unknown is what these containers originally stored before being place on the property - waste, toxic material, chemicals, hazardous, flammable? Are there traces or residue of anything harmful or contaminated within the containers today?

And, as I understand, the property owner intentionaly misled a tenant renting the residential zoned structure for commercial use.

I urge the Planning Board to decline this application.

Sincerely, Linda Press Wolfe Cross River, NY Linda Jeanne <a href="mailto:crossriverhamlet@gmail.com">crossriverhamlet@gmail.com</a> Cross River, NY



# **TOWN OF LEWISBORO**

# **BUILDING DEPARTMENT**

79 Bouton Road South Salem, NY 10590 (914)763-3060

# ORDER TO REMEDY VIOLATION

Complaint #: 43-22 Notice Date: 09/26/2022 Comply Date: 09/26/2022

To: BICHON LLC

876 ROUTE 35

**CROSS RIVER, NY 10518** 

Occupant: Physical Therapist / Dumpster storage

Site Address: 876 ROUTE 35

Sheet/Block/Lot: 10801-002-0020

Certified Mail #: 7020 1290 0000 0408 2980

On 09/22/2022 a lawful inspection and/or review of Building Department records was conducted of the above referenced premises and the following violation(s) of the Town of Lewisboro and/or the 2020 NYS Uniform Code and/or codes applicable at the time of construction was observed:

# **ORDINANCE CODE**

105.5.2 -

Without regard to whether a certificate of occupancy shall have been issued, no person or entity shall convert the use or occupancy of a building or structure, or any portion thereof, from one use or occupancy to another without first obtaining a building permit to perform the work, if any, required for such conversion; performing such work, if any; and obtaining a certificate of occupancy from the authority having jurisdiction.

# **ORDINANCE CODE**

220-44A -

NO BUILDING PERMIT SHALL BE ISSUED, NO STRUCTURE OR USE SHALL BE ESTABLISHED, NO USE SHALL BE CHANGED TO ANOTHER USE AND, ON LOTS LOCATED IN NON-RESIDENTIAL DISTRICTS, NO EXISTING GRADES SHALL BE ALTERED NOR IMPERVIOUS SURFACE PLACED WITHOUT PRIOR CONFORMITY WITH THE SITE DEVELOPMENT PLAN APPROVAL PROCEDURES SET FORTH IN THIS ARTICLE.

# **ORDINANCE CODE**

92-7A -

Certificates of occupancy required. A Certificate of Occupancy shall be required for any work which is the subject of a building permit and for all structures, buildings, or portions thereof which are converted from one use or occupancy classification or subclassification to another. Permission to use or occupy a building or structure, or portion thereof, for which a building permit was previously issued shall be granted only by the issuance of a certificate of occupancy.

TO WIT:

Site being utilized as commercial storage and business without proper permitting,

change of use or site plan approval.

**REMEDY:** Remove unapproved uses and apply for proper approvals to code.



# **TOWN OF LEWISBORO**

# **BUILDING DEPARTMENT**

79 Bouton Road South Salem, NY 10590 (914)763-3060

NOTICE: Full compliance with this order to remedy is required by 09/26/2022 which is thirty (30) days after the date of this order. If the person or entity served with this order fails to comply fully with this order to remedy within the thirty (30) day period, that person or entity will be subject to a fine of not more than \$1,000 per day per violation, or imprisonment not exceeding one year, or both. You are hereby notified that you have thirty (30) calendar days to remove/restore and make safe the above noted violations in the prescribed manner, apply for required permits and/or provide evidence that the apparent unlawful improvements were completed in accordance with the Code. Further, you are hereby directed to bring the referenced violations into compliance and arrange for a re-inspection within the aforementioned time frame. Failure to comply will result in alternative action as prescribed by law in order to gain compliance including, but not limited to: a summons to appear in court. Please be advised that any person(s), corporation partnership, association or other legal entity found guilty of violations to the Code of the Town of Lewisboro and each day the violation exists shall constitute a separate and distinct violation

Jeff Farrell

**Building Inspector** 

# **Ciorsdan Conran**

From:

Linda Jeanne <crossriverhamlet@gmail.com>

Sent:

Thursday, June 15, 2023 6:23 PM Ciorsdan Conran; Kara Sullivan

To: Subject:

Request for an update. RE: Objection to change of use application in Cross River

To the Lewisboro Town Planning Board Chair and Members; and Lewisboro Building Inspector:

As of this writing, a large number of garbage dumpsters remain on the property referenced below. Not only are these an eye-sore, these containers - its content or use are unknown and may or may not contain or have contained hazardous waste/material - content that may negatively impact the wetlands abutting the property and/or Cross River's aquifer.

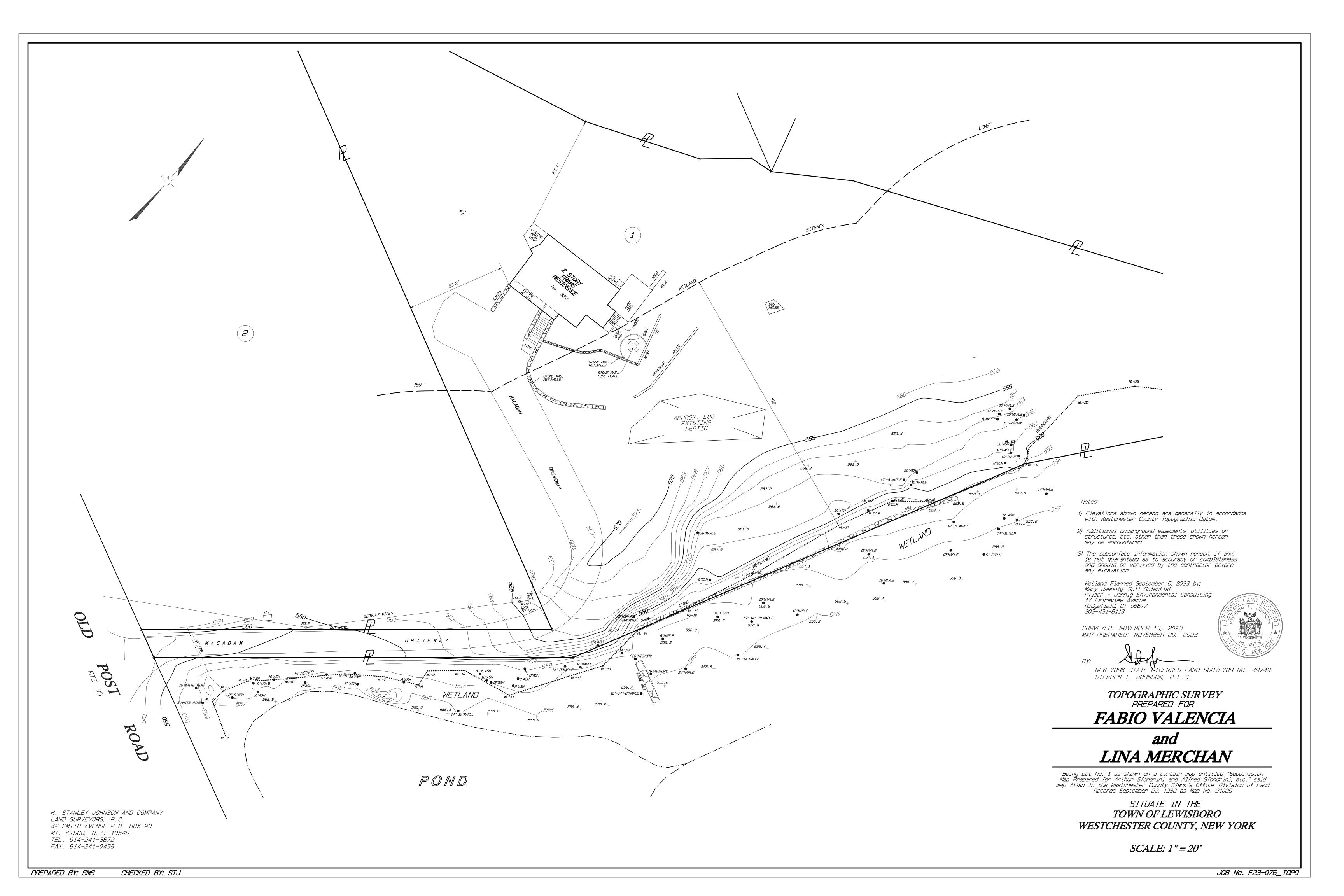
The property was also issued violations by the Town.

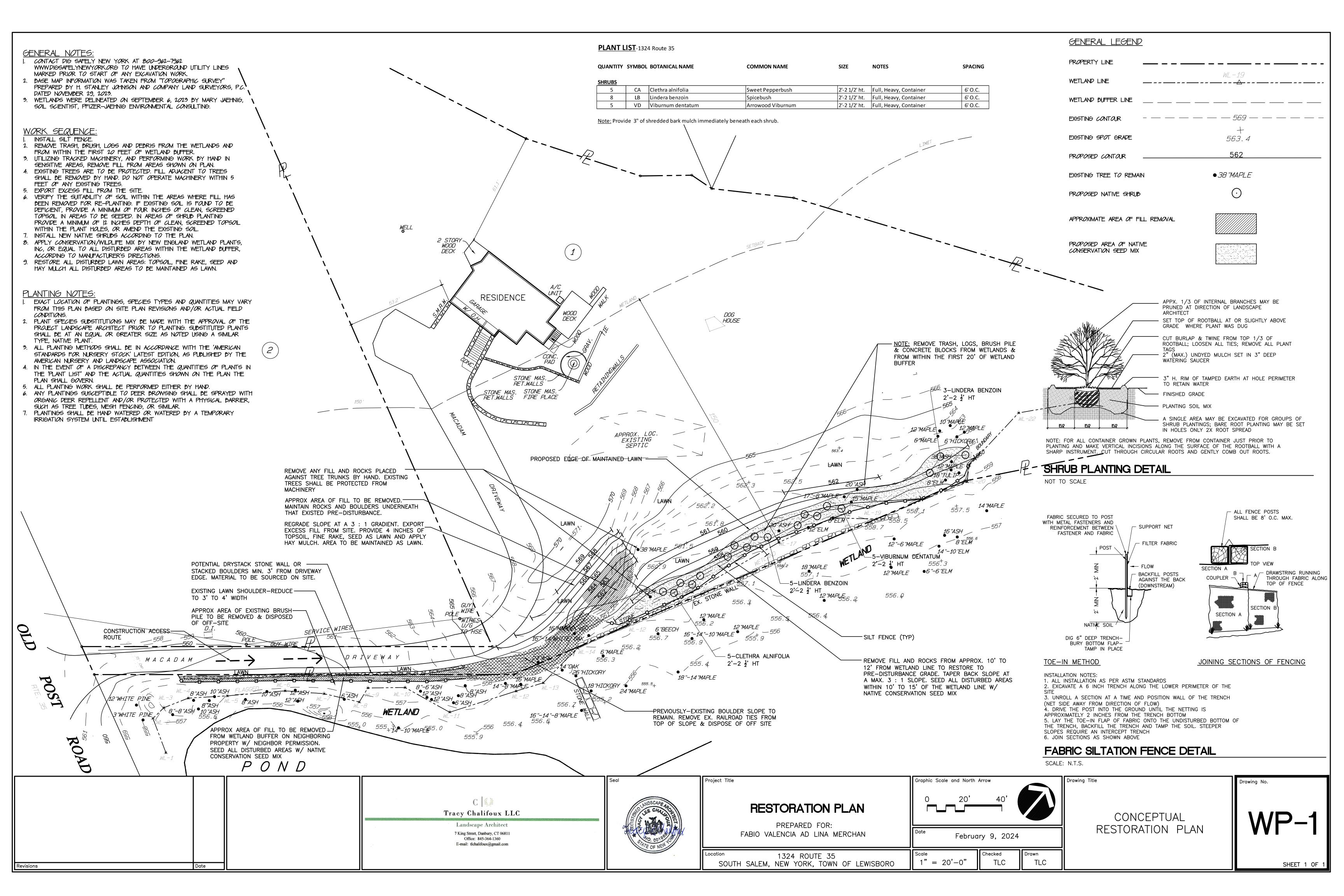
I am requesting to understand what action if any has been taken to remove these containers; have the violations been satisfied/remedied; has the property owner been denied the application to use the property for garbage container storage.

Respectfully,

Linda Press Wolfe Cross River, NY

Linda Jeanne crossriverhamlet@gmail.com Cross River, NY







# **M**EMORANDUM

TO: Chairperson Janet Andersen and

Members of Lewisboro Planning Board

CC: Ciorsdan Conran

Judson Siebert, Esq.

Kevin Kelly, Building Inspector

FROM: Jan K. Johannessen, AICP//

Joseph M. Cermele, P.E., CFM

**Town Consulting Professionals** 

DATE: February 16, 2024

RE: Alex Bernabo

96 Post Office Road

Sheet 25, Block 10812, Lot 3

#### **PROJECT DESCRIPTION**

The subject property consists of ±4 acres of land and is located at 96 Post Office Road within the R-4A Zoning District. The subject property is currently vacant land. The applicant is proposing a two (2) bedroom dwelling with attached garage. Improvements include a paver driveway, septic system, well and associated stormwater treatment system.

### **SEQRA**

The proposed action is a Type II Action and is categorically exempt from the State Environmental Quality Review Act (SEQRA).

### REQUIRED APPROVALS

- 1. A Wetland Activity Permit and Town Stormwater Permit is required from the Planning Board; a public hearing is required to be held on the Wetland Permit.
- 2. A front yard setback variance may be required from the Zoning Board of Appeals.

CIVIL ENGINEERING | LANDSCAPE ARCHITECTURE | SITE & ENVIRONMENTAL PLANNING

Chairperson Janet Andersen Bernabo – 96 Post Office Road February 16, 2024 Page 2 of 7

- 3. Work proposed within the Town right-of-way will require a Driveway Opening Permit from the Town Highway Superintendent.
- 4. The applicant has obtained approval from the Westchester County Department of Health (WCHD) regarding the proposed septic system and water well.

This office is only in receipt of the Construction Approval Application. A complete set of signed and approved plans from the WCHD shall be provided.

- 5. The applicant has obtained Individual Residential Stormwater Permit Approval from the New York City Department of Environmental Protection (NYCDEP).
- 6. Coverage under the New York State Department of Environmental Conservation (NYSDEC) SPEDES General Permit for Stormwater Discharges from Construction Activity (GP-0-20-001) is required.

#### **COMMENTS**

Previously issued comments are provided below; new comments or follow up comments are provided in **bold** text.

- 1. The application should be referred to the Building Inspector for review of zoning compliance.
- 2. An existing conditions topography and tree survey shall be submitted, prepared by a NYS Licensed Land Surveyor.

The requested tree survey has been provided. See additional comment below.

3. As previously noted, the wetland boundary shall be delineated by a qualified wetland scientist, in accordance with Chapter 217, Wetlands and Watercourse, of the Town Code. Wetland flags shall be survey-located and shall appear on the plan, along with the Town's 150-foot regulated wetland buffer line. In accordance with the Town's wetland ordinance, the wetland delineation must have been conducted within one (1) year of the date of application and this office must confirm the wetland boundary line.

Provide a note on Sheet CS identifying the wetland delineator and date of delineation.

4. As previously noted, there appears to be an off-site wetland on the opposite side of the street at 101 Post Office Road; off-site wetlands shall be shown, as should the 150-foot buffer.

Chairperson Janet Andersen Bernabo – 96 Post Office Road February 16, 2024 Page 3 of 7

This comment has not been addressed. There is a dotted line on the plan which may be reflecting the wetland, but these lines are not labeled. Clearly identify the off-site wetland and buffer area.

5. As previously noted, the applicant shall submit a Wetland Report, which shall contain the information required under Sections 217-5 and 6 of the Town's Wetland Ordinance.

This comment has not been addressed. There is a series of dotted lines on the plan which may be an attempt to address the comment, but these lines are not labeled.

6. As previously noted, the applicant shall develop a Wetland Mitigation Plan, which provides, at a minimum, mitigation at a ratio of 1:1 (for every s.f. of wetland or wetland buffer disturbance proposed, an equal or greater amount of mitigation shall be provided). Reference is made to the Town's mitigation guidelines provided in Chapter 217, Appendix B. Note that stormwater mitigation does not count toward satisfying the wetland mitigation requirement.

This comment has not been addressed.

- 7. The plan continues to include direct wetland impacts, including grading, a sediment trap, proposed well, gravel access to the well, utility trenching, fencing and planting within the wetland proper. These impacts should be eliminated or reduced to the extent possible. The disturbance proposed within the wetland and wetland buffer shall be clearly presented on a table to be included on Sheet CS, along with a calculation of mitigation (1:1 mitigation required). Direct disturbance to on-site wetlands will likely require permitting through the Army Corps of Engineers (ACOE), as previously identified.
- 8. A cut and fill calculation shall be provided on the grading plan.

The applicant has indicated a total import of 553 c.y. of fill required for the project, including 260 c.y. required for construction of the septic field.

9. Indicate trees to be removed and/or protected.

The applicant has provided the requested tree survey and indicated those trees to be removed and protected. However, the tree survey should be illustrated on the improvement plans for coordination purposes. Specifically, this office questions the ability to save Tree #9, a 42-inch diameter Elm, which appears to be within ten (10) feet of the proposed primary septic field and would otherwise require removal by the WCHD. Sheet SY4 shall include a note referencing the surveyor responsible for locating the trees and the date of tree survey.

Chairperson Janet Andersen Bernabo – 96 Post Office Road February 16, 2024 Page 4 of 7

10. As previously noted, show any proposed contours and/or spot grades at the southern side of the proposed dwelling.

The grading plan has been revised, as requested. We note that the deck will be constructed on piers, minimizing or eliminating the need to regrade this portion of the site.

11. Provide construction details for the gravel driveway and parking area.

The applicant has revised the proposed driveway construction to include grass-crete pavers for its entirety. The detail should be revised to specify the layer thickness of the granular subbase depth.

12. Regarding the driveway profile, changes in grades require vertical curves.

#### Comment satisfied.

- 13. All walls equal to or greater than four (4) feet in height must be designed by a Professional Engineer. We understand that these designs, including the planter wall design, will occur at the time of Building Permit.
- 14. As previously noted, the plan shall note that the construction of all walls greater than or equal to four (4) feet in height shall be certified by the Design Professional, prior to issuance of a Certificate of Occupancy/Completion.

The requested note shall be provided.

15. As previously noted, the site plan shall quantify the limits of disturbance in (s.f.). The plan shall note that disturbance limits shall be staked in the field prior to construction.

The requested note has been provided. However, as previously requested, the Site Plan shall quantify the limits of disturbance and include those areas within the right-of-way.

16. Question #12 of the NOI shall be answered "yes".

#### Comment satisfied.

17. The disturbance area noted in the NOI does not match the disturbances noted on plan Sheet CS. Please clarify or correct.

Chairperson Janet Andersen Bernabo – 96 Post Office Road February 16, 2024 Page 5 of 7

The disturbance area noted on the NOI shall be coordinated with Comment #15 above.

18. Plan sheets should be coordinated. Info appears to vary from sheet to sheet. Driveway slopes shown on the profile do not match those noted on the site plans. The same issue applies to driveway grades and driveway surface treatments.

The site plans indicate a 14% maximum driveway slope. This should be revised to reflect the 12.3% grade illustrated on the profile.

19. As previously noted, the applicant shall provide stormwater mitigation and design calculations for the runoff generated by the net increase in impervious surface for the 100-year, 24-hour storm event.

See comment below related to the proposed stormwater mitigation.

20. As previously noted, the roof leaders for the garage <u>should be shown on the plan</u> to clarify how stormwater will be conveyed to the storm water planter.

Comment satisfied.

21. As previously noted, the plan shall include the size, slope, and material of the footing drain pipe and provide outlet protection details.

Comment satisfied.

22. The plan proposes planting a total of 18 Green Giant Arborvitae along the northern property line, eight (8) of which are proposed to be planted on the adjoining property. The applicant should provide an agreement with the neighboring property owner to install the plantings as proposed.

#### **DRAINAGE ANALYSIS REVIEW COMMENTS:**

1. Add stone at the stormwater planter weir discharge locations to act as a splash pad.

Comment satisfied.

2. The Northeast Regional Climate Center Extreme Precipitation Estimates for rainfall should be used in the stormwater calculations, not the 2002 NYSDEC Manual estimates.

Chairperson Janet Andersen Bernabo – 96 Post Office Road February 16, 2024 Page 6 of 7

While the NRCS Extreme Precipitation rainfall data has been used for the filter bed design, the hydrologic analysis has not been updated. The routing analysis shall be revised, as needed, utilizing the updated storm data.

3. Water Quality Calculations, in accordance with the New York State Stormwater Management Design Manual (NYS SMDM) – Chapter 5 Design Guidelines, should be added to the Drainage Analysis Synopsis.

The applicant has provided the filter bed design consistent with the NYS SMDM. Comment satisfied.

4. The two (2), 6" perforated pipes at the base of each of the stormwater planters, which discharge towards the wetlands, should be modeled within the design calculations. These discharges were not included in the current calculations.

The hydrologic analysis correctly models the ponding and overflow conditions for each of the filter bed planters. As previously stated, however, the two (2) underdrains for each planter should be included in the hydrologic analysis to accurately reflect the outlet discharges associated with the lower storm events. The model currently provides no discharge flows for the 1-, 2- and 10-year storm events. Please revise as necessary.

5. The stone outlet sediment trap, located west of the driveway, should be modeled within the stormwater calculations, along with the contributing drainage area.

This has been removed from the plan. Comment satisfied.

6. The soil media specifications for stormwater planters, per the NYS SMDM, should be added to the Site Plan and Drainage Analysis Synopsis.

#### Comment satisfied.

7. The applicant shall perform deep and percolation soil testing in the vicinity of the proposed mitigation system to be witnessed by the Town Engineer. The test locations and results shall be shown on the plan. Contact this office to schedule the testing.

The requested soil testing has not been conducted to be witnessed by this office. We note that because this is a filtering practice and not relying upon underlying soils for infiltration that the previously requested percolation testing can be suspended. We will want to see the deep tests to verify the need for the proposed underdrains.

Chairperson Janet Andersen Bernabo – 96 Post Office Road February 16, 2024 Page 7 of 7

- 8. Because the project does not meet the threshold required to provide post-construction stormwater management, in accordance with the NYSDEC Regulations, Questions 27 through 39 of the NOI shall be left blank. Please revise as necessary.
- 9. The elevation of the overflow wears shown on the planter cross section and plan view shall be coordinated. The cross section indicates an elevation of 487.0, while the planned indicates an elevation of 487.25.

In order to expedite the review of subsequent submissions, the applicant should provide annotated responses to each of the comments outlined herein.

#### PLANS REVIEWED, PREPARED BY P.W. SCOTT, DATED JANUARY 24, 2024:

- Cover Sheet (CS)
- IRSP Erosion Control Plan (SY1)
- Concrete Planter Details (SY2)
- Driveway Details (SY3)
- Tree Preservation Plan (SY4)
- Rock Wall Removal Plan
- Pre Post Drainage Overlay (D1)

#### **DOCUMENTS REVIEWED:**

- Letter, prepared by P.W. Scott, dated January 24, 2024
- Stormwater Pollution Prevention Plan Report, dated January 24, 2024
- Drainage Analysis Synopsis, dated January 24, 2024
- House Renderings

#### JKJ/dc

 $https://kellardsessionsconsulti.sharepoint.com/sites/Kellard/Municipal/Lewisboro/Correspondence/2024-02-16\_LWPB\_Bernabo-96\ Post\ Office\ Road\_Review\ Memo.docx$ 

TO: The Town of Lewisboro Planning Board

FROM: Lewisboro Conservation Advisory Council

SUBJECT: Bernabo vacant land, 96 Post Office Road, Waccabuc, NY 10597

DATE: February 6, 2023

The Conservation Advisory Council (CAC) has reviewed the materials submitted by the applicant for a new well, septic and house.

Based on the building inspector's denial of a building permit, the CAC has not additional comments. The comments from the previous note still apply (below).

The entire project is in the wetland buffer. At one time this property was considered unbuildable due to its nearness to the wetland and possible wetness of the soil.

The CAC would like to see the wetland and the 150 foot buffer lines clearly marked. Given the closeness to the wetland, the CAC would like to see:

- A calculation of the disturbance and the associated mitigation planting plan size to meet
  the 1 to 1 criteria. The notes imply that a 1 to 1 mitigation plan may not be possible.
  The applicant stated that off-site mitigation would be achieved by removing invasive offsite. A plan needs to be provided that describes this removal, that demonstrated that
  such an action actually provides useful mitigation in lieu of the one-to-one criteria and
  that demonstrates some measure of control of the off-site location as required by the
  ordinance. Given the closeness to the wetland, the CAC feels a robust mitigation plan
  should be provided.
- A document titled "Tree Preservation" was submitted but this does not appear to be a list of trees being preserved based on the drawings. The CAC would like to see a more accurate document.
- A stormwater management plan
- A soil report, both for the septic area and to determine if there are wet areas in the buffer that may be disturbed.

	P.W. Scott	pwscott@pwscott.com
	Engineering & Architecture, P.C.	www.pwscott.com
	3871 Danbury Rd (Route 6)	(845) 278-2110
	Brewster, NY 10509	

January 24, 2024

Ms. Janet Anderson, Planning Board Chairperson Planning Board Members Town of Lewisboro 79 Bouton Road South Salem, NY 10590 planning@lewisborogov.com

Re: 96 Post Office Rd

Dear Ms. Anderson and Planning Board Members,

Attached is a revised site plan in response to our recent conversation. The plans have been revised to minimize site development impacts to the site with the house footprint totaling 1,700 sf.

The following is a comparison to the 12/12/23 submission:

- 1. Moved the driveway closer to the house, with 10' length reduction and Grasscrete reduction from 1,950 sf to 1,850 sf (-100 sf). None in wetland. Septic tanks and grading prevent further compaction of the driveway.
- 3. Reduced total deck area from 980 sf to 840 sf (-140 sf).
- 4. Planter remains at 320 sf size based upon roof size -
  - The planter is split with north half inserted into the garage footprint, the south side is the remaining required sf which establishes the length of the southern deck.
  - Note: Planter must be 50.0 ft from the septic trenches as noted on the site plan.
- 5. House footprint remains at 1,700 sf x 2 stories including the garage.
- 6. SSDA No change with this amendment.
- 7. The cantilevered deck on the west side of the residence is narrowed to 6.0 ft wide and is moved beyond the wetland line by making the house narrower for access to the southern deck. This deck width allows doors to open along the west face of the building with room for an aisle.
- 8. Relocated the upland mitigation plantings closer to the house to replace the barberry which currently covers the east side of the wetland, extending to the stream as mitigation equal to upland disturbances.

Net reduction of disturbance: 240 sf

These revisions now eliminate any wetland encroachments. Upland areas are mitigated with either planters or grass/wetland plantings.

Please accept this site plan for review. Three dimensional renderings of the house architecture and revised SWPPP are included for this.

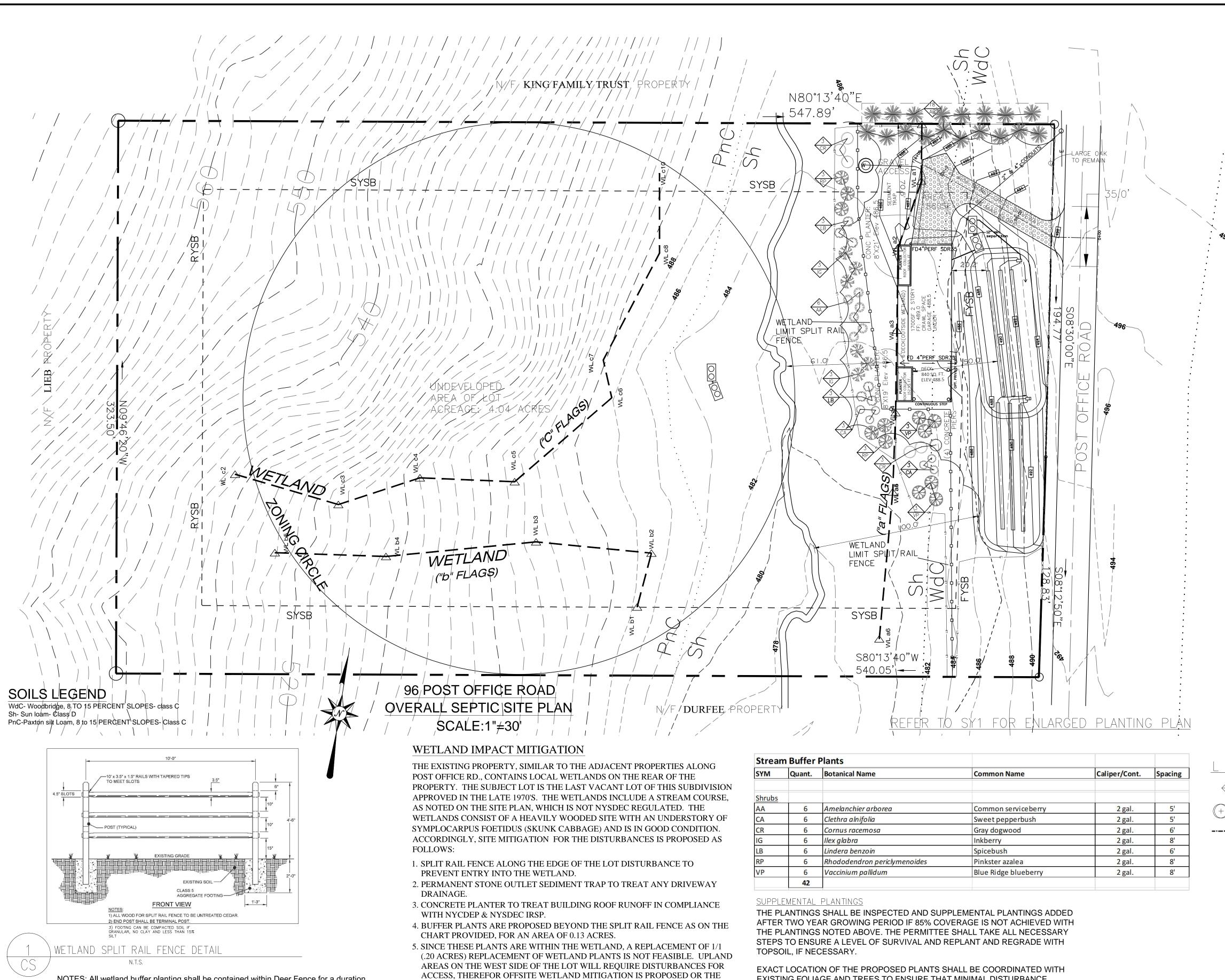
With regards,

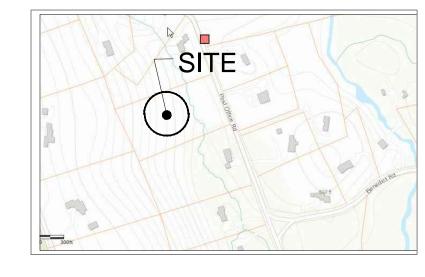
Peder Scott

Peder Scott, P.E., R.A.

