AGENDA PACKET

AUGUST 15, 2023 MEETING

Part 1 of 2

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, August 15, 2023 **Courtroom at 79 Bouton Road**

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

I. PUBLIC HEARING

Cal #10-15 PB, Cal #20-17WP, Cal #5-17SW
Lewisboro Commons (Wilder Balter), 100 Beekman Lane, Goldens Bridge, NY 10526; Sheet 5, Block 10776, Lots 19, 20 & 21 (Lewisboro Commons Housing Development Fund Co., Inc., owner of record) - Request for a partial release of the apartments' construction performance bond.

II. SITE DEVELOPMENT PLAN REVIEW

Cal #01-23PB, Cal #11-23SW
Waccabuc Country Club pickleball courts, 74 Mead Street, Waccabuc, NY 10597; Sheet 22, Block 10802, Lot 23 (Waccabuc Country Club Co., owner of record) - Application for a Waiver of Site Development Plan Procedures for the installation of four pickleball courts on an existing residence's tennis court.

III. WETLAND PERMIT REVIEWS

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)

Cal #29-23WP, Cal #09-23SW
Bernabo vacant land, 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 #30-23WP
Bisset Residence, 65 Lake Shore Drive, South Salem, NY 10590; Sheet 36G, Block 11174, Lot 3 (Patricia & Paul Bisset, owners of record) – Application for a new patio and walls, walkways

Cal #31-23WP
Long Pond Preserve channel, 0 Tarry-A-Bit Drive, Waccabuc, NY 10597; Sheet 22, Block 11155, Lots 143 & 145 and Sheet 25, Block 11155 Lot 139 (Three Lakes Council, owner of record) – Application for an East of Hudson Watershed Corporation stormwater retrofit/channel stabilization project on Long Pond Preserve.

IV. SPECIAL USE PERMIT

Cal #02-10PB
Bedford Audubon Society, 35 Todd Road, Katonah, NY 10536; Sheet 5, Block 10776, Lots 7 & 30 and Sheet 5, Block 10777, Lot 3 (Bedford Audubon Society, owner of record)– Application for the renewal of a Special Use Permit or a private nature preserve.

V. SITE VISIT REPORT

Cal #26-23WP
Scott's Dam Reservoir Rehabilitation, 0 Wakeman Road, South Salem, NY 10590; Sheet 47, Block 10057, Lot 11 (Norwalk City First Taxing District, owner of record) - Application for dam improvements and a temporary accessway.

VI. CORRESPONDENCE

Delaware County Department of Planning and Watershed Affairs – Lead Agency Notification for land acquisition in the EOH and WOH water sheds.

Ridgefield, CT Planning and Zoning Commission to amend its Town Code § 2.2 - renewable energy systems.

VII. MINUTES OF July 18, 2023.

VIII. NEXT MEETING DATE: September 19, 2023.

IX. ADJOURN MEETING.

RESOLUTION ADOPTED BY THE TOWN BOARD
OF THE TOWN OF LEWISBORO
AT A MEETING HELD ON JULY 24, 2023

RESOLVED, that the Town Board authorizes the Planning Board to hold a public hearing and act upon Insite Engineering's request for a partial release of a performance security in connection with Lewisboro Commons.

STATE OF NEW YORK
COUNTY OF WESTCHESTER

I, JANET L. DONOHUE, Town Clerk of the Town of Lewisboro, County of Westchester, State of New York, do hereby certify that I have compared the preceding copy of a Resolution adopted by the Town Board of the Town of Lewisboro at a meeting held on the 24th day of July, 2023, to the original thereof, and that the same is a true and exact copy of said original and of the whole thereof.

_____
Town Clerk

Dated at South Salem, New York
this 25th day of July, 2023

Affidavit of Proof of Mailing

The undersigned being duly sworn deposes and says: I, Christopher Hahn, being over 18 years of age, work at WBP Development LLC. On July 27, 2023, deponent mailed the attached notice of a public hearing (ATTACH A COPY OF NOTICE LETTER) for 480 Bedford Road, Chappaqua, NY 10514 (application address) before the Town of Lewisboro attached as Exhibit A, to the following individuals and organizations, attached, as Exhibit B, by depositing a true copy of the aforesaid documents in a post-paid properly addressed envelope for delivery to a United States Postal Service Post Office.

Chris Hahn

Signature

Christopher Hahn

Print

State of New York)

County of Westchester)

Sworn to before me this 27th

Day of July 2023

Notary Public Christine A. Crisci

Christine A. Crisci
Notary Public, State of New York
LIC # 01CR6365109
Qualified in Westchester County
Comm. Exp. September 25, 2025

TOWN OF LEWISBORO

NOTICE OF PUBLIC HEARING

NOTICE IS HEREBY GIVEN that the Planning Board of the Town of Lewisboro, Westchester County, New York will convene a Public Hearing on Tuesday, August 15, 2023 at 7:30 p.m., or soon thereafter at the Town Offices at 79 Bouton Road, South Salem, New York, regarding the following:

Cal #10-15 PB, Cal #20-17WP, Cal #5-17SW

Request for partial release of a performance security posted by Wilder Balter Partners; Route 22 and Beekman Lane, Goldens Bridge, NY 10526; Sheet 5, Block 10776, Lots 19, 20 & 21 (Lewisboro Commons Housing Development Fund Co., Inc.; owner of record) established to guarantee the completion of infrastructure associated with a 42-unit multifamily residential development. The subject property consists of approximately 35.4 acres and is located within R-4A One-Family Residential and CC-20 Campus Commercial Districts.

A copy of materials pertaining to the requested partial release of the performance security may be inspected at the office of the Planning Board Administrator, 79 Bouton Road, South Salem, New York during regular Planning Board hours. Persons wishing to object to this request should file a notice of objection with the Planning Board together with a statement of the grounds of objection prior to the closing of the Public Hearing. All interested parties are encouraged to attend the Public Hearing and all will be provided an opportunity to be heard.

PLANNING BOARD
TOWN OF LEWISBORO
By: Janet Andersen
Chair

Dated: July 25, 2023

The Town of Lewisboro is committed to equal access for all citizens. Anyone needing accommodations to attend or participate in this meeting is encouraged to notify the Administrator to the Planning Board in advance.

9589 0710 5270 0564 3219 07

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

For delivery information, visit our website at www.usps.com®.

OFFICIAL USE

Certified Mail Fee
$

Extra Services & Fees (check box, add fee as appropriate)
- ☐ Return Receipt (hardcopy) $
- ☐ Return Receipt (electronic) $
- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage
$

Total Postage ar
$

Sent To

Street and Apt. I

City, State, ZIP+

PS Form 3800,

MT. KISCO NY 10549 JUL 27 2023 USPS

Postmark Here

Jaimie Mayer & Daniel Raiffe
29 Todd Rd
Katonah, NY 10536

9589 0710 5270 0564 3219 14

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

For delivery information, visit our website at www.usps.com®.

OFFICIAL USE

Certified Mail Fee
$

Extra Services & Fees (check box, add fee as appropriate)
- ☐ Return Receipt (hardcopy) $
- ☐ Return Receipt (electronic) $
- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage
$

Total Postage
$

Sent To

Street and Ap

City, State, Zil

PS Form 3800, January 2023

MT. KISCO NY 10549 JUL 27 2023 USPS

Postmark Here

Bryan Robertson
23 Todd Rd
Katonah, NY 10536

9589 0710 5270 0564 3218 84

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

For delivery information, visit our website at www.usps.com®.

OFFICIAL USE

Certified Mail Fee
$

Extra Services & Fees (check box, add fee as appropriate)
- ☐ Return Receipt (hardcopy) $
- ☐ Return Receipt (electronic) $
- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage
$

Total Postage a
$

Sent To

Street and Apt. I

City, State, ZIP+

PS Form 3800, January 2023 PSN 7530-02-000-9047 See Reverse for Instructions

MT. KISCO NY JUL 27 2

Postmark Here

Felicia Gross
41 Lake St.
Goldens Bridge, NY 10526

9589 0710 5270 0564 3218 91

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

For delivery information, visit our website at www.usps.com®.

OFFICIAL USE

Certified Mail Fee
$

Extra Services & Fees (check box, add fee as appropriate)
- ☐ Return Receipt (hardcopy) $
- ☐ Return Receipt (electronic) $
- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage
$

Total Postage and
$

Sent To

Street and Apt. Nc

City, State, ZIP+4

PS Form 3800, J

MT. KISCO NY 10 JUL 27 2023 USPS

Postmark Here

Matthew A. Carpenter & Rebecca H.
39 Todd Rd
Katonah, NY 10536

9589 0710 5270 0564 3218 60

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

For delivery information, visit our website at www.usps.com®.

OFFICIAL USE

Certified Mail Fee
$

Extra Services & Fees (check box, add fee as appropriate)
- ☐ Return Receipt (hardcopy) $
- ☐ Return Receipt (electronic) $
- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage
$

Total Postage a
$

Sent To

Street and Apt. I

City, State, ZIP+

PS Form 3800, January 2023

MT. KISCO NY 10549 JUL 27 2023 USPS

Postmark Here

Bedford Audubon Society Inc
35 Todd Rd
Katonah, NY 10536

9589 0710 5270 0564 3218 77

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

For delivery information, visit our website at www.usps.com®.

OFFICIAL USE

Certified Mail Fee
$

Extra Services & Fees (check box, add fee as appropriate)
- ☐ Return Receipt (hardcopy) $
- ☐ Return Receipt (electronic) $
- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage
$

Total Postage
$

Sent To

Street and Apt.

City, State, ZIP

PS Form 3800

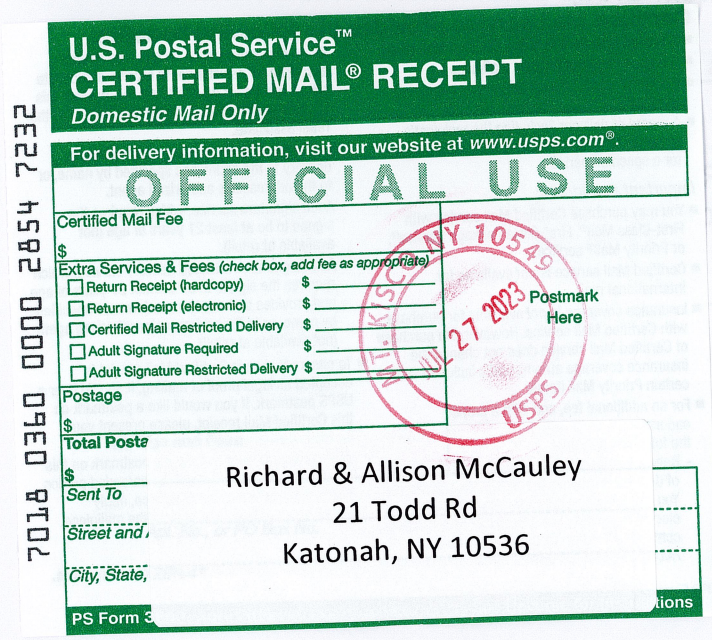
MT. KISCO NY 10549 JUL 27 2023 USPS

Postmark Here

Alec Fisher & Heather Brandon
25 Todd Rd
Katonah, NY 10536


9589 0710 5270 0564 3219 38
U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only
For delivery information, visit our website at www.usps.com®.
OFFICIAL USE
Certified Mail Fee
Extra Services & Fees (check box, add fee as appropriate)
Return Receipt (hardcopy)
Return Receipt (electronic)
Certified Mail Restricted Delivery
Adult Signature Required
Adult Signature Restricted Delivery
Postage
Total Postag
Sent To
Street and A
City, State, Z
PS Form 38
JUL 27 2023
Postmark Here
Christian G. McCourtney & Jill E.
17 Todd Rd
Katonah, NY 10536


9589 0710 5270 0564 3218 53
U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only
For delivery information, visit our website at www.usps.com®.
OFFICIAL USE
Certified Mail Fee
Extra Services & Fees (check box, add fee as appropriate)
Return Receipt (hardcopy)
Return Receipt (electronic)
Certified Mail Restricted Delivery
Adult Signature Required
Adult Signature Restricted Delivery
Postage
Total Postage
Sent To
Street and Apt.
City, State, ZIP
PS Form 3800
MT. KISCO NY 10549
JUL 27
Postmark Here
USPS
City of New York Bureau of Water, Taxes
71 Smith Avenue
Kingston, NY 12401


7018 0360 0000 2854 7232
U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only
For delivery information, visit our website at www.usps.com®.
OFFICIAL USE
Certified Mail Fee
Extra Services & Fees (check box, add fee as appropriate)
Return Receipt (hardcopy)
Return Receipt (electronic)
Certified Mail Restricted Delivery
Adult Signature Required
Adult Signature Restricted Delivery
Postage
Total Poste
Sent To
Street and
City, State,
PS Form 3
MT. KISCO NY 10549
JUL 27 2023
Postmark Here
USPS
Richard & Allison McCauley
21 Todd Rd
Katonah, NY 10536


9589 0710 5270 0564 3219 21
U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only
For delivery information, visit our website at www.usps.com®.
OFFICIAL USE
Certified Mail Fee
Extra Services & Fees (check box, add fee as appropriate)
Return Receipt (hardcopy)
Return Receipt (electronic)
Certified Mail Restricted Delivery
Adult Signature Required
Adult Signature Restricted Delivery
Postage
Total Postage
Sent To
Street and Apt.
City, State, ZIP
PS Form 3800
MT. KISCO NY 10549
JUL 27 2023
Postmark Here
USPS
Elizabeth Agostino
P.O. Box 713
Goldens Bridge, NY 10526

Affidavit of Public Hearing Notice

In the matter of an application for a Partial Performance Bond Release by WB Lewisboro LLC in the Town of Lewisboro, New York and Designated on the official tax map as Sheet 5, Block 10776, Lots 19, 20 & 21.

The undersigned being duly sworn deposes and says: I, Christopher Hahn, being over 18 years of age, work at WBP Development LLC. On 8/8/23, deponent posted the sign provided by the Town of Lewisboro Planning Department for the public hearing for Lewisboro Commons.