President

Attach







## **Zoning Tabluation** Zone: RA4

	Required	Proposed
Min. Lot Area:	4.0	4.04
Lot Width (circle ft):	250.0	320.0
Min. Yards		
Front - Street Center Line	75.0	71.3*
Front - Front Lot Line	50.0	54.0
Side Setback:	50.0	78.5
Rear Setback:	50.0	439.14
Max. Building Steel		
Stories	2.5 Stories	2 Story
Feet	35 Feet	28 Feet
Max. Building Coverage:		
House & Planter		
Footprint:2,020 sf	6.0%	1.10%
Treatment Planter: 320 sf		
(included in coverage)		
Including Deck: 1500 sf		2.0%

.062 acre; 2694 sf	planter & well & grading
0.162 acre; 7074 sf	planter & well & grading
0.462 acre, 20,124 sf	driveway & SSDS Area
0.50 acre; 21780 sf	driveway & SSDS Area
	0.162 acre; 7074 sf 0.462 acre, 20,124 sf

		5/30/2023	9/20/2023	11/27/2023
CS	COVER SHEET	✓	<b>~</b>	<b>✓</b>
SY1	IRSP EROSION CONTROL PLAN	✓	<b>✓</b>	
SY2	CONCRETE PLANTER DETAILS	✓	✓	
SY3	DRIVEWAY DETAILS		✓	
SY4	TREE PRESERVATION PLAN		<b>√</b>	
SP1	SEPTIC PLAN - NEW CONSTRUCTION	<b>√</b>	No change	No change
D1	DRAINAGE OVERLAYS		<b>✓</b>	

EGEND QUANTITY
SPECIES PLANT SYMBOLS

----- DEER FENCING ADJACENT TO SPLIT RAIL FENCE

PROPERTY IDENTIFICATION

DWNER: ALEX BERNABO wDESIGNE, INC.

ADDRESS: 3867 DANBURY ROAD BREWSTER NY 10509

E911 # : 96 POST OFFICE ROAD, LEWISBORD

LEWISBORD T.M. SHEET 25 BLOCK 10812 LOT 3

PROPERTY ADDRESS: 96 POST OFFICE ROAD LEWISBORO, NY 10590

NYC DEP WATERSHED: CROSS RIVER BASIN

AREA OF HOUSE

PROPOSED:: 2600 SF+ 600SF GARAGE # BEDROOMS: 2 BEDROOM

Revisions Dwg. Title COVER SHEET P. W. SCOTT No. Date Description 96 POST OFFICE ROAD A 8/16/23 REVISED PER TE MEMO roject Title ENGINEERING & ARCHITECTURE, P.C. LEWISBORO, NY B 9/20/23 REVISED PER TE MEMO C 11/27/23 2 STORY HOUSE OPTION Proj. No. 21—110 3871 ROUTE 6



EXACT LOCATION OF THE PROPOSED PLANTS SHALL BE COORDINATED WITH EXISTING FOLIAGE AND TREES TO ENSURE THAT MINIMAL DISTURBANCE TAKES PLACE WITH EXISTING VEGETATION

Visi	ual E	Buffe	r Plar	its

SYM	Quant.	Botanical Name	Common Name	Caliper/Cont.	Spacing
Trees					
AB	10	Arborvitae- Thuja	Green Giant Arborvitae	2" (8 feet)	12'

_PLPL	- PROPERTY LINE	RD/FD	ROOF AND FOOTING DRAIN
468	— EXISTING CONTOUR		SDIL BOUNDARY
× 463.3	EXISTING SPOT ELEVATION	SF-SF	SILT FENCE
(472)	PROPOSED CONTOUR	$\boxtimes$	EXISTING CATCH BASIN
HP	HIGH POINT IN GRADE	_^ <b>&gt;</b>	PROPOSED SWALE
X (463.3)	PROPOSED SPOT ELEVATION		WATER LINE
<b>⊕</b> PT#	PERCOLATION TEST HOLE		EVISTING VELL

LEGEND

of THREE (3) years minimum.

DEEP TEST HOLE

Provide a single 3.0 ft opening for access to property.

NOTES: All wetland buffer planting shall be contained within Deer Fence for a duration

EXISTING WELL \_\_\_\_\_ STREAM 100' SETBACK LINE

WATERCOURSE BUFFER NOTES

1. REMOVE BROKEN LIMBS AND DEBRIS FROM THE WATERCOURSE.

2. CLEAN UP THE BUFFER AREA TO A WIDTH OF 15' ON EACH SIDE OF THE WATERCOURSE. 3. INSTALL FERNS AND SHRUBS AS NOTED ON THE PLAN. 4. OVER-SEED THE FILTER STRIP AREA WITH A

REMOVAL OF INVASIVE BARBERRY PLANTS ACROSS THE SITE (2 ACRES

PERMISSION OF P.W. SCOTT ENGINEERING AND ARCHITECTS, P.C.

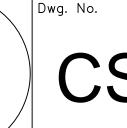
CONSERVATION GRASS SEED MIX. 5. MULCH THE ENTIRE AREA WITH WEED FREE STRAW. 6. SURROUND NEW PLANTINGS WITH DEER FENCING FOR 3

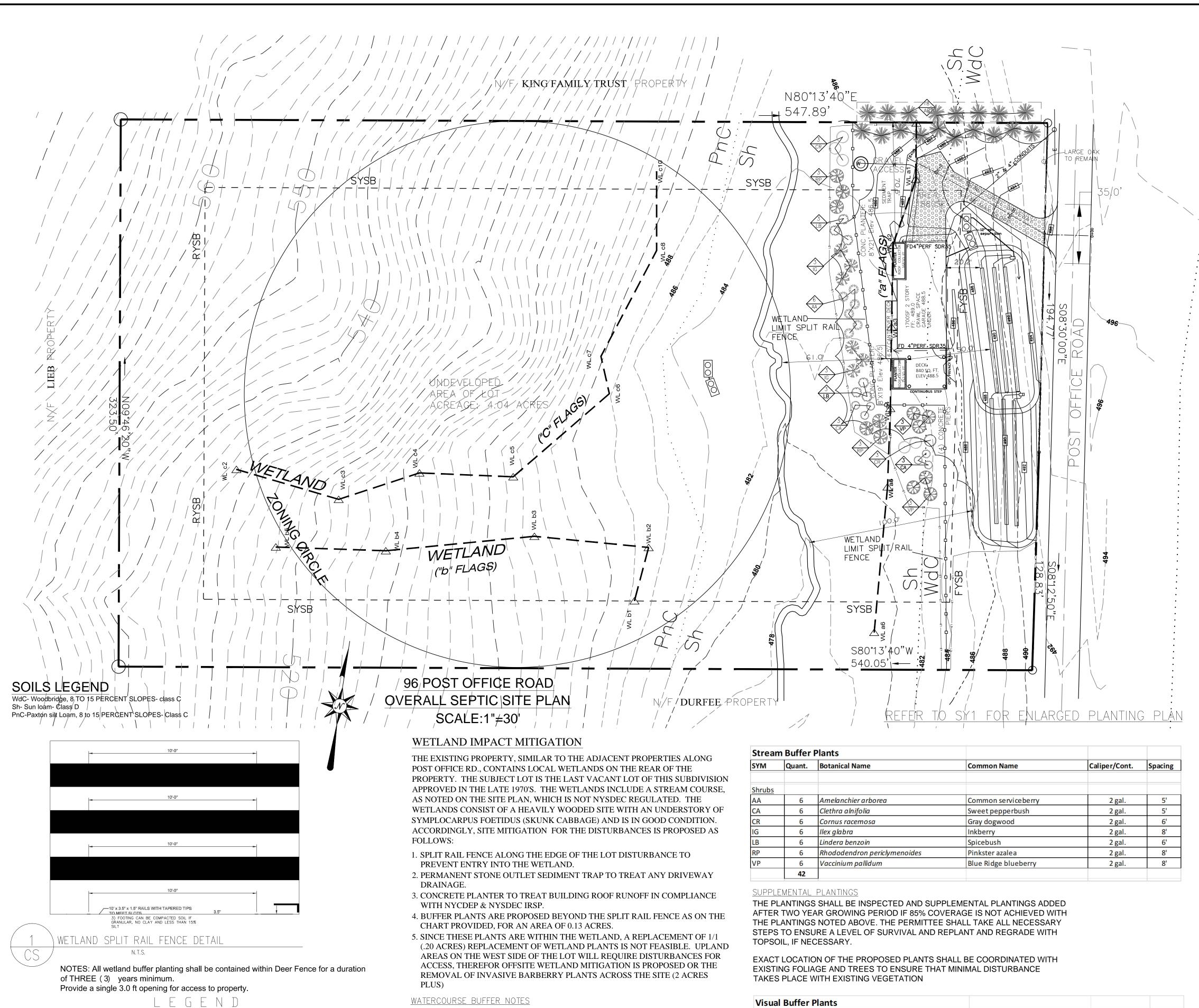
YEARS TO ALLOW GROWTH OF PLANTS.

NOTE: DO NOT SCALE DRAWINGS DIMENSIONS SUPERCEDE SCALE THESE DRAWINGS ARE THE SOLE PROPERTY OF P.W. SCOTT ENGINEERING AND ARCHITECTS, P.C. AND WILL

NOT BE REPRODUCED BY ANY MEANS AND BE GIVEN TO ANY OTHER TRADES/PERSONS WITHOUT THE EXPRESS

Drawn by MA/PWS D 12/27/23 MOVED DRIVE/SPLIT PLANTER E 1/24/24 2 PLANTER DESIGN 5/25/23 AS NOTED Scale BREWSTER, NY 10509 845-278-2110





1. REMOVE BROKEN LIMBS AND DEBRIS FROM THE

EACH SIDE OF THE WATERCOURSE.

CONSERVATION GRASS SEED MIX.

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SYM Quant. Botanical Name

NOTE: DO NOT SCALE DRAWINGS

DIMENSIONS SUPERCEDE SCALE

10 Arborvitae- Thuja

Common Name

Green Giant Arborvitae

BREWSTER, NY 10509 845-278-2110

WATERCOURSE.

■ RD/FD ROOF AND FOOTING DRAIN

\_\_\_\_\_ SILT FENCE

\_\_\_\_ STREAM 100' SETBACK LINE

EXISTING CATCH BASIN

EXISTING WELL

• • • • SOIL BOUNDARY

PROPOSED SWALE

- → WL## - → WL## WETLAND LINE

W WATER LINE

—<del>PL</del> — — — PROPERTY LINE

X (463.3)

EXISTING SPOT ELEVATION

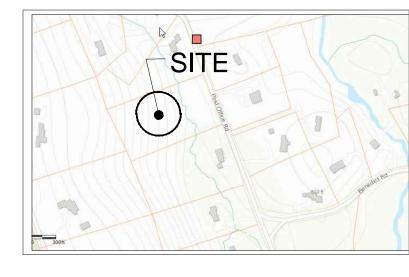
PROPOSED SPOT ELEVATION

PERCOLATION TEST HOLE

PROPOSED CONTOUR

DEEP TEST HOLE

HIGH POINT IN GRADE





# **Zoning Tabluation** Zone: RA4

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		5/30/2023	9/20/2023	11/27/2023
CS	COVER SHEET	✓	✓	✓
SY1	IRSP EROSION CONTROL PLAN	✓	✓	
SY2	CONCRETE PLANTER DETAILS	✓	✓	
SY3	DRIVEWAY DETAILS		✓	
SY4	TREE PRESERVATION PLAN		✓	
SP1	SEPTIC PLAN - NEW CONSTRUCTION	✓	No change	No change
D1	DRAINAGE OVERLAYS		✓	

QUANTITY
SPECIES PLANT SYMBOLS

----- DEER FENCING ADJACENT TO SPLIT RAIL FENCE

PROPERTY IDENTIFICATION

ALEX BERNABO

ADDRESS: 3867 DANBURY ROAD BREWSTER NY 10509

E911 # : 96 POST OFFICE ROAD, LEWISBORD

LEWISBORO, NY 10590

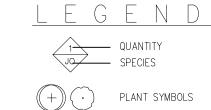
NYC DEP WATERSHED: CROSS RIVER BASIN

PROPOSED:: 2600 SF+ 600SF GARAGE # BEDROOMS: 2 BEDROOM

Dwg. No.

CS

Revisions COVER SHEET Dwg. Title P. W. SCOTT No. Date Description 96 POST OFFICE ROAD A 8/16/23 REVISED PER TE MEMO roject Title ENGINEERING & ARCHITECTURE, P.C. LEWISBORO, NY B 9/20/23 REVISED PER TE MEMO C 11/27/23 2 STORY HOUSE OPTION Drawn by MA/PWS roj. No. 21—110 3871 ROUTE 6 D 12/27/23 MOVED DRIVE/SPLIT PLANTER 5/25/23 AS NOTED



DWNER:

Scale

wDESIGNE, INC.

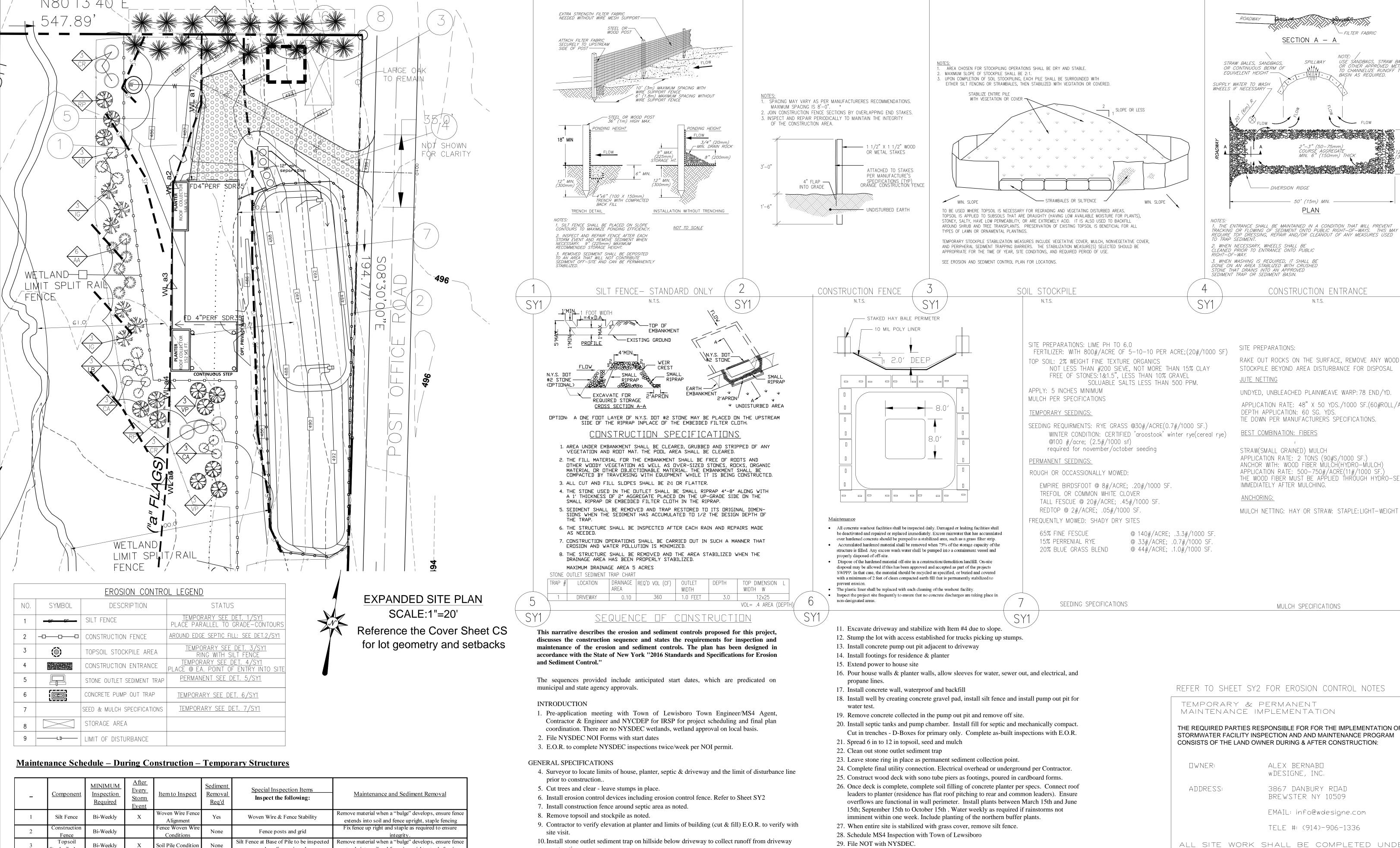
LEWISBORO T.M. SHEET 25 BLOCK 10812 LOT 3

PROPERTY ADDRESS: 96 POST OFFICE ROAD

AREA OF HOUSE

Caliper/Cont. Spacing

2" (8 feet)



Bi-weekly, remove sediment, set stones to correct Stone Placement & Stone & Sediment Accumulation profile, fix berm blow-outs Location Due to the downhill proximity of the well, it is Soil Stability NOTE: DO NOT SCALE DRAWINGS Once filled topsoil, seed & mulch commended to remove the concrete off-site once curred

extends into soil and fence is upright, staple fencing

Repair Top Dressing with additional aggregate and

correct stone placement.

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and seeding reviewed

Stone Placement & soil deposit betweer

tockpile Ar

onstruction

Entrance

Stone Outlet

Concrete

Pump Out

Weekly

Bi-Weekly

M onthly

Stone Placement

DIMENSIONS SUPERCEDE SCALE THESE DRAWINGS ARE THE SOLE PROPERTY OF P.W. SCOTT ENGINEERING AND ARCHITECTS, P.C. AND WILL NOT BE REPRODUCED BY ANY MEANS AND BE GIVEN TO ANY OTHER TRADES/PERSONS WITHOUT THE EXPRESS

Dwg. Title IRSP EROSION CONTROL PLAN Revisions P. W. SCOTT No. Date Description A 5/8/23 REVISE PER WCDOH 5/8/23 MEMO Project Title 96 POST OFFICE ROAD, LEWISBORO, NY ENGINEERING & ARCHITECTURE, P.C. B 8/16/23 REVISED PER TE MEMO C 9/20/23 REVISED PER TE MEMO roj. No. 21 - 110Drawn by MA/PWS 3871 ROUTE 6 D 11/27/23 2 STORY HOUSE OPTION E 1/24/24 2 PLANTER DESIGN 3/30/23 AS NOTED Scale BREWSTER, NY 10509 845-278-2110

Project complete

REFER TO SHEET SY2 FOR EROSION CONTROL NOTES

TEMPORARY & PERMANENT MAINTENANCE IMPLEMENTATION

THE REQUIRED PARTIES RESPONSIBLE FOR FOR THE IMPLEMENTATION OF STORMWATER FACILITY INSPECTION AND AND MAINTENANCE PROGRAM CONSISTS OF THE LAND OWNER DURING & AFTER CONSTRUCTION:

> ALEX BERNABO wDESIGNE, INC.

3867 DANBURY ROAD BREWSTER NY 10509

EMAIL: info@wdesigne.com

TELE #: (914)-906-1336

ALL SITE WORK SHALL BE COMPLETED UNDER THE DIRECT SUPERVISION OF A LICENSED

ENGINEER IN THE STATE OF NEW YORK.

USE SANDBAGS, STRAW BALES OR OTHER APPROVED METHOD

BASIN AS REQUIRED.

OR CONTINUOUS BERM OF

— DIVERSION RIDGE

SITE PREPARATIONS:

JUTE NETTING

<u>ANCHORING:</u>

50' (15m) MIN.

PLAN

CONSTRUCTION ENTRANCE

RAKE OUT ROCKS ON THE SURFACE, REMOVE ANY WOOD

STOCKPILE BEYOND AREA DISTURBANCE FOR DISPOSAL

UNDYED, UNBLEACHED PLAINWEAVE WARP: 78 END/YD.

TIE DOWN PER MANUFACTURERS SPECIFICATIONS.

APPLICATION RATE: 2 TONS (90#S/1000 SF.)

ANCHOR WITH: WOOD FIBER MULCH(HYDRO-MUICH)

APPLICATION RATE: 500-750#/ACRE(11#/1000 SF.)

MULCH SPECIFICATIONS

DEPTH APPLICATION: 60 SG. YDS.

BEST COMBINATION: FIBERS

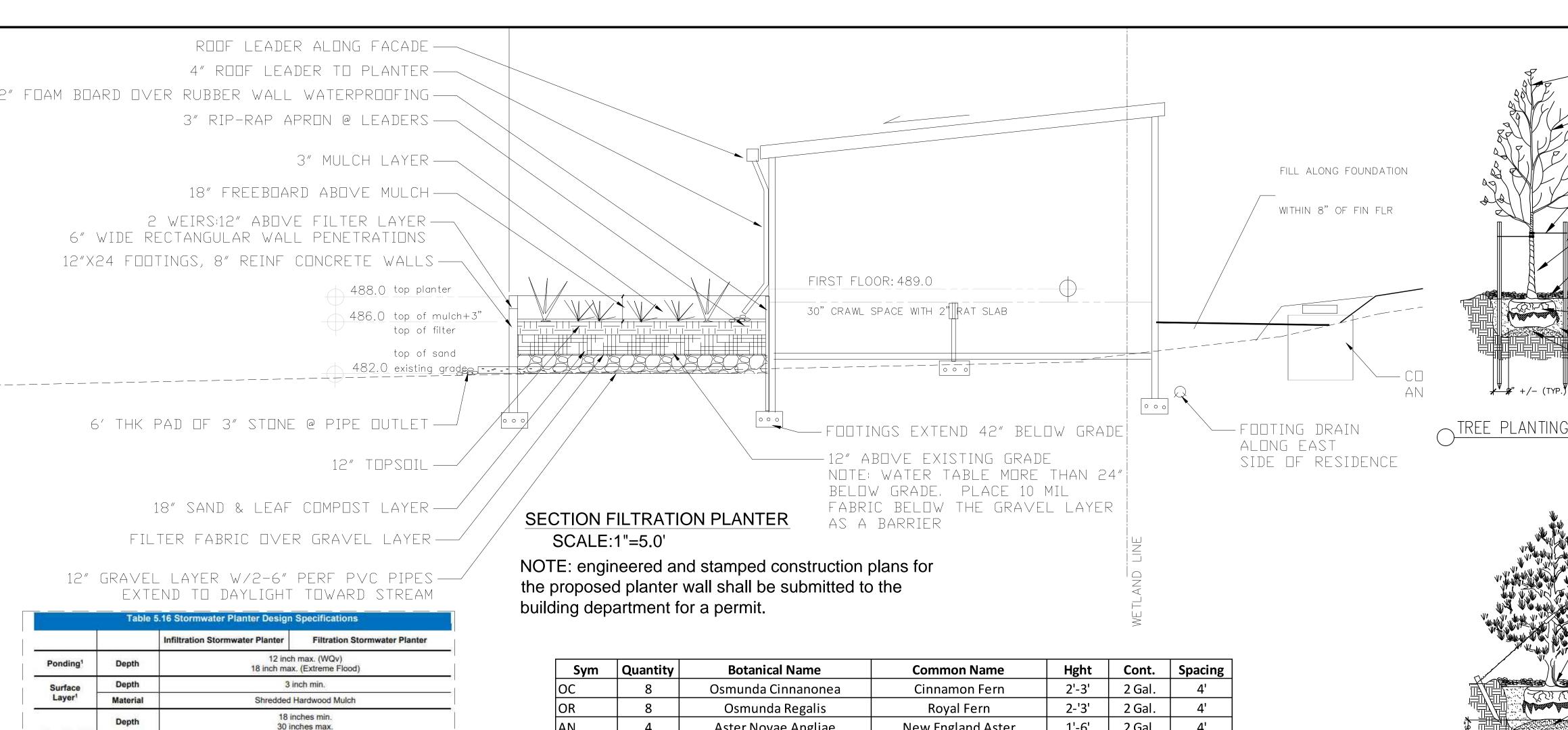
STRAW(SMALL GRAINED) MULCH

IMMEDIATELY AFTER MULCHING.

APPLICATION RATE: 48" X 50 YDS./1000 SF.(60#ROLL/ACRE)

THE WOOD FIBER MUST BE APPLIED THROUGH HYDRO-SEEDER

MULCH NETTING: HAY OR STRAW: STAPLE: LIGHT-WEIGHT JUTE



Sym	Quantity	<b>Botanical Name</b>	Common Name	Hght	Cont.	Spacing
OC	8	Osmunda Cinnanonea	Cinnamon Fern	2'-3'	2 Gal.	4'
OR	8	Osmunda Regalis	Royal Fern	2-'3'	2 Gal.	4'
AN	4	Aster Novae Angliae	New England Aster	1'-6'	2 Gal.	4'
CS	10	Carex Stricta	Tussock Sedge	1'-3'		4'
CG	8	Chelone Glabra	White Turtlehead	2'-3'		4'
EP	8	Eupatorium Perfoliaturn	Bone Set	3'-4'		4'
LC	10	Lobelia Cardinalis	Cardinal Flower	1'-5'		4'
ML	TRAY	Myosotis Laxa	Smaller Forget-Me-Not	3"-6"		4'
FR	TRAY	Festuca Rubra	Red Fescue	1"-10"		2'
IV	10	Iris Versicolor 1	Blue Flag	2'-4'		4'
RH	2	Rhododendrom Canadense	Rhododendroms	2'-4'	2 Gal.	8'

Ornamental Trees

Selected by Owner - Shade Tolerant

PLANTING SCHEDULE TOTAL: 2 PLANTERS

# PLANTER MATERIAL SPECS

3 Topsoil shall conform to NYSDOT Standard Specification 713-01 for Roadside Mix or Specialty Planting Mix.

6 inches min.

ASTM C-33 Sand: 60%-75%

Topsoil3: 25%-40%

AASHTO No. 57 stone, washed, no fines

Non-woven, polypropylene geotextile with flow rate greater than 125 gpm/sf

(ASTM D4491) and Apparent Opening Size US #70 sieve (ASTM D4751)

12 - 24 inch of clay soil (min. 50% passing #200 sieve and max. permeability

1 x 10<sup>-5</sup> cm/sec)

or 40 mil HDPE geomembrane

6" perforated PVC or HDPE laid at 0.5% slope min. at 30 ft max. O.C.

10 inches min.

As Required

Required

Filter Media

Drainage Filter Fabric<sup>1</sup>

Impermeabl

Footnotes:

Liner

Material

Depth

Material<sup>2</sup>

Applicability

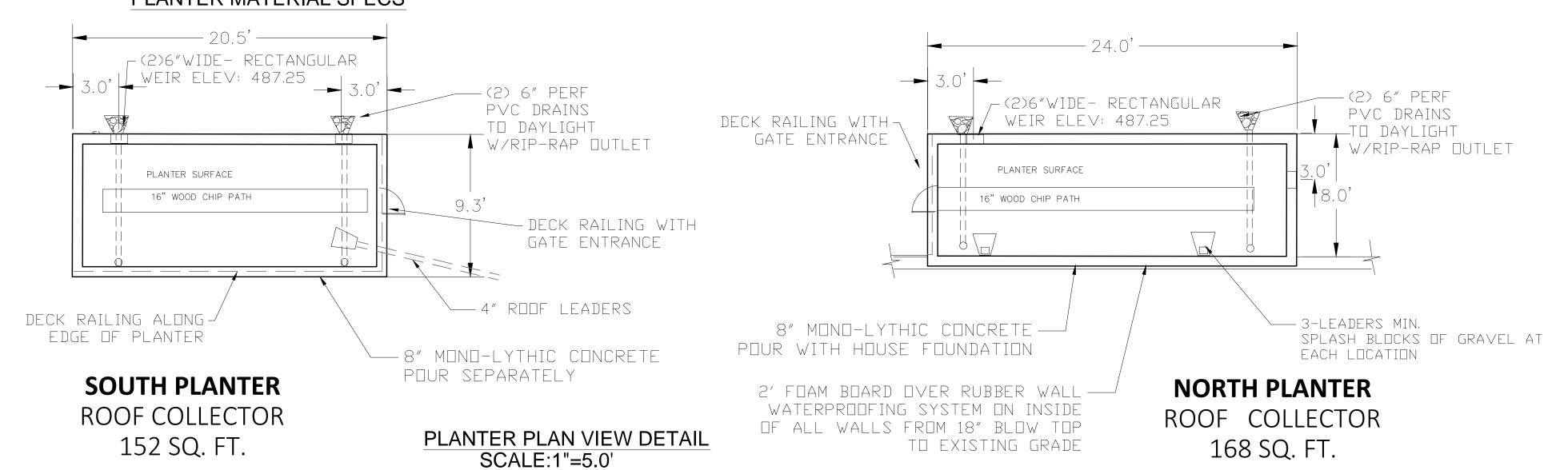
Material

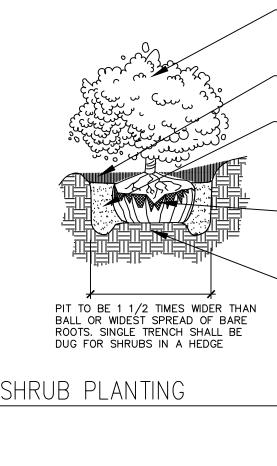
Applicability

Material

<sup>2</sup>Or acceptable alternatives, such as a 3 inch minimum layer of pea gravel

Required for all Design Variants





SHALL BE PRUNED TO UNIFORM HEIGHT AND SPREAD " MIN SHREDDED PINE BARK MULCH UNLESS OTHERWISE BACKFILL WITH PLANTING MIX PART PEAT MOSS 5 LBS/CY BONE MEAL 3 LBS/CY 5-10-5 FERTILIZER UNLESS OTHERWISE SPECIFIED

PRUNE DECIDUOUS SHRUB BACK

ANDSCAPE ARCHITECT. HEDGES

1/3 OR AS DIRECTED BY

1/3 OF ROOT BALL. REMOVE ALL YLON AND WIRE STRAPPING FROM AROUND TRUNK AND ROOT LOOSEN SUBSOIL 3" BELOW PIT PRUNE DEAD WOOD DECIDUOUS STOCK MAY BE SET

1"-3" DEEPER THAN

SURROUNDING GRADE

REMOVE BURLAP FROM UPPER

NOTES: DO NOT ADD FERTILIZER TO PLANTING SOIL FOR FALL PLANTINGS

PLAN- PERENNIALS AND GROUNDCOVER SPACING

PLANT CENTER TYPICAL ON CENTER SPACING AS LABELED ON PLANTING PLAN OR LIST

PLANT SPACING AS PER PLAN

2" PINE BARK MULCH

INSTALLED BEFORE PLANTING PLANTING SOIL JNLESS OTHER WISE SPECIFIED 3 PARTS TOPSOIL 1 PART SAND 1 PART PEAT MOSS 5 LBS/CY BONE MEAL 3LBS/CY 5-10-5 FERTILIZER

ELEVATION

# PERENNIAL & GROUND COVER PLANTING

2. THE LANDSCAPE ARCHITECT RESERVES THE RIGHT TO REJECT INFERIOR PLANT MATERIALS AND SUBSTITUTIONS. THE LANDSCAPE ARCHITECT IS WILLING TO MAKE TWO TRIPS TO SUPPLIERS TO REVIEW AND APPROVE MATERIALS. PREVIOUSLY UNAPPROVED MATERIALS

(ANSI Z60.1 - 1996) OF THE AMERICAN ASSOCIATION OF NURSERYMEN. 3. BE AWARE OF ALL UNDERGROUND UTILITIES PRIOR TO ANY PLANTING OPERATIONS. CONTACT "CALL BEFORE YOU DIG" PRIOR TO EXCAVATION. 4. MULCH ALL BEDS WITH A 2" MINIMUM OF SHREDDED CEDAR OR PINE BARK MULCH. SAMPLE TO BE SUBMITTED FOR APPROVA

MAY BE REJECTED AT THE SITE. MINIMALLY, ALL MATERIALS WILL CONFORM TO THE "AMERICAN STANDARD FOR NURSERY STOCK"

5. ALL PLANT MATERIAL (TO INCLUDE TREES, SHRUBS, PERENNIALS, GROUNDCOVERS, AND VINES) SHALL BE GUARANTEED BY THE CONTRACTOR TO BE IN GOOD, HEALTHY AND FLOURISHING CONDITION FOR A PERIOD OF ONE YEAR FROM THE DATE OF ACCEPTANCE. THE CONTRACTOR SHALL REPLACE, AS SOON AS WEATHER AND SEASONAL CONDITIONS PERMIT, ALL DEAD PLANTS AND ALL PLANTS NOT IN A VIGOROUS, THRIVING CONDITION, AS DETERMINED BY THE LANDSCAPE ARCHITECT DURING, AT THE END OF THE GUARANTEE PERIOD. WARRANTY REPLACEMENT WILL BE PROVIDED AT NO COST TO THE OWNER AND INCLUDE MATERIALS AND LABOR. CONTRACTOR IS RESPONSIBLE FOR REPAIR OF ANY DAMAGE INCURRED DURING REPLACEMENT OF WARRANTY MATERIALS.

6. THE CONTRACTOR SHALL BE REQUIRED TO CARRY WORKMEN'S COMPENSATION INSURANCE AND COMPREHENSIVE GENERAL INSURANCE. CERTIFICATES WILL BE REQUIRED PRIOR TO SIGNING CONTRACT. 7. DEER PROTECTION MUST BE MAINTAINED THROUGH INSTALLATION. REPELLANT MUST BE APPROVED BY LANDSCAPE ARCHITECT PRIOR TO APPLICATION. FINAL APPLICATION OF DEER PROTECTION IS REQUIRED AT COMPLETION OF WORK.

# EROSION CONTROL MAINTENANCE

EADER MUST REMAIN INTACT. O NOT PRUNE HEAD UNLESS

SPECIFICALLY INSTRUCTED BY

THE LANDSCAPE ARCHITECT

GUYING FOR TREES UP TO 16' HT. 2 STRANDS OF 12 GAUGE

GALV. WIRE WITH 4" LENGTH 1/2" DIAM. BLACK RUBBER

ROUND NATIVE CEDAR OR

HARDWOOD STAKES, 8' MIN. LENGTH - 2 PER TREE TREE WRAPPING

3" DEEP MIN. SHREDDED BARK

PIT SHALL BE 1 1/2 TIMES

PLANT SO THAT TOP OF ROOT

CUT BURLAP LOOSE FROM TOP

1/3 OF ROOT BALL AND FOLD DOWN. REMOVE ALL NYLON AND WIRE STRAPPING FROM

PLANTING MIXTURE SEE SPEC.

LOOSEN SUBSOIL 6" BELOW PIT

SUCH THAT THE TRUNK FLARE IS VISIBLE AT THE TOP OF THE

ROOT BALL. DO NOT COVER THE TOP OF ROOT BALL WITH

CUT ROPES AND PEEL BACK

BURLAP FROM TOP HALF OF

TAMP SOIL AROUND ROOT
BALL FIRMLY SO THE ROOT
BALL DOES NOT SHIFT

PINE BARK MINI CHIPS -

TAMPERED OR UNEXCAVATED

PREPARED BACKFILL MIXTURE

OF TOP QUALITY FERTILE

DEHYDRATED MANURE AND

HOLLY- TONE PLANT FOOD

NOTE: TOP OF BALL AT SAME

LEVEL AT WHICH TREE WAS

CREATE SOIL SAUCER

TILL PLANT PIT WITH

TOPSOIL, PEAT MOSS,

ROOT BALL

2" DEPTH

AROUND TREE

NOT TO SCALE

BALL IS EVEN WITH FINISHED

WIDER THAN ROOT BALL

FORM EARTH SAUCER

AROUND TRUNK AND

ROOTBALL.

PRUNE DEAD WOOD

# 9.0 Maintenance Practices - Temporary

Refer to table- drawing SY1

# 9.2.1 Stabilized Construction Entrance/Exit

TWICE DIAMETER -

, EVERGREEN PLANTING

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 Construction Fence

Maintenance consists of ensuring that the fence posts are upright and unbroken. The fence shall remain taut between posts and any debris trapped by the fence shall be removed and disposed of off-site. Supplemental posts may be required to support broken fence posts.

# 9.2.7 Material Handling/Soil Stabilization

The ensure that the site is 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.

# 9.1 Maintenance Practices - Permanent

# 9.3.1 Sediment Trap Stone Outlet

Maintenance consists of weekly inspection during construction for stone placement, edge erosion and sediment build-up. Sediment should be removed every one year or when trap is one half full, 18 in deep.

# 9.3.2 Concrete Planter

1. Debris and trash removal required on weekly basis initially and monthly if debris not evident. Ensure outlet weirs in wall are clean.

2. Inspect planter after each storm event greater than 0.5 inches and at least twice in the first six months. After six months, inspect seasonally and after storms greater than 1-year storm event.

# 3. Maintenance consists of:

Pruning and replacing dead or dying vegetation.

# Plant thinning and erosion repair.

4. Inspect surface for sediment build up from roof and for surface ponding.

5. The first season requires special care to ensure plant survival and possible supplemental watering due to rainfall events.

# REFER TO FINAL FOUNDATION PLANS FOR REINFORCEMENT AND WALL CONSTRUCTION SPECS

Revisions CONCRETE PLANTER DETAILS Dwg. No. P. W. SCOTT No. Date Description A 5/8/23 NO REVISIONS Project Title 96 POST OFFICE ROAD, LEWISBORO, NY **ENGINEERING & ARCHITECTURE, P.C.** B 8/16/23 REVISED PER TE MEMO C 9/20/23 NO PLAN CHANGES roj. No. 21-110 Drawn by MA/PWS 3871 ROUTE 6 E 1/24/24 2 PLANTER DESIGN 3/30/23 AS NOTED Scale BREWSTER, NY 10509 845-278-2110

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NOTE: DO NOT SCALE DRAWINGS

# 96 Post Office Rd WACCABUC, NY (T) LEWISBORO COUNTY OF WESTCHESTER

# DRAINAGE ANALYSIS SYNOPSIS

Prepared By:

Peder W. Scott, P.E., R.A. P. W. Scott Engineering & Architecture, P.C. 3871 Danbury Rd. (Route 6) Brewster, NY 10509

January 24, 2024

### 96 Post Office Rd Waccabuc, NY (T) Lewisboro

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- 2. Watershed Worksheet EX1
- 3. Pond Pack Computer Printout
  - a. Watershed Summary
  - b. Tc Analysis
  - c. Hydrographs

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- 2. Watershed Worksheet WS1 & WS2
- 3. Pond Pack Computer Printout
  - a. Watershed Summary
  - b. Tc Analysis
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- 1. Planter Volume
- 2. Planter Outlet Structures
- 3. Planter Routing
- 4. Planter 1-Year Routing Time

#### **Existing Condition** (Refer to Sheet D1 & Attachment A)

Soil Condition WdC (Class C) Along Road

Sh (Class D)

Cover Woods

Travel Time From North Street frontage to Analysis Point A location on stream

as noted on Dwg D1

Area of Analysis consists of area disturbed on the lot – remainder is wooded and wetland areas undisturbed.

#### Input Data

EX1 - Existing Condition

Area = 0.651 acres

CN = 74.8

Tc = .167 hours

Refer to Drainage Worksheet

#### **Proposed Condition** (Refer to Sheet D1 & Attachment B)

Soil Condition – Wdc & Sh as noted above.

Cover – Woods remain at north property line and behind house.

Driveway - Gravel

Septic Area – Lawn

Deck – Assumes rainfall drains through deck to brush cover below

House Roof of 1,700 drains to (2) planters (brush cover) of 320 sf total

#### **Input Data**

#### WS1 Roof & Planter – WS1A North Planter

Area = 1,002 sf = .087 sf = 0.023 acres

CN = 89.7Tc = 0.10 hrs.

Tt to Point A (.02 hrs.) insignificant

#### WS1B South Planter

Area = 1.001 sf = 0.023 acres

CN = 90.6Tc = 0.10 hrs.

Tt to Point A (.02 hrs.) insignificant

#### WS2 – Remainder of lot drains directly to rear of lot – Wetlands.

Area = .605 acres

CN = 73.1

Tc = .134 hrs.

Includes Grasscrete driveway and parking area, septic lawn area, brush at rear of house Refer to Drainage Worksheets.

#### **Concrete Planter Routing Analysis**

Storm events per Extreme Precipitation Tables.

1-year 2.82 inches 2-year 3.40 inches 10-year 5.08 inches 100-year 9.04 inches

#### Concrete Flow through planter modeled as follows.

Planter Model

Filter @ 486.0

Wood Chips @ 486.25 (+3") (start of ponding)

Outlets (2) Weirs @ 487.25

Rectangular – 6" Long Weir Coef: 2.8 avg.

Infiltration assumed at 2.0 in/hour: Topsoil cover

#### **Routing of Planter - North**

The routing of the planter for the above storms is tabulated below:

Storm	In Flow (cfs)	Out Flow (cfs)	Elevation (ft)	Storm (ft)
100-Year	0.17	.08	487.34	0.005
10-Year	0.09	0.0	486.85	0.003
2-Year	0.05	0.0	486.45	0.002
1-Year	0.04	0.0	486.36	0.001

#### **Routing of Planter - South**

The routing of the planter for the above storms is tabulated below:

Storm	In Flow (cfs)	Out Flow (cfs)	Elevation (ft)	Storm (ft)
100-Year	0.17	0.12	487.37	0.005
10-Year	0.09	0.0	487.00	0.003
2-Year	0.05	0.0	486.52	0.002
1-Year	0.04	0.0	486.38	0.001

#### **Stormwater Attenuation Synopsis**

The following is an overall analysis of the quantitative discharge from the site due to the development proposed. Mitigation is in the form of the concrete flow through the planter providing the required attenuation.

The NYSDEC attenuation requirements are as follows:

- A) 1 Year Storm Event Channel Protection Reduce by 50% from pre-development levels Attenuation level met.
- B) 2 Year Storm Event Peak Discharge approx. reduced to 1 Year Storm Event Attenuation Level met
- C) 10 Year Storm Event Overbank Control Attenuate to below Pre-Development Levels
- D) 100 Year Storm Event Extreme Flood Control Attenuate to below Pre-Development Levels.

Analysis Point A				
	1 YR (cfs)	2 YR (cfs)	10 YR (cfs)	100 YR (cfs)
PRE	.48	.73	1.54	3.63
POST	.42	.65	1.41	3.49
NET	-0.6	-0.08	-0.13	-0.14
%	-12%	-11%	-8.5%	-3.8%

#### **Findings**

A. 1-Year Storm Event Channel protection could not be reduced by 50% even though planter did

not discharge any of the 1-year storm. Large area of pervious cover

discharges off site – reduction by 12%

B. 2-Year Storm Event Reduced is reduced by 12%. Could not meet the pre-development

discharge rate even though planter did not discharge any of the 2-year storm event. Large area of site drained directly into the wetland and

stream.

C. 10-Year Storm Event

Attenuation met to pre-development levels.

D. 100-Year Storm Event

Attenuation met to pre-development levels.

#### **Conclusion**

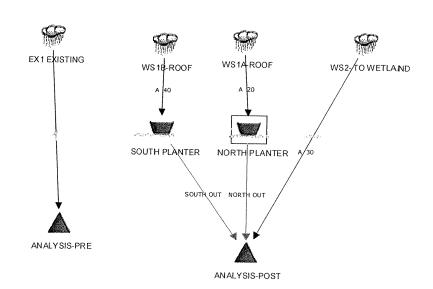
Planters attenuate stormwater discharge to the maximum extent possible while providing treatment of impervious areas on the site.

Remainder of the site is treated by riparian buffers in the place along the edge of the wetland, brush strip minimum of 20' wide @ 1% slope.

# ATTACHMENT A

# Pre-Development Analysis Watershed Worksheets

- 1. Pond Pack Model Schematic
- 2. Watershed Worksheet EX1
- 3. Pond Pack Computer Printout
  - a. Watershed Summary
  - b. Tc Analysis
  - c. Hydrographs



# Extreme Precipitation Tables

# Northeast Regional Climate Center

Data represents point estimates calculated from partial duration series. All precipitation amounts are displayed in inches.

		Metadata for Point
Smoo	Smoothing	Yes
State	ıte	
Loca	ocation	
Latitude	tude	41.290 degrees North
Longi	ongitude	73.579 degrees West
Elevation	ıtion	150 feet
Date/Time	Time	Thu Mar 30 2023 14:46:55 GMT-0400 (Eastern Davlight
		Time)

# Extreme Precipitation Estimates

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Type.... Design Storms Name.... WESTCH BRITTON

File.... C:\HAESTAD\PPKW\RAINFALL\STORMS.RNQ

Title...

#### JOB TITLE NOT SPECIFIED Click Project Summary on the File Menu to enter title

#### DESIGN STORMS SUMMARY

Design Storm File,ID = STORMS.RNQ WESTCH BRITTON

Storm Tag Name = 1-YR Description: 1 YEAR FIRST FLUSH

Data Type, File, ID = Synthetic Storm SCSTYPES.RNF TypeIII 24hr

Storm Frequency = 1 yr

Total Rainfall Depth= 2.6987 in

Duration Multiplier = 1

Resulting Duration = 30.0000 hrs

Resulting Start Time= .0000 hrs Step= .1000 hrs End= 30.0000 hrs

Storm Tag Name = 2 - YRDescription: 2 YEAR

Data Type, File, ID = Synthetic Storm SCSTYPES.RNF TypeIII 24hr

Storm Frequency = 2 yr

Total Rainfall Depth= 3.2538 in

Duration Multiplier = 1

Resulting Duration = 30.0000 hrs

Resulting Start Time= .0000 hrs Step= .1000 hrs End= 30.0000 hrs

Storm Tag Name = 10 - YR

Description: 10 YEAR

Data Type, File, ID = Synthetic Storm SCSTYPES.RNF TypeIII 24hr

Storm Frequency = 10 yr

Total Rainfall Depth= 4.8616 in

Duration Multiplier = 1

Resulting Duration = 30.0000 hrs

Resulting Start Time= .0000 hrs Step= .1000 hrs End= 30.0000 hrs

Storm Tag Name = 100-yr

Description: 100 yr

Data Type, File, ID = Synthetic Storm SCSTYPES.RNF TypeIII 24hr

Storm Frequency = 100 yr Total Rainfall Depth= 8.6513 in

Duration Multiplier = 1

Resulting Duration = 30.0000 hrs

Resulting Start Time= .0000 hrs Step= .1000 hrs End= 30.0000 hrs

S/N: B21A01606A8C PondPack Ver. 7.5 (786c) P.W. Scott Engineering & Arch

Compute Time: 14:09:00 Date: 04/06/2023



# ATTACHMENT A

# Pre-Development Analysis Watershed Worksheets

- 1. Pond Pack Model Schematic
- 2. Watershed Worksheet EX1
- 3. Pond Pack Computer Printout
  - a. Watershed Summary
  - b. Tc Analysis
  - c. Hydrographs

Drainage Area	# EX 1		
Development	Pre	X	28,373
	Post		20,010
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		10 Year		8 in		5.00	in
	****	100 Yea	r 9.0	4 in		7.50	in
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		$Minimum\ Tc = 0.10$					
		Total T <sub>c</sub>	0.167				

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*******	*** DESIGN STORMS SUMMARY *********	*****
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WS	2- TO WE	TLAND	10-YR SCS Unit Hyd. Summary	3.11
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**	******	*****	****** POND VOLUMES **********	
FT	PLANTER	***************************************	Vol: Planimeter	4.01
**	******	*****	**** OUTLET STRUCTURES **********	*****
PLA	ANTER OUT		Outlet Input Data	5.01
***	*****	*****	***** POND ROUTING ***********	*****
FT	PLANTER		1-YR Pond Routing Summary Detention Time	6.01 6.02
FT	PLANTER		2-YR Pond Routing Summary	6.03
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 Compute Time: 14:09:00 Date: 04/06/2023

Type.... Master Network Summary

Page 1.01

Name.... Watershed

File.... Z:\PROGRAMS\PONDPACK\96 POST OFFICE ROAD\PRE AND POST ANALYSIS.PPW

#### MASTER DESIGN STORM SUMMARY

Default Network Design Storm File, ID STORMS.RNQ WESTCH BRITTON

Return Event	Total Depth in	Rainfall Type	RNF File	RNF ID
1-YR	2.6987	Synthetic Curve	SCSTYPES	TypeIII 24hr
2-YR	3.2538	Synthetic Curve	SCSTYPES	TypeIII 24hr
10-YR	4.8616	Synthetic Curve	SCSTYPES	TypeIII 24hr
100-yr	8.6513	Synthetic Curve	SCSTYPES	TypeIII 24hr

# MASTER NETWORK SUMMARY SCS Unit Hydrograph Method

(\*Node=Outfall; +Node=Diversion;)
(Trun= HYG Truncation: Blank=None; L=Left; R=Rt; LR=Left&Rt)

Storage		Return	HYG Vol	Qpeak	Qpeak	Max WSEL	Max Pond
Node ID	Type	Event	ac-ft	Trun hrs	cfs	ft	ac-ft
*ANALYSIS-POST	JCT	1	.034	12.1300	. 42		
*ANALYSIS-POST	JCT	2	.052	12.1300	. 65		
*ANALYSIS-POST	JCT	10	.110	12.1300	1.41		
*ANALYSIS-POST	JCT	100	. 280	12.1300	3.49		
*ANALYSIS-PRE	JCT	1	.041	12.1400	. 48		
*ANALYSIS-PRE	JCT	2	.061	12.1400	.73		
*ANALYSIS-PRE	JCT	10	.126	12.1400	1.54		
*ANALYSIS-PRE	JCT	100	. 304	12.1300	3.63		
EX1 EXISTING	AREA	1	.041	12.1400	. 48		
EX1 EXISTING	AREA	2	.061	12.1400	.73		
EX1 EXISTING	AREA	10	.126	12.1400	1.54		
EX1 EXISTING	AREA	100	. 304	12.1300	3.63		
NORTH PLANTERIN	POND	1	.003	12.0500	. 04		
NORTH PLANTERIN	POND	2	.004	12.0900	. 05		
NORTH PLANTERIN	POND	10	.007	12.0800	.09		
NORTH PLANTERIN	POND	100	.014	12.0800	. 17		
NORTH PLANTEROUT	POND	1	.000	- 9.7700	. 00	486.36	. 001
NORTH PLANTEROUT		2	.000	9.0700	.00	486.45	.001
NORTH PLANTEROUT		10	.000	7.5900	.00	486.45	.002

S/N: B21A01606A8C P.W. PondPack Ver. 7.5 (786c) Com

P.W. Scott Engineering & Arch

Compute Time: 18:15:37 Date: 01/31/2024

Type.... SCS Unit Hyd. Summary Page 3.01 Name.... EX1 EXISTING Tag: 1-YR Event: 1 yr File.... Z:\PROGRAMS\PONDPACK\96 POST OFFICE ROAD\PRE AND POST ANALYSIS PPW Storm... TypeIII 24hr Tag: 1-YR SCS UNIT HYDROGRAPH METHOD STORM EVENT: 1 year storm Duration = 50.0000 hrs Rain Dept
Rain Dir = C:\HAESTAD\PPKW\RAINFALL\ Rain Depth = 2.6987 in Rain File -ID = SCSTYPES.RNF - TypeIII 24hr Unit Hyd Type = Default Curvilinear HYG Dir = Z:\PROGRAMS\PONDPACK\96 POST OFFICE ROAD\ HYG File - ID = - EX1 EXISTING 1-YR = .1670 hrs Drainage Area = .651 acres Runoff CN= 75 Computational Time Increment = .02227 hrs Computed Peak Time = 12.1576 hrs Computed Peak Flow -- .49 cfs Time Increment for HYG File = .0100 hrs Peak Time, Interpolated Output = 12.1602 hrs Peak Flow, Interpolated Output = .48 cfs DRAINAGE AREA \_\_\_\_\_\_ ID:None Selected CN = 75Area = .651 acres S = 3.3690 in0.2S = .6738 inCumulative Runoff \_\_\_\_\_\_ .7602 in .041 ac-ft HYG Volume... .041 ac-ft (area under HYG curve) \*\*\*\*\* UNIT HYDROGRAPH PARAMETERS \*\*\*\*\* Time Concentration, Tc = .16700 hrs (ID: None Selected) Computational Incr, Tm = .02227 hrs = 0.20000 Tp Unit Hyd. Shape Factor = 483.432 (37.46% under rising limb) K = 483.43/645.333, K = .7491 (also, K = 2/(1+(Tr/Tp))Receding/Rising, Tr/Tp = 1.6698 (solved from K = .7491) Unit peak, qp = 4.42 cfs Unit peak time Tp = .11133 hrsUnit receding limb, Tr = .44533 hrs Total unit time, Tb = .55667 hrs

S/N: B21A01606A8C P.W. Scott Engineering & Arch PondPack Ver. 7.5 (786c) Compute Time: 18:15:37 Date: 01/31/2024

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Type.... SCS Unit Hyd. Summary Page 3.02 Name.... EX1 EXISTING Tag: 2-YR Event: 2 yr File.... Z:\PROGRAMS\PONDPACK\96 POST OFFICE ROAD\PRE AND POST ANALYSIŚ.PPW Storm... TypeIII 24hr Tag: 2-YR SCS UNIT HYDROGRAPH METHOD STORM EVENT: 2 year storm Duration = 50.0000 hrs Rain Dept
Rain Dir = C:\HAESTAD\PPKW\RAINFALL\ Rain Depth = 3.2538 in Rain File -ID = SCSTYPES.RNF - TypeIII 24hr Unit Hyd Type = Default Curvilinear HYG Dir = Z:\PROGRAMS\PONDPACK\96 POST OFFICE ROAD\ HYG File - ID = - EX1 EXISTING 2-YR= .1670 hrs Drainage Area = .651 acres Runoff CN= 75 Computational Time Increment = .02227 hrs Computed Peak Time = 12.1576 hrs = .73 cfs Computed Peak Flow Time Increment for HYG File = .0100 hrs Peak Time, Interpolated Output = 12.1502 hrs Peak Flow, Interpolated Output = .73 cfs DRAINAGE AREA \_\_\_\_\_\_\_ ID:None Selected CN = 75Area = .651 acres S = 3.3690 in0.25 = .6738 inCumulative Runoff \_\_\_\_\_\_ 1.1189 in .061 ac-ft HYG Volume... .061 ac-ft (area under HYG curve) \*\*\*\*\* UNIT HYDROGRAPH PARAMETERS \*\*\*\*\* Time Concentration, Tc = .16700 hrs (ID: None Selected) Computational Incr, Tm = .02227 hrs = 0.20000 Tp Unit Hyd. Shape Factor = 483.432 (37.46% under rising limb) K = 483.43/645.333, K = .7491 (also, K = 2/(1+(Tr/Tp))Receding/Rising, Tr/Tp = 1.6698 (solved from K = .7491) qp = Unit peak, 4.42 cfs Unit peak time Tp = .11133 hrsUnit receding limb, Tr = .44533 hrs Total unit time, Tb = .55667 hrs