Christopher Hahn

Signature

Christopher Hahn

Print

State of New York)

County of Westchester)

Sworn to before me this 8th

Day of August

Notary Public Elizabeth D George

Elizabeth D George
Notary Public, State of New York
LIC # 01GE6365190
Qualified in Putnam County
Commission Exp. Oct 2, 2025


COMING SOON · LEWISBORO COMMONS
42-UNIT MULTIFAMILY AFFORDABLE COMMUNITY
Anticipated Completion
January 2023
Sponsor
WBP Development LLC
480 Bedford Road
Chappaqua, NY 10514
(914) 347-3333
Housing Action Council
(914) 332-4144
General Contractor
Griffon Construction LLC
(914) 347-3342
Architect
L&M Design, LLC
(610) 688-9800
LEED v4 for Homes Gold Certification
EPA Energy Star Homes V 3.1
For additional information contact:
Housing Action Council
(914) 332-4144
WBP
GRIFFON
L&M Design, LLC
Radnor, Pennsylvania
NOTICE
This property is the subject of an application before the Lewisboro Planning Board. A public hearing has been scheduled at which time all interested parties will be afforded an opportunity to be heard.
Please contact the Planning Board Secretary at
914-763-5592
or visit
www.lewisborogov.com
for additional information

INSITE
ENGINEERING, SURVEYING & LANDSCAPE ARCHITECTURE, P.C.

July 25, 2023

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

RE: Waccabuc Country Club Pickleball
74 Mead Street
Waccabuc, NY
TM# Block 42.2, Lot 1, Sheet 10

Dear Chair Anderson and Members of the Board:

Please find enclosed four (4) copies of the following plans and documents in support of an application for site development plan approval and stormwater permit approval the above referenced project:

- Stormwater Permit Application, dated July 18, 2023.
- Site Development Plan Application, dated July 18, 2023.
- Affidavit of Ownership.
- SP-1 Site Plan, last revised July 25, 2023.
- SP-2 Erosion & Sediment Control Plan & Details, last revised July 25, 2023.
- Draft NYSDEC Notice of Intent.
- Draft MS4 SWPPP Acceptance Form.

To be provided under separate cover:

- Check for $865.00 for Step1 and Step 2 application fee and stormwater permit fee, under separate cover.

Based on discussion with the Board at their July 18, 2023 meeting, the grading of the berm has been clarified, additional information has been added on the site plans and the applications for Step 1 and Step 2 Site Development Plan Approval and Stormwater Permit have been prepared for the project and included as part of this submission package.

Based on comments from the Jan Johannessen, AICP from Kellard Sessions memorandum dated July 13, 2023, we offer the following:

Required Approvals and Referrals

1. We defer to the Building Inspector for whether this application requires site plan approval by the Planning Board. As requested, the Site Development Plan Application Step 1 and Step 2 has been prepared and included as part of this submission with the requisite fees. Unless waived by the Planning Board, a public hearing is required to be held on the Site Development Plan.

2. It is acknowledged that a Town Stormwater Permit is required from the Planning Board.

3. The applicant reviewed the project with the ACARC on March 15, 2023 and received their approval for the project plan. Based on discussion at the meeting, we have confirmed that the proposed improvements are greater than 400 feet from the front lot line, therefore, it is our understanding that we do not need to go back to the ACARC.

4. The Zoning Board of Appeals has approved the expansion of a nonconforming use and two (2) area variances for the project.

5. It is understood that coverage under NYSDEC SPDES General Permit for Stormwater Discharges from Construction Activity (GP-0-20-001) will be required.

Comments

1. It is understood that this project requires the filing of a Notice of Intent (NOI) and MS4 Acceptance Form with the NYSDEC. A Town Stormwater Permit application has been provided with this submission and draft copies of the NOI and SWPPP Acceptance Form have also been provided for review.

2. Drawing SP-1 has been updated to provide a grass swale between the court and the berm, with relevant spot elevations to clarify how the area will be drained.

3. All proposed silt fencing has been incorporated within the limits of land disturbance; the soil stockpile is also located within the limits of disturbance.

4. The stabilized construction entrance as shown on the Enlarged Site Plan now conforms to our detail.

5. A note has been added to the Drawing SP-1 stating that all soil imported to the site shall constitute unrestricted clean fill, free of non-soil constituent. A signed soil manifest for any imported soil shall be provided to the Town.

6. Drawing SP-1 has been updated to include a photo of the privacy fence on the Fisher property at 68 Mead Street. In addition, the fence detail has been updated to note the color and reference the photo of the neighbor's fence.

7. The proposed improvements are greater than 400' from the front property line, as depicted on Drawing SP-1, therefore we believe we do not need to return to the Architecture and Community Appearance Review Council.

8. It is understood that the Building Inspector will need to confirm whether the application still qualifies for a Waiver of Site Development Plan Procedures, with the needed variances and incorporation of a landscaping berm. As requested, the applicant has submitted Steps 1 and 2 of the Site Plan Application. It is understood that the Planning Board may still elect to waive a public hearing. As noted at the July 18th, 2023 meeting by their shared attorney, the two eastern, adjacent neighbors have no objection to the current plan.

We look forward to meeting with the Board at their August 15, 2023 meeting. It is our understanding that a resolution of approval will be drafted for that meeting. We respectfully request approval of the Stormwater Permit for the project, Site Development Plan Approval if the Building Inspector determines that it is still required and a waiver of public hearing.

Should you have any questions or comments regarding this information, please feel free to contact our office.

Very truly yours,

INSITE ENGINEERING, SURVEYING & LANDSCAPE ARCHITECTURE, P.C.

By: _____
Zachary M. Pearson, PE
Principal Engineer

ZMP/dlm/sr

Enclosures

cc: Michael Sirignano, Esq., via email
John Assumma, via email

Insite File No. 23105.100

TOWN OF LEWISBORO PLANNING BOARD

79 Bouton Road, South Salem , NY 10590 Tel: (914) 763-5592 Email: planning@lewisborogov.com

Site Development Plan/Subdivision Plat Application - Check all that apply:

Waiver of Site Development Plan Procedures	☐			
Site Development Plan Approval	Step I ☒		Step II ☒	
Special Use Permit Approval	Step I ☐		Step II ☐	
Subdivision Plat Approval	Step I ☐		Step II ☐	Step III ☐

Project Information

Project Name: Waccabuc Country Club / 74 Mead St Pickleball

Project Address: 74 Mead Street, Waccabuc, NY

Gross Parcel Area: 6.1 AC +/- Zoning District: R-4A Sheet(s): 42.2 Block (s): 1 Lot(s): 10

Project Description: Waccabuc Country Club proposes to convert an existing tennis court into (4) pickleball courts. This will include resurfacing the existing asphalt, infilling asphalt at the corners of the court and installing wind cloth on the east and south sides of the existing court perimeter fence. To mitigate sound, a 3' - 6' high earthen berm will be constructed on the east, south, and west sides of the courts. A 6' high privacy fence with noise dampening fabric will be constructed on top of the berm. A proposed wood chip path will lead from the neighboring Club property to the pickleball courts.

Is the site located within 500 feet of any Town boundary?	YES ☐	NO ☑
Is the site located within the New York City Watershed?	YES ☑	NO ☐
Is the site located on a State or County Highway?	YES ☐	NO ☑

Does the proposed action require any other permits/approvals from other agencies/departments?

Town Board	☐	ZBA	☑	Building Dept.	☑	Town Highway	☐
ACARC	☑	NYSDEC	☑	NYCDEP	☐	WCDH	☐
NYSDOT	☐	Town Wetland	☐	Town Stormwater	☑		

Other _____

Owner's Information

Name: Waccabuc Country Club Email: jdassumma@optonline.net

Address: 90 Mead Street, PO Box 400, Waccabuc NY 10597 Phone: 914-763-3144

Applicant's Information (if different)

Name: same as owner Email: _____

Address: _____ Phone: _____

Authorized Agent's Information

Name: Zachary Pearson, P.E. Senior Project Engineer Email: zpearson@insite-eng.com

Address: Insite Engineering, Surveying, and Landscape Architecture, P.C., 3 Garrett Place, Carmel, NY 10512 Phone: 845-225-9690

THE APPLICANT understands that any application is considered complete only when all information and documents required have been submitted and received by the Planning Board. The applicant further understands that the applicant is responsible for the payment of all application and review fees incurred by the Planning Board.

THE UNDERSIGNED WARRANTS the truth of all statements contained herein and in all supporting documents according to the best of his/her knowledge and belief, and authorizes visitation and inspection of the subject property by the Town of Lewisboro and its agents.

APPLICANT'S SIGNATURE _____ DATE 7-18-2023

OWNER'S SIGNATURE _____ DATE 7-18-2023

TOWN OF LEWISBORO PLANNING BOARD

79 Bouton Road, South Salem, NY 10590
Email: planning@lewisborogov.com
Tel: (914) 763-5592
Fax: (914) 875-9148

Affidavit of Ownership

State of: New York

County of: Westchester

JOHN D. ASSUMMA, being duly sworn, deposes and says that he/she resides at _____

in the County of WESTCHESTER, State of NEW YOR

and that he/she is (check one) [X] the owner, or [ ] the _____ *Title*

of WACCABUC COUNTRY CLUB
Name of corporation, partnership, or other legal entity

which is the owner, in fee of all that certain log, piece or parcel of land situated, lying and being in the Town of Lewisboro, New York, aforesaid and know and designated on the Tax Map in the Town of Lewisboro as:

Block 42.2, Lot 1, on Sheet 10.

John D. Assumma
Owner's Signature

GENERAL MANAGER

Sworn to before me this

18th **day of** July, 2023

MICHAEL F. SIRIGNANO
NOTARY PUBLIC, State of New York
No. 4709295
Qualified in Westchester County
Commission Expires Jan. 31, 2026

Notary Public – affix stamp

TOWN OF LEWISBORO PLANNING BOARD

79 Bouton Road, South Salem, NY 10590
Email: planning@lewisborogov.com
Tel: (914) 763-5592 Fax: (914) 875-9148

Tax Payment Affidavit Requirement

This form must accompany all applications to the Planning Board.

Under regulations adopted by the Town of Lewisboro, the Planning Board may not accept any application unless an affidavit from the Town of Lewisboro Receiver of Taxes is on file in the Planning Board office. The affidavit must show that all amounts due to the Town of Lewisboro as real estate taxes and special assessments on the total area encompassed by the application, together with all penalties and interest thereon, have been paid.

Under New York State law, the Westchester County Clerk may not accept any subdivision map for filing unless the same type of affidavit from the Town of Lewisboro Receiver of Taxes is submitted by the applicant at the time of filing.

This form must be completed by the applicant and must accompany all applications to the Planning Board. Upon receipt, the Planning Board Secretary will send the form to the Receiver of Taxes for signature and notarization. If preferred, the applicant may directly obtain the signature of the Receiver of Taxes and notarization prior to submission.

To Be Completed by Applicant
(Please type or print)

Waccabuc Country Club Company — *Name of Applicant*
Pickle Ball Courts — *Project Name*

Property Description: 74 Mead Street ✓

Tax Block(s): 10802
Tax Lot(s): 23
Tax Sheet(s): 22

Property Assessed to:

Waccabuc Country Club — *Name*
PO Box 400 — *Address*
Waccabuc — *City* | New York — *State* | 10597 — *Zip*

The undersigned, being duly sworn deposes and says that a search of the tax records in the office of the Receiver of Taxes, Town of Lewisboro, reveals that all amounts due to the Town of Lewisboro as real estate taxes and special assessments, together with all penalties and interest thereon, affecting the premises described below, have been paid.

Signature - Receiver of Taxes: [signature] 2/13/2023 — *Date*

Sworn to before me this

13th **day of** February, 2023

[signature]

JANET L. DONOHUE
NOTARY PUBLIC, STATE OF NEW YORK
No. 01DO6259627
Qualified in Westchester County
Commission Expires April 16, 2020

Signature - Notary Public (affix stamp)

Application No.: _____
Fee: _____ Date: _____

TOWN OF LEWISBORO
STORMWATER PERMIT APPLICATION

79 Bouton Road, South Salem, NY 10590
Phone: (914) 763-5592
Fax: (914) 875-9148

Project Address: 74 Mead St, Waccabuc, NY 10597

Sheet: 42.2 Block: 1 Lot(s): 10

Project Description (describe overall project including all proposed land development activities):
Waccabuc Country Club proposes to convert an existing tennis court into (4) pickleball courts. This will include resurfacing the existing asphalt, infilling asphalt at the corners of the court and installing wind cloth on the east and south sides of the existing court perimeter fence. To mitigate sound, a 3' - 6' high earthen berm will be constructed on the east, south, and west sides of the courts. A 6' high privacy fence with noise dampening fabric will be constructed on top of the berm. A proposed wood chip path will lead from the neighboring Club property to the pickleball courts.

Owner's Address: 90 Mead Street, PO Box 400, Waccabuc, NY 10597 Email: jdasrumm@optonline.net

Applicant's Name (if different): same as owner Phone: _____

Applicant's Address: _____ Email: _____

Agent's Name (if applicable): Zachary Pearson, P.E. Senior Project Engineer Phone: (845) 225-9690

Agent's Address: Insite Engineering, Surveying, and Landscape Architecture, P.C., 3 Garrett Place, Carmel, NY 10512 Email: _zpearson@insite-eng.com

TO BE COMPLETED BY OWNER/APPLICANT

The approval authority is? (see §189-5 of the Town Code)

✓ Town Engineer and Stormwater Management Officer Planning Board

Is the project located within the NYCDEP Watershed? ✓ Yes No

Total area of proposed disturbance: ✓ 5,000 s.f. - < 1 acre ≥1 acre

Will the project require coverage under the NYSDEC General Permit for Stormwater Discharges from Construction Activity? ✓ Yes □ No □ Requires post-construction stormwater practice

Does the proposed action require any other permits/approvals from other agencies/departments? (Wetland Inspector, Planning Board, Town Board, Zoning Board of Appeals, Building Department, Town Highway, ACARC, NYSDEC, NYCDEP, WCDOH, NYSDOT, etc): Identify all other permits/approvals required: ZBA, Building Dept., ACARC, NYSDEC

Note: The applicant, owner and/or agent is responsible for reviewing and complying with Chapter 189, "Stormwater Management and Erosion and Sediment Control," of the Town Code. This application must be submitted with all applicable plans, reports and documentation specified under §189-8, "SWPPP requirements," of the Town Code; all SWPPP's shall be prepared in conformance with Chapter 189 and shall be prepared by a qualified professional, as defined therein. The provision for obtaining a Town Stormwater Permit is in addition to the requirement of obtaining coverage under the SPDES General Permit for Stormwater Discharges from Construction Activity, if applicable.