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Type.... SCS Unit Hyd. Summary Page 3.03 Name.... EX1 EXISTING Tag: 10-YR Event: 10 yr File.... Z:\PROGRAMS\PONDPACK\96 POST OFFICE ROAD\PRE AND POST ANALYSIS.PPW Storm... TypeIII 24hr Tag: 10-YR SCS UNIT HYDROGRAPH METHOD STORM EVENT: 10 year storm Duration = 50.0000 hrs Rain Dept
Rain Dir = C:\HAESTAD\PPKW\RAINFALL\ Rain Depth = 4.8616 in Rain File -ID = SCSTYPES.RNF - TypeIII 24hr Unit Hyd Type = Default Curvilinear = Z:\PROGRAMS\PONDPACK\96 POST OFFICE ROAD\ HYG File - ID = - EX1 EXISTING 10-YR = .1670 hrs Drainage Area = .651 acres Runoff CN= 75 Computational Time Increment = .02227 hrs Computed Peak Time = 12.1353 hrs Computed Peak Flow - - -1.54 cfs Time Increment for HYG File = .0100 hrs Peak Time, Interpolated Output = 12.1402 hrs Peak Flow, Interpolated Output = 1.54 cfs DRAINAGE AREA \_\_\_\_\_\_ ID:None Selected CN = 75Area = .651 acres S = 3.3690 in0.25 =.6738 in Cumulative Runoff \_\_\_\_\_\_ 2.3208 in .126 ac-ft HYG Volume... .126 ac-ft (area under HYG curve) \*\*\*\*\* UNIT HYDROGRAPH PARAMETERS \*\*\*\*\* Time Concentration, Tc = .16700 hrs (ID: None Selected) Computational Incr, Tm = .02227 hrs = 0.20000 Tp Unit Hyd. Shape Factor = 483.432 (37.46% under rising limb) K = 483.43/645.333, K = .7491 (also, K = 2/(1+(Tr/Tp))

qp =

Unit receding limb, Tr = .44533 hrs Total unit time, Tb = .55667 hrs

4.42 cfs

 $Tp = .11133 \ hrs$ 

1.6698 (solved from K = .7491)

Receding/Rising, Tr/Tp =

Unit peak,

Unit peak time

Type.... SCS Unit Hyd. Summary Page 3.04 Name.... EX1 EXISTING Tag: 100-yr Event: 100 yr File.... Z:\PROGRAMS\PONDPACK\96 POST OFFICE ROAD\PRE AND POST ANALYSIŚ.PPW Storm... TypeIII 24hr Tag: 100-yr SCS UNIT HYDROGRAPH METHOD STORM EVENT: 100 year storm Duration = 50.0000 hrs Rain Depth = 8.6513 in Rain Dir = C:\HAESTAD\PPKW\RAINFALL\ Rain File -ID = SCSTYPES.RNF - TypeIII 24hr Unit Hyd Type = Default Curvilinear HYG Dir = Z:\PROGRAMS\PONDPACK\96 POST OFFICE ROAD\ HYG File - ID = - EX1 EXISTING 100-yr = .1670 hrs Tc Drainage Area = .651 acres Runoff CN= 75 \_\_\_\_\_\_ Computational Time Increment = .02227 hrs Computed Peak Time = 12.1353 hrs = 3.64 cfs Computed Peak Flow Time Increment for HYG File = .0100 hrs Peak Time, Interpolated Output = 12.1302 hrs Peak Flow, Interpolated Output = 3.63 cfs DRAINAGE AREA -----ID:None Selected CN = 75Area = .651 acres 5 = 3.3690 in0.2S = .6738 inCumulative Runoff ------5.6088 in .304 ac-ft HYG Volume... .304 ac-ft (area under HYG curve) \*\*\*\*\* UNIT HYDROGRAPH PARAMETERS \*\*\*\*\* Time Concentration, Tc = .16700 hrs (ID: None Selected) Computational Incr, Tm = .02227 hrs = 0.20000 Tp Unit Hyd. Shape Factor = 483.432 (37.46% under rising limb) K = 483.43/645.333, K = .7491 (also, K = 2/(1+(Tr/Tp))Receding/Rising, Tr/Tp = 1.6698 (solved from K = .7491) qp = Unit peak, 4.42 cfs

S/N: B21A01606A8C P.W. Scott Engineering & Arch PondPack Ver. 7.5 (786c) Compute Time: 18:15:37 Date: 01/31/2024

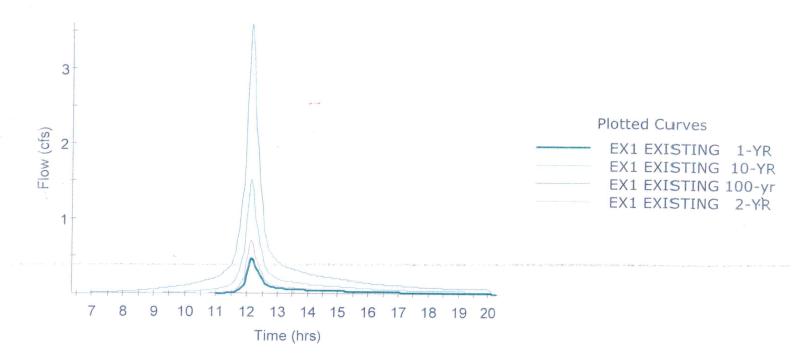
Unit peak time Tp = .11133 hrs

Total unit time, Tb = .55667 hrs

.44533 hrs

Unit receding limb, Tr =

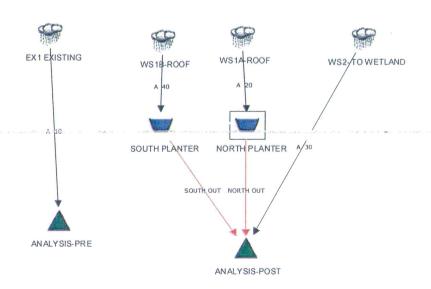
B



# ATTACHMENT B

# Post-Development Watersheds

- 1. Pond Pack Model Schematic
  - 2. Watershed Worksheet WS1 & WS2
  - 3. Pond Pack Computer Printout
    - a. Watershed Summary
    - b. Tc Analysis
    - c. Hydrographs



Drai	nage Area #`	WS #1A N	ORTH PI	ANTER				
	lopment	Pre						1,00
		Post	X				***************************************	·
							TOTAL	0.02
Use		Soil Typ	)e	Soil Clas	SS	CN	Area	CN x Area
Wood		WdC		C		73		0.000
	ds-wetlands	Sh		D		77		0.000
Build		WdC		C		98		1.91
Grave		Wdc		C		89		0.000
Brush		Wdc		В		48		
Brush		Sh	e et acase na livinal abandancin d	D	Anthon Basin on the course of the A	73	0.000	
Lawn		Wdc		C		61		<del></del>
				TOTAL =			0.023	
	CN	ا (Weighte	ed) =sum(Cl	$\overline{N \times A}$ div	ided by Su	ım (A) =	<u> </u>	89.7
	Runoff:	Stor	m Event Ty	pe N10D	24 Hour R	ainfall	2002 NYS	DEC MANUAL
			1 Year =	<del>-</del>				in
			2 Year =					in
			10 Year =				·	in
		1	100 Year					in
				<u> </u>	<del> </del>	+		111
Annua	al Rainfall: 40	1.2 in		<u> </u>				L
	alysis Calcula		Cuen & Spi	ecc Calcul	lations			
A	Sheet	T	T	Te	Flow Le	angth:		0.0
1 1	Flow				11011 2.	ngui.	J.	0.0
	1101.		+	0.006	Slope:		8.6	00%
				0.000	Cover:			
				L	Cover.		100	oftop
В	Shallow (	Concentrat	ed Flow		Paved:			
<u></u>	Onuno.,	T	Concentrated Flow		Unpave	٦.		no
		+	+	0.000				yes
		<del> </del>	Velocity	1.9	Average	lic Length:		10/
			Velocity	1.7	Avtiage	: Lanu 1		1%
	Channel F	Flow	1		FlowArea:	Т		
	Chamier	T	т	2.000			Q	0.043
		<del> </del>	+	0.000	Descrip.	15" pipe	N=	0.013
		<del></del>	<del>                                     </del>		Length:	0	Width:	
		<u></u>	<u> </u>		Depth	-	Slope:	
		T	т		V	8	Wp	
	1		1 1		1	1 1	1	

TRAVEL TIME TO point A

142 @ 1.4% brush

Total T<sub>c</sub>

0.006

use

Tc=.1 hr

Minimum Tc = 0.10

0.21 HR.



Drainage Area #	# WS #1B	SOUTH PLA	NTER	
Development	Pre		,	1,001
	Post	X		

		1	J						
							TOTAL	0.023	
Use		Soil Typ	ne .	Soil Clas	22	CN	Area	CN x Area	
		1001. 171		15011 Cita			Mica	jen x Alea	
Woods		WdC <sup>′</sup>		C		73	0.000	0.000	
	s-wetlands	Sh		D		77	0.000		
Buildir		WdC		C		98	0.0195	1.911	
Gravel		Wdc		C		89	0.000	0.000	
Brush-		Wdc		В	·····	48	0.0034	0.163	
Brush-	فر خیوانین کامیان د د د د د د د د د د د د د د د د د د د	Sh	ernome, ar ca	D	i e serve e come je	73	0.000	0.600	
Lawn		Wdc		C		61	0.000	0.000	
ļ				TOTAL			0.023	2.074	
	CN	(Weighte	ed) =sum(C)	N x A) div	ided by Su	$\operatorname{Im}(A) =$		90.6	
Т	) CC:	C.	Y7 . 70	21105			<u> </u>		
r	Runoff:	Stor	m Event Ty			laintall	2002 NYS	DEC MANUAL	
			1 Year =					in	
			2 Year =			ļ		in	
			10 Year =					in	
			100 Year	9.04	l in		7.50	in	
Annual	Rainfall: 40.	2 in	***************************************		1				
	lysis Calculat		Cuen & Sni	ess Calcul	lations				
A	Sheet	10110111110	T Spi	Te	Flow Le	enoth:	50	0.0	
	Flow				110 11 21		3.	0.0	
				0.006	Slope:		8.0	0%	
					Cover:		rooftop		
					·				
В	Shallow C	oncentrat	ed Flow		Paved:			no	
				0.000	Unpave			yes	
					7	lic Length:		0	
		<del></del>	Velocity	1.9	Average	e Land		1%	
C	Channel Fl			******	ID1A	Т			
	Channel F	iow		0.000	FlowArea:		Q		
<del></del>				0.000	Descrip.	15" pipe	N=	0.013	
		<del></del>			Length:	0	Width:		
			1	······	Depth		Slope:		
					V	8	Wp		
·	<u></u>		Tc = 0.10						
			20.10	0.006		ngo			
			Total T <sub>c</sub>	0.000		use			
			TOTAL IC			Tc=.1 hr			

Drainage Area #		irect offsite	
Development	Pre		26,370
	Post	X	

		rost	<u> </u> A					
							TOTAL	0.605
Use		Call Tau		Jg. '1 G1		Iou	T.	I as i
Use	Use Soil Type		Soil Clas	SS	CN	Area	CN x Area	
Wood	s-fair	WdC		C		73	0.140	10.220
	s-wetlands	Sh		D		77		<del></del>
Buildi		WdC				98		<del></del>
Grave		Wdc				89		3.738
Brush-	-	Wdc	***************************************	С		65	<del> </del>	
Brush-	<ul> <li>Betaltistic TV = all includes exceptia</li> </ul>	Sh	CAN THE STATE OF THE POPULAR STATE OF	D	ikalos (Weddidenskies in de esteksioners versomber stem in V	73	<ul> <li>Commission of the commission of the</li></ul>	CHARLES STORMATORS AND SAID CONTINUES THE LIGHT VISITE AND
Lawn		Wdc		C		74	<del></del>	11.026
				TOTAL			0.605	
	CN	(Weighte	d) =sum(Cl	N x A) div	ided by Su	m (A) =		73.1
J	Runoff:	Stor	m Event Ty	pe N10D	pe N10D 24 Hour Rainfall			DEC MANUAL
			1 Year =		2.82 in		2.50	in
			2 Year =	3.40	) in		3.50	in
			10 Year =				5.00	in
		100 Year		9.04 in			7.50	in
	l Rainfall: 40							
Te Ana	alysis Calcula	tions: Mc	Cuen & Spi	ess Calcul	ations			
A	Sheet			Tc Flow Lengt		ength:	10	0.0
	Flow							
				0.113	Slope:		11.:	50%
					Cover:		br	ush
D	[C1 11 4		1.01		1 - 2 - 2			
В	Shallow	Concentrated Flow			Paved:			no
			<b>-</b>	0.021	Unpave			yes
			37.1	2 .		ic Length:		194
· · · · · · · · · · · · · · · · · · ·		<u> </u>	Velocity	2.5	Average	Land		3%
C	Channel I	Flow			FlowArea:	T		
		1011	T	0.000	Descrip.	15" pipe	Q N=	0.013
***************************************				0.000	Length:	0	Width:	0.013
					Depth	<b>V</b>	Slope:	
		<u> </u>	-	······································	- V	8	Wp	
							,, p	
		Minimum	Tc = 0.10					
			Total T <sub>c</sub>	0.134				

TRAVEL TIME TO point A

0.00 HR.



Type.... Master Network Summary

Name.... Watershed

File.... Z:\PROGRAMS\PONDPACK\96 POST OFFICE ROAD\PRE AND POST ANALYSIS.PPW

#### MASTER DESIGN STORM SUMMARY

Default Network Design Storm File, ID STORMS.RNQ WESTCH BRITTON

Return Event	Total Depth in	Rainfall Type	RNF File	RNF ID
1-YR	2.6987	Synthetic Curve	SCSTYPES	TypeIII 24hr
2-YR	3.2538	Synthetic Curve	SCSTYPES	TypeIII 24hr
10-YR	4.8616	Synthetic Curve	SCSTYPES	TypeIII 24hr
100-yr	8.6513	Synthetic Curve	SCSTYPES	TypeIII 24hr

and the control of th

#### MASTER NETWORK SUMMARY SCS Unit Hydrograph Method

(\*Node=Outfall; +Node=Diversion;) (Trun= HYG Truncation: Blank=None; L=Left; R=Rt; LR=Left&Rt)

<b>⊁</b> Storage		Return	HYG Vol		Qpeak	Qpeak	Max WSEL	Max Pond
Node ID	Туре	Event	ac-ft	Trun	hrs	cfs	ft	ac-ft
_								
*ANALYSIS-POST	JCT	1	.034		12.1300	. 42		
*ANALYSIS-POST	JCT	2	.052		12.1300	.65		
*ANALYSIS-POST	JCT	10	.110		12.1300	1.41		
*ANALYSIS-POST	JCT	100	. 280		12.1300	3.49		
*ANALYSIS-PRE	JCT	1	.041		12.1400	. 48		
*ANALYSIS-PRE	JCT	2	.061		12.1400	.73		
*ANALYSIS-PRE	JCT	10	.126		12.1400	1.54		
*ANALYSIS-PRE	JCT	100	. 304		12.1300	3.63		
EX1 EXISTING	ADEA	1	0.41					
	AREA	1	.041		12.1400	. 48		
EX1 EXISTING	AREA	2	.061		12.1400	. 73		
EX1 EXISTING	AREA	10	.126		12.1400	1.54		
EX1 EXISTING	AREA	100	. 304		12.1300	3.63		
NORTH PLANTERIN	POND	1 2	.003		12.0500	. 04		
NORTH PLANTERIN	POND	2	. 004		12.0900	. 05		
NORTH PLANTERIN	POND	10	. 007		12.0800	.09		
NORTH PLANTERIN	POND	100	.014		12.0800	. 17		
NORTH PLANTEROUT	POND	1	.000	_	9.7700	.00	486.36	001
NORTH PLANTEROUT		2	.000		9.0700			.001
NORTH PLANTEROUT		10	.000		7.5900	.00	486.45	.002
EANTEROOT		10	.000		7.3500	. 00	486.85	. 003

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Type.... Master Network Summary

Name.... Watershed

File.... Z:\PROGRAMS\PONDPACK\96 POST OFFICE ROAD\PRE AND POST ANALYSIS.PPW

Page 1.02

#### MASTER NETWORK SUMMARY SCS Unit Hydrograph Method

(\*Node=Outfall; +Node=Diversion;) (Trun= HYG Truncation: Blank=None; L=Left; R=Rt; LR=Left&Rt)

Storage		Return	HYG Vol		Qpeak	Qpeak	Max WSEL	Max Pond
Node ID	Type	Event	ac-ft	Trun 	hrs	cfs	ft 	ac-ft
NORTH PLANTEROUT	POND	100	.003		12.2100	.08	487.34	. 005
SOUTH PLANTERIN	POND	1	.003		12.0800	. 04		e 11 met 19 a - Francis Marie Alberta
SOUTH PLANTERIN	POND	2	.004		12.1000	.05		
SOUTH PLANTERIN	POND	10	.007		12.0800	. 09		
SOUTH PLANTERIN	POND	100	.014		12.0800	. 17		
SOUTH PLANTEROUT	POND	1	.000		9.5500	. 00	486.38	001
SOUTH PLANTEROUT	POND	2	.000		8.8700	.00	486.52	.001
SOUTH PLANTEROUT	POND	10	.000		7.3400	.00	487.00	. 002 . 003
SOUTH PLANTEROUT	POND	100	.004		12.1600	.12	487.37	.005
WS1A-ROOF	AREA	1	. 003		12.0500	. 04		
	AREA	2	.004		12.0900	.05		
	AREA	10	.007		12.0800	.09		
	AREA	100	.014		12.0800	.17		
WS1B-ROOF	AREA	1	.003		12.0800	. 04		
	AREA	2	.004		12.1000	.05		
	AREA	10	.007		12.1000	.09		
	AREA	100	.014		12.0800	.17		
WS2- TO WETLAND	AREA	1	.034		12 1200	4.2		
	AREA	2	.052		12.1300	. 42		
	AREA	10	.110		12.1300	.65		
	AREA	100	. 272		12.1300 12.1200	1.41		
IO HETEAND	/ II L / I	100	. 412		12.1200	3.40		

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Type.... Design Storms Page 2.01

Name.... WESTCH BRITTON

File.... C:\HAESTAD\PPKW\RAINFALL\STORMS.RNQ Title... REVISED SITE PLAN WITH TWO PLANTERS

#### DESIGN STORMS SUMMARY

Design Storm File, ID = STORMS.RNQ WESTCH BRITTON

Storm Tag Name = 1-YR Description: 1 YEAR FIRST FLUSH

Data Type, File, ID = Synthetic Storm SCSTYPES.RNF TypeIII 24hr Storm Frequency = 1 yr

Total Rainfall Depth= 2.6987 in

Duration Multiplier = 1

Resulting Duration = 50.0000 hrs

Resulting Start Time= .0000 hrs Step= .1000 hrs End= 50.0000 hrs

Storm Tag Name = 2 - YR

Description: 2 YEAR

Data Type, File, ID = Synthetic Storm SCSTYPES.RNF TypeIII 24hr

Storm Frequency = 2 yr

Total Rainfall Depth= 3.2538 in

Duration Multiplier = 1

Resulting Duration = 50.0000 hrs

Resulting Start Time= .0000 hrs Step= .1000 hrs End= 50.0000 hrs

= 10-YRStorm Tag Name

Description: 10 YEAR

-----

Data Type, File, ID = Synthetic Storm SCSTYPES.RNF TypeIII 24hr Storm Frequency = 10 yr

Total Rainfall Depth= 4.8616 in

Duration Multiplier = 1

Resulting Duration = 50.0000 hrs

Resulting Start Time= .0000 hrs Step= .1000 hrs End= 50.0000 hrs

Storm Tag Name = 100-yr

Description: 100 yr

Data Type, File, ID = Synthetic Storm SCSTYPES.RNF TypeIII 24hr

Storm Frequency = 100 yr Total Rainfall Depth= 8.6513 in

Duration Multiplier = 1

Resulting Duration = 50.0000 hrs

Resulting Start Time= .0000 hrs Step= .1000 hrs End= 50.0000 hrs

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Type.... SCS Unit Hyd. Summary Page 3.05 Name.... WS1A-ROOF Tag: 1-YR Event: 1 yr File.... Z:\PROGRAMS\PONDPACK\96 POST OFFICE ROAD\PRE AND POST ANALYSIS.PPW Title... WS1A ROOF TO NORTH PLANTER Storm... TypeIII 24hr Tag: 1-YR SCS UNIT HYDROGRAPH METHOD STORM EVENT: 1 year storm Duration = 50.0000 hrs Rain Depth = 2.6987 in Rain Dir = C:\HAESTAD\PPKW\RAINFALL\ Rain File -ID = SCSTYPES.RNF - TypeIII 24hr Unit Hyd Type = Default Curvilinear HYG Dir = Z:\PROGRAMS\PONDPACK\96 POST OFFICE ROAD\ HYG File - ID = -  $WS1A-ROOF\ 1-YR$ = .1000 hrs Tc Drainage Area = .023 acres Runoff CN= 90 Computational Time Increment = .01333 hrs Computed Peak Time = 12.1067 hrs Computed Peak Flow .04 cfs Time Increment for HYG File = .0100 hrs Peak Time, Interpolated Output = 12.1102 hrs Peak Flow, Interpolated Output = .04 cfs DRAINAGE AREA \_\_\_\_\_\_ ID: None Selected CN = 90Area = .023 acres S = 1.1483 in0.25 = .2297 inCumulative Runoff \_\_\_\_\_\_ 1.6853 in .003 ac-ft HYG Volume... .003 ac-ft (area under HYG curve) \*\*\*\*\* UNIT HYDROGRAPH PARAMETERS \*\*\*\*\* Time Concentration, Tc = .10000 hrs (ID: None Selected) Computational Incr, Tm = .01333 hrs = 0.20000 Tp Unit Hyd. Shape Factor = 483.432 (37.46% under rising limb) K = 483.43/645.333, K = .7491 (also, K = 2/(1+(Tr/Tp))

Receding/Rising, Tr/Tp = 1.6698 (solved from K = .7491) Unit peak, qp =.26 cfs Unit peak, qp - .26 cisUnit peak time Tp = .06667 hrsUnit receding limb, Tr = .26667 hrs

.33333 hrs

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Total unit time, Tb ≡

Type.... SCS Unit Hyd. Summary Page 3.06 Name.... WS1A-ROOF Tag: 2-YR Event: 2 vr File.... Z:\PROGRAMS\PONDPACK\96 POST OFFICE ROAD\PRE AND POST ANALYSIS.PPW Storm... TypeIII 24hr Tag: 2-YR SCS UNIT HYDROGRAPH METHOD STORM EVENT: 2 year storm Duration = 50.0000 hrs Rain Depth = 3.2538 in Rain Dir = C:\HAESTAD\PPKW\RAINFALL\ Rain File -ID = SCSTYPES.RNF - TypeIII 24hr Unit Hyd Type = Default Curvilinear = Z:\PROGRAMS\PONDPACK\96 POST OFFICE ROAD\ HYG File - ID = - WS1A-ROOF 2-YR= .1000 hrsDrainage Area = .023 acres Runoff CN= 90 Computational Time Increment = .01333 hrs Computed Peak Time = 12.1067 hrs Time Increment for HYG File = .0100 hrs Peak Time, Interpolated Output = 12.1102 hrs Peak Flow, Interpolated Output = .05 cfs DRAINAGE AREA ------ID:None Selected CN = 90Area = .023 acres S = 1.1483 in0.25 = .2297 inCumulative Runoff \_\_\_\_\_\_ 2.1919 in .004 ac-ft HYG Volume... .004 ac-ft (area under HYG curve) \*\*\*\*\* UNIT HYDROGRAPH PARAMETERS \*\*\*\*\* Time Concentration, Tc = .10000 hrs (ID: None Selected) Computational Incr, Tm = .01333 hrs = 0.20000 Tp Unit Hyd. Shape Factor = 483.432 (37.46% under rising limb) K = 483.43/645.333, K = .7491 (also, K = 2/(1+(Tr/Tp))Receding/Rising, Tr/Tp = 1.6698 (solved from K = .7491)

qp =

Tp =

Unit receding limb, Tr = .26667 hrs Total unit time, Tb = .33333 hrs

.26 cfs

.06667 hrs

Unit peak,

Unit peak time

Type.... SCS Unit Hyd. Summary Page 3.07 Name.... WS1A-ROOF Tag: 10-YR Event: 10 vr File.... Z:\PROGRAMS\PONDPACK\96 POST OFFICE ROAD\PRE AND POST ANALYSIS.PPW Storm... TypeIII 24hr Tag: 10-YR SCS UNIT HYDROGRAPH METHOD STORM EVENT: 10 year storm Duration = 50.0000 hrs Rain Dept
Rain Dir = C:\HAESTAD\PPKW\RAINFALL\ Rain Depth = 4.8616 in Rain File -ID = SCSTYPES.RNF - TypeIII 24hr Unit Hyd Type = Default Curvilinear HYG Dir = Z:\PROGRAMS\PONDPACK\96 POST OFFICE ROAD\ HYG File - ID = - WS1A-ROOF 10-YR = .1000 hrs Drainage Area = .023 acres Runoff CN= 90 Computational Time Increment = .01333 hrs Computed Peak Time = 12.1067 hrs .09 cfs Computed Peak Flow Time Increment for HYG File = .0100 hrs Peak Time, Interpolated Output = 12.1002 hrs Peak Flow, Interpolated Output = .09 cfs DRAINAGE AREA \_\_\_\_\_\_ ID:None Selected CN = 90Area = .023 acres S = 1.1483 in0.25 =.2297 in Cumulative Runoff \_\_\_\_\_\_\_ 3.7117 in .007 ac-ft HYG Volume... .007 ac-ft (area under HYG curve) \*\*\*\*\* UNIT HYDROGRAPH PARAMETERS \*\*\*\*\* Time Concentration, Tc = .10000 hrs (ID: None Selected) Computational Incr, Tm = .01333 hrs = 0.20000 Tp Unit Hyd. Shape Factor = 483.432 (37.46% under rising limb) K = 483.43/645.333, K = .7491 (also, K = 2/(1+(Tr/Tp))Receding/Rising, Tr/Tp = 1.6698 (solved from K = .7491)

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qp =

.26 cfs

.06667 hrs

.26667 hrs .33333 hrs

Unit peak,

Unit peak time Tp =

Unit receding limb, Tr =

Total unit time, Tb =

Type.... SCS Unit Hyd. Summary Page 3.08 Name.... WS1A-ROOF Tag: 100-yr Event: 100 yr File.... Z:\PROGRAMS\PONDPACK\96 POST OFFICE ROAD\PRE AND POST ANALYSIS.PPW Storm... TypeIII 24hr Tag: 100-yr SCS UNIT HYDROGRAPH METHOD STORM EVENT: 100 year storm Duration = 50.0000 hrs
Rain Dir = C.\'\\\ Rain Depth = 8.6513 in Rain Dir = C:\HAESTAD\PPKW\RAINFALL\ Rain File -ID = SCSTYPES.RNF - TypeIII 24hr Unit Hyd Type = Default Curvilinear = Z:\PROGRAMS\PONDPACK\96 POST OFFICE ROAD\ HYG File - ID = - WS1A-ROOF 100-yr= .1000 hrs Drainage Area = .023 acres Runoff CN= 90 Computational Time Increment = .01333 hrs Computed Peak Time = 12.1067 hrs ~Computed Peak Flow - - - - - = - - - .17 cfs -Time Increment for HYG File = Peak Time, Interpolated Output = 12.1002 hrs Peak Flow, Interpolated Output = .17 cfs DRAINAGE AREA \_\_\_\_\_\_ ID:None Selected CN = 90Area = .023 acres S = 1.1483 in0.25 = .2297 inCumulative Runoff \_\_\_\_\_\_ 7.4111 in .014 ac-ft HYG Volume... .014 ac-ft (area under HYG curve) \*\*\*\*\* UNIT HYDROGRAPH PARAMETERS \*\*\*\*\* Time Concentration, Tc = .10000 hrs (ID: None Selected) Computational Incr, Tm = .01333 hrs = 0.20000 Tp Unit Hyd. Shape Factor = 483.432 (37.46% under rising limb) K = 483.43/645.333, K = .7491 (also, K = 2/(1+(Tr/Tp))Receding/Rising, Tr/Tp = 1.6698 (solved from K = .7491) Unit peak, .26 cfs = ap Unit peak time 

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.33333 hrs

Total unit time, Tb =

Type.... SCS Unit Hyd. Summary Page 3.09 Name.... WS1B-ROOF Tag: 1-YR Event: 1 yr File.... Z:\PROGRAMS\PONDPACK\96 POST OFFICE ROAD\PRE AND POST ANALYSIS.PPW Title... WS1B TO SOUTH PLANTER Storm... TypeIII 24hr Tag: 1-YR SCS UNIT HYDROGRAPH METHOD STORM EVENT: 1 year storm Duration = 50.0000 hrs Rain Depth = 2.6987 in Rain Dir = C:\HAESTAD\PPKW\RAINFALL\ Rain File -ID = SCSTYPES.RNF - TypeIII 24hr Unit Hyd Type = Default Curvilinear HYG Dir = Z:\PROGRAMS\PONDPACK\96 POST OFFICE ROAD\ HYG File - ID = - WS1B-ROOF 1-YR= .1000 hrs Drainage Area = .023 acres Runoff CN= 91 Computational Time Increment = .01333 hrs Computed Peak Time -----= 12.1067 hrs Computed Peak Flow ----Time Increment for HYG File = .0100 hrs Peak Time, Interpolated Output = 12.1102 hrs Peak Flow, Interpolated Output = .04 cfs DRAINAGE AREA ------ID:None Selected CN = 91Area = .023 acres S = 1.0375 in.2075 in 0.25 =Cumulative Runoff \_\_\_\_\_\_\_ 1.7588 in .003 ac-ft HYG Volume... .003 ac-ft (area under HYG curve) \*\*\*\*\* UNIT HYDROGRAPH PARAMETERS \*\*\*\*\* Time Concentration, Tc = .10000 hrs (ID: None Selected) Computational Incr, Tm = .01333 hrs = 0.20000 Tp Unit Hyd. Shape Factor = 483.432 (37.46% under rising limb)

K = 483.43/645.333, K = .7491 (also, K = 2/(1+(Tr/Tp))Receding/Rising, Tr/Tp = 1.6698 (solved from K = .7491)

.26 cfs Unit peak, qp = Unit peak time Tp = .06667 hrs Unit receding limb, Tr = .26667 hrs Total unit time, Tb = .<sub>-</sub>33333 hrs

S/N: B21A01606A8C P.W. Scott Engineering & Arch PondPack Ver. 7.5 (786c) Compute Time: 18:15:37 Date: 01/31/2024 Type.... SCS Unit Hyd. Summary Page 3.10 Name.... WS1B-ROOF Tag: 2-YR Event: 2 yr File.... Z:\PROGRAMS\PONDPACK\96 POST OFFICE ROAD\PRE AND POST ANALYSIS.PPW Storm... TypeIII 24hr Tag: 2-YR SCS UNIT HYDROGRAPH METHOD STORM EVENT: 2 year storm Duration = 50.0000 hrs Rain Depth = 3.2538 in Rain Dir = C:\HAESTAD\PPKW\RAINFALL\ Rain File -ID = SCSTYPES.RNF - TypeIII 24hr Unit Hyd Type = Default Curvilinear = Z:\PROGRAMS\PONDPACK\96 POST OFFICE ROAD\ HYG File - ID = -WS1B-ROOF 2-YR= .1000 hrsDrainage Area = .023 acres Runoff CN= 91 Computational Time Increment = .01333 hrs Computed Peak Time = 12.1067 hrs Time Increment for HYG File = .0100 hrs Peak Time, Interpolated Output = 12.1102 hrs Peak Flow, Interpolated Output = .05 cfs DRAINAGE AREA 

ID:None Selected

CN = 91

Area = .023 acres

S = 1.0375 in0.2S = .2075 in

#### Cumulative Runoff -----

2.2724 in

.004 ac-ft

HYG Volume...