Owner Signature: _____ Date: 7-18-2023

0644089821

NOTICE OF INTENT

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

NYR _____
(for DEC use only)

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

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.

-IMPORTANT-
RETURN THIS FORM TO THE ADDRESS ABOVE

OWNER/OPERATOR MUST SIGN FORM

Owner/Operator Information

Owner/Operator (Company Name/Private Owner Name/Municipality Name)
Waccabuc Country Club

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

Owner/Operator Contact Person First Name
John

Owner/Operator Mailing Address
90 Mead Street

City
Waccabuc

State
NY

Zip
10597-____

Phone (Owner/Operator)
914-763-3144

Fax (Owner/Operator)
___-___-____

Email (Owner/Operator)
jdassuma@optonline.net

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

Project Site Information

Project/Site Name
Waccabuc Country Club Pickleball

Street Address (NOT P.O. BOX)
74 Mead Street

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

City/Town/Village (THAT ISSUES BUILDING PERMIT)
Lewisboro

State NY | Zip 10597- | County Westchester | DEC Region 3

Name of Nearest Cross Street
East Ridge Road

Distance to Nearest Cross Street (Feet)
125

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

Tax Map Numbers
Section-Block-Parcel
42.2-1-10

Tax Map Numbers

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

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

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

X Coordinates (Easting): 617595

Y Coordinates (Northing): 4571685

2. What is the nature of this construction project?

○ **New Construction**

○ **Redevelopment with increase in impervious area**

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

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

Pre-Development Existing Land Use

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

Post-Development Future Land Use

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

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

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

Total Site Area	Total Area To Be Disturbed	Existing Impervious Area To Be Disturbed	Future Impervious Area Within Disturbed Area
6.1	0.3	0.1	0.1

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

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

A	B	C	D
0 %	0 %	100 %	0 %

7. Is this a phased project? ○ **Yes** ✔ **No**

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

Start Date	End Date
08/01/2023	09/30/2023

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

Name: Town of Lewisboro Wetland

9a. Type of waterbody identified in Question 9?

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

9b. How was the wetland identified?

- [ ] Regulatory Map
- [x] Delineated by Consultant
- [ ] Delineated by Army Corps of Engineers
- [ ] Other (identify)

10. Has the surface waterbody(ies) in question 9 been identified as a 303(d) segment in Appendix E of GP-0-20-001? ○ **Yes** ● **No**

11. Is this project located in one of the Watersheds identified in Appendix C of GP-0-20-001? ☑ **Yes** ○ **No**

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

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

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

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

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

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

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

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

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

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

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

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

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

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

SWPPP Preparer: Insite Engineering

Contact Name (Last, Space, First): Pearson, Zachary

Mailing Address: 3 Garrett Place

City: Carmel

State: NY Zip: 10512-

Phone: 845-225-9690 Fax: 845-225-9717

Email: zpearson@insite-eng.com

SWPPP Preparer Certification

I hereby certify that the Stormwater Pollution Prevention Plan (SWPPP) for this project has been prepared in accordance with the terms and conditions of the GP-0-20-001. 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: Zachary **MI**: M

Last Name: Pearson, P.E.

Signature

Date / /

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

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

Temporary Structural

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

Biotechnical

- Brush Matting
- Wattling

Vegetative Measures

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

Permanent Structural

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

Other

Post-construction Stormwater Management Practice (SMP) Requirements

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

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

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

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

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

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

Total WQv Required

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

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

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

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

Name

Manufacturer

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

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

Total RRv provided

. **acre-feet**

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

○ **Yes** ○ **No**

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

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

Minimum RRv Required

. **acre-feet**

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

○ **Yes** ○ **No**

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

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

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

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

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

WQv Provided

[ ][ ][ ].[ ][ ][ ] **acre-feet**

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

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

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

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

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

CPv Required

[ ][ ][ ].[ ][ ][ ] **acre-feet**

CPv Provided

[ ][ ][ ].[ ][ ][ ] **acre-feet**

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

○ Site discharges directly to tidal waters or a fifth order or larger stream.

○ Reduction of the total CPv is achieved on site through runoff reduction techniques or infiltration systems.

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

Total Overbank Flood Control Criteria (Qp)

Pre-Development

[ ][ ][ ].[ ][ ][ ] **CFS**

Post-development

[ ][ ][ ].[ ][ ][ ] **CFS**

Total Extreme Flood Control Criteria (Qf)

Pre-Development

[ ][ ][ ].[ ][ ][ ] **CFS**

Post-development

[ ][ ][ ].[ ][ ][ ] **CFS**

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

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

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

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

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.

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

Air Pollution Control

Coastal Erosion

Hazardous Waste

Long Island Wells

Mined Land Reclamation

Solid Waste

Navigable Waters Protection / Article 15

Water Quality Certificate

Dam Safety

Water Supply

Freshwater Wetlands/Article 24

Tidal Wetlands

Wild, Scenic and Recreational Rivers

Stream Bed or Bank Protection / Article 15

Endangered or Threatened Species(Incidental Take Permit)

Individual SPDES

SPDES Multi-Sector GP NYR

Other

✔ None

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

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

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

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

Owner/Operator Certification

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

Print First Name: John

MI:

Print Last Name: Assuma

Owner/Operator Signature:

Date: / /

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

MS4 Stormwater Pollution Prevention Plan (SWPPP) Acceptance Form

for

Construction Activities Seeking Authorization Under SPDES General Permit

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

I. Project Owner/Operator Information
1. Owner/Operator Name: Waccabuc Country Club
2. Contact Person: John Assuma
3. Street Address: 90 Mead St
4. City/State/Zip: Waccabuc, NY 10597
II. Project Site Information
5. Project/Site Name: Waccabuc Country Club Pickleball
6. Street Address: 74 Mead St
7. City/State/Zip: Waccabuc, NY 10597
III. Stormwater Pollution Prevention Plan (SWPPP) Review and Acceptance Information
8. SWPPP Reviewed by:
9. Title/Position:
10. Date Final SWPPP Reviewed and Accepted:
IV. Regulated MS4 Information
11. Name of MS4: Town of Lewisboro
12. MS4 SPDES Permit Identification Number: NYR20A _____
13. Contact Person:
14. Street Address:
15. City/State/Zip:
16. Telephone Number:

MS4 SWPPP Acceptance Form - continued

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

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

Printed Name:

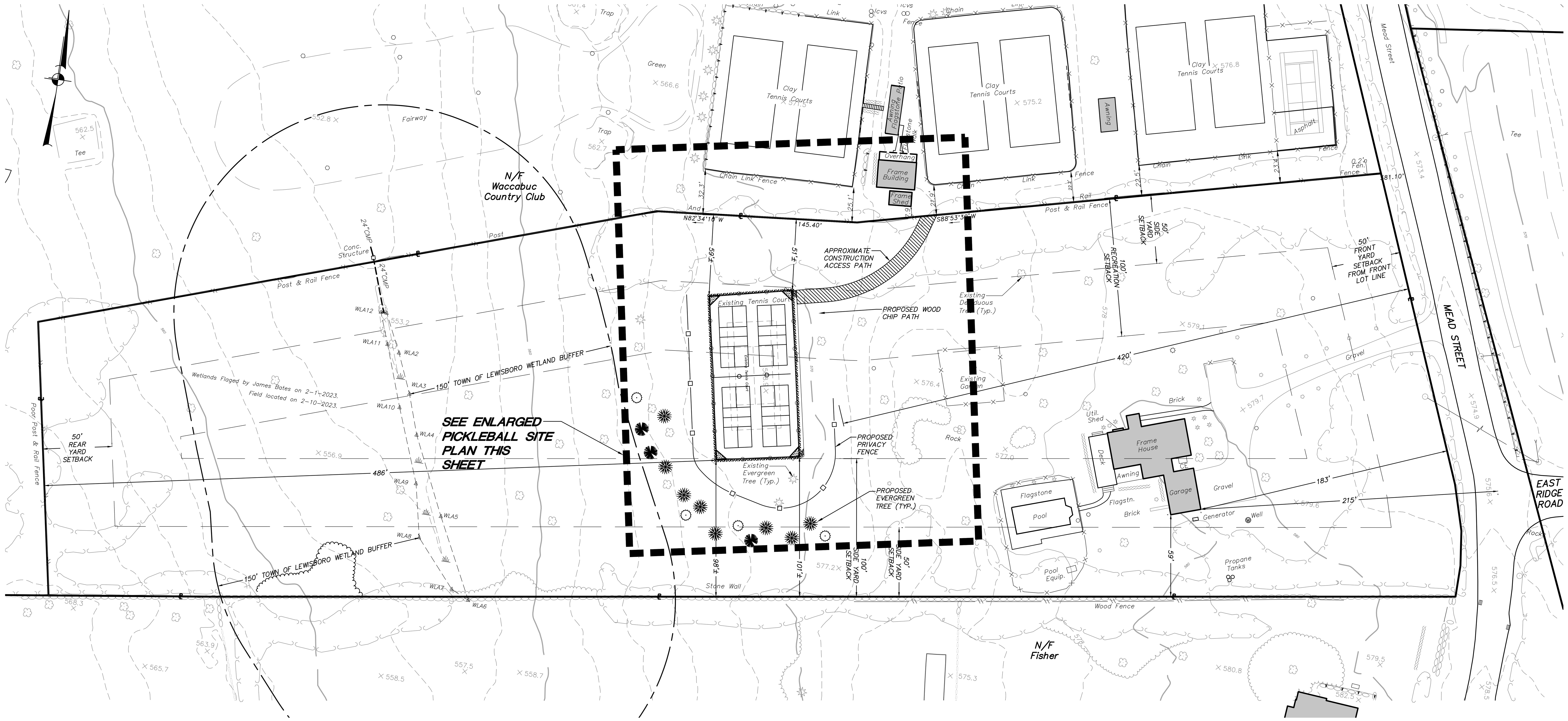
Title/Position:

Signature:

Date:

VI. Additional Information

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



OVERALL SITE PLAN

SCALE: 1"=40'

GRAPHIC SCALE

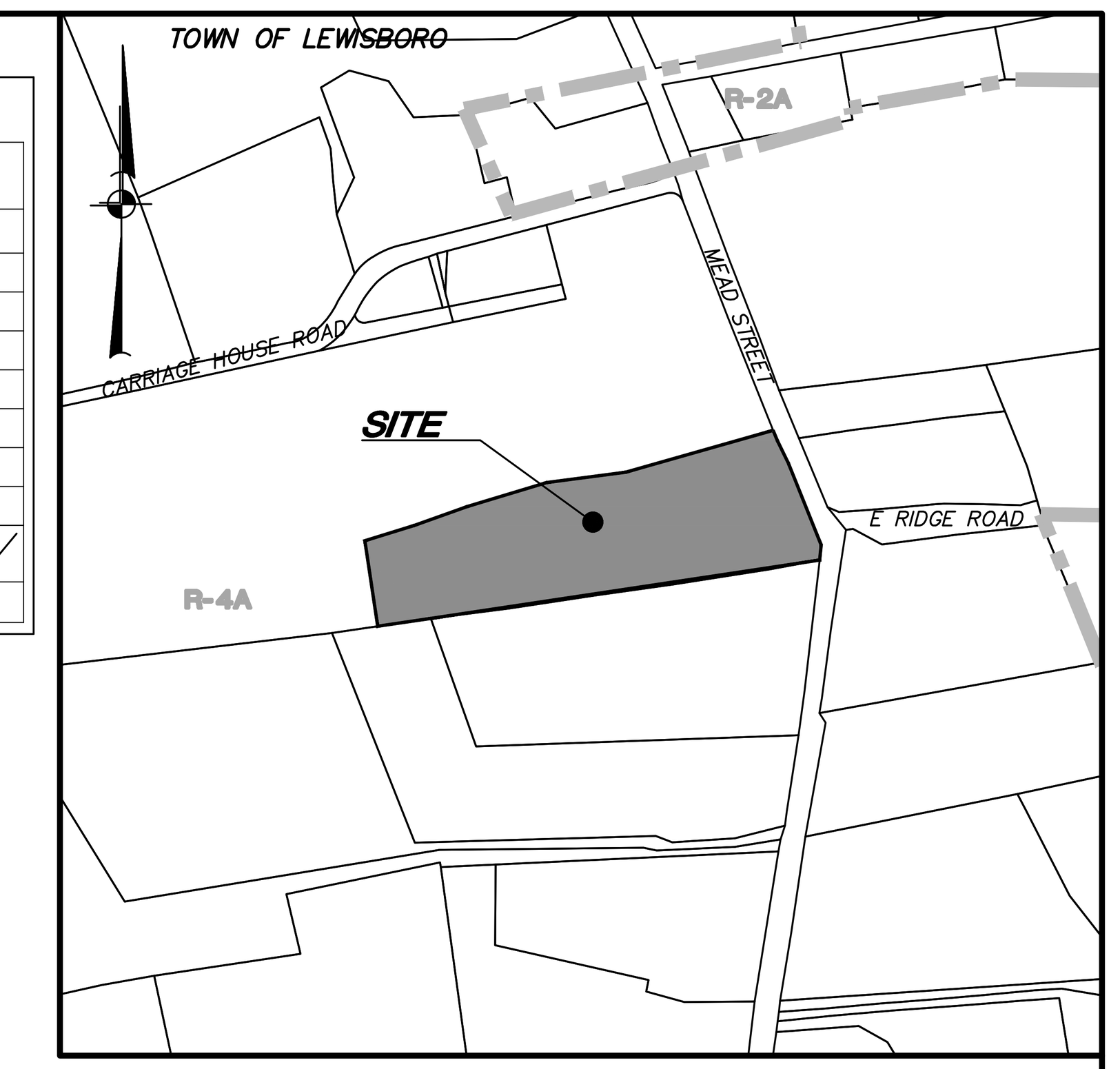
0 20 40 80

(IN FEET)
1 inch = 40 ft.

R4-A ZONE REQUIREMENTS

	REQUIRED/ PERMITTED	EXISTING	PROPOSED
Minimum Lot Size:	4 AC	6.1 AC	6.1 AC
Minimum Front Yard:			
From street center line	75'	215'	215'
From front lot line	50'	183'	183'
Minimum Side Yard:	50'	52'	51'
Minimum Rear Yard:	50'	436'	436'
Recreation Facility Setback:	2 x 50'=100'	52.8' to north	51'± *
		99.6' to south	98'± *
Maximum Building Height:	2.5 stories/ 35'	2.5 stories/ 35'	2.5 stories/ 35'
Maximum Building Coverage:	6%	2%	2%

* Setback variances required.



LOCATION MAP SCALE: 1" = 400'±

OWNER/APPLICANT:

WACCABUC COUNTRY CLUB
90 MEAD STREET
WACCABUC, NY 10597

SITE DATA:

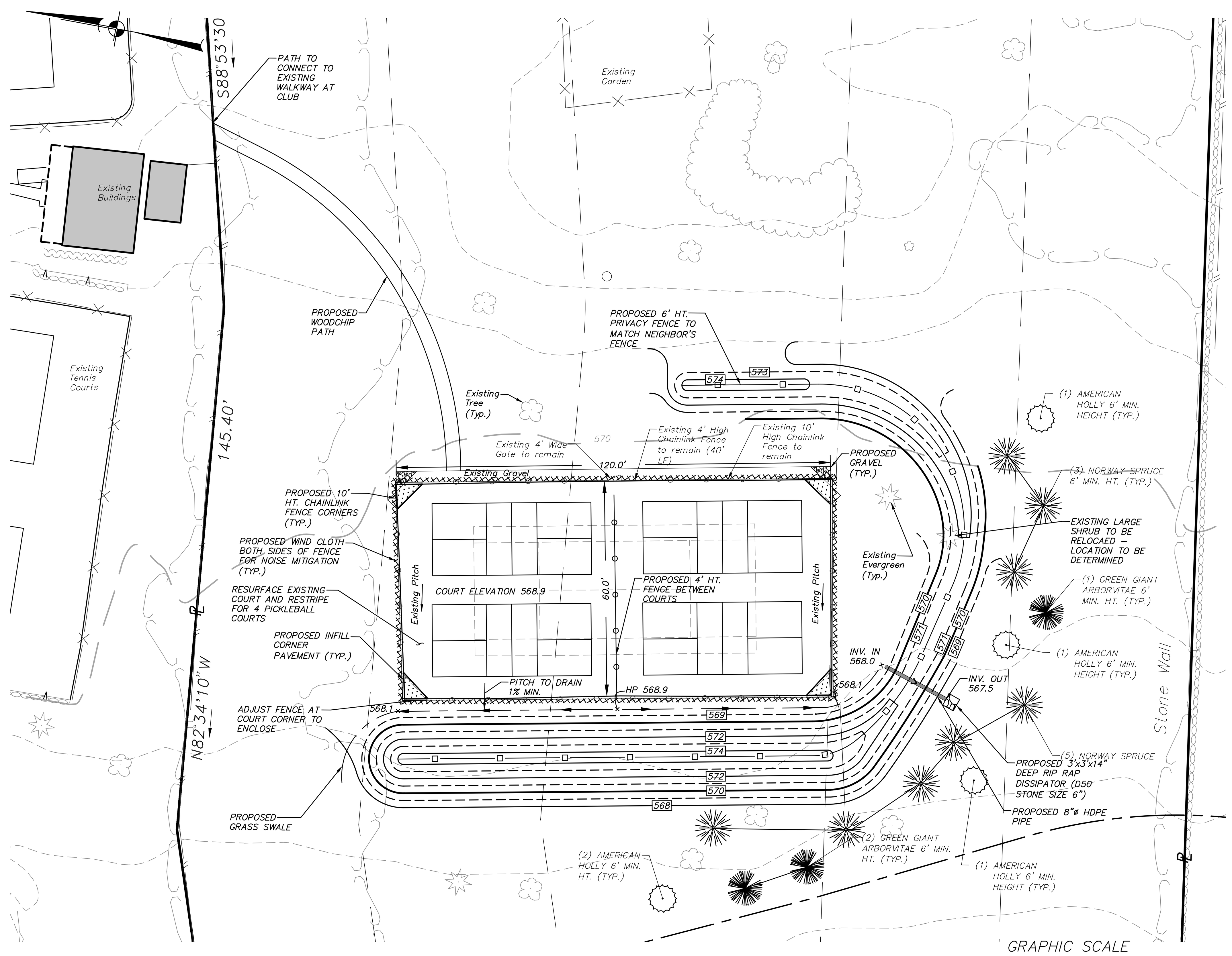
Zone: R-4A (4 Acre Residential)
Total Acreage 6.1± AC
Tax Map No.: 42.2-1-10

GENERAL NOTES:

1. Property lines, existing conditions and topography as shown hereon based off of survey mapping prepared by Insite Engineering, Surveying & Landscape Architecture P.C..
2. Topography shown hereon taken from both the Westchester County 2' contour, 1" = 100 scale GIS dataset dated April 2004 (elevations reference the North American Vertical Datum of 1988, NAVD 88.
3. Wetland flagging as shown hereon was delineated by James A. Bates of Ecological Analysis on February 1, 2023 and survey located by Insite Engineering, Surveying & Landscape Architecture PC on February 9, 2023.
4. Proposed features are labeled as such. All other features are existing.
5. No tree removal is proposed or authorized.
6. No exterior lighting is proposed or authorized.
7. Proposed color of shade cloth to be attached to fence is green.
8. All soil imported to the site shall constitute unrestricted clean fill, free of non-soil constituent. A signed soil manifest for any imported soil shall be provided to the Town.

LEGEND

- EXISTING PROPERTY LINE
- EXISTING EASEMENT
- EXISTING ZONING DISTRICT BOUNDARY
- EXISTING BUILDING
- EXISTING STONE RETAINING WALL
- EXISTING STONE WALL
- EXISTING GRAVEL TRAIL
- EXISTING CHAIN LINK FENCE
- EXISTING POST & RAIL FENCE
- EXISTING CONCRETE CURB
- EXISTING WETLAND
- EXISTING APPROXIMATE LIMITS OF WETLAND
- EXISTING 100 YR. FLOODPLAIN BOUNDARY
- EXISTING WETLAND BUFFER
- EXISTING STREAM BUFFER
- EXISTING 10' CONTOUR
- EXISTING 2' CONTOUR
- EXISTING SPOT GRADE
- EXISTING HEDGE ROW
- EXISTING SHRUB ROW
- EXISTING SHRUB
- EXISTING TREELINE
- PROPOSED DRAINAGE PIPE
- PROPOSED SPOT ELEVATION
- PROPOSED 10' CONTOUR
- PROPOSED 2' CONTOUR
- PROPOSED PRIVACY FENCE
- PROPOSED CHAINLINK FENCE
- PROPOSED WIND CLOTH
- PROPOSED COURT PAVEMENT



ENLARGED PICKLEBALL SITE PLAN

SCALE: 1"=20'

GRAPHIC SCALE

0 10 20 40

(IN FEET)
1 inch = 20 ft.

MATCH PROPOSED FENCE TO FENCE ON FISHER PROPERTY AT 68 MEAD STREET.
REFER TO PRIVACY FENCE DETAIL ON SHEET SP-2.

SITE PLANT LIST

SYMBOL	QTY.	BOTANICAL/COMMON NAME	SIZE	ROOT/SPACING
		EVERGREEN TREES		
	4	Ilex opaca / American Holly	6' HT. (MIN.)	B & B
	9	Picea abies/ Norway Spruce	6' HT. (MIN.)	B & B
	3	Thuja 'Green Giant' / Green Giant Arborvitae	6' HT. (MIN.)	B & B

PLANTING NOTES:

1. All proposed planting beds to receive a 12" min. depth of topsoil. No fertilizer is to be used. Nutrient requirements shall be met by incorporation of suitable organic material. Soil amendments based on specific testing of topsoil material.
2. Any new soils added will be amended as required by results of soil testing and placed using a method that will not cause compaction.
3. All plant material to be nursery grown.
4. Plants shall conform with ANSI Z60.1 American Standard for Nursery Stock in all ways including dimensions.
5. Plant material shall be taken from healthy nursery stock.
6. All plants shall be grown under climate conditions similar to those in the locality of the project.
7. Plants shall be planted in all locations designed on the plan or as staked in the field by the Landscape Architect.
8. The location and layout of landscape plants shown on the site plan shall take precedence in any discrepancies between the quantities of plants shown on the plans and the quantity of plants in the Plant List.
9. Provide a 3" layer of shredded bark mulch (or as specified) over entire watering saucer at all tree pits or over entire planting bed. Do not place mulch within 3" of tree or shrub trunks.
10. All landscape plantings shall be maintained in a healthy condition at all times. Any dead or diseased plants shall immediately be replaced "in kind" by the contractor (during warranty period) or project owner.

SEEDING NOTES:

1. All proposed seeded areas to receive 4" min. depth of topsoil. Soil amendments shall be determined based on specific testing of topsoil material. Topsoil shall be placed using a method that will not cause compaction.
2. Upon final grading and placement of topsoil and any required soil amendments, areas to receive permanent vegetation cover in combination with suitable mulch as follows:
   - select seed mixture per drawings and seeding notes.
   - no fertilizer is to be for seeded areas. Nutrient requirements shall be met by incorporation of acceptable organic matter based on results of soil testing.
   - mulch: salt hay or small grain straw applied at a rate of 90 lbs./1000 s.f. or 2 tons/acre, to be applied and anchored according to New York State Standards and Specifications for Erosion and Sediment Control, August 2005.
   - if the season prevents the establishment of a permanent vegetation cover, the disturbed areas will be mulched with straw or equivalent.
3. Seeding should begin immediately upon completion of finish grading and seed bed preparation while soil is still friable and before weeds can emerge. If seeding area is crusted or compacted, it should be loosened by discing or tilling. If weeds are present, they should be mowed short and removed or tilled under before seed is applied.
4. Seed mixtures shall be planted between March 21 and May 20, or between August 15, and October 15 or as directed by project representative. The seed mixes as specified on these drawings are as follows:
   A. Seed Mix for disturbed areas shall be (ERNMX-114) 5311 Conservation Mix at a rate of 3-5 lbs / 1,000 square feet.

NO.	DATE	REVISION	BY
5	7-25-23	REVISED FOR PLANNING BOARD SUBMISSION	SMR
4	6-23-23	REVISED FOR ZBA AND PLANNING BOARD SUBMISSION	SMR
3	4-25-23	REVISED FOR PLANNING BOARD SUBMISSION	SMR
2	3-28-23	REVISED PER TOWN COMMENTS	MEU
1	3-15-23	UPDATE BULK ZONING	MEU

INSITE
ENGINEERING, SURVEYING & LANDSCAPE ARCHITECTURE, P.C.
3 Garrett Place
Carmel, NY 10512
(845) 225-9690
(845) 225-9717 fax
www.insite-eng.com

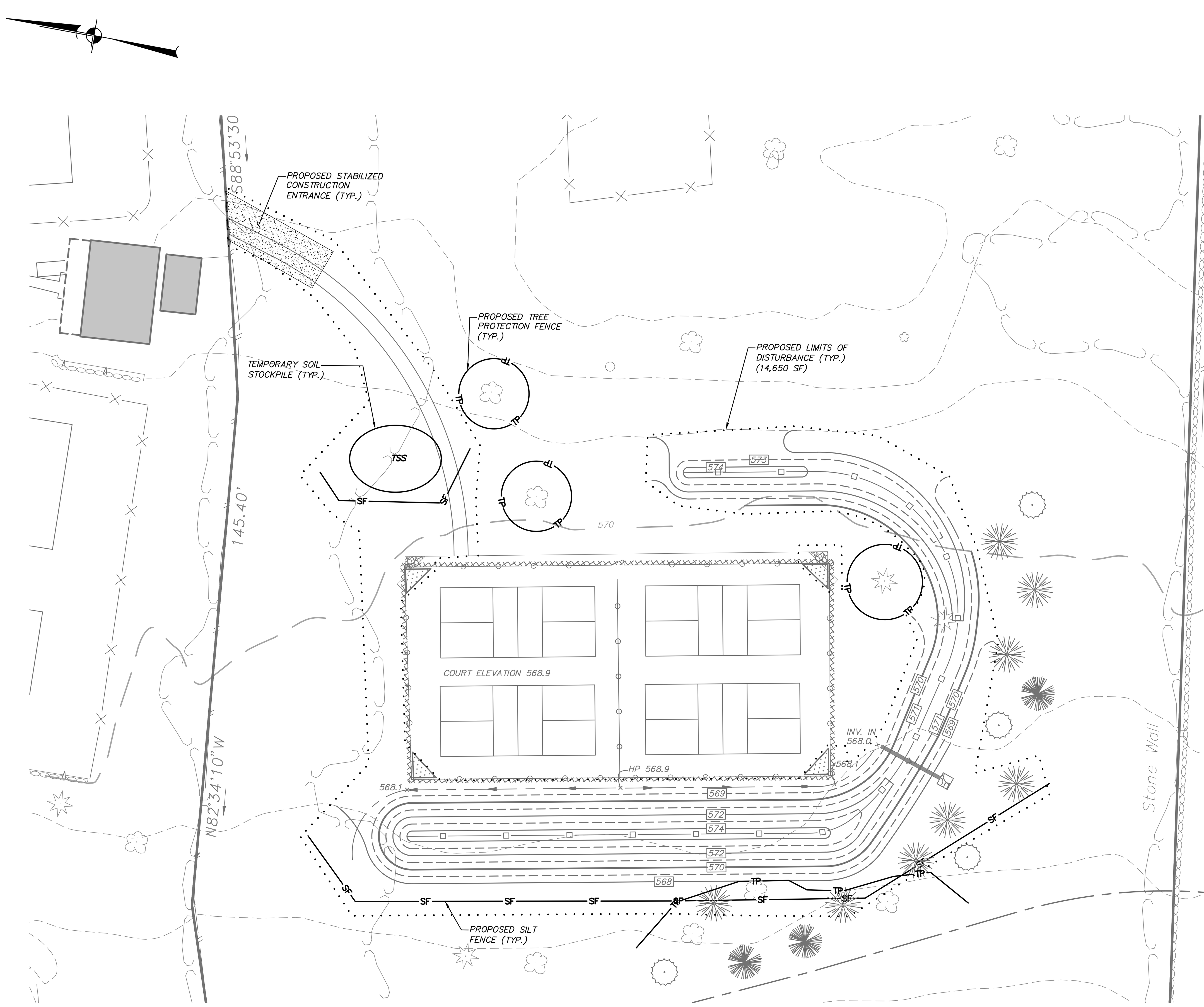
PROJECT:
WACCABUC COUNTRY CLUB PICKLEBALL
74 MEAD STREET, TOWN OF LEWISBORO, WESTCHESTER CTY, NEW YORK

DRAWING:
SITE PLAN

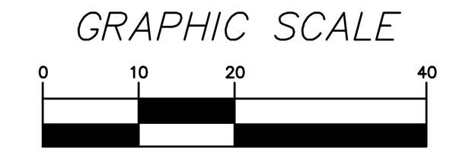
STATE OF NEW YORK · ZACHARY M. PEARSON · 086647 · LICENSED PROFESSIONAL ENGINEER

PROJECT NUMBER	23105.100	PROJECT MANAGER	Z.M.P.	DRAWING NO.	SHEET
DATE	2-14-23	DRAWN BY	J.J.S.	SP-1	1/2
SCALE	AS NOTED	CHECKED BY	D.L.M.		