.004 ac-ft (area under HYG curve)

#### \*\*\*\*\* UNIT HYDROGRAPH PARAMETERS \*\*\*\*\*

Time Concentration, Tc = .10000 hrs (ID: None Selected) Computational Incr, Tm = .01333 hrs = 0.20000 Tp

Unit Hyd. Shape Factor = 483.432 (37.46% under rising limb) K = 483.43/645.333, K = .7491 (also, K = 2/(1+(Tr/Tp))Receding/Rising, Tr/Tp = 1.6698 (solved from K = .7491)

Unit peak, qp = .26 cfs Unit peak time Tp = .06667 hrs Unit receding limb, Tr = .26667 hrs Total unit time, Tb = .33333 hrs

S/N: B21A01606A8C P.W. Scott Engineering & Arch PondPack Ver. 7.5 (786c)

Type.... SCS Unit Hyd. Summary Page 3.11 Name.... WS1B-ROOF Tag: 10-YR Event: 10 yr File.... Z:\PROGRAMS\PONDPACK\96 POST OFFICE ROAD\PRE AND POST ANALYSIS.PPW Storm... TypeIII 24hr Tag: 10-YR SCS UNIT HYDROGRAPH METHOD STORM EVENT: 10 year storm Duration = 50.0000 hrs Rain Dept
Rain Dir = C:\HAESTAD\PPKW\RAINFALL\ Rain Depth = 4.8616 in Rain File -ID = SCSTYPES.RNF - TypeIII 24hr Unit Hyd Type = Default Curvilinear = Z:\PROGRAMS\PONDPACK\96 POST OFFICE ROAD\ HYG File - ID = - WS1B-ROOF 10-YR= .1000 hrs Drainage Area = .023 acres Runoff CN= 91 Computational Time Increment = .01333 hrs Computed Peak Time = 12.1067 hrs ------Computed Peak Flow Time Increment for HYG File = Peak Time, Interpolated Output = 12.1002 hrs Peak Flow, Interpolated Output = .09 cfs DRAINAGE AREA \_\_\_\_\_\_ ID:None Selected CN = 91 Area = .023 acres S = 1.0375 in0.2S = .2075 inCumulative Runoff -----3.8057 in .007 ac-ft HYG Volume... .007 ac-ft (area under HYG curve) \*\*\*\*\* UNIT HYDROGRAPH PARAMETERS \*\*\*\*\* Time Concentration, Tc = .10000 hrs (ID: None Selected) Computational Incr, Tm = .01333 hrs = 0.20000 Tp Unit Hyd. Shape Factor = 483.432 (37.46% under rising limb) K = 483.43/645.333, K = .7491 (also, K = 2/(1+(Tr/Tp))Receding/Rising, Tr/Tp = 1.6698 (solved from K = .7491) Unit peak, qp =.26 cfs Unit peak, qp - .20 crs
Unit peak time Tp = .06667 hrs
Unit receding limb, Tr = .26667 hrs

Total unit time, Tb = .33333 hrs

Type.... SCS Unit Hyd. Summary Page 3.12 Name.... WS1B-ROOF Tag: 100-yr Event: 100 vr File.... Z:\PROGRAMS\PONDPACK\96 POST OFFICE ROAD\PRE AND POST ANALYSIS.PPW

Storm... TypeIII 24hr Tag: 100-yr

#### SCS UNIT HYDROGRAPH METHOD

STORM EVENT: 100 year storm

Duration = 50.0000 hrs Rain Deptl
Rain Dir = C:\HAESTAD\PPKW\RAINFALL\ Rain Depth = 8.6513 in

Rain File -ID = SCSTYPES.RNF - TypeIII 24hr

Unit Hyd Type = Default Curvilinear

HYG Dir = Z:\PROGRAMS\PONDPACK\96 POST OFFICE ROAD\

HYG File - ID = - WS1B-R00F 100-yr

= .1000 hrs

Drainage Area = .023 acres Runoff CN= 91

Computational Time Increment = .01333 hrs Computed Peak Time = 12.1067 hrs 

Time Increment for HYG File = .0100 hrs Peak Time, Interpolated Output = 12.1002 hrs Peak Flow, Interpolated Output = .17 cfs 

#### DRAINAGE AREA

\_\_\_\_\_\_ ID:None Selected

CN = 91

Area = .023 acres

S = 1.0375 in0.2S = .2075 in

#### Cumulative Runoff \_\_\_\_\_\_\_

7.5198 in .014 ac-ft

HYG Volume...

.014 ac-ft (area under HYG curve)

#### \*\*\*\*\* UNIT HYDROGRAPH PARAMETERS \*\*\*\*\*

Time Concentration, Tc = .10000 hrs (ID: None Selected) Computational Incr, Tm = .01333 hrs = 0.20000 Tp

Unit Hyd. Shape Factor = 483.432 (37.46% under rising limb) K = 483.43/645.333, K = .7491 (also, K = 2/(1+(Tr/Tp))Receding/Rising, Tr/Tp = 1.6698 (solved from K = .7491)

Unit peak, qp =.26 cfs Unit peak time Tp = .06667 hrsUnit receding limb, Tr = .26667 hrs Total unit time, Tb = .33333 hrs

S/N: B21A01606A8C P.W. Scott Engineering & Arch PondPack Ver. 7.5 (786c)

Type.... SCS Unit Hyd. Summary Page 3.13 Name.... WS2- TO WETLAND Tag: 1-YR Event: 1 yr File.... Z:\PROGRAMS\PONDPACK\96 POST OFFICE ROAD\PRE AND POST ANALYSIS.PPW Title... WS2 - DIRECT TO WETLAND AND POINT A Storm... TypeIII 24hr Tag: 1-YR SCS UNIT HYDROGRAPH METHOD STORM EVENT: 1 year storm Duration = 50.0000 hrs Rain Dept|
Rain Dir = C:\HAESTAD\PPKW\RAINFALL\ Rain Depth = 2.6987 in Rain File -ID = SCSTYPES.RNF - TypeIII 24hr Unit Hyd Type = Default Curvilinear HYG Dir = Z:\PROGRAMS\PONDPACK\96 POST OFFICE ROAD\ HYG File - ID = - WS2- TO WETLAND 1-YR = .1340 hrs Tc Drainage Area = .605 acres Runoff CN= 73 Computational Time Increment = .01787 hrs Computed Peak Time --- == 12.1315 hrs Computed Peak Flow = .42 cfs Time Increment for HYG File = .0100 hrs Peak Time, Interpolated Output = 12.1302 hrs Peak Flow, Interpolated Output = .42 cfs DRAINAGE AREA \_\_\_\_\_\_ ID:None Selected CN = 73Area = .605 acres S = 3.6799 in.7360 in 0.25 =Cumulative Runoff \_\_\_\_\_\_ .6827 in .034 ac-ft HYG Volume... .034 ac-ft (area under HYG curve) \*\*\*\*\* UNIT HYDROGRAPH PARAMETERS \*\*\*\*\* Time Concentration, Tc = .13400 hrs (ID: None Selected) Computational Incr, Tm = .01787 hrs = 0.20000 Tp Unit Hyd. Shape Factor = 483.432 (37.46% under rising limb) K = 483.43/645.333, K = .7491 (also, K = 2/(1+(Tr/Tp))Receding/Rising, Tr/Tp = 1.6698 (solved from K = .7491) qp = 5.12 cfs Unit peak, Unit peak time  $Tp = .08933 \ hrs$ Unit receding limb, Tr = .35733 hrs

S/N: B21A01606A8C P.W. Scott Engineering & Arch PondPack Ver. 7.5 (786c) Compute Time: 18:15:37 Date: 01/31/2024

Total unit time, Tb = .44667 hrs

Type.... SCS Unit Hyd. Summary Page 3.14 Name.... WS2- TO WETLAND Tag: 2-YR Event: 2 yr File.... Z:\PROGRAMS\PONDPACK\96 POST OFFICE ROAD\PRE AND POST ANALYSIS.PPW

Storm... TypeIII 24hr Tag: 2-YR

#### SCS UNIT HYDROGRAPH METHOD

STORM EVENT: 2 year storm

Duration = 50.0000 hrs Rain Dept
Rain Dir = C:\HAESTAD\PPKW\RAINFALL\ Rain Depth = 3.2538 in

Rain File -ID = SCSTYPES.RNF - TypeIII 24hr

Unit Hyd Type = Default Curvilinear

= Z:\PROGRAMS\PONDPACK\96 POST OFFICE ROAD\

HYG File - ID = - WS2- TO WETLAND 2-YR

= .1340 hrs Tc

Drainage Area = .605 acres Runoff CN= 73

Computational Time Increment = .01787 hrs Computed Peak Time = 12.1315 hrs

Time Increment for HYG File = .0100 hrs Peak Time, Interpolated Output = 12.1302 hrs Peak Flow, Interpolated Output = .65 cfs 

#### DRAINAGE AREA \_\_\_\_\_\_

ID:None Selected

CN = 73

Area = .605 acres

S = 3.6799 in0.25 =.7360 in

#### Cumulative Runoff ------

1.0229 in .052 ac-ft

HYG Volume...

.052 ac-ft (area under HYG curve)

#### \*\*\*\*\* UNIT HYDROGRAPH PARAMETERS \*\*\*\*\*

Time Concentration, Tc = .13400 hrs (ID: None Selected) Computational Incr, Tm = .01787 hrs = 0.20000 Tp

Unit Hyd. Shape Factor = 483.432 (37.46% under rising limb) K = 483.43/645.333, K = .7491 (also, K = 2/(1+(Tr/Tp))Receding/Rising, Tr/Tp = 1.6698 (solved from K = .7491)

Unit peak, qp = 5.12 cfs Unit peak time Tp = .08933 hrs Unit receding limb, Tr = .35733 hrs Total unit time, Tb = .44667 hrs

S/N: B21A01606A8C P.W. Scott Engineering & Arch PondPack Ver. 7.5 (786c) Compute Time: 18:15:37 Date: 01/31/2024

Type.... SCS Unit Hyd. Summary Page 3.15 Name.... WS2- TO WETLAND Tag: 10-YR Event: 10 yr File.... Z:\PROGRAMS\PONDPACK\96 POST OFFICE ROAD\PRE AND POST ANALYSIS.PPW

Storm... TypeIII 24hr Tag: 10-YR

#### SCS UNIT HYDROGRAPH METHOD

STORM EVENT: 10 year storm

Duration Rain Depth = 4.8616 in

= 50.0000 hrs Rain Dept
= C:\HAESTAD\PPKW\RAINFALL\ Rain Dir Rain File -ID = SCSTYPES.RNF - TypeIII 24hr

Unit Hyd Type = Default Curvilinear

HYG Dir = Z:\PROGRAMS\PONDPACK\96 POST OFFICE ROAD\

HYG File - ID = - WS2- TO WETLAND 10-YR

= .1340 hrs

Drainage Area = .605 acres Runoff CN= 73

Computational Time Increment = .01787 hrs Computed Peak Time = 12.1315 hrs 

Time Increment for HYG File = .0100 hrs Peak Time, Interpolated Output = 12.1302 hrs Peak Flow, Interpolated Output = 1.41 cfs 

#### DRAINAGE AREA

\_\_\_\_\_\_

ID:None Selected

CN = 73

Area = .605 acres

S = 3.6799 in0.25 =.7360 in

#### Cumulative Runoff -----

2.1806 in

.110 ac-ft

HYG Volume...

.110 ac-ft (area under HYG curve)

#### \*\*\*\*\* UNIT HYDROGRAPH PARAMETERS \*\*\*\*\*

Time Concentration, Tc = .13400 hrs (ID: None Selected) Computational Incr, Tm = .01787 hrs = 0.20000 Tp

Unit Hyd. Shape Factor = 483.432 (37.46% under rising limb) K = 483.43/645.333, K = .7491 (also, K = 2/(1+(Tr/Tp)))Receding/Rising, Tr/Tp = 1.6698 (solved from K = .7491)

Unit peak, 5.12 cfs qp = Unit peak time  $Tp = .08933 \ hrs$ Unit receding limb, Tr = .35733 hrs Total unit time, Tb = .44667 hrs

S/N: B21A01606A8C P.W. Scott Engineering & Arch PondPack Ver. 7.5 (786c)

Type.... SCS Unit Hyd. Summary Page 3.16 Name.... WS2- TO WETLAND Tag: 100-yr Event: 100 yr File.... Z:\PROGRAMS\PONDPACK\96 POST OFFICE ROAD\PRE AND POST ANALYSIS.PPW Storm... TypeIII 24hr Tag: 100-vr SCS UNIT HYDROGRAPH METHOD STORM EVENT: 100 year storm = 50.0000 hrs Duration Rain Depth = 8.6513 in = C:\HAESTAD\PPKW\RAINFALL\ Rain Dir Rain File -ID = SCSTYPES.RNF - TypeIII 24hr Unit Hyd Type = Default Curvilinear HYG Dir = Z:\PROGRAMS\PONDPACK\96 POST OFFICE ROAD\ HYG File - ID = - WS2- TO WETLAND 100-yr = .1340 hrs Drainage Area = .605 acres Runoff CN= 73 Computational Time Increment = .01787 hrs Computed Peak Time = 12.1136 hrs Computed Peak Flow Time Increment for HYG File = .0100 hrs Peak Time, Interpolated Output = 12.1202 hrs Peak Flow, Interpolated Output = 3.40 cfs DRAINAGE AREA ID:None Selected CN = 73Area = .605 acres S = 3.6799 in0.25 = .7360 inCumulative Runoff \_\_\_\_\_\_ 5.4033 in .272 ac-ft HYG Volume... .272 ac-ft (area under HYG curve) \*\*\*\*\* UNIT HYDROGRAPH PARAMETERS \*\*\*\*\* Time Concentration, Tc = .13400 hrs (ID: None Selected) Computational Incr, Tm = .01787 hrs = 0.20000 Tp

Unit Hyd. Shape Factor = 483.432 (37.46% under rising limb) K = 483.43/645.333, K = .7491 (also, K = 2/(1+(Tr/Tp)) Receding/Rising, Tr/Tp = 1.6698 (solved from K = .7491)

Unit peak, qp = 5.12 cfs Unit peak time Tp = .08933 hrs Unit receding limb, Tr = .35733 hrs Total unit time, Tb = .44667 hrs

# **APPENDIX C1-N**

# North Concrete Flow Through Planter

- 1. Planter Volume
- 2. Planter Outlet Structures
- 3. Planter Routing
- 4. Planter 1-Year Routing Time

Type.... Vol: Planimeter Page 4.01 Name.... NORTH PLANTER

File.... Z:\PROGRAMS\PONDPACK\96 POST OFFICE ROAD\PRE AND POST ANALYSIS.PPW

Title... PLANTER

#### POND VOLUME CALCULATIONS

Planimeter scale: 1.00 ft/in

Elevation	Planimeter	Area	A1+A2+sqr(A1*A2)	Volume	Volume Sum
(ft)	(sq.in)	(acres)	(acres)	(ac-ft)	(ac-ft)
486.00 488.00	168.000 168.000	.0039	.0000	.000	. 000

#### POND VOLUME EQUATIONS

\* Incremental volume computed by the Conic Method for Reservoir Volumes.

Volume = (1/3) \* (EL2-EL1) \* (Area1 + Area2 + sq.rt.(Area1\*Area2))

where: EL1, EL2 = Lower and upper elevations of the increment Area1,Area2 = Areas computed for EL1, EL2, respectively Volume = Incremental volume between EL1 and EL2

S/N: B21A01606A8C P.W. PondPack Ver. 7.5 (786c) Con

P.W. Scott Engineering & Arch Compute Time: 18:15:37 Date: 01/31/2024



Type.... Outlet Input Data

Name.... PLANTER OUT

Page 5.01

File.... Z:\PROGRAMS\PONDPACK\96 POST OFFICE ROAD\PRE AND POST ANALYSIS.PPW

Title... CONCRETE WIERS

#### REQUESTED POND WS ELEVATIONS:

Min. Elev.= 486.00 ft Increment = .10 ft Max. Elev.= 488.00 ft

---> Forward Flow Only (UpStream to DnStream)
<--- Reverse Flow Only (DnStream to UpStream)

associas as section in the second contract to the Allowed of the second contract and the second contract as the s

Structure	No.		Outfall	E1, ft	E2, ft
Weir-Rectangular Weir-Rectangular TW SETUP. DS Channel	<b>A</b>	>	TW	487.250	488.000
	B	>	TW	487.250	488.000

S/N: B21A01606A8C PondPack Ver. 7.5 (786c) P.W. Scott Engineering & Arch

Type.... Outlet Input Data Name.... PLANTER OUT

File.... Z:\PROGRAMS\PONDPACK\96 POST OFFICE ROAD\PRE AND POST ANALYSIS.PPW Title... CONCRETE WIERS

Page 5.02

#### OUTLET STRUCTURE INPUT DATA

Structure ID = A Structure Type = Weir-Rectangular -----

# of Openings = 1 Crest Elev. = 487.25 ft Weir Length = .50 ft Weir Coeff. = 2.800000

Weir TW effects (Use adjustment equation) the second second control of the con

> Structure ID = B
> Structure Type = Weir-Rectangular -----

# of Openings = 1 Crest Elev. = 487.25 ft Weir Length = .50 ft Weir Coeff. = 2.800000

Weir TW effects (Use adjustment equation)

Structure ID = TW Structure Type = TW SETUP, DS Channel

FREE OUTFALL CONDITIONS SPECIFIED

CONVERGENCE TOLERANCES...

Maximum Iterations= 30 Min. TW tolerance =

Min. TW tolerance = .01 ft
Max. TW tolerance = .01 ft
Min. HW tolerance = .01 ft
Max. HW tolerance = .01 ft
Min. Q tolerance = .10 cfs

Max. Q tolerance = .10 cfs

S/N: B21A01606A8C PondPack Ver. 7.5 (786c) P.W. Scott Engineering & Arch

Type.... Pond Routing Summary Page 6.01
Name... NORTH PLANTEROUT Tag: 1-YR Event: 1 yr

File.... Z:\PROGRAMS\PONDPACK\96 POST OFFICE ROAD\PRE AND POST ANALYSIS.PPW

Storm... TypeIII 24hr Tag: 1-YR

#### LEVEL POOL ROUTING SUMMARY

HYG Dir = Z:\PROGRAMS\PONDPACK\96 POST OFFICE ROAD\

Inflow HYG file = NONE STORED - NORTH PLANTERIN 1-YR
Outflow HYG file = NONE STORED - NORTH PLANTEROUT 1-YR

Pond Node Data = NORTH PLANTER Pond Volume Data = NORTH PLANTER Pond Outlet Data = PLANTER OUT

Infiltration = 2.0000 in/hr

#### INITIAL CONDITIONS

\_\_\_\_\_

Starting WS Elev = 486.33 ft
Starting Volume = .001 ac-ft
Starting Outflow = .00 cfs

Starting Outflow = .00 cfs
Starting Infiltr. = .01 cfs
Starting Total Qout= .01 cfs
Time Increment = .0100 hrs

#### INFLOW/OUTFLOW HYDROGRAPH SUMMARY

Peak Inflow = .04 cfs at 12.0500 hrs
Peak Outflow = .00 cfs at 9.7700 hrs
Peak Infiltration = .01 cfs at 9.7600 hrs

Peak Elevation = 486.36 ft
Peak Storage = .001 ac-ft

#### MASS BALANCE (ac-ft)

+ Initial Vol = .001 + HYG Vol IN = .003 - Infiltration = .004 - HYG Vol OUT = .000 - Retained Vol = .000

Unrouted Vol = -.000 ac-ft (.107% of Inflow Volume)

S/N: B21A01606A8C PondPack Ver. 7.5 (786c) P.W. Scott Engineering & Arch Compute Time: 18:15:37 Date: 01/31/2024

J.J.

Type.... Detention Time

Page 6.02 Name.... NORTH PLANTEROUT Tag: 1-YR Event: 1 yr

File.... Z:\PROGRAMS\PONDPACK\96 POST OFFICE ROAD\PRE AND POST ANALYSIS.PPW

Storm... TypeIII 24hr Tag: 1-YR

#### **DETENTION TIMES SUMMARY**

HYG Dir = Z:\PROGRAMS\PONDPACK\96 POST OFFICE ROAD\

Inflow HYG file = NONE STORED - NORTH PLANTERIN 1-YR Outflow HYG file = NONE STORED - NORTH PLANTEROUT 1-YR

Pond Node Data = NORTH PLANTER Pond Volume Data = NORTH PLANTER Pond Outlet Data = PLANTER OUT

Infiltration = 2.0000 in/hr

#### APPROXIMATE DETENTION TIME

·Qowt+Infilt. Centroid = 1.13.0737 hrs Inflow Centroid = 12.8070 hrs Centroid to Centroid = .2668 hrs

S/N: B21A01606A8C P.W. Scott Engineering & Arch PondPack Ver. 7.5 (786c) Compute Time: 18:15:37 Date: 01/31/2024

Type.... Pond Routing Summary Name.... NORTH PLANTEROUT Tag: 2-YR

Event: 2 yr File.... Z:\PROGRAMS\PONDPACK\96 POST OFFICE ROAD\PRE AND POST ANALYSIS.PPW

Page 6.03

Storm... TypeIII 24hr Tag: 2-YR

#### LEVEL POOL ROUTING SUMMARY

HYG Dir = Z:\PROGRAMS\PONDPACK\96 POST OFFICE ROAD\

Inflow HYG file = NONE STORED - NORTH PLANTERIN 2-YR Outflow HYG file = NONE STORED - NORTH PLANTEROUT 2-YR

Pond Node Data = NORTH PLANTER Pond Volume Data = NORTH PLANTER Pond Outlet Data = PLANTER OUT

Infiltration = 2.0000 in/hr

#### INITIAL CONDITIONS

Starting WS Elev = 486.33 ft - Starting Volume = .001-ac-ft Starting Outflow = .00 cfs
Starting Infiltr. = .01 cfs
Starting Total Qout= .01 cfs
Time Increment = .0100 hrs

#### INFLOW/OUTFLOW HYDROGRAPH SUMMARY

-----Peak Elevation = 486.45 ft Peak Storage = .002 ac-ft 

#### MASS BALANCE (ac-ft)

+ Initial Vol = .001 .004 + HYG Vol IN = - Infiltration = - HYG Vol OUT = - Retained Vol =

------

Unrouted Vol = -.000 ac-ft (.078% of Inflow Volume)

S/N: B21A01606A8C P.W. Scott Engineering & Arch PondPack Ver. 7.5 (786c)

Type.... Pond Routing Summary Page 6.04 Name.... NORTH PLANTEROUT Tag: 10-YR Event: 10 yr File.... Z:\PROGRAMS\PONDPACK\96 POST OFFICE ROAD\PRE AND POST ANALYSIS.PPW

Storm... TypeIII 24hr Tag: 10-YR

#### LEVEL POOL ROUTING SUMMARY

= Z:\PROGRAMS\PONDPACK\96 POST OFFICE ROAD\ HYG Dir

Inflow HYG file = NONE STORED - NORTH PLANTERIN 10-YR Outflow HYG file = NONE STORED - NORTH PLANTEROUT 10-YR

Pond Node Data = NORTH PLANTER Pond Volume Data = NORTH PLANTER Pond Outlet Data = PLANTER OUT

Infiltration = 2.0000 in/hr

#### INITIAL CONDITIONS

Starting WS Elev = 486.33 ft Starting Volume = .001 ac-ft

Starting Outflow = .00 cfs

Starting Infiltr. = .01 cfs

Starting Total Qout= .01 cfs

Time Increment = .0100 hrs

-----

#### INFLOW/OUTFLOW HYDROGRAPH SUMMARY

 Peak Inflow
 =
 .09 cfs
 at 12.0800 hrs

 Peak Outflow
 =
 .00 cfs
 at 7.5900 hrs

 Peak Infiltration
 =
 .01 cfs
 at 7.5800 hrs

 -----Peak Elevation = 486.85 ft Peak Storage = .003 ac-ft 

#### MASS BALANCE (ac-ft)

+ Initial Vol = .001 .007 + HYG Vol IN = - Infiltration = .008 - HYG Vol OUT = .000 .000 - Retained Vol =

\_\_\_\_\_\_\_

Unrouted Vol = -.000 ac-ft (.045% of Inflow Volume)

S/N: B21A01606A8C P.W. Scott Engineering & Arch PondPack Ver. 7.5 (786c)



Type.... Pond Routing Summary

Page 6.05

Name.... NORTH PLANTEROUT Tag: 100-yr Event: 100 yr File.... Z:\PROGRAMS\PONDPACK\96 POST OFFICE ROAD\PRE AND POST ANALYSIS.PPW

Storm... TypeIII 24hr Tag: 100-yr

#### LEVEL POOL ROUTING SUMMARY

HYG Dir = Z:\PROGRAMS\PONDPACK\96 POST OFFICE ROAD\ Inflow HYG file = NONE STORED - NORTH PLANTERIN 100-yr Outflow HYG file = NONE STORED - NORTH PLANTEROUT 100-yr

Pond Node Data = NORTH PLANTER Pond Volume Data = NORTH PLANTER Pond Outlet Data = PLANTER OUT

Infiltration = 2.0000 in/hr

#### INITIAL CONDITIONS

Starting WS Elev = 486.33 ft Starting Volume = .001 ac ft
Starting Outflow = .00 cfs
Starting Infiltr. = .01 cfs
Starting Total Qout= .01 cfs
Time Increment = .0100 hrs

\_\_\_\_\_\_\_

#### INFLOW/OUTFLOW HYDROGRAPH SUMMARY

 Peak Inflow
 =
 .17 cfs
 at
 12.0800 hrs

 Peak Outflow
 =
 .09 cfs
 at
 12.2100 hrs

 Peak Infiltration
 =
 .01 cfs
 at
 4.8900 hrs

 \_\_\_\_\_\_ Peak Elevation = 487.34 ft Peak Storage = .005 ac-ft \_\_\_\_\_

#### MASS BALANCE (ac-ft)

+ Initial Vol = .001 + HYG Vol IN = .014 - Infiltration = .012 - HYG Vol OUT = .003 - Retained Vol = .000

-----

Unrouted Vol = -.000 ac-ft (.022% of Inflow Volume)

S/N: B21A01606A8C PondPack Ver. 7.5 (786c)

P.W. Scott Engineering & Arch



# **APPENDIX C1-S**

# South Concrete Flow Through Planter

- 1. Planter Volume
- 2. Planter Outlet Structures
- 3. Planter Routing
- 4. Planter 1-Year Routing Time



Type.... Vol: Planimeter Page 4.02

Name.... SOUTH PLANTER

File.... Z:\PROGRAMS\PONDPACK\96 POST OFFICE ROAD\PRE AND POST ANALYSIS.PPW

Title... SOUTH PLANTER

#### POND VOLUME CALCULATIONS

Planimeter scale: 1.00 ft/in

Elevation	Planimeter	Area	A1+A2+sqr(A1*A2)	Volume	Volume Sum
(ft)	(sq.in)	(acres)	(acres)	(ac-ft)	(ac-ft)
486.00 488.00	152.000 152.000	.0035	. 0000 . 0105	. 000	.000

#### POND VOLUME EQUATIONS

\* Incremental volume computed by the ConforMethod for Reservoir Volumes.