Z:\E\23105100 Waccabuc CC, 74 Mead St\01 SP-1.dwg, 7/21/2023 1:52:22 PM, srichardsen, 1:1



ENLARGED PICKLEBALL SITE PLAN
SCALE: 1"=20'



REQUIRED EROSION CONTROL SWPPP CONTENTS:

Pursuant to the NYSDEC "SPDES General Permit for Stormwater Discharges from Construction Activity" (GP-0-20-001), all Stormwater Pollution Prevention Plan's (SWPPP) shall include erosion and sediment control practices designed in conformance with the most current version of the technical standard, "New York Standards and Specifications for Erosion and Sediment Control." Where erosion and sediment control practices are not designed in conformance with this technical standard, the owner or operator must demonstrate equivalence to the technical standard. The following list of required SWPPP components is provided in accordance with Part III.B.1a-l of General Permit GP-0-20-001:

a. Background Information: The subject project consists of the installation of a berm and privacy fence surrounding a pickleball court.

b. Site map / construction drawing: These plans serve to satisfy this SWPPP requirement.

c. Description of the soils present at the site: Onsite soils located within the proposed limits of disturbance consist of Paxton Fine Sandy Loam (PnB), as identified on the Soil Conservation Service Web Soil Survey. This soil type belongs to the Hydrologic Soil Group "C."

d. Construction phasing plan / sequence of operations: The Construction Sequence and phasing found on these plans provide the required phasing. A Construction Sequence and Erosion and Sediment Control Maintenance Schedule has been provided. The Erosion and Sediment Control Notes contained hereon outline a general sequence of operations for the proposed project. In general all erosion and sediment control facilities shall be installed prior to commencement with land disturbing activities, and areas of disturbance shall be limited to the shortest period of time as practicable.

e. Description of erosion and sediment control practices: This plan, and details / notes shown hereon serve to satisfy this SWPPP requirement.

f. Temporary and permanent soil stabilization plan: The Sedimentation and Erosion Control Notes and Details provided heron identify temporary and permanent stabilization measures to be employed with respect to specific elements of the project, and at the various stages of development.

g. Site map / construction drawing: This plan serves to satisfy this SWPPP requirement.

h. The dimensions, material specifications, installation details, and operation and maintenance requirements for all erosion and sediment control practices: The details, Erosion and Sediment Control Notes, and Erosion and Sediment Control Maintenance Schedule serve to satisfy this SWPPP requirement.

i. An inspection schedule: Inspections are to be performed twice weekly and by a qualified professional as required by the General Permit GP-0-20-001. In addition the NYSDEC Trained Contractor shall perform additional inspections as cited in the Sedimentation and Erosion Control Notes.

j. A description of pollution prevention measures that will be used to control litter, construction chemicals and construction debris: In general, all construction litter / debris shall be collected and removed from the site. The general contractor shall supply either waste barrels or dumpster for proper waste disposal. Any construction chemicals utilized during construction shall either be removed from site daily by the contractor or stored in a structurally sound and weatherproof building. No hazardous waste shall be disposed of onsite, and shall ultimately be disposed of in accordance with all federal, state and local regulations. Material Safety Data Sheets (MSDS), material inventory, and emergency contact numbers shall be maintained by the general contractor for all construction chemicals utilized onsite. Finally, temporary sanitary facilities (portable toilets) shall be provided onsite during the entire length of construction, and inspected weekly for evidence of leaking holding tanks.

k. A description and location of any stormwater discharges associated with industrial activity other than construction at the site: There are no known industrial stormwater discharges present or proposed at the site.

l. Identification of any elements of the design that are not in conformance with the technical standard, "New York Standards and Specifications for Erosion and Sediment Control." All proposed elements of this SWPPP have been designed in accordance with the "New York Standards and Specifications for Erosion and Sediment Control."

EROSION & SEDIMENT CONTROL NOTES:

1. The owner's field representative (O.F.R.) will be responsible for the implementation and maintenance of erosion and sediment control measures on this site prior to and during construction.
2. All construction activities involving the removal or disposition of soil are to be provided with appropriate protective measures to minimize erosion and contain sediment disposition within. Minimum soil erosion and sediment control measures shall be implemented as shown on the plans and shall be installed in accordance with "New York Standards and Specifications For Erosion and Sediment Control," latest edition.
3. Wherever feasible, natural vegetation should be retained and protected. Disturbance shall be minimized in the areas required to perform construction. No more than 5 acres of unprotected soil shall be exposed at any one time.
4. When land is exposed during development, the exposure shall be kept to the shortest practical period of time. In the areas where soil disturbance activity has temporarily or permanently ceased, the application of soil stabilization measures must be initiated by the end of the next business day and completed within seven (7) days from the date the current soil disturbance activity ceased. Disturbance shall be minimized to the areas required to perform construction.
5. Silt fence shall be installed as shown on the plans prior to beginning any clearing, grubbing or earthwork.
6. All topsoil to be stripped from the area being developed shall be stockpiled and immediately seeded for temporary stabilization. Ryegrass (annual or perennial) at a rate of 30 lbs. per acre shall be used for temporary seeding in spring, summer or early fall. 'Aristook' Winter Rye (cereal rye) shall be used for temporary seeding in late fall and winter.
7. Any disturbed areas not subject to further disturbance or construction traffic, permanent or temporary, shall have soil stabilization measures initiated for permanent vegetation cover in combination with a suitable mulch within 1 business day of final grading. All seeded areas to receive a minimum 4" topsoil (from stockpile area) and be seeded and mulched as follows:
   - Seed mixture to be planted between March 21 and May 20, or between August 15 and October 15 or as directed by project representative at a rate of 100 pounds per acre in the following proportions:
     - Kentucky Bluegrass 20%
     - Creeping Red Fescue 40%
     - Perennial Ryegrass 20%
     - Annual Ryegrass 20%
   - Mulch: Salt hay or small grain straw applied at a rate of 90 lbs./1000 S.F. or 2 tons/acre, to be applied and anchored according to "New York Standards and Specification For Erosion and Sediment Control," latest edition.
8. Grass seed mix may be applied by either mechanical or hydroseeding methods.Seeding shall be performed in accordance with the current edition of the "NYSDOT Standard Specification, Construction and Materials, Section 610-3.02, Method No. 1". Hydroseeding shall be performed using materials and methods as approved by the site engineer.
9. Cut or fill slopes steeper than 3:1 shall be stabilized immediately after grading with Curlex I Single Net Erosion Control Blanket, or approved equal.
10. Paved roadways shall be kept clean at all times.
11. The site shall at all times be graded and maintained such that all stormwater runoff is diverted to soil erosion and sediment control facilities.
12. All storm drainage outlets shall be stabilized, as required, before the discharge points become operational.
13. Stormwater from disturbed areas must be passed through erosion control barriers before discharge beyond disturbed areas or discharged into other drainage systems.
14. Erosion and sediment control measures shall be inspected and maintained on a daily basis by the O.F.R. to insure that channels, temporary and permanent ditches and pipes are clear of debris, that embankments and berms have not been breached and that all straw bales and silt fences are intact. Any failure of erosion and sediment control measures shall be immediately repaired by the contractor and inspected for approval by the O.F.R. and/or site engineer.
15. Dust shall be controlled by sprinkling or other approved methods as necessary, or as directed by the O.F.R.
16. Cut and fills shall not endanger adjoining property, nor divert water onto the property of others.
17. All fills shall be placed and compacted in 6" lifts to provide stability of material and to prevent settlement.
18. The O.F.R. shall inspect downstream conditions for evidence of sedimentation on a weekly basis and after rainstorms.
19. As warranted by field conditions, special additional erosion and sediment control measures, as specified by the site engineer and/or the Town Engineer shall be installed by the contractor.
20. Erosion and sediment control measures shall remain in place until all disturbed areas are suitably stabilized.

LEGEND

- EXISTING PROPERTY LINE
- EXISTING EASEMENT
- EXISTING ZONING DISTRICT BOUNDARY
- EXISTING BUILDING
- EXISTING STONE RETAINING WALL
- EXISTING STONE WALL
- EXISTING GRAVEL TRAIL
- EXISTING CHAIN LINK FENCE
- EXISTING POST & RAIL FENCE
- EXISTING CONCRETE CURB
- EXISTING WETLAND
- EXISTING APPROXIMATE LIMITS OF WETLAND
- EXISTING 100 YR. FLOODPLAIN BOUNDARY
- EXISTING WETLAND BUFFER
- EXISTING STREAM BUFFER
- 100 — EXISTING 10' CONTOUR
- EXISTING 2' CONTOUR
- 698.6 × — EXISTING SPOT GRADE
- ×568.9 568.9 — PROPOSED SPOT ELEVATION
- 570 — PROPOSED 10' CONTOUR
- PROPOSED 2' CONTOUR
- SF — PROPOSED SILT FENCE
- PROPOSED LIMITS OF DISTURBANCE
- TSS SF — PROPOSED TEMPORARY SOIL STOCKPILE
- PROPOSED STABILIZED CONSTRUCTION ENTRANCE
- TP — PROPOSED TREE PROTECTION FENCE

CONSTRUCTION SEQUENCE:

1. Install stabilized construction entrance/anti-tracking pad at driveway entrance.
2. Install silt fence in general locations indicated on the plan.
3. Begin shrub relocation.
4. Strip and stockpile topsoil on site for later use in lawn and landscape areas.
5. Begin grading of berm.
6. Install fence on top of berm.
7. Upon completion of grading operations, install evergeen trees.
8. Topsoil, seed, and mulch all disturbed areas as soon as practical in accordance with the Erosion and Sediment Control Notes contained on this page.

EROSION AND SEDIMENT CONTROL MAINTENANCE SCHEDULE

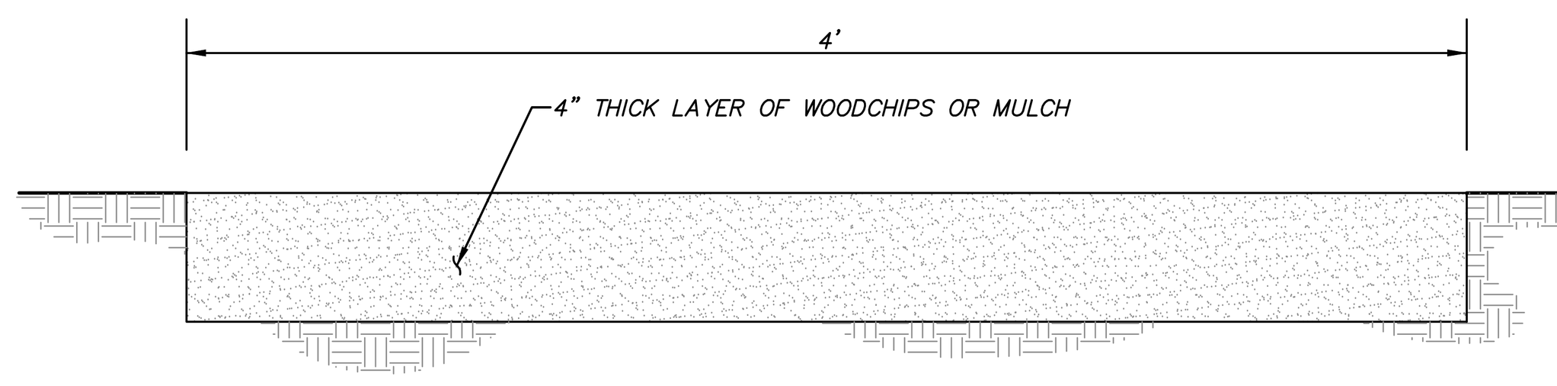
MONITORING REQUIREMENTS				MAINTENANCE REQUIREMENTS	
PRACTICE	DAILY	WEEKLY	AFTER RAINFALL	DURING CONSTRUCTION	AFTER CONSTRUCTION
SILT FENCE BARRIER	–	Inspect	Inspect	Clean/Replace	Remove
STABILIZED CONSTRUCTION ENTRANCE	Inspect	–	Inspect	Clean/Replace Stone and Fabric	Remove
*VEGETATIVE ESTABLISHMENT	–	Inspect	Inspect	Water/Reseed/ Remulch	Reseed to 80% Coverage
SOIL STOCKPILES	–	Inspect	Inspect	Mulching/ Silt Fence Repair	Remove

* Permanent vegetation is considered stabilized when 80% of the plant density is established. Erosion control measures shall remain in place until all disturbed areas are permanently stabilized.

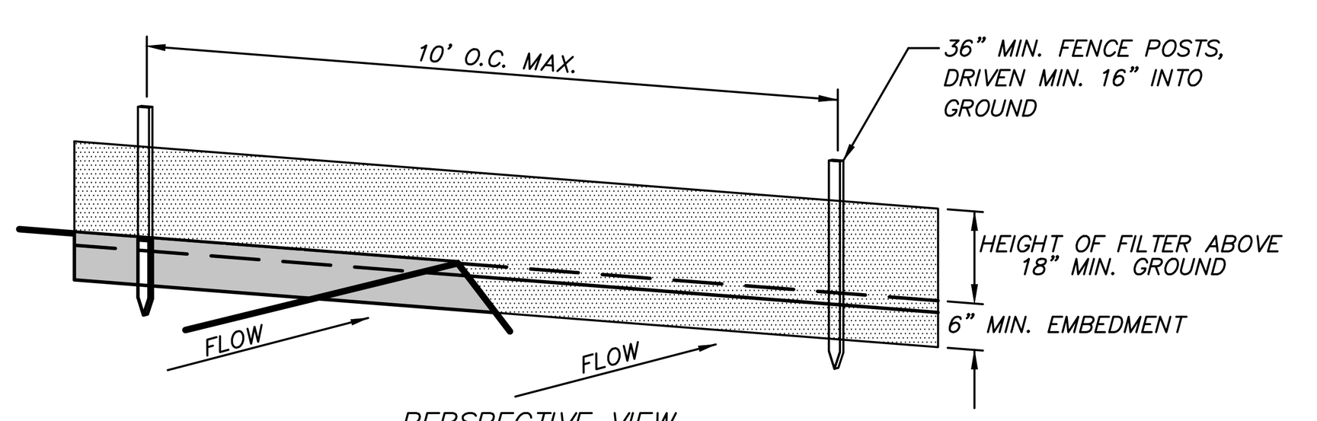
Note: The party responsible for implementation of the maintenance schedule during and after construction is:

Waccabuc Country Club
90 Mead Street
Waccabuc, NY 10597

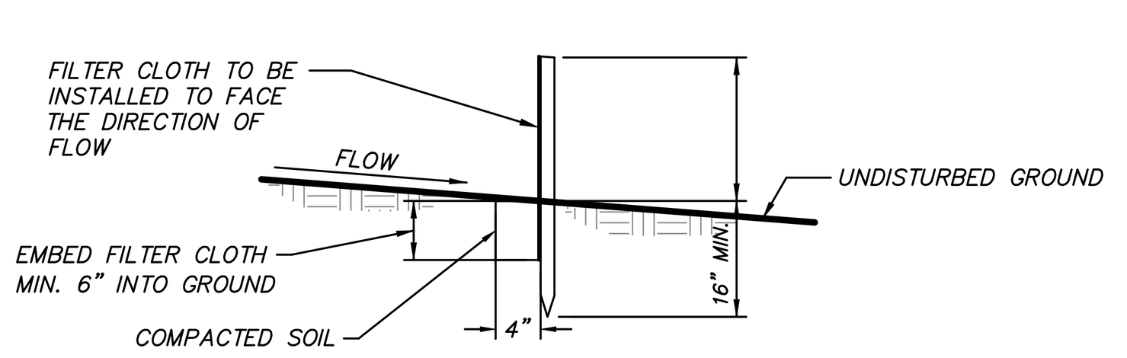
and/or the current owner(s) of the subject property.



WOOD CHIP PATH DETAIL
(N.T.S.)



PERSPECTIVE VIEW



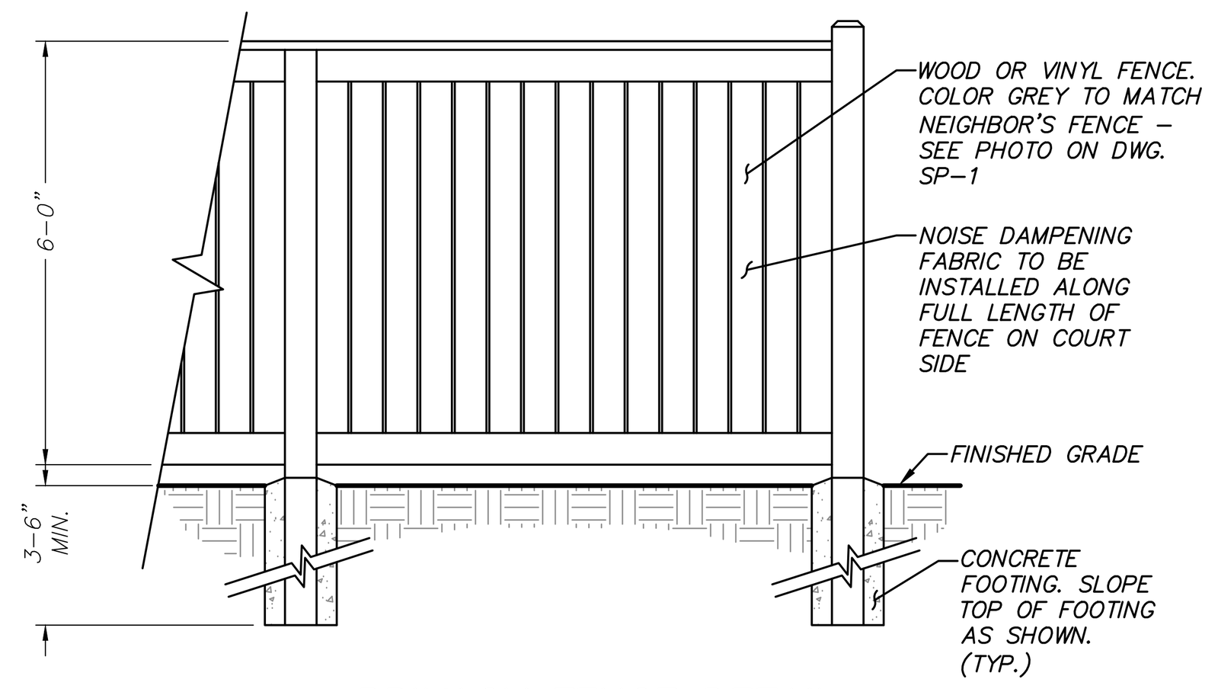
SECTION

CONSTRUCTION NOTES FOR FABRICATED SILT FENCE

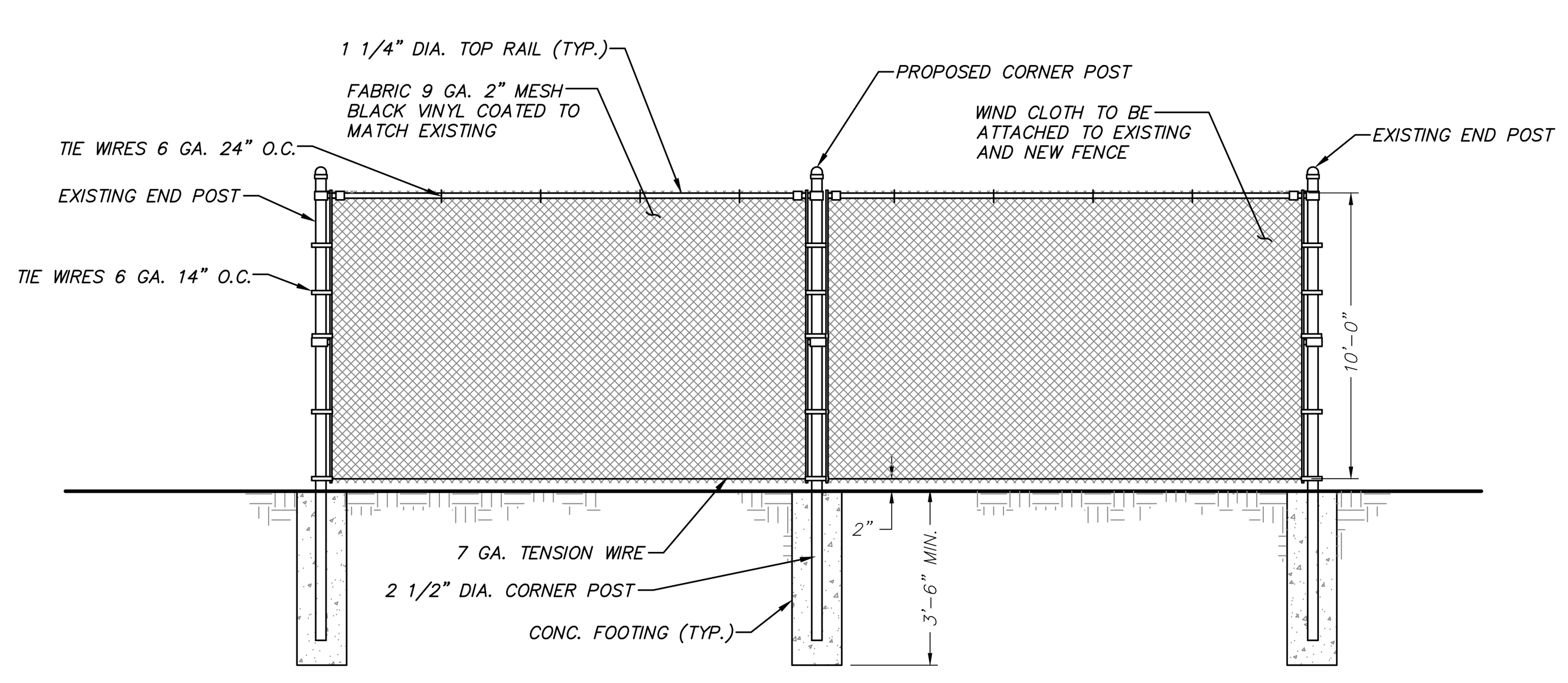
1. FILTER CLOTH TO BE FASTENED SECURELY TO POSTS AT TOP AND MID SECTION.
2. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY SIX INCHES AND FOLDED.
3. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.

POSTS: STEEL EITHER T OR U TYPE OR 2" HARDWOOD
FILTER CLOTH: FILTER X, MIRAFI 100X, STABILINKA T140N, OR APPROVED EQUAL
PREFABRICATED UNIT: GEOFAB, ENVIROFENCE, OR APPROVED EQUAL

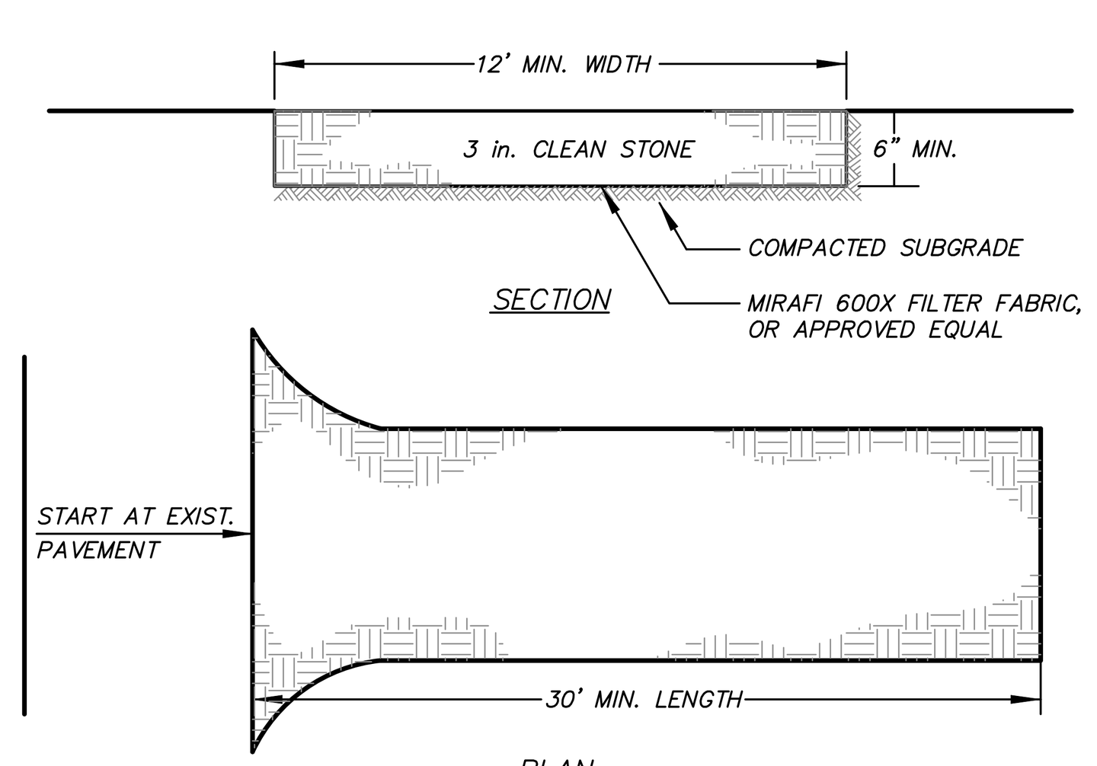
SILT FENCE DETAIL
(N.T.S.)



PRIVACY FENCE DETAIL
(N.T.S.)