Volume = (1/3) \* (EL2-EL1) \* (Area1 + Area2 + sq.rt.(Area1\*Area2))

where: EL1, EL2 = Lower and upper elevations of the increment Area1, Area2 = Areas computed for EL1, EL2, respectively

Volume = Incremental volume between EL1 and EL2

S/N: B21A01606A8C P.W. Scott Engineering & Arch

PondPack Ver. 7.5 (786c) Compute Time: 18:15:37 Date: 01/31/2024



Type.... Outlet Input Data

Name.... PLANTER OUT

File.... Z:\PROGRAMS\PONDPACK\96 POST OFFICE ROAD\PRE AND POST ANALYSIS.PPW

Page 5.01

Title... CONCRETE WIERS

#### REQUESTED POND WS ELEVATIONS:

Min. Elev.= 486.00 ft Increment = .10 ft Max. Elev.= 488.00 ft

---> Forward Flow Only (UpStream to DnStream)
<--- Reverse Flow Only (DnStream to UpStream)</pre>

Structure	No.		Outfall	E1, ft	E2, ft
Weir-Rectangular Weir-Rectangular TW SETUP, DS Channel	A B	> >	TW TW	487.250 487.250	488.000 488.000

S/N: B21A01606A8C PondPack Ver. 7.5 (786c) P.W. Scott Engineering & Arch Compute Time: 18:15:37 Date: 01/31/2024

Type.... Outlet Input Data Page 5.02

Name.... PLANTER OUT

File.... Z:\PROGRAMS\PONDPACK\96 POST OFFICE ROAD\PRE AND POST ANALYSIS.PPW

Title... CONCRETE WIERS

#### OUTLET STRUCTURE INPUT DATA

Structure ID = A

Structure Type = Weir-Rectangular

# of Openings = 1

Crest Elev. = 487.25 ft
Weir Length = .50 ft
Weir Coeff. = 2.800000

Weir TW effects (Use adjustment equation)

Structure ID = B

Structure Type = Weir-Rectangular -----

# of Openings = 1 Crest Elev. = 487.25 ft Weir Length = .50 ft Weir Coeff. = 2.800000

Weir TW effects (Use adjustment equation)

Structure ID = TW

Structure Type = TW SETUP, DS Channel

FREE OUTFALL CONDITIONS SPECIFIED

#### CONVERGENCE TOLERANCES...

Maximum Iterations= 30

Min. TW tolerance = .01 ft

Max. TW tolerance = .01 ft

Min. HW tolerance = .01 ft
Max. HW tolerance = .01 ft
Min. Q tolerance = .10 cfs
Max. Q tolerance = .10 cfs

S/N: B21A01606A8C P.W. Scott Engineering & Arch

PondPack Ver. 7.5 (786c) Compute Time: 18:15:37 Date: 01/31/2024 Type.... Pond Routing Summary Page 6.06 Name.... SOUTH PLANTEROUT Tag: 1-YR Event: 1 yr

File.... Z:\PROGRAMS\PONDPACK\96 POST OFFICE ROAD\PRE AND POST ANALYSIS.PPW

Storm... TypeIII 24hr Tag: 1-YR

#### LEVEL POOL ROUTING SUMMARY

HYG Dir = Z:\PROGRAMS\PONDPACK\96 POST OFFICE ROAD\

Inflow HYG file = NONE STORED - SOUTH PLANTERIN 1-YR Outflow HYG file = NONE STORED - SOUTH PLANTEROUT 1-YR

Pond Node Data = SOUTH PLANTER Pond Volume Data = SOUTH PLANTER Pond Outlet Data = PLANTER OUT

Infiltration = 2.0000 in/hr

#### INITIAL CONDITIONS

-----Starting WS Elev = 486.00 ft --- Starting-Volume = .000 ac-ft .00 cfs Starting Outflow = Starting Infiltr. = Starting Total Qout= .00 cfs Time Increment = .0100 hrs

#### INFLOW/OUTFLOW HYDROGRAPH SUMMARY

Peak Inflow = .04 cfs at 12.0800 hrs Peak Outflow = .00 cfs at 9.5500 hrs Peak Infiltration = .01 cfs at 11.9200 hrs Peak Elevation = 486.38 ft Peak Storage = .001 ac-ft \_\_\_\_\_\_

#### MASS BALANCE (ac-ft)

+ Initial Vol = .000 + HYG Vol IN = .003 - Infiltration = .003 - HYG Vol OUT = .000 - Retained Vol = .000

Unrouted Vol = .000 ac-ft (.001% of Inflow Volume)

S/N: B21A01606A8C P.W. Scott Engineering & Arch PondPack Ver. 7.5 (786c)

Type.... Pond Routing Summary Page 6.08 Name.... SOUTH PLANTEROUT Tag: 2-YR Event: 2 yr File.... Z:\PROGRAMS\PONDPACK\96 POST OFFICE ROAD\PRE AND POST ANALYSIS.PPW Storm... TypeIII 24hr Tag: 2-YR LEVEL POOL ROUTING SUMMARY

= Z:\PROGRAMS\PONDPACK\96 POST OFFICE ROAD\ Inflow HYG file = NONE STORED - SOUTH PLANTERIN 2-YR Outflow HYG file = NONE STORED - SOUTH PLANTEROUT 2-YR

Pond Node Data = SOUTH PLANTER Pond Volume Data = SOUTH PLANTER Pond Outlet Data = PLANTER OUT

Infiltration = 2.0000 in/hr

#### INITIAL CONDITIONS

Starting WS Elev = 486.00 ft Starting Volume = --- .000 ac-ft

Starting Outflow = .00 cfs
Starting Infiltr. = .00 cfs
Starting Total Qout= .00 cfs
Time Increment = .0100 hrs

\_\_\_\_\_\_\_

#### INFLOW/OUTFLOW HYDROGRAPH SUMMARY

Peak Inflow = .05 cfs at 12.1000 hrs
Peak Outflow = .00 cfs at 8.8700 hrs
Peak Infiltration = .01 cfs at 11.8200 hrs -----Peak Elevation = 486.52 ft Peak Storage = .002 ac-ft

\_\_\_\_\_

#### MASS BALANCE (ac-ft)

+ Initial Vol = .000 .004 + HYG Vol IN = - Infiltration = .000 .000 - HYG Vol OUT = - Retained Vol =

Unrouted Vol = .000 ac-ft (.000% of Inflow Volume)

S/N: B21A01606A8C P.W. Scott Engineering & Arch PondPack Ver. 7.5 (786c) Compute Time: 18:15:37 Date: 01/31/2024

Type.... Pond Routing Summary Page 6.09 Name.... SOUTH PLANTEROUT Tag: 10-YR Event: 10 yr File.... Z:\PROGRAMS\PONDPACK\96 POST OFFICE ROAD\PRE AND POST ANALYSIS.PPW Storm... TypeIII 24hr Tag: 10-YR

#### LEVEL POOL ROUTING SUMMARY

= Z:\PROGRAMS\PONDPACK\96 POST OFFICE ROAD\ Inflow HYG file = NONE STORED - SOUTH PLANTERIN 10-YR Outflow HYG file = NONE STORED - SOUTH PLANTEROUT 10-YR

Pond Node Data = SOUTH PLANTER Pond Volume Data = SOUTH PLANTER Pond Outlet Data = PLANTER OUT

Infiltration = 2.0000 in/hr

#### INITIAL CONDITIONS

Starting WS Elev = 486.00 ft .00 cfs Starting Outflow = Starting Infiltr. = Starting Total Qout= .00 cfs
Time Increment = .0100 hrs

\_\_\_\_\_\_

#### INFLOW/OUTFLOW HYDROGRAPH SUMMARY

Peak Inflow = .09 cfs at 12.0800 hrs
Peak Outflow = .00 cfs at 7.3400 hrs
Peak Infiltration = .01 cfs at 11.5300 hrs Peak Elevation = 487.00 ft Peak Storage = .003 ac-ft 

#### MASS BALANCE (ac-ft)

+ Initial Vol = .000 .007 + HYG Vol IN = .007 - Infiltration = - HYG Vol OUT = - Retained Vol =

Unrouted Vol = -.000 ac-ft (.001% of Inflow Volume)

S/N: B21A01606A8C P.W. Scott Engineering & Arch PondPack Ver. 7.5 (786c)

Type.... Pond Routing Summary Page 6.10 Name.... SOUTH PLANTEROUT Tag: 100-yr Event: 100 yr File.... Z:\PROGRAMS\PONDPACK\96 POST OFFICE ROAD\PRE AND POST ANALYSIS.PPW Storm... TypeIII 24hr Tag: 100-yr

#### LEVEL POOL ROUTING SUMMARY

HYG Dir = Z:\PROGRAMS\PONDPACK\96 POST OFFICE ROAD\
Inflow HYG file = NONE STORED - SOUTH PLANTERIN 100-yr
Outflow HYG file = NONE STORED - SOUTH PLANTEROUT 100-yr

Pond Node Data = SOUTH PLANTER Pond Volume Data = SOUTH PLANTER Pond Outlet Data = PLANTER OUT

Infiltration = 2.0000 in/hr

#### INITIAL CONDITIONS

Starting WS Elev = 486.00 ft
Starting Volume = .000 ac-ft
Starting Outflow = .00 cfs
Starting Infiltr. = .00 cfs
Starting Total Qout= .00 cfs
Time Increment = .0100 hrs

\_\_\_\_\_\_

#### INFLOW/OUTFLOW HYDROGRAPH SUMMARY

Peak Inflow = .17 cfs at 12.0800 hrs
Peak Outflow = .12 cfs at 12.1600 hrs
Peak Infiltration = .01 cfs at 10.0700 hrs

Peak Elevation = 487.37 ft
Peak Storage = .005 ac-ft

#### MASS BALANCE (ac-ft)

+ Initial Vol = .000 + HYG Vol IN = .014 - Infiltration = .010 - HYG Vol OUT = .004 - Retained Vol = .001

\_\_\_\_\_\_

Unrouted Vol = -.000 ac-ft (.001% of Inflow Volume)

S/N: B21A01606A8C PondPack Ver. 7.5 (786c) P.W. Scott Engineering & Arch

Type.... Detention Time

Page 6.07

Name.... SOUTH PLANTEROUT Tag: 1-YR

Event: 1 yr

File.... Z:\PROGRAMS\PONDPACK\96 POST OFFICE ROAD\PRE AND POST ANALYSIS.PPW

Storm... TypeIII 24hr Tag: 1-YR

#### DETENTION TIMES SUMMARY

HYG Dir = Z:\PROGRAMS\PONDPACK\96 POST OFFICE ROAD\

Inflow HYG file = NONE STORED - SOUTH PLANTERIN 1-YR Outflow HYG file = NONE STORED - SOUTH PLANTEROUT 1-YR

Pond Node Data = SOUTH PLANTER Pond Volume Data = SOUTH PLANTER Pond Outlet Data = PLANTER OUT

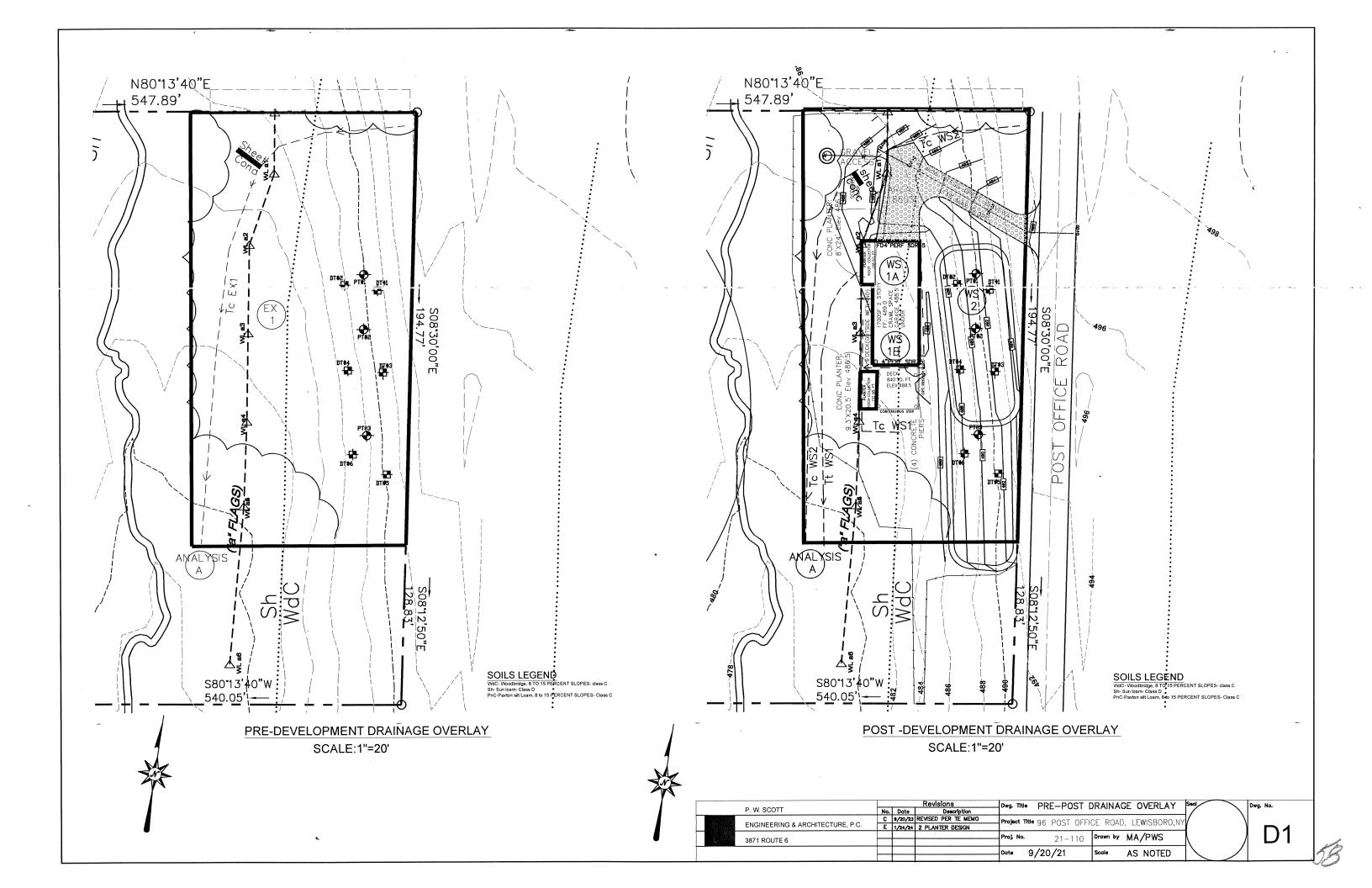
Infiltration = 2.0000 in/hr

#### APPROXIMATE DETENTION TIME

Qout Infilt. Centroid = 13.9689 hrs Inflow Centroid = 12.7723 hrs Centroid to Centroid = 1.1966 hrs

S/N: B21A01606A8C PondPack Ver. 7.5 (786c)

P.W. Scott Engineering & Arch Compute Time: 18:15:37 Date: 01/31/2024



# 96 Post Office RdWaccabuc, NY(T) Lewisboro

# STORMWATER POLLUTION PREVENTION PLAN

### Prepared by:

Peder W. Scott, P.E., R.A.
P W Scott Engineering & Architecture, PC
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Brewster, NY 10509
pwscott@pwscott.com

January 24, 2024

## 96 Post Office Rd Waccabuc, NY

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#### APPENDIX A

- A: Certifications
- **B**: Construction Inspection Logs
- C: Maintenance Schedule Temporary
- D: NOI Application -NYSDEC
- E: MS-4 SWPPP Acceptance Form filed with Town of Lewisboro
- F: Short Form EAF

#### **FIGURES**

Figure 1.0: Lot Aerial Photo

Figure 2.0: NYSDEC Mapper Printout

Figure 3.0: Soils Map

# DRAWINGS (attached)

#### **SWPPP DRAWINGS**

DRAWING SY1: SWPPP Erosion Control Plan
DRAWING SY2: Concrete Planter Details
DRAWING D1: Pre & Post Drainage Overlays
DRAWING A1: Floor Plan Single Story Residence

#### **OWTS DRAWINGS**

DRAWING SP1: Septic Plan – New Construction

DRAWING SP1A: Overall Septic Site Plan

DRAWING SP2: Septic Details

DRAWING SP3: Pump Sheet Single Family – OWTS

#### 1.0 Objective

P.W. Scott Engineering & Architecture, P.C. (PWSE&A, PC) prepared this Individual Residential Stormwater Pollution Permit 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;
- Town of Lewisboro, Stormwater Management and Erosion and Sediment Control, Chapter 189.

#### 2.0 The Objectives of this SWPPP

- 1. Outline Owner and Contractor responsibilities to maintain compliance with SPDES GP-0-20-001, including required inspections, maintenance, forms, and certifications.
- 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 within 100 ft of NYSDEC wetland & watercourse.

#### 2.1 Owner's Responsibilities

Alex Bernabo/wDesigne, Inc., 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 for ensuring 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-0-20-001, Notice of Intent (NOI), NOI acknowledgement letter, SWPPP, 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.

#### 2.2 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.

### 2.3 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.

### 3.0 Proposed Activity

Construction of 2600 sf single family 2-bedroom residence with a 600 sf garage(1700 sf footprint) with a gravel driveway and individual well and individual subsurface sewage disposal system (OWTS) with 12' of fill, 1,000 gal. septic tank and pump tank.

### 4.0 Location and Topography

### 4.1 Location Description

The subject property is located at 96 Post Office Rd, 500' north of Benedict Rd on Post Rd in the Town of Lewisboro. The subject parcel is identified as **Tax Map: 25, Block: 10812, Lot: 3 of 4.04 acres.** 

### **Existing Condition**

The site is a wooded parcel extending from a stone wall at as slope between 18% and 20% to a wetland area extending along a non-regulated stream.

The 2' contours follow the alignment of the front property line for the length of the lot along Post Office Rd. Refer to Dwg SP1.

### **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 Putnam and Westchester Counties, New York. Refer to Dwg SP1A.

The soils within the site consist of:

Soil	Hydrogeological Classification
Paxton Silt Loam Soil (PbC) - 8 to 15 percent slopes	s C
Sun Loam (Sh) – 0 to 3 percent slopes	D
Woodbridge (WdC) - 8 to 15 percent slopes	D

Table 4-1
Project Site Soils

Symbol	Soil Series Name	Hydrologic Soil Group	Drainage Characteristics
PbC	Paxton fine sandy loam, 8 to 15 percent slopes	С	This soil is strongly sloping, very deep, and well drained. It is on tile sides and tops of broad ridges and small hills. (K factor 0.24 to 0.32)
Sh	Sun Loam, 0 to 3 percent slopes	D	This soil consists of very deep, poorly drained soil formed in till derived primarily from limestone and sandstone with smaller amounts of schist, shale and granite in some areas.
WdC	Woodbridge, 8 to 15 percent slopes	С	This is a very deep, moderately well drained, gently sloping soil on tops of hills, on side slopes, and on toe slopes within uplands.

**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 is a stream which extends through the lot approximately 145 ft from the property line. The NYSDEC Mapper does not denote this stream under jurisdiction of the NYDSDEC.

### 4.4 Existing Wetlands

The wetlands were flagged for BIBO Associates Approval in 2003. There has been no change in the character of the wetlands. The line is defined by a 'WL' symbol on the site plan. All septic disturbances are beyond the edge of the wetland line. The house site and the planter are within the wetland with top or first floor elevations 6.0 ft above the existing elevation.

### 4.5 Watershed Determination

The watershed for the lot drains to the subject watercourse and then drains to the south toward the NYSDEC wetland # L50- Class 1 of 23.4 acres. The stream continues to drain to the south through a Regulated #864-317 River – Class A(T) to the Cross River Reservoir and the Croton Reservoir Watershed.

### 4.6 Enforcement Actions

The property was subdivided prior to 1980. The project was issued a waiver from NYCDEP for slopes exceeding 15% in 1998 under the name Konetchy (Tax ID: 25-10812-3), DEP Log# 1998-CR-0637-IR.

The waiver requires a renewal with an application pending with this submission.

A Judicial Decision dated Sept. 8, 2003 provided conditions of approval including the filing of a

General Release to WCDOH prior to issuance of an Certificate of Completion. No enforcement actions are pending at this time.

### 5.0 Proposed Project

### **5.1 Proposal Description** (Reference Site Plan on SY I) Site plan improvements include:

- Construction of residence.
- Construction of OWTS
- Installation of well
- Installation of concrete planter
- Installation of gravel driveway & parking area
- Installation of erosion control

### **Limits of Disturbance**

The plans outline the project disturbances on Dwg SP1 as 0.45 acres - Refer to "L/D" Limit of Disturbance Line of this area.

### Net area of disturbance under 2.0 acres.

### 5.2 Proposed Buffers

The plan utilizes the trees as a buffer on the neighbor's property to the north.

A review of properties along Post Office Rd reveals that the proposed encroachment on the wetland & stream is consistent along this roadway.

### 5.3 Stormwater Management

The site is pervious with regards to the driveway and the septic area. The house and garage of 1,700 sf shall have roof leaders drain two separate (north/souoth) concrete flow through planters for treatment of the stormwater in compliance with the NYSDEC Manual – 2022. Two planters are more than 50.0' from any portion of the OWTS except for the sealed PVC waste pipe extending from the house to the septic tank.

A computer model is completed with the roof draining to the 2 concrete planters with a 12" flood storage zone above the planting soil providing limited attenuation.

### 5.4 Anticipated Permits

The following is a list of anticipated permits for the construction activities associated with 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 Lewisboro

- Stormwater, Soil Erosion and Sediment Control Permit (Town Code Chapter 119)
- The Town of Lewisboro, 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.

### **5.4.3 NYCDEP**

Due to the addition of an impervious roof within 100' of a watercourse an SWPPP is required.

### 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 Lewisboro 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. However, the project is located within the NYCDEP watershed where the SWPPP design must also address specific NYCDEP requirements. The proposed stormwater management system has been designed to address the criteria outlined in Chapter IO - Enhanced Phosphorous Removal Supplement of the New York State Stormwater Management Design Manual (NYSSMDM). The implementation of a stormwater management system is integral in the mitigation of the potential impacts associated with the proposed project. The NYCDEP requirements for the treatment volume, also referred to as water quality volume (WQv), is to capture and treat the runoff generated from a 1-year, 24-hour storm event. The WQv and channel protection volume criteria will follow the NYCDEP requirements, as they are more stringent. The NYSDEC criteria for water quality is evaluated based upon reduction of impervious surfaces. The NYSDEC requirements for overbank flood and extreme storm are the same as NYCDEP requirements for attenuating the larger storm events.

The stormwater treatment practices have been designed to meet the current WRR, including the requirement that the stormwater ponds be designed to capture and treat the runoff generated from the 1-year, 24-hour storm (EXTREME) 2.83 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 I-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 following table is representative of the storm design criteria required within the New York State Storm water Management Design Manual.

Table 6-1 NYSDEC Uniform Sizing Criteria

Water Quality Volume (WQv)*	WQv	Detention of 1-year storm event
Channel Protection (Cpv)*	Сру	<ul> <li>24 hour extended detention of post- developed 1-year, 24-hour storm event.</li> <li>Control the peak discharge from the 10-year storm to 10-year predevelopment rates.</li> <li>Control the peak discharge from the 100-year storm to 100-year predevelopment rates.</li> <li>Safely pass the 100-year storm event.</li> </ul>
Overbank Flood (Qp)		
Extreme Storm (Qr)		

Runoff reduction Volume
\*NYCDEP requirements more stringent

As the project is within the NYCDEP East of Hudson Watershed, the requirements and guidelines within Chapters 9 and 10 of the New York State Stormwater Management Design Manual were used to design the stormwater management system. The major portion of development that will occur in the area of the existing driveway and will incorporate the enhanced phosphorous requirements outlined in Chapter 10.

### 6.1.2 New York City Department of Environmental Protection Requirements

The project is located within the Croton Reservoir watershed, which is part of New York City's surface water drinking water supply. NYCDEP is currently operating under a Memorandum of Agreement with the United States Environmental Protection Agency for filtration avoidance. Under this agreement certain provisions regarding impervious surface and stormwater runoff were incorporated within the 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 (WRR) promulgated in 1997 and revised in 2010. The following sections of the WRR regarding impervious surfaces and stormwater are applicable to this project.

Section 18-39(c) requires NYCDEP's review and approval of a SWPPP. Section 18-39(c)(2) states that proposed development within a phosphorous restricted basin requires the capture and treatment of storm water runoff generated from a 1-year, 24-hour storm event.

### 6.2 Design Analysis

In order to evaluate the pre- and post-development drainage conditions, the site has been delineated into one discharge analysis point based on pre-development hydrology: Design Point A. This point was analyzed to evaluate the effects of the proposed development on surface water runoff. The design point and their pre- and post-development contributing sub-catchment areas are shown on Pre- and Post-Development Drainage Maps, Drawings D1. Analysis Point A is the discharge point from the concrete planter which drains across the brush hillside to the edge of the property into the wetland and the stream bisecting the parcel.

To analyze the peak flow in pre-and post-development conditions Haestad Methods Pond Pack, a computer TR-55 based system is used to evaluate and analyze the stormwater runoff from the site. The program also models the surface flow through the proposed stormwater practices determining the center-of-mass detention time within the ponds. A simultaneous routing process is used to evaluate the impacts associated with stormwater practices in series. Runoff volumes and rates are calculated by determining the curve numbers (CN) and calculating the time of concentration (Tc) for each sub catchment area depending on the given rainfall value. The CN values are based on the TR55 table and the hydrologic soil group, cover type, hydrologic condition, and antecedent runoff condition. The Tc represents the time it takes for surface water to travel the hydraulically most distant point within the sub catchment area. Since the site includes an existing pond, the existing and proposed ponds are modeled to determine attenuation characteristics of the site.

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 II 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
2.82	1
3.40	2
5.08	10
9.04	100

Source: Extreme Precipitation Table (Lat/Long 41.29 / 73.58)

### 6.2.1 Comparison At Analysis Point A (To the South)

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

Analysis Poir	nt A			
	1 YR (cfs)	2 YR (cfs)	10 YR (cfs)	100 YR (cfs)
PRE	.48	.73	1.54	3.63
POST	.42	.65	1.41	3.49
NET	-0.6	08	-0.13	-0.14
%	-12%	-11%	-8.5%	-3.8%

### **NYSDEC Attenuation Requirements**

- A) 1-Year Storm Event-Channel Protection
  Detain I-Year Storm 24 Hours
  Reduce by 50% from pre-development levels (NYCDEP).
- B) 2-Year Storm Event Peak Discharge approx. reduced to 1-Year Storm Event.
- C) 1-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. The discharge is divided around the disturbed areas with the resulting reduced watershed area meeting the required discharge levels.

A.	1-Year Storm Event	Channel protection could not be reduced by 50% even though planter did not discharge any of the 1-year storm. Large area of pervious cover discharges off site – reduction by 12%
B.	2-Year Storm Event	Reduced is reduced by 11%. Could not meet the pre- development discharge rate even though planter did not discharge any of the 2-year storm event. Large area of site drained directly into the wetland and stream.
C. D.	10-Year Storm Event 100-Year Storm Event	Attenuation met to pre-development levels. Attenuation met to pre-development levels.

### 6.3 **Nonstructural Stormwater Management**

Nonstructural stormwater management practices include the following:

- Providing site access through the use of gravel driveway at 14% grade.
- 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 landscape plan 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 to the lawns.
- Limiting development of site to 100' from front property lines

### 6.4 **Summary**

The proposed stormwater management system has been designed to attenuate the larger storm events to predevelopment conditions. 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 Flow Through Planter

Total volume reduction; reduced to 45% for Class-C soils.

### 7.1 Analysis of Site Uses

Residence	Metal Roof	Impervious	1700 sf
Driveway	Gravel	Not Impervious	1,850 sf
Septic Area	Grass Cover		5,800 sf

Remaining site uses is grass in disturbed area (10270 sf) with the remainder of the woods or wetlands same CN number.

### **Overall WQv Analysis**

Limited to area of site disturbance: 19,701 sf

```
WOv = PRv A/12 OVERALL SITE
Where P = 1-year storm event = 2.82 inches
         I = 1700 \text{ sf roof} = 0.039 \text{ acres}
         \% I = 8.6
         Rv = .05 + .009 (8.6) = .1274
         WQv = 2.82 (1.27) (0.45) / 12
               = .013 acre-ft = 5850 cubic feet
```

### 7.1.2 Proposed Treatment – Flow Through Planter

Treatment limited to roof only (no pretreatment required)

```
WQv Roof = PRvA / 12
Where P = 2.82:1-year storm
Area = 1,700 \text{ sf Roof} + 320 \text{ sf planter} = 2020 \text{ sf} = .046 \text{ acre}
I = 1700 / 2020 = .84
Rv = .05 + .009(84) = .806
WQv = (2.82) (0.806) (.046) / 12 = 0.0087 acre-ft = 380 cu ft
1-Year Storm Event (extreme precipitation)
Q \otimes CN = (1700*98 + 320*65)/2020 = 0.92
Volume 1-Year = (2.0 \text{ in}) (2020 \text{ sf}) = 336 \text{ cu ft}
```

### Flow Through Planter

Size Infiltration Planter (RR7) 12" ponding depth

18" larger storm overflow through weirs in concrete perimeter walls

18" to 30" soils – propose df = 30"

Refer to 2010 Design Manual p. 5-101

AF = 
$$\frac{\text{WQv df}}{k(hf + df)}$$
 =  $\frac{(380) 2.5}{(6.0) (.5 + 2.5) (0.17)}$  = 310 sf  
 $k = 18$ " leaf compost with 12" soil top =  $[8.6 (1.5) + 2.0 (1.0)] / 2.5 = 6.0$   
hf = 1.0 ft. / 2 = 0.5 ft  
tf = 4 hrs = .17 days

This is routed with (2) 6" weirs as overflow.

Propose 2 planters: North: 168 sf; south: 152 sf = 320 sf with separate roof collection gutters

Note: Planters are more than 50.0 ft from OWTS including tank.

### 7.1.3 Treatment Analysis

```
RRv min = P Rv (imp) S/12

Rv = .95

Imp = 1700 sf (house)= 0.039 acre

P = 2.82 in. 1-year storm

S Class C = 0.30

RRv = 2.82 (.95) (.039) (.3) / 12 = .0026 acre-ft = 113 cf
```

### Treatment of Roof WQv by Planter

```
Class C – 45% efficient

RRv = WQv^* BMP efficiency = (380 cf) (.45) = 171 cf = 0.0039 acre-ft (exceeds min. RRv)
```

Remaining disturbed areas treated by riparian buffer with sheet flow across planting beds. Grasscrete infiltrates driveway runoff into gravel sub-base and is considered pervious.

### 7.2 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 18% to 20%. The existing and proposed grading plan is shown on Drawing SP1. An outline of Erosion Control Practices are as follows:

A construction entrance is proposed off the driveway for access to the site. Construction fence will surround the perimeter (approx. 390 linear feet) of the proposed septic area. A line of silt fencing (approx. 245 linear feet) will be downhill of the house construction worksite. Other lengths of site fence (approx. 200 linear feet) will be placed as shown on the SP1. Once all erosion control is in place, the work may proceed.

### 7.3 Erosion and Sediment Control Practices - Temporary

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

### 7.3.1 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.

### 7.3.2 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 fences 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.

### 7.3.3 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.

### 7.3.4 Dust Control

During the demolition and construction process, debris and any disturbed earth shall be wet clown 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.

### 7.3.5 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.

### 7.3.6 Construction Fence

To protect the integrity of soils for the SSTS, at each lot, the perimeter as noted on the plans, must be enclosed with orange construction fence per the EC details (SP2.SY1 series).

### 7.3.7 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 stone outlet sediment trap.

### 7.3.8 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.

### 7.4 Erosion and Sediment Control Practices -Permanent

### 7.4.1 Stone Outlet Sediment Trap

At the base of the gravel driveway, it is proposed to install an outlet sediment trap to collect runoff from the gravel driveway before said flow discharges into the stream corridor.

### 7.4.2 Concrete Flow Through Planter

(While not an erosion control device, this requires maintenance as discussed in this SWPPP).

The structure is an 8" thick reinforced concrete wall on footings with an open bottom. The walls extend 16" above the soil strata with overflow 12" above the soil surface. The soil material is leaf compost with topsoil above. Refer to Detail Sheet SY1.

### 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 "2016 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 Lewisboro Town Engineer/MS4 Agent, Contractor & Engineer and NYCDEP for SWPPP for project scheduling and final plan coordination. There are no NYSDEC wetlands, wetland approval on local basis.
- 2. File NYSDEC NOI Forms with start dates
- 3. E.O.R. to complete NYSDEC inspections twice/week per NOI permit.

GENERAL SPECIFICATIONS - Area Disturbance: 0.45 acres; Anticipated start date: October 2024

- 4. Surveyor to locate limits of house, planter, septic & driveway.
- 5. Cut trees and clear leave stumps in place.
- 6. Install erosion control devices including erosion control fence. Refer to Sheet SY2
- 7. Install construction fence around septic area as noted.
- 8. Remove topsoil and stockpile as noted.
- 9. Contractor to verify elevation at planter and limits of building (cut & fill) E.O.R. to verify with site visit.
- 10. Install stone outlet sediment trap on hillside below driveway to collect runoff from driveway construction.
- 11. Excavate driveway and stabilize with Item #4 due to slope.
- 12. Stump the lot with access established for trucks picking up stumps.
- 13. Install concrete pump out pit adjacent to driveway
- 14. Install footings for residence & planter
- 15. Extend power to house site
- 16. Pour house walls & planter walls, allow sleeves for water, sewer out, and electrical, and propane lines. South planter is a separate pour.
- 17. Install concrete wall, waterproof and backfill
- 18. Install well by creating concrete gravel pad, install silt fence and install pump out pit for water test.
- 19. Remove concrete collected in the pump out pit and remove off site.
- 20. Install septic tanks and pump chamber. Install fill for septic and mechanically compact. Cut in trenches D-Boxes for primary only. Complete as-built inspections with E.O.R.
- 21. Spread 6" to 12" topsoil, seed and mulch
- 22. Clean out stone outlet sediment trap
- 23. Leave stone ring in place as permanent sediment collection point.
- 24. Complete final utility connection. Electrical overhead or underground per Contractor.
- 25. Construct wood deck with sono tube piers as footings, poured in cardboard forms.
- 26. Once deck is complete, complete soil filling of concrete planter per specs. Connect roof

leaders to planter (residence has flat roof pitching to rear and common leaders). Ensure overflows are functional in wall perimeter. Install plants between March 15<sup>th</sup> and June 15<sup>th</sup>; September 15<sup>th</sup> to October 15<sup>th</sup>. Water weekly as required if rainstorms not imminent within one week.

- 27. When entire site is stabilized with grass cover, remove silt fence.
- 28. Schedule MS4 Inspection with Town of Lewsiboro.
- 29. File NOT with NYSDEC.

Project complete

### 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 storm water 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 are 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-0-20-001.

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-0-20-001 **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 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-0-20-001 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:

- l. 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 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 clays. 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 clown with partial project completion, the qualified inspector can stop conducting inspections if all areas disturbed as of the project shutdown elate 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 14-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 Construction Fence

Maintenance consists of ensuring that the fence posts are upright and unbroken. The fence shall remain taut between posts and any debris trapped by the fence shall be removed and disposed of off-site. Supplemental posts may be required to support broken fence posts.

### 9.2.7 Material Handling/Soil Stabilization

The ensure that the site is properly seeded and stabilized, the Contractor must initiate stabilization measures as soon as practicable in areas of the site where construction activities have <u>permanently</u> 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 <u>temporarily</u> 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.

### 9.3 Maintenance Practices - Permanent

### 9.3.1 Sediment Trap Stone Outlet

Maintenance consists of weekly inspection during construction for stone placement, edge erosion and sediment build-up. Sediment should be removed every one year or when trap is ½ full, 18" deep.

### 9.3.2 Concrete Planter

- 1. Debris and trash removal required on weekly basis initially and monthly if debris not evident. Ensure outlet weirs in wall are clean.
- 2. Inspect planter after each storm event greater than 0.5 inches and at least twice in the first six months. After six months, inspect seasonally and after storms greater than 1-year storm event.
- 3. Maintenance consists of:
  - Pruning and replacing dead or dying vegetation.
  - Plant thinning and erosion repair.
- 4. Inspect surface for sediment build up from roof and for surface ponding.
- 5. The first season requires special care to ensure plant survival and possible supplemental watering due to rainfall events.

### 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: Alex Bernabo 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:

Alex Bernabo wDesigne, Inc 3867 Danbury Rd Brewster, NY 10509 (914) 906-1336 info@wdesigne.com

### 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 areas and driveway. Sand or silt from parking lot shall be removed if it exceeds 1 inch in the permanent sediment trap.

- 2. The storm water management system should be inspected after each major storm event (greater than 2-year, 24-hour storm) to ensure concrete planter outlet structure remains clear.
- 3. Any settlement within lawn areas shall be corrected with topsoil with seed and mulch across the OWTS area.
- 4. All planting shall be inspected each year and replaced as necessary for a period of 3 years to maintain 80% survival rate.
- 5. Concrete flow through planter shall follow the Maintenance Inspection Protocol of 9.3.2.
- 6. Site shall be maintained with lawn mowing, tree trimming, leaf clean-up as is necessary for an acceptable residential environment.
- 7. Review stability of the soils and vegetation under the dock due to rainfall discharge between the deck boards. Add gravel to stabilize eroded areas.

# APPENDIX A

Certifications

### 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	4
Contractor's Scope	
Trained Contractor's Name	
Trained Contractor's Title	

<sup>\*</sup> 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-0-20-001.



# **Owner/Operator Certification Form**

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

Project/Site Name: _	96 Post Office Rd	and the second of the second o	
eNOI Submission Nu	ımber:		
eNOI Submitted by:	Owner/Operator	SWPPP Preparer	Other
Certification Stater	ment - Owner/Operat	or	
that, under the terms of t and the corresponding do significant penalties for s knowing violations. I furth acknowledgment that I w days as provided for in th that the SWPPP has bee	the permit, there may be re- ocuments were prepared u- submitting false information, ner understand that coveracy fill receive as a result of sub- ne general permit. I also und an developed and will be im	s and believe that I understand the porting requirements. I hereby cer nder my direction or supervision. I, including the possibility of fine ange under the general permit will be omitting this NOI and can be as low derstand that, by submitting this Not plemented as the first element of the soft the general permit for which the	tify that this document am aware that there are and imprisonment for a identified in the as sixty (60) business IOI, I am acknowledging construction, and
Alex	<b>.</b>	Bernabo	
Owner/Operator First N	lame N	Л.I. Last Name	
Signature		·	· -



# APPENDIX B

Construction Inspection Logs

25

# APPENDIX F CONSTRUCTION SITE INSPECTION AND MAINTENANCE LOG BOOK

# STATE POLLUTANT DISCHARGE ELIMINATION SYSTEM FOR CONSTRUCTION ACTIVITIES

## SAMPLE CONSTRUCTION SITE LOG BOOK

### Table of Contents

- I. Pre-Construction Meeting Documents
  - a. Preamble to Site Assessment and Inspections
  - b. Pre-Construction Site Assessment Checklist
- II. Construction Duration Inspections
  - a. Directions
  - b. Modification to the SWPPP



I. PRE-CONSTRUCTION MEETI	NG DOCUMENTS
Project Name	
Permit No	Date of Authorization
Name of Operator	
Prime Contractor	

### a. Preamble to Site Assessment and Inspections

The Following Information To Be Read By All Person's Involved in The Construction of Stormwater Related Activities:

The Operator agrees to have a qualified inspector<sup>1</sup> conduct an assessment of the site prior to the commencement of construction<sup>2</sup> and certify in this inspection report that the appropriate erosion and sediment controls described in the SWPPP have been adequately installed or implemented to ensure overall preparedness of the site for the commencement of construction.

Prior to the commencement of construction, the Operator shall certify in this site logbook that the SWPPP has been prepared in accordance with the State's standards and meets all Federal, State and local erosion and sediment control requirements. A preconstruction meeting should be held to review all of the SWPPP requirements with construction personnel.

When construction starts, site inspections shall be conducted by the qualified inspector at least every 7 calendar days. The Operator shall maintain a record of all inspection reports in this site logbook. The site logbook shall be maintained on site and be made available to the permitting authorities upon request.

Prior to filing the Notice of Termination or the end of permit term, the Operator shall have a qualified inspector perform a final site inspection. The qualified inspector shall certify that the site has undergone final stabilization<sup>3</sup> using either vegetative or structural stabilization methods and that all temporary erosion and sediment controls (such as silt fencing) not needed for long-term erosion control have been removed. In addition, the Operator must identify and certify that all permanent structures described in the SWPPP have been constructed and provide the owner(s) with an operation and maintenance plan that ensures the structure(s) continuously functions as designed.

<sup>1</sup> Refer to "Qualified Inspector" inspection requirements in the current SPDES General Permit for Stormwater Discharges from Construction Activity for complete list of inspection requirements.

<sup>2 &</sup>quot;Commencement of construction" means the initial removal of vegetation and disturbance of soils associated with clearing, grading or excavating activities or other construction activities.

<sup>3 &</sup>quot;Final stabilization" means that all soil-disturbing activities at the site have been completed and a uniform, perennial vegetative cover with a density of eighty (30) percent has been established or equivalent stabilization measures (such as the use of mulches or geotextiles) have been employed on all unpaved areas and areas not covered by permanent structures.

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### a. Directions:

Inspection Forms will be filled out during the entire construction phase of the project.

### Required Elements:

- 1) On a site map, indicate the extent of all disturbed site areas and drainage pathways. Indicate site areas that are expected to undergo initial disturbance or significant site work within the next 14-day period;
- 2) Indicate on a site map all areas of the site that have undergone temporary or permanent stabilization;
- 3) Indicate all disturbed site areas that have not undergone active site work during the previous 14-day period;
- 4) Inspect all sediment control practices and record the approximate degree of sediment accumulation as a percentage of sediment storage volume (for example, 10 percent, 20 percent, 50 percent);
- 5) Inspect all erosion and sediment control practices and record all maintenance requirements such as verifying the integrity of barrier or diversion systems (earthen berms or silt fencing) and containment systems (sediment basins and sediment traps). Identify any evidence of rill or gully erosion occurring on slopes and any loss of stabilizing vegetation or seeding/mulching. Document any excessive deposition of sediment or ponding water along barrier or diversion systems. Record the depth of sediment within containment structures, any erosion near outlet and overflow structures, and verify the ability of rock filters around perforated riser pipes to pass water; and
- 6) Immediately report to the Operator any deficiencies that are identified with the implementation of the SWPPP.

Page 1 of \_\_\_\_\_

### SITE PLAN/SKETCH

Inspector (print name)	Date of Inspection
Qualified Inspector (print name)	Qualified Inspector Signature
The above signed acknowledges that, to the bes forms is accurate and complete.	t of his/her knowledge, all information provided on the

July 2016

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New York State Standards and Specifications For Erosion and Sediment Control



Page 2 of \_\_\_\_

### Maintaining Water Quality

Yes No NA
[] [] Is there an increase in turbidity causing a substantial visible contrast to natural conditions at the outfalls?
[] [] Is there residue from oil and floating substances, visible oil film, or globules or grease at the outfalls?
[] [] 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
<ol> <li>General Site Conditions</li> <li>Yes No NA</li> <li>[] [] Is construction site litter, debris and spoils appropriately managed?</li> <li>[] [] Are facilities and equipment necessary for implementation of erosion and sediment control in</li> </ol>
working order and/or properly maintained?  [] [] Is construction impacting the adjacent property?  [] [] Is dust adequately controlled?
<ul> <li>2. Temporary Stream Crossing</li> <li>Yes No NA</li> <li>[ ] [ ] Maximum diameter pipes necessary to span creek without dredging are installed.</li> <li>[ ] [ ] Installed non-woven geotextile fabric beneath approaches.</li> <li>[ ] [ ] Is fill composed of aggregate (no earth or soil)?</li> <li>[ ] [ ] Rock on approaches is clean enough to remove mud from vehicles &amp; prevent sediment from entering stream during high flow.</li> </ul>
3. Stabilized Construction Access  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?
Runoff Control Practices
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.

Page 3 of \_\_\_\_\_

Runoff Control Practices (continued)
<ul> <li>2. Flow Spreader</li> <li>Yes No NA</li> <li>[] [] Installed per plan.</li> <li>[] [] Constructed on undisturbed soil, not on fill, receiving only clear, non-sediment laden flow.</li> <li>[] [] Flow sheets out of level spreader without erosion on downstream edge.</li> </ul>
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
<ul> <li>4. Stone Check Dam</li> <li>Yes No NA</li> <li>[] [] Is channel stable? (flow is not eroding soil underneath or around the structure).</li> <li>[] [] Check is in good condition (rocks in place and no permanent pools behind the structure).</li> <li>[] [] Has accumulated sediment been removed?.</li> </ul>
5. Rock Outlet Protection  Yes No NA  [ ] [ ] Installed per plan.  [ ] [ ] Installed concurrently with pipe installation.
Soil Stabilization
<ol> <li>Topsoil and Spoil Stockpiles</li> <li>Yes No NA</li> <li>[] [] Stockpiles are stabilized with vegetation and/or mulch.</li> <li>[] [] Sediment control is installed at the toe of the slope.</li> </ol>
2. Revegetation  Yes No NA  [ ] [ ] Temporary seedings and mulch have been applied to idle areas.  [ ] [ ] [ ] 4 inches minimum of topsoil has been applied under permanent seedings
Sediment Control Practices
1. Silt Fence and Linear Barriers  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.

Page	4	of	
* "SU	. *	O.	

or

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### **Sediment Control Practices (continued)**

2. Sto	rm Drain Inlet Protection (Use for Stone & Block; Filter Fabric; Curb; or, Excavated; Filter Sock nufactured practices)
Yes No	
[][]	[] 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 inch spacing.
	[ ] Posts are stable, fabric is tight and without rips or frayed areas. [ ] Manufactured insert fabric is free of tears and punctures.
[][]	[] Filter Sock is not torn or flattened and fill material is contained within the mesh sock. t accumulation% of design capacity.
	porary Sediment Trap
Yes No N [ ] [ ] [	NA  Outlet structure is constructed per the approved plan or drawing.
[][][	] Geotextile fabric has been placed beneath rock fill. ] Sediment trap slopes and disturbed areas are stabilized.
Sediment	accumulation is% of design capacity.
	porary Sediment Basin
Yes No N	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 basin dewatering pool is dewatering at appropriate rate.  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. All practices shall be maintained in accordance with their respective standards.
	Construction inspection checklists for post-development stormwater management practices can be found in Appendix F of the New York Stormwater Management Design Manual.
	<u> </u>
July 2016	Page F. 8 Nov. Vod. State G. 1 1 10 10

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

The Operator shall amend the SWPPP 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 SWPPP; or
- 2. The SWPPP proves to be ineffective in:
  - a. Eliminating or significantly minimizing pollutants from sources identified in the SWPPP 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 SWPPP shall be amended to identify any new contractor or subcontractor that will implement any measure of the SWPPP.

Modification & Reason:
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# APPENDIX C

Maintenance Schedule - Temporary

# Maintenance Schedule - During Construction - Temporary Structures

	Maintenance and Sediment Removal		. v. L 133	extende internal when a "bulge" develops, ensure fence	exictions into soil and fence upright, staple fencing	Fix fence up right and stanle as required to gramming in the standard stand	are as required to ensure integrity.	Nemove material when a "bulge" develops, ensure fence	extends into soil and fence is upright, staple fencing	Repair Top Dressing with additional aggregate and correct	stone placement.	Bi-weekly, remove sediment, set stones to correct profile 6:	berm blow-outs	Due to the downhill proximity of the well it is recommendated	to remove the concrete off-site once curred
	Maintenance	North Addition in the Control of the	Remove meterial william	system of the state of the stat	catellus into soil an	Fix fence up right and st	D	Nemove material when				Bi-weekly, remove sedim	per	Due to the downhill proxi	to remove the co
	Special Inspection Items Inspect the following:	.0	Woven Wire & Bong 6, 1	y in a relice Stability		reflee posts and grid	Silt Fence at Base of Pile to be inspected and	Seeding reviewed		Stone Placement & soil deposit between stones		Stone & Sediment Accumulation		Once filled topsoil, seed & mulch	
	Sediment Removal Reald	7 500	Yes		None		None	OTION T		rone		Yes		None	
	Item to Inspect	Woven Wine E	Alimment	Ranga Warian W.	Telloc woven wire	Collations	Soil Pile Condition		Stone Placement	TOTAL TRACTICALITY	Stone Placement &	Location		Soil Stability	
4 A	Every Storm	LVCIII	×				×		×		>	<		×	
	MINIMUM Inspection Required	D. 137	B1-Weekly	: :xq	B1-Weekly		Bi-Weekly		Weekly		Bi-Weekly	er i cont		Monthly	
	Component	Cilt Fonce	Sin rence	Construction	Fence	Topsoil	Stockpile Area	Construction	Futrance	O+one One 1	Storie Outlet	Sediment Trap	Concrete Pumn	Out	
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APPENDIX D

NYSDEC NOI

### NOTICE OF INTENT



# New York State Department of Environmental Conservation Division of Water

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

NYR				
	, ,	 2000		

(for DEC use only)

Stormwater Discharges Associated with Construction Activity Under State Pollutant Discharge Elimination System (SPDES) General Permit # GP-0-20-001 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.

# -IMPORTANTRETURN THIS FORM TO THE ADDRESS ABOVE

OWNER/OPERATOR MUST SIGN FORM

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Project Site Information								
Project/Site Name								
9 6 P o s t O f f i c e R d								
Street Address (NOT P.O. BOX)								
Side of Street ONorth OSouth OEast OWest City/Town/Village (THAT ISSUES BUILDING PERM								
Waccabuc								
State         Zip         County           N Y         1 0 5 9 7 -         We sto	DEC Region  c h e s t e r							
Name of Nearest Cross Street								
Benedict Rd								
Distance to Nearest Cross Street (Feet)	Project In Relation to Cross Street  North O South O East O West							
Tax Map Numbers Section-Block-Parcel	Tax Map Numbers							
4 3 . 1 - 1 - 2								

1. Provide the Geographic Coordinates for the project site. To do this, go to the NYSDEC Stormwater Interactive Map on the DEC website at:

### https://gisservices.dec.ny.gov/gis/stormwater/

Zoom into your Project Location such that you can accurately click on the centroid of your site. Once you have located the centroid of your project site, go to the bottom right hand corner of the map for the X, Y coordinates. Enter the coordinates into the boxes below. For problems with the interactive map use the help function.

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Ex.	42	. 652	!								

- 2. What is the nature of this construction project?
  - New Construction
  - O Redevelopment with increase in impervious area
  - O Redevelopment with no increase in impervious area

• FOREST

Pre-Development

Existing Land Use

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

Post-Development Future Land Use

• FOREST	● SINGLE FAMILY HOME Number of Lots
O PASTURE/OPEN LAND	O SINGLE FAMILY SUBDIVISION
O CULTIVATED LAND	O TOWN HOME RESIDENTIAL
O SINGLE FAMILY HOME	O MULTIFAMILY RESIDENTIAL
O SINGLE FAMILY SUBDIVISION	O INSTITUTIONAL/SCHOOL
O TOWN HOME RESIDENTIAL	O INDUSTRIAL
O MULTIFAMILY RESIDENTIAL	O COMMERCIAL
O INSTITUTIONAL/SCHOOL	O MUNICIPAL
O INDUSTRIAL	○ ROAD/HIGHWAY
O COMMERCIAL	O RECREATIONAL/SPORTS FIELD
○ ROAD/HIGHWAY	O BIKE PATH/TRAIL
O RECREATIONAL/SPORTS FIELD	O LINEAR UTILITY (water, sewer, gas, etc.)
OBIKE PATH/TRAIL	O PARKING LOT
O LINEAR UTILITY	O CLEARING/GRADING ONLY
O PARKING LOT	O DEMOLITION, NO REDEVELOPMENT
O OTHER	O WELL DRILLING ACTIVITY * (Oil, Gas, etc.)
	OOTHER
*Note: for gas well drilling, non-high volum	me hydraulic fractured wells only
*Note: for gas well drilling, non-high volum  4. In accordance with the larger common plan enter the total project site area; the to existing impervious area to be disturbed activities); and the future impervious are disturbed area. (Round to the nearest ten	of development or sale, tal area to be disturbed; (for redevelopment ea constructed within the th of an acre.)
4. In accordance with the larger common plan enter the total project site area; the to existing impervious area to be disturbed activities); and the future impervious are disturbed area. (Round to the nearest ten	of development or sale, tal area to be disturbed; (for redevelopment ea constructed within the
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4. In accordance with the larger common plan enter the total project site area; the to existing impervious area to be disturbed activities); and the future impervious are disturbed area. (Round to the nearest ten	of development or sale, tal area to be disturbed; (for redevelopment ea constructed within the th of an acre.)  Future Impervious sting Impervious Area Within
4. In accordance with the larger common plan enter the total project site area; the to existing impervious area to be disturbed activities); and the future impervious are disturbed area. (Round to the nearest ten  Total Site Total Area To Exi Area Be Disturbed Area	of development or sale, tal area to be disturbed; (for redevelopment ea constructed within the th of an acre.)  Future Impervious sting Impervious Area Within Disturbed Area  0.0 0.1  of soil at any one time?  O Yes No
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4. In accordance with the larger common plan enter the total project site area; the to existing impervious area to be disturbed activities); and the future impervious are disturbed area. (Round to the nearest ten  Total Site  Total Area  Be Disturbed  Area  Be Disturbed  Area  6. Do you plan to disturb more than 5 acres  6. Indicate the percentage of each Hydrological	of development or sale, tal area to be disturbed; (for redevelopment ea constructed within the th of an acre.)  Future Impervious a To Be Disturbed Disturbed Area  0.0 0.1  of soil at any one time?  C Soil Group(HSG) at the site.
4. In accordance with the larger common plan enter the total project site area; the to existing impervious area to be disturbed activities); and the future impervious are disturbed area. (Round to the nearest tenter)  Total Site Total Area To Exi Area Be Disturbed Area Be Disturbed Area  4.0 0.5  5. Do you plan to disturb more than 5 acres  6. Indicate the percentage of each Hydrological	of development or sale, tal area to be disturbed; (for redevelopment ea constructed within the th of an acre.)  Future Impervious sting Impervious Area Within Disturbed Area  0.0 1  of soil at any one time?  C Soil Group(HSG) at the site,
4. In accordance with the larger common plan enter the total project site area; the to existing impervious area to be disturbed activities); and the future impervious are disturbed area. (Round to the nearest ten  Total Site Total Area To Exi Area Be Disturbed Area Be Disturbed Area  4.0 0 5  5. Do you plan to disturb more than 5 acres  6. Indicate the percentage of each Hydrological Beach Beach Hydrological Beach Be	of development or sale, tal area to be disturbed; (for redevelopment ea constructed within the th of an acre.)  Future Impervious sting Impervious Area Within Disturbed Area  0.0 0,1  of soil at any one time?  C D 75% 25%  O Yes • No

		s) to which construction site runoff will
Name	ischarge.	
NY	SDECLFIFTY	
9a.	Type of waterbody identified in Question	on 9?
O 14	Wetland / State Jurisdiction On Site (Ans	wer 9b)
• W	Wetland / State Jurisdiction Off Site	
O M	Tetland / Federal Jurisdiction On Site (7	inswer 9b)
O W	Jetland / Federal Jurisdiction Off Site	
0.5	Stream / Creek On Site	
O S	tream / Creek Off Site	
O R	river On Site	
OR	iver Off Site	9b. How was the wetland identified?
ΟL	ake On Site	O Regulatory Map
ΟL	ake Off Site	O Delineated by Consultant
00	ther Type On Site	O Delineated by Army Corps of Engineers
00	ther Type Off Site	O Other (identify)
L		
10.	Has the surface waterbody (ies) in quest	tion 9 been identified as a ○ Yes • No
	303(d) segment in Appendix E of GP-0-20	
11.	Is this project located in one of the W	
	Appendix C of GP-0-20-001?	● Yes ○ No
12.	Is the project located in one of the wa	tershed
	areas associated with AA and AA-S class waters?	
	If no, skip question 13.	
13.	Does this construction activity disturb	land with no
	existing impervious cover and where the identified as an E or F on the USDA Soi	
	If Yes, what is the acreage to be distu	
14.	Will the project disturb soils within a regulated wetland or the protected 100	
	area?	

15.	Does the site runoff enter a separate storm sewer system (including roadside drains, swales, ditches, culverts, etc)?	No (	O Unkno	<b>)WN</b> Studio (294, 21 sg.)
16.	What is the name of the municipality/entity that owns the separate system?	storm	sewer	
17.	Does any runoff from the site enter a sewer classified O Yes • as a Combined Sewer?	No (	Unkno	wn
18.	Will future use of this site be an agricultural property as defined by the NYS Agriculture and Markets Law?	O Y	es 🗣	No
19.	Is this property owned by a state authority, state agency, federal government or local government?	Ο¥	es 🌒	No
20.	Is this a remediation project being done under a Department approved work plan? (i.e. CERCLA, RCRA, Voluntary Cleanup Agreement, etc.)	○ Y	es 🌒	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)?	<b>●</b> Y	es ()1	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)?  If No, skip questions 23 and 27-39.	○ Ye	es • 1	Йo
23.	Has the post-construction stormwater management practice component of the SWPPP been developed in conformance with the current NYS Stormwater Management Design Manual?	O Y	es Ol	10

	24.		T	ne	St	on	mwa	ate	∍r	Ро	11u	ıti	on	Pr	ev	en	tio	on	P1	an	(£	SWE	PP	) 1	was	a p	re	pa:	rec	i b	y:								
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#### 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-0-20-001. 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.