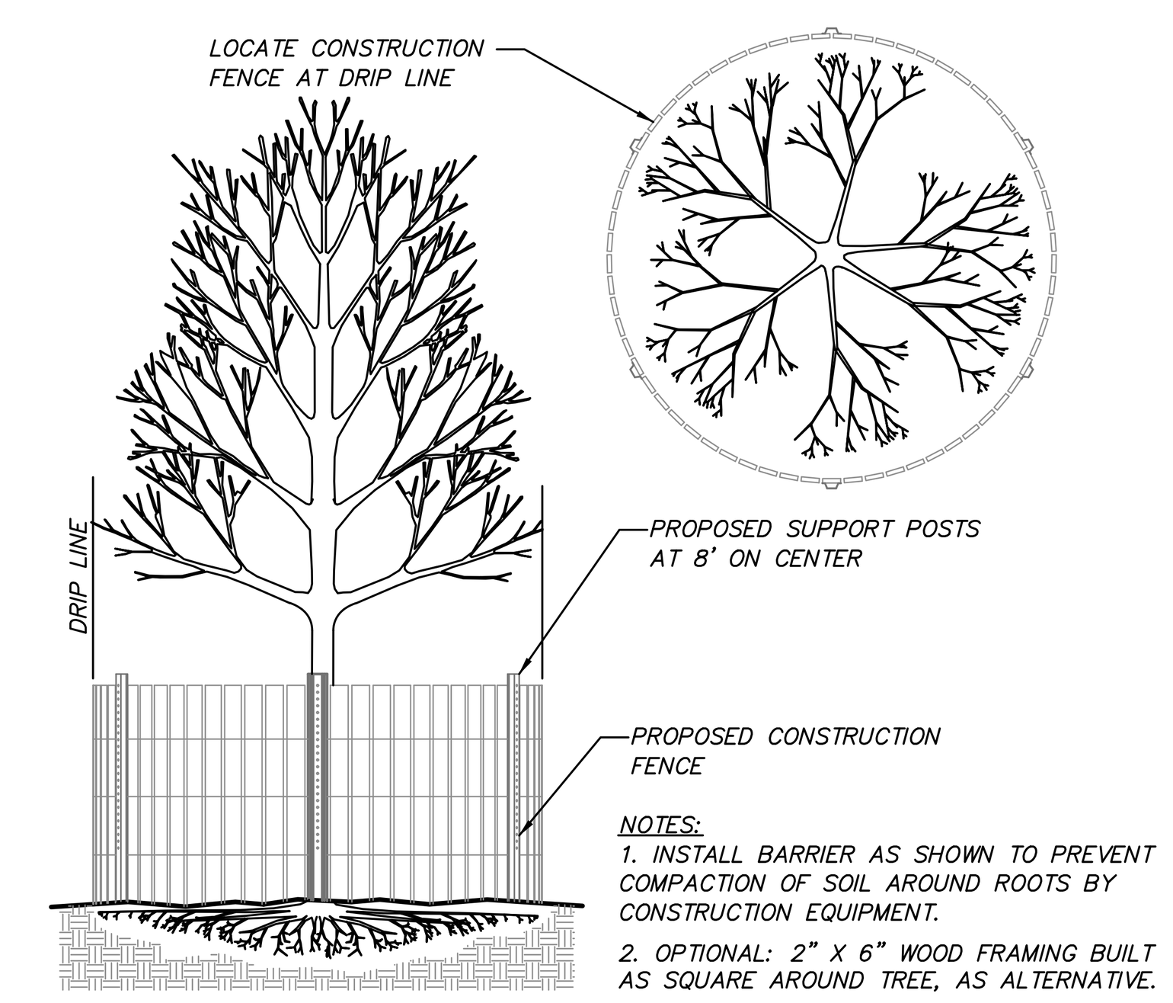
CHAIN LINK FENCE DETAIL
(N.T.S.)



INSTALLATION NOTES

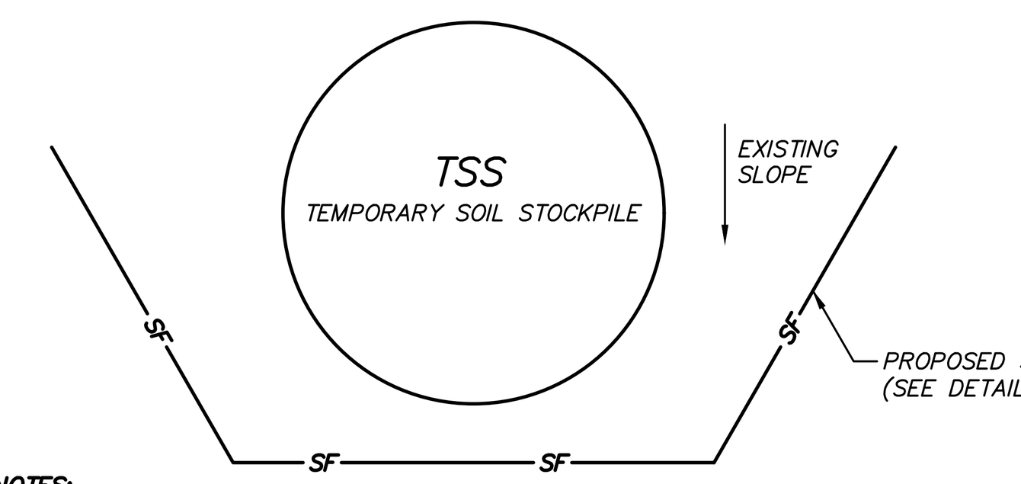
1. STONE SIZE – USE 3" STONE
2. LENGTH – AS REQUIRED, BUT NOT LESS THAN 30 FEET.
3. THICKNESS – NOT LESS THAN SIX (6) INCHES.
4. WIDTH – 12 FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCUR.
5. FILTER CLOTH – WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE. FILTER CLOTH WILL NOT BE REQUIRED ON A SINGLE FAMILY RESIDENCE LOT.
6. SURFACE WATER – ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
7. MAINTENANCE – THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT OF WAY . THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHT OF WAY MUST BE REMOVED IMMEDIATELY.
8. WASHING – WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHT OF WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

STABILIZED CONSTRUCTION ACCESS DETAIL
(N.T.S.)



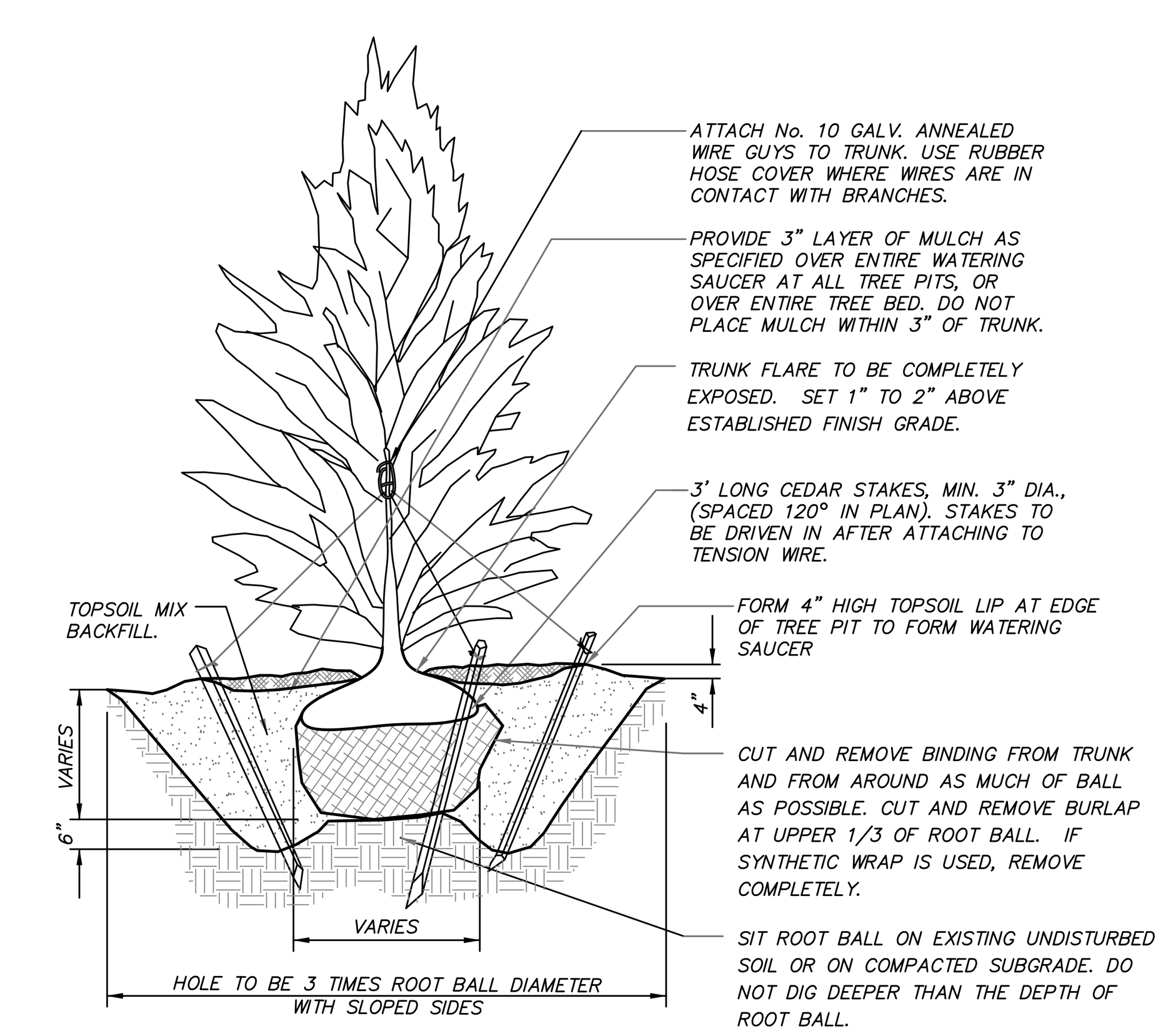
NOTES:
1. INSTALL BARRIER AS SHOWN TO PREVENT COMPACTION OF SOIL AROUND ROOTS BY CONSTRUCTION EQUIPMENT.
2. OPTIONAL: 2" X 6" WOOD FRAMING BUILT AS SQUARE AROUND TREE, AS ALTERNATIVE.

TREE PROTECTION DETAIL
(N.T.S.)



NOTES:
1. AREA CHOSEN FOR STOCKPILE LOCATION SHALL BE DRY AND STABLE.
2. MAXIMUM SLOPE OF STOCKPILE SHALL BE 2:1.
3. UPON COMPLETION OF SOIL STOCKPILING, EACH PILE SHALL BE IMMEDIATELY SEEDED WITH K31 PERENNIAL TALL FESCUE.
4. ALL STOCKPILES SHALL BE PROTECTED WITH SILT FENCING INSTALLED ON THE DOWNGRADIENT SIDE.

TEMPORARY SOIL STOCKPILE DETAIL
(N.T.S.)



NOTE:
PROVIDE STAKING AND GUYING FOR TREES PLANTED ON SLOPES GREATER THAN 3H:1V, IN EXPOSED, WINDY AREAS AND AS SPECIFIED BY LANDSCAPE ARCHITECT. GUY WIRES AND STAKES SHALL BE REMOVED WITHIN TWELVE MONTHS OF PLANTING.

EVERGREEN TREE PLANTING DETAIL
(N.T.S.)

NO.	DATE	REVISION	BY
1	7-25-23	REVISED FOR PLANNING BOARD SUBMISSION	SMR

INSITE
ENGINEERING, SURVEYING & LANDSCAPE ARCHITECTURE, P.C.
3 Garrett Place
Carmel, NY 10512
(845) 225-9690
(845) 225-9717 fax
www.insite-eng.com

PROJECT:
WACCABUC COUNTRY CLUB PICKLEBALL
74 MEAD STREET, TOWN OF LEWISBORO, WESTCHESTER CTY, NEW YORK

DRAWING:
EROSION & SEDIMENT CONTROL PLAN AND DETAILS

STATE OF NEW YORK · ZACHARY M. PEARSON · 086647 · LICENSED PROFESSIONAL ENGINEER

PROJECT NUMBER	23105.100	PROJECT MANAGER	Z.M.P.
DATE	6-23-23	DRAWN BY	S.M.R.
SCALE	AS NOTED	CHECKED BY	D.L.M.

DRAWING NO. SP-2
SHEET 2 / 2

Z:\E\23105100 Waccabuc CC, 74 Mead St\02 SP-2.dwg, 7/21/2023 8:57:32 AM, srichardsen, 1:1

KELLARD SESSIONS

John Kellard, P.E.
David Sessions, RLA, AICP
Joseph M. Cermele, P.E., CFM
Jan K. Johannessen, AICP

MEMORANDUM

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: August 10, 2023

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 gravel 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. Work proposed within the Town right-of-way will require a Driveway Opening Permit from the Town Highway Superintendent.

3. The proposed potable water well and sanitary sewage treatment system require approval from the Westchester County Department of Health (WCDH).

4. The subject property is located within the NYC East of Hudson Watershed and proposed land disturbance exceeds 5,000 s.f. Coverage under New York State Department of Environmental Conservation (NYSDEC) SPDES General Permit for Stormwater Discharges from Construction Activity (GP-0-20-001) will be required.

5. The applicant has received New York City Department of Environmental Conservation (NYCDEP) Individual Residential Stormwater Plan Determination approval.

COMMENTS

1. The application should be referred to the Building Inspector for review of zoning compliance.

2. 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.

3. 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.

4. 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.

5. 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.

6. The plan shall illustrate and identify the location, specie type and diameter at breast height (dbh) of all trees with a dbh of eight (8) inches or greater and located within the limits of disturbance and 25 feet beyond. Indicate trees to be removed and/or protected.

7. Drawing SY1 shall be revised to include the drawing scale and a north arrow.

8. The plan shall be revised to dimension all required minimum zoning setbacks lines (front, rear, side yard setbacks).

9. In the Zoning Table, the distance from the structure to the street centerline is shown to be 713'. When measuring on the plan, it appears this separation is 71'. Please correct.

10. Show any proposed contours and/or spot grades at the southern side of the proposed dwelling.

11. Provide fence and gate details, including height, material, color, etc. The detail provided is not legible and the leaders and text are cut off.

12. Provide construction details for all proposed improvements, including but not limited to, driveway, walkways, walls, fencing, septic and water service, etc.

13. Identify the limits of the existing stone wall removal at the driveway entrance.

14. In accordance with Section 195-24A of the Subdivision Regulations, the applicant shall demonstrate that the driveway grade does not exceed 3% within 30 feet of the edge of street pavement or 14% at any other point. Further, we question the use of a gravel surface at 12% grade. Provide a driveway profile.

15. All walls greater than or equal to four (4) feet in height shall be designed by a NYS Licensed Professional Engineer. Provide construction details and specifications on the plan for the Planter Wall.

16. 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.

17. The applicant shall provide a copy of the WCDH Approval, including signed plans and permits, related to the proposed wastewater treatment system and potable water well.

18. The plan shall illustrate the location of the proposed septic laterals (Primary and Expansion). Demonstrate that the minimum required WCDH separation distances to the septic system, well, structures, drainage improvements, etc. are maintained.

19. The site plan shall quantify the limits of disturbance (s.f.). The plan shall note that disturbance limits shall be staked in the field prior to construction.

20. The limits of disturbance line should be revised to include all the split rail fence installation and proposed plantings.

21. Silt fence should be shown to be installed parallel to the contours.

22. Land disturbance is proposed to exceed ≥5,000 s.f. and will therefore require conformance with NYSDEC SPDES General Permit (GP-0-20-001) and filing of a Notice of Intent (NOI) and MS4 Acceptance Form with the NYSDEC. Submit draft copies to this office for review.

23. 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.