First Name	MI
Peder	
Last Name	
Scott	
Signature	
Ille Stay D	Date 1 1 / 0 7 / 2 0 2 3



practices been prepared?	e pranned management O Yes O No
26. Select <b>all</b> of the erosion and sediment contremployed on the project site:	rol practices that will be
Temporary Structural	Vegetative Measures
Ocheck Dams	O Brush Matting
○ Construction Road Stabilization	O Dune Stabilization
● Dust Control	○ Grassed Waterway
○ Earth Dike	○ Mulching
O Level Spreader	O Protecting Vegetation
O Perimeter Dike/Swale	O Recreation Area Improvement
O Pipe Slope Drain	● Seeding
O Portable Sediment Tank	○ Sodding
O Rock Dam	○ Straw/Hay Bale Dike
O Sediment Basin	O Streambank Protection
Sediment Traps	○ Temporary Swale
Silt Fence	● Topsoiling
Stabilized Construction Entrance	O Vegetating Waterways
O Storm Drain Inlet Protection	Permanent Structural
○ Straw/Hay Bale Dike	a camerant of the cultural
O Temporary Access Waterway Crossing	O Debris Basin
O Temporary Stormdrain Diversion	O Diversion
○ Temporary Swale	○ Grade Stabilization Structure
O Turbidity Curtain	● Land Grading
○ Water bars	○ Lined Waterway (Rock)
	O Paved Channel (Concrete)
Biotechnical	O Paved Flume
O Brush Matting	O Retaining Wall
$\bigcirc$ Wattling	O Riprap Slope Protection
	O Rock Outlet Protection
Other	O Streambank Protection



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
  - O Preservation of Buffers
  - Reduction of Clearing and Grading
  - Locating Development in Less Sensitive Areas
  - O Roadway Reduction
  - Sidewalk Reduction
  - O Driveway Reduction
  - O Cul-de-sac Reduction
  - O Building Footprint Reduction
  - O 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).
  - O 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 0 1 3 acre-feet

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

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

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

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

	Total Contributing		Total	Cor	<u>ıtri</u>	.but	<u>:ing</u>
RR Techniques (Area Reduction)	Area (acres)	Im	pervio	us	Are	<u>∗a (a</u>	cre
O Conservation of Natural Areas (RR-1)		and/or			<b>x</b>		
O Sheetflow to Riparian Buffers/Filters Strips (RR-2)		and/or	,		*		
○ Tree Planting/Tree Pit (RR-3)	•	and/or			1		
O Disconnection of Rooftop Runoff (RR-4).	•	and/or				<u></u>	
RR Techniques (Volume Reduction)			[				
○ Vegetated Swale (RR-5) ·····							
○ Rain Garden (RR-6)	• • • • • • • • • • • • • • • • • • • •					-	
● Stormwater Planter (RR-7)	• • • • • • • • • • • • • • • • • • • •			0	. 0	3	9
○ Rain Barrel/Cistern (RR-8)	* * * * * * * * * * * * * * * * * * * *				«		
○ Porous Pavement (RR-9)	• • • • • • • • • • • • • • • • • • • •						
○ Green Roof (RR-10)					ĸ		
Standard SMPs with RRv Capacity			()		·	γ	
○ Infiltration Trench (I-1) ······	• • • • • • • • • • • • • • • • • • • •		1		•		
○ Infiltration Basin (I-2) ······					R		
Opry Well (I-3)							
Underground Infiltration System (I-4) ⋅			1				
O Bioretention (F-5)							
O Dry Swale (0-1)					,		
Standard SMPs							
O Micropool Extended Detention (P-1)							
○ Wet Pond (P-2)							
○ Wet Extended Detention (P-3) ······							
○ Multiple Pond System (P-4) · · · · · · · · · · · · · · · · · · ·							
O Pocket Pond (P-5)							
○ Surface Sand Filter (F-1) ····································					Jummune		
○ Underground Sand Filter (F-2) ······							
				R			***************************************
O Perimeter Sand Filter (F-3) · · · · · · · · · · · · · · · · · · ·					,		
Organic Filter (F-4)							
O Shallow Wetland (W-1)							
○ Extended Detention Wetland (W-2)							
○ Pond/Wetland System (W-3)							
○ Pocket Wetland (W-4)							_
○ Wet Swale (O-2)							

	Table 2 -		e SMPs CLUDE PRACTICE: RETREATMENT ON!			
Alternative SMI	<u>P</u>				al Contrib	
O Hydrodynami	a					
○ Wet Vault .						
O Media Filte	r					
O Other						
Provide the name proprietary prac				(i.e.		
Name						
Manufacturer						
	ent projects wh ons 28, 29, 33 ed and total WÇ	and 33a to pr	ovide SMPs ūsed			
	he Total RRv pr MPs with RRv ca	***			me Reducti	on) and
Total RRv	v provided					
0	. 0 0 4 acre-f					
total WQv : If Yes, go	al RRv provided required (#28). to question 36 to question 32.		r than or equa	l to the	O Ye	s 🖢 No
	e Minímum RRv r Rv Required = (			) ]		
Minimum RR	Rv Required					
0	.003 <sub>acre-f</sub>	eet				
Minimum RRv  If Yes, go  Note: Us specific 100% of specific 100% of SWPPP.  If No, sizi	al RRv provided Required (#32 to question 33 se the space prosite limitati WQv required (c site limitati the WQv required ing criteria ha SWPPP preparer	)? . ovided in quesons and justis #28). A deta- ons and justis ed (#28) must s not been met	stion #39 to suffication for no iled evaluation for no also be included, so NOI can re	ummarize the of reducing to the of the ot reducing ded in the cot be		s ONo

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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  $\underline{\text{impervious}}$  area that contributes runoff to each practice selected.

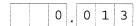
Note: Use Tables 1 and 2 to identify the SMPs used on Redevelopment projects.

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 0.0009acre-feet

<u>Note</u>: 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 WOv provided (#33a).



35. Is the sum of the RRv provided (#30) and the WQv provided (#33a) greater than or equal to the total WQv required (#28)? lacktriangle Yes  $\bigcirc$  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.

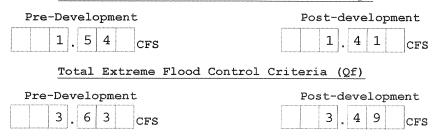
36. Provide the total Channel Protection Storage Volume (CPv) required and provided or select waiver (36a), if applicable.

CPv Required	CPv Provided
0.041acre-feet	0.034 acre-feet

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

- O Site discharges directly to tidal waters or a fifth order or larger stream.
- O 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)



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

- O Site discharges directly to tidal waters or a fifth order or larger stream.
- O 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 O No

If Yes, Identify the entity responsible for the long term  $\mbox{\it Operation}$  and  $\mbox{\it Maintenance}$ 

Town of	Lewisbor	o MS4	
11 11 11 11 11 11 11 11 11 11 11 11 11			

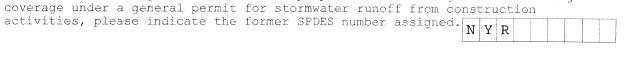
39. Use this space to summarize the specific site limitations and justification for not reducing 100% of WQv required(#28). (See question 32a)

This space can also be used for other pertinent project information.

All impervious areas are treated - lawn areas & gravel driveway are not treated - flow across lawn buffer to wetland.

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40.	Identify other DEC permits, existing and new, that are required for this project/facility.
	O Air Pollution Control
	O Coastal Erosion
	O Hazardous Waste
	O Long Island Wells
	O Mined Land Reclamation
	O Solid Waste
	O Navigable Waters Protection / Article 15
	O Water Quality Certificate
	O Dam Safety
	O Water Supply
	O Freshwater Wetlands/Article 24
	O Tidal Wetlands
	O Wild, Scenic and Recreational Rivers
	O Stream Bed or Bank Protection / Article 15
	O Endangered or Threatened Species(Incidental Take Permit)
	O Individual SPDES
	O SPDES Multi-Sector GP N Y R
	Other NYCDEP IRSP
	O None
11.	Does this project require a US Army Corps of Engineers Wetland Permit?  If Yes, Indicate Size of Impact.  O Yes  No
2.	Is this project subject to the requirements of a regulated, traditional land use control MS4? • Yes O No (If No, skip question 43)
3.	Has the "MS4 SWPPP Acceptance" form been signed by the principal executive officer or ranking elected official and submitted along • Yes O No



If this NOI is being submitted for the purpose of continuing or transferring

with this NOI?

44.

Owner/Op	erator Certification
understand that, under the terms of the permit that this document and the corresponding document and the corresponding document that there are significant penalties for fine and imprisonment for knowing violations. Will be identified in the acknowledgment that be as long as sixty (60) business days as prosubmitting this NOI, I am acknowledging that	ditions and believe that I understand them. I also t, there may be reporting requirements. I hereby certify ments were prepared under my direction or supervision. I am or submitting false information, including the possibility of I further understand that coverage under the general permit I will receive as a result of submitting this NOI and can wided for in the general permit. I also understand that, by the SWPPP has been developed and will be implemented as the o comply with all the terms and conditions of the general
Print First Name	MI
Alex	
Print Last Name	
Bernabo	
Owner/Operator Signature	
	Data

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APPENDIX E

NYSDEC MS4



# 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)

representation of interior and edeptive to reduced reports					
or Information					
Alex Bernabo / WDesigne					
Alex Bernabo					
3867 Danbury Rd					
Brewster, NY 10509					
on					
96 Post Office Rd					
96 Post Office Rd					
Waccabuc, NY 10597					
III. Stormwater Pollution Prevention Plan (SWPPP) Review and Acceptance Information					
8. SWPPP Reviewed by:					
iewed and Accepted:					
ation					
ntification Number: NYR20A					

MS4 SWPPP Acceptance Form - continued
V. Certification Statement - MS4 Official (principal executive officer or ranking elected official) o 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

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# 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:								
96 Post Office Rd								
Project Location (describe, and attach a location map):								
96 Post Office Rd								
Brief Description of Proposed Action:								
Construction of 2,600 sf single family 2-bedroom residence with a 600 sf garage with a Grass subsurface sewage disposal system (OWTS) with 12 inches of fill, 1,000 gal. septic tank and Disturbances total 0.50 acres for driveway. House & septic with 0.19 acres mitigation planting 1 to 1 wetland mitigation either on-site buffer or wetland bio-diversity plantings or off-site per F	1,000 gal. pump tank. s along perimeter	well and individual						
Name of Applicant or Sponsor:	Telephone: 845-278-2110	)						
Peder Scott, P.E., R.A.	E-Mail: pwscott@pwscott	t.com						
Address:	4							
PW Scott Engineering & Architecture, PC								
City/PO:	State:	Zip Code:						
Brewster	NY	10509						
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? NO YES								
If Yes, list agency(s) name and permit or approval: NYCDEP, WCDOH, Town of Lewisboro, Wetland Permit,								
NYSDEC NOI, Building Permit, Driveway Permit, Stormwater Permit  3. a. Total acreage of the site of the proposed action?  b. Total acreage to be physically disturbed?  c. Total acreage (project site and any contiguous properties) owned or controlled by the applicant or project sponsor?  4.04 acres  Includes Wetland Mitigation Area  4.04 acres								
4. Check all land uses that occur on, are adjoining or near the proposed action:  ☐ Urban ☐ Rural (non-agriculture) ☐ Industrial ☐ Commercia ☐ Forest ☐ Agriculture ☐ Aquatic ☑ Other(Special Commercial Commerc	•	ban)						

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5. Is the proposed action,	NO	YES	N/A
a. A permitted use under the zoning regulations?	П	<b>V</b>	
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?			<b>V</b>
7. Is the site of the proposed action located in, or does it adjoin, a state listed Critical Environmental Area?	***************************************	NO	YES
If Yes, identify:			
		✓	
8. a. Will the proposed action result in a substantial increase in traffic above present levels?		NO	YES
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?		<u>✓</u>	
Does the proposed action meet or exceed the state energy code requirements?		NO	YES
If the proposed action will exceed requirements, describe design features and technologies:			
			$\checkmark$
			-
10. Will the proposed action connect to an existing public/private water supply?		NO	YES
If No, describe method for providing potable water: Individual well			<b></b>
		$\checkmark$	
11. Will the proposed action connect to existing wastewater utilities?		NO	YES
If No, describe method for providing wastewater treatment: Subsurface sewage disposal system	-		
		$\checkmark$	
		***************************************	
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	-	NO	YES
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?		$\checkmark$	
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?		NO	YES 🗸
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:		₩	
Local wetland. Waterbody Tributary to NYSDEC River - 864-317 Class A (T)			
Disturbances: 0.02 acres Well Location			

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		
15. Does the site of the proposed action contain any species of animal, or associated habitats, listed by the State or	NO	YES
Federal government as threatened or endangered? Long Eared Bat		<b>✓</b>
16. Is the project site located in the 100-year flood plan? Site is located upstream if flood plane limit.	NO	YES
	$\checkmark$	
17. Will the proposed action create storm water discharge, either from point or non-point sources?	NO	YES
If Yes.		<b>✓</b>
a. Will storm water discharges flow to adjacent properties?		<b>✓</b>
b. Will storm water discharges be directed to established conveyance systems (runoff and storm drains)?  If Yes, briefly describe:  Discharges to wetland & stream which bisects the property.		<b>√</b>
Discharges to wetland & stream which disects the property.		
There is no increase of on-site runoff for 1, 2, 10 & 100-year storm events		
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)?	NO	YES
If Yes, explain the purpose and size of the impoundment:		
	<b>✓</b>	
19. Has the site of the proposed action or an adjoining property been the location of an active or closed solid waste	NO	YES
management facility? If Yes, describe:		·
	$  \checkmark  $	
20.Has the site of the proposed action or an adjoining property been the subject of remediation (ongoing or	NO	YES
completed) for hazardous waste?  If Yes, describe:	.,,	1 2.75
If 1 es, describe.	$\checkmark$	
I CERTIFY THAT THE INFORMATION PROVIDED ABOVE IS TRUE AND ACCURATE TO THE BES MY KNOWLEDGE	ST OF	
Applicant/sponsor/name: Peder Scott, P.E., R.A. Date: January 24, 202	24	
Signature:Title: Engineer	***************************************	

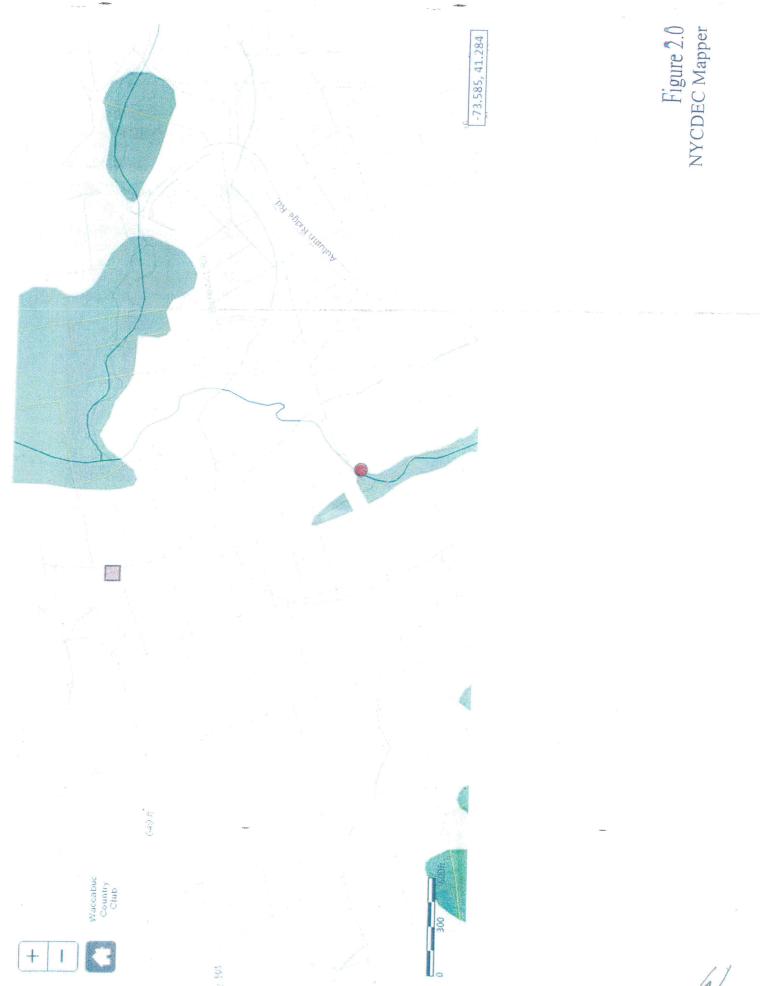
# **FIGURES**

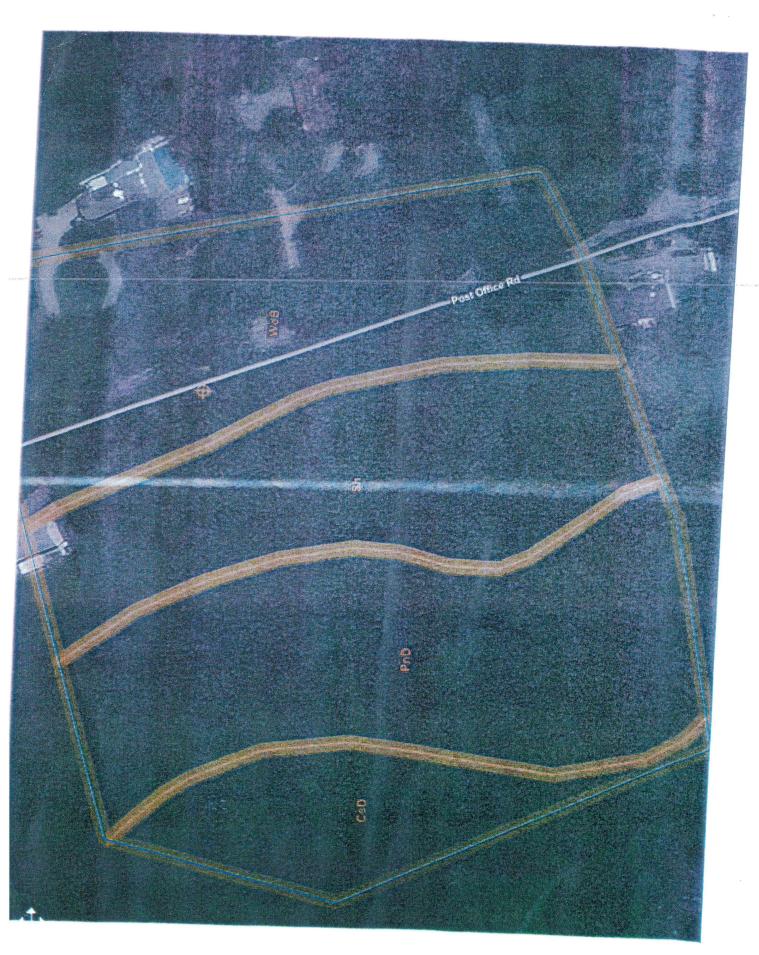
Figure 1.0: Lot Aerial Photo

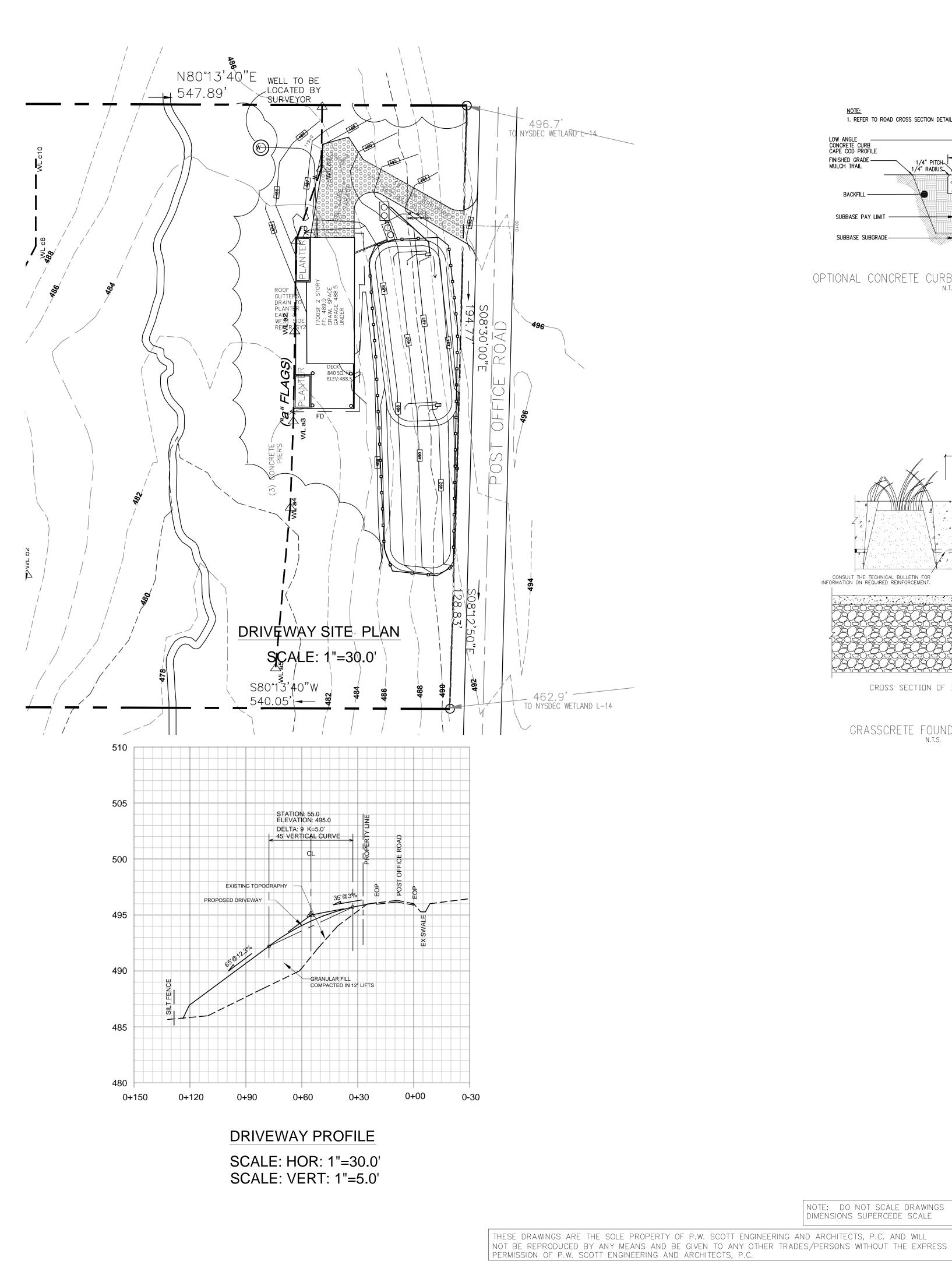
Figure 2.0: NYSDEC Mapper Printout

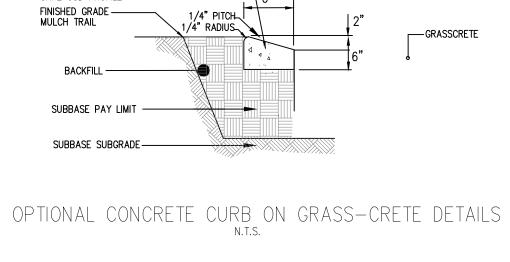
Figure 3.0: Soils Map

Figure 1.0 Aerial Photo



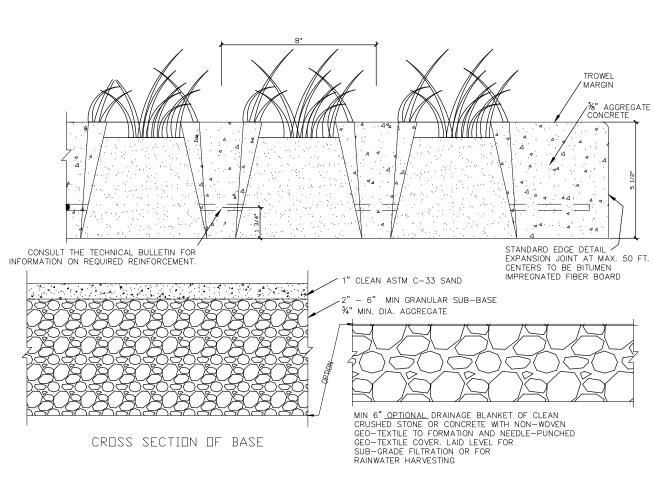




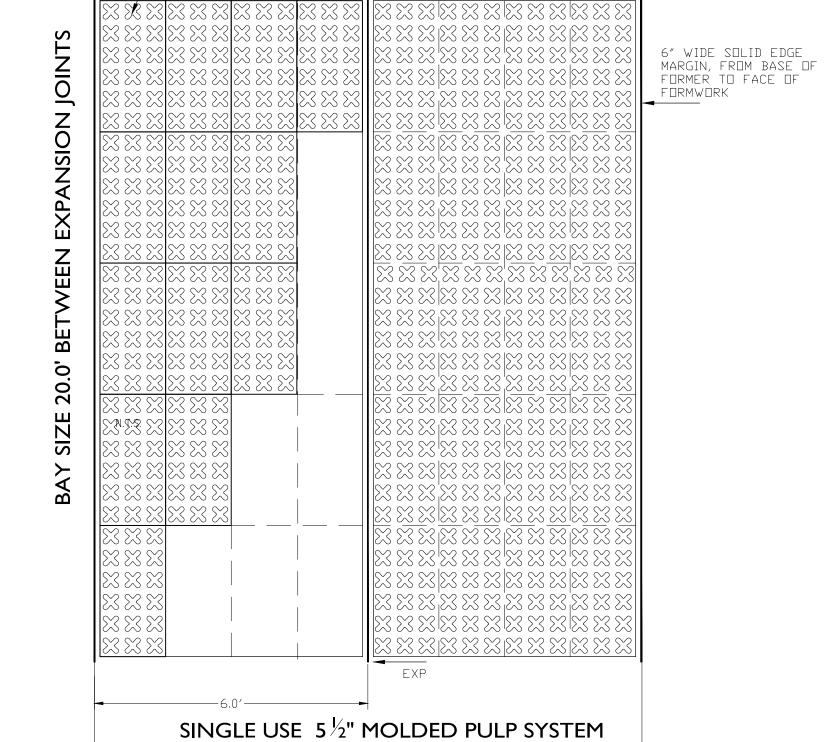


NOTE:
1. REFER TO ROAD CROSS SECTION DETAIL FOR DEPTH OF SUBBASE.

LOW ANGLE —— CONCRETE CURB CAPE COD PROFILE



GRASSCRETE FOUNDATION DETAILS
N.T.S.



AREA= 23,27 [IN3

SIMPLIFIED PLAN - SINGLE FORMER TOP SCALE: FULL SIZE

OPENING DIMENSIONS N.T.S.

,COMPLETED PLAN PROFILE

CONSULT THE TECHNICAL
BULLETIN FOR INFORMATION
ON REQUIRED REINFORCEMENT

EXP. BITUMEN IMPREGNATED FIBER BOARD

6 5/16

GRASSCRETE LAYOUT PLAN

CUT AND FILL ANALYSIS				
Site Volume Table: Unadjusted				
Site Stratum Surf1 Surf2	Cut cy	Fill cy	Net cy	Method
cut and fill cf2 existing proposed	143	696	553 (1	F) Grid

A 10'V10' ODID DIAN OF THE CHT AND FILL VOLLIMES IS AVAILABLE FOR DEVIEW DASED LIBON CIVIL 3D ANALYSIS

/	THE OUT MID	TILL VOLOIVILO	13 /\V/\IL/\DLL   OI\ I\LVILV	N DAGED OF ON OTHE	00 / ((1) (L ( ))
		Revisions	Dwa. Title	DRIVEWAY DETA	

includes 12" septic fill eqaul to 260 cy primary and reserve areas

	A TOXTO GRID PLAN OF THE CUT	AIN	) FILL	VOLUMES IS AVAILAB	LE FOR	KEVIEW BA	ASED UP	ON CI	IVIL 3D ANALYSIS			
P. W. SCOTT		Revisions		Dwg. Title	e ſ	DRIVEWAY DETAILS		FTAIIS	Seal		Dwg. No.	
		No.	Date	Description			DINIVEWANT DETAILS					2 · · g· · · · · ·
		С	9/20/23	ADD CUT/FILL VOL PER TE	Project	Title 96 PAST	T OFFICE	ROAL	) LEWISBORO NY	]/	\'	
	ENGINEERING & ARCHITECTURE, P.C.	Ε	1/24/24	2 PLANTER DESIGN		1.4.30 1 031	OFFICE ROAD, LEWISBORO, NY			\ <sup>l</sup>	OVO	
	2074 DOLLTE 6				Proj. No.	21-110	D	rawn by	MA/PWS		]!	5 Y.3
	3871 ROUTE 6									]/	/	
	BREWSTER, NY 10509 845-278-2110				Date	8/16/23	s	cale	AS NOTED			
	DICEVIOLEIX, INT 10009 040-2110					0, .0, 20				1	/ '	(