24. Stormwater planter sizing calculations shall be provided and shall follow the NYS Stormwater Design Manual, accounting for ponding, soil media and gravel layer volumes. Provide planting requirements for the stormwater planter.

25. The roof leaders for the garage should be shown on the plan to clarify how stormwater will be conveyed to the storm water planter.

26. The plan shall illustrate the footing drain location on the site plan. Include the size, slope, and material of drainage pipe and provide outlet protection details.

27. Clarify what the thick line with the "WL" symbol is which is shown across the property. The legend shows it as a water line.

28. Note #21 in the sequence of construction found on sheet SY1 is not legible. The same applies for the Erosion Control Maintenance note 9.3.1. Please correct.

29. It is recommended that the Planning Board conduct a site visit.

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 ENGINEERING & ARCHITECTURE, P.C., DATED MAY 25, 2023:

- Cover Sheet (CS)
- IRSP Erosion Control Plan (SY1)
- Concrete Planter Details (SY2)

DOCUMENTS REVIEWED:

- Wetland Permit Application
- Stormwater Permit Application
- Short EAF, dated April 5, 2023
- NYCDEP Individual Residential Stormwater Plan Determination, dated June 13, 2023
- Proposed Ground Level Floor Plan and Elevations (A-1.0), prepared by SD Design, dated June 28, 2023

JKJ/dc

TO: The Town of Lewisboro Planning Board

FROM: Lewisboro Conservation Advisory Council

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

DATE: August 7, 2023

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

The entire project is in the wetland buffer. 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 association mitigation planting plan size to meet the 1 to 1 criteria
- A detailed list of any tree removals including size and type and their position on the plan to determine if their removal is necessary
- 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.

Fee: $50.00 Date: 06/20/2023

TOWN OF LEWISBORO
ENVIRONMENTAL QUESTIONNAIRE

The purpose of this Questionnaire is to determine whether a Town Wetland Permit, a Town Stormwater Permit and/or coverage under the NYSDEC SPDES General Permit for Stormwater Discharges from Construction Activity is required. This form does not provide authorization to commence work.

Project Address: 96 Post Office Rd, Waccabuc, NY

Sheet: 25 Block: 10812 Lot(s): 3

Project Description: Construction of new residence, OWTS and Well

This questionnaire must be accompanied with a Site Plan or, at a minimum, a Plot Plan which clearly illustrates the location and dimensions of the proposed activity. Said plans must include a line which encircles the total area of proposed land disturbance and the approximate area of disturbance must be calculated (square feet). Failure to submit these items will delay review.

Owner's Name: wDesigne, Inc. / Alex Bernabo Phone: (914) 906-1336

Owner's Address: 3867 Danbury Rd, Brewster, NY 10509 Email: info@wdesigne.com

Agent's Name (if applicable): PW Scott Engineering & Architecture, PC Peder Scott, P.E., R.A. Phone: 845-278-2110

Agent's Address: 3871 Danbury Rd, Brewster, NY 10509 Email: pwscott@pwscott.com

I hereby grant permission to the Town's professional consultants to enter onto my property to conduct a site inspection.
Owner (Signature): [signature] Date: 5/15/23

FOR TOWN USE – PLEASE DO NOT WRITE BELOW THIS LINE

1. The use of the property is?

2. Is a Town Wetland Permit required? **Yes**
   If Yes, what type of Wetland Permit is required? **Planning Board**

3. Is the project located within the NYCDEP Watershed? **Yes**

4. Area of proposed disturbance: **5000 SqFt to Less than 1 acre**

5. Is a Town Stormwater Permit required? **Yes**
   If Yes, the approval authority will be? **Planning Board**

6. Will the project require coverage under the NYSDEC General Permit for Stormwater Discharges from Construction Activity? **Yes**

Application Fee (if required): **Wetland Permit** $: $255 plus $2,000 escrow
Stormwater Permit $: 155

Notes:

Signature: Jan K. Johannessen Date: 06/20/2023
Wetland Inspector/Consultant

Application No.: _____
Fee: _____ Date: _____

TOWN OF LEWISBORO
WETLAND PERMIT APPLICATION

79 Bouton Road, South Salem, NY 10590
Phone: (914) 763-5592
Fax: (914) 875-9148

Project Address: 96 Post Office Rd, Waccabuc, NY

Sheet: 25 Block: 10812 Lot(s): 3

Project Description (Identify the improvements proposed within the wetland/wetland buffer and the approximate amount of wetland/wetland buffer disturbance): Construction of 2,800 house + 600 sf garage plus well disturbance .213 acres in wetlands, SSTS & driveway in buffer - Buffer Disturbance: .309

Owner's Name: wDesigne / Alex Bernabo Phone: (914) 906-1336

Owner's Address: 3867 Danbury Rd, Brewster, NY 10509 Email: info@wdesigne.com

Applicant's Name (if different): _____ Phone: _____

Applicant's Address: _____ Email: _____

Agent's Name (if applicable): Peder Scott, P.E., R.A. Phone: 845-278-2110
PW Scott Engineering & Architecture, PC
Agent's Address: 3871 Danbury Rd, Brewster, NY 10509 Email: pwscott@pwscott.com

TO BE COMPLETED BY OWNER/APPLICANT

What type of Wetland Permit is required? (see §217-5C and §217-5D of the Town Code)

☒ Administrative ☐ Planning Board

Is the project located within the NYCDEP Watershed? ☒ Yes ☐ No

Total area of proposed disturbance: ☐ < 5,000 s.f. ☒ 5,000 s.f. - < 1 acre ☐ ≥1 acre

Does the proposed action require any other permits/approvals from other agencies/departments? (Planning Board, Town Board, Zoning Board of Appeals, Building Department, Town Highway, ACARC, NYSDEC, NYCDEP, WCDOH, NYSDOT, etc): Identify all other permits/approvals required: ACOE
NYCDEP - IRSP Permit issued 6/13/23, WCDOH approval #L2023 dated 6/26/23

Note: Initially, all applications shall be submitted with a plan that illustrates the existing conditions and proposed improvements. Said plan must include a line which encircles the total area of proposed land disturbance and the approximate area of disturbance must be calculated (square feet). The Planning Board and/or Town Wetland Inspector may require additional materials, information, reports and plans, as determined necessary, to review and evaluate the proposed action. If the proposed action requires a Planning Board Wetland Permit, the application materials outlined under §217-7 of the Town Code must be submitted, unless waived by the Planning Board. The Planning Board may establish an initial escrow deposit to cover the cost of application/plan review and inspections conducted by the Town's consultants.

For administrative wetland permits, see attached Administrative Wetland Permit Fee Schedule.

Owner Signature: _____ Date: June 27, 2023

Application No.: _____
Fee: _____ Date: _____

TOWN OF LEWISBORO
STORMWATER PERMIT APPLICATION

79 Bouton Road, South Salem, NY 10590
Phone: (914) 763-5592
Fax: (914) 875-9148

Project Address: 96 Post Office Rd

Sheet: 10812 Block: 003 Lot(s): 0025

Project Description (describe overall project including all proposed land development activities):
Construct new residence, OWTS & Well

Owner's Name: wDesigne / Alex Bernabo Phone: (914) 906-1336

Owner's Address: 3867 Danbury Rd, Brewster, NY 10509 Email: info@wdesigne.com

Applicant's Name (if different): _____ Phone: _____

Applicant's Address: _____ Email: _____

Agent's Name (if applicable): Peder Scott, P.E., R.A. Phone: 845-278-2110

Agent's Address: PW Scott Engineering & Architecture, PC
3871 Danbury Rd, Brewster, NY 10509 Email: pwscott@pwscott.com

TO BE COMPLETED BY OWNER/APPLICANT

The approval authority is? (see §189-5 of the Town Code)

□ Town Engineer and Stormwater Management Officer ☒ Planning Board

Is the project located within the NYCDEP Watershed? ☒ Yes □ No

Total area of proposed disturbance: ☒ 5,000 s.f. - < 1 acre □ ≥1 acre

Will the project require coverage under the NYSDEC General Permit for Stormwater Discharges from Construction Activity? ☒ Yes □ No □ Requires post-construction stormwater practice

Does the proposed action require any other permits/approvals from other agencies/departments? (Wetland Inspector, Planning Board, Town Board, Zoning Board of Appeals, Building Department, Town Highway, ACARC, NYSDEC, NYCDEP, WCDOH, NYSDOT, etc): Identify all other permits/approvals required: NYCDEP IRSP Approved: 6/13/23 ; WCDOH Approved: #L2023 dated 6/26/23

Note: The applicant, owner and/or agent is responsible for reviewing and complying with Chapter 189, "Stormwater Management and Erosion and Sediment Control," of the Town Code. This application must be submitted with all applicable plans, reports and documentation specified under §189-8, "SWPPP requirements," of the Town Code; all SWPPP's shall be prepared in conformance with Chapter 189 and shall be prepared by a qualified professional, as defined therein. The provision for obtaining a Town Stormwater Permit is in addition to the requirement of obtaining coverage under the SPDES General Permit for Stormwater Discharges from Construction Activity, if applicable.

Owner Signature: _____ Date: 6/26/23

TOWN OF LEWISBORO PLANNING BOARD

79 Bouton Road, South Salem, NY 10590
Email: planning@lewisborogov.com
Tel: (914) 763-5592
Fax: (914) 875-9148

Affidavit of Ownership

State of: New York

County of: Westchester

Alex Bernabo (wDesigne, Inc.), being duly sworn, deposes and says that he/she resides at 2 Avery Dr, Mahopac, NY 10541 in the County of Putnam, State of NY and that he/she is (check one) X the owner, or ____ the _____ (*Title*) of wDesigne, Inc. (*Name of corporation, partnership, or other legal entity*) which is the owner, in fee of all that certain log, piece or parcel of land situated, lying and being in the Town of Lewisboro, New York, aforesaid and know and designated on the Tax Map in the Town of Lewisboro as:

Block 10812, Lot 3, ~~on~~ Sheet 25.

Owner's Signature

Sworn to before me this

15 **day of** May, 2023

Notary Public – affix stamp

FELIX E REYES MOTA
Notary Public - State of New York
NO. 01RE6429254
Qualified in Orange County
My Commission Expires Feb 7, 2026

Revised 2-2019

TOWN OF LEWISBORO PLANNING BOARD

79 Bouton Road, South Salem, NY 10590
Email: planning@lewisborogov.com
Tel: (914) 763-5592 Fax: (914) 875-9148

Tax Payment Affidavit Requirement

This form must accompany all applications to the Planning Board.

Under regulations adopted by the Town of Lewisboro, the Planning Board may not accept any application unless an affidavit from the Town of Lewisboro Receiver of Taxes is on file in the Planning Board office. The affidavit must show that all amounts due to the Town of Lewisboro as real estate taxes and special assessments on the total area encompassed by the application, together with all penalties and interest thereon, have been paid.

Under New York State law, the Westchester County Clerk may not accept any subdivision map for filing unless the same type of affidavit from the Town of Lewisboro Receiver of Taxes is submitted by the applicant at the time of filing.

This form must be completed by the applicant and must accompany all applications to the Planning Board. Upon receipt, the Planning Board Secretary will send the form to the Receiver of Taxes for signature and notarization. If preferred, the applicant may directly obtain the signature of the Receiver of Taxes and notarization prior to submission.

To Be Completed by Applicant
(Please type or print)

Alex Bernabo
w-Designe, Inc.
Name of Applicant

96 Post Office Rd
Project Name

Property Description 10812

Tax Block(s): ~~43.1, 1-2~~

Tax Lot(s): 3

Tax Sheet(s): 25

Property Assessed to:

wDesigne, Inc
Name
3867 Danbury Rd
Address
Brewster NY 10509
City *State* *Zip*

The undersigned, being duly sworn deposes and says that a search of the tax records in the office of the Receiver of Taxes, Town of Lewisboro, reveals that all amounts due to the Town of Lewisboro as real estate taxes and special assessments, together with all penalties and interest thereon, affecting the premises described below, have been paid.

Signature, Receiver of Taxes: Deputy Anne Bacot 5/15/23
Date

Sworn to before me this
15 **day of** May, 2023

Janet L Donohue

JANET L. DONOHUE
NOTARY PUBLIC, STATE OF NEW YORK
No. 01DO6259627
Qualified in Westchester County
Commission Expires April 16, 2026

Signature - Notary Public (affix stamp)

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

Area Wetland Impact Table

Residence & Garage & Deck

Sediment Trap:
Well and water line
Subtotal: 9.306 sf = 0.213 acres

Wetland Buffer Area – 100 ft
Subtotal: 13,471 sf = 0.309 acres

Total Site Disturbance: 0.52 acres

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 gravel driveway and individual well and individual subsurface sewage disposal system (OWTS) with 12' of fill, 1,000 gal. septic tank and 1,000 gal. pump tank.

Name of Applicant or Sponsor:	Telephone: 845-278-2110
Peder Scott, P.E., R.A.	E-Mail: pwscott@pwscott.com

Address:
PW Scott Engineering & Architecture, PC

City/PO:	State:	Zip Code:
Brewster	NY	10509

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

3. a. Total acreage of the site of the proposed action? 4.04 acres
   b. Total acreage to be physically disturbed? 0.45 acres
   c. Total acreage (project site and any contiguous properties) owned or controlled by the applicant or project sponsor? 4.04 acres

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

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

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

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

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

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

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

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

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

	NO	YES
13. a. Does any portion of the site of the proposed action, or lands adjoining the proposed action, contain wetlands or other waterbodies regulated by a federal, state or local agency?	☑	☐
b. Would the proposed action physically alter, or encroach into, any existing wetland or waterbody?	☑	☐
If Yes, identify the wetland or waterbody and extent of alterations in square feet or acres: _____ Local wetland. Waterbody Tributary to NYSDEC River - 864-317 Class A (T)		

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

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

☑ Wetland ☐ Urban ☐ Suburban

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

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

Applicant/sponsor name: Peder Scott, P.E., R.A. Date: April 5, 2023

Signature: Title: Engineer

PRINT FORM

New York City
Department of Environmental Protection

INDIVIDUAL RESIDENTIAL STORMWATER PLAN DETERMINATION

Pursuant to the authority granted under:

Article 11 of the New York State Public Health Law.
Rules and Regulations for The Protection from Contamination, Degradation and Pollution of The New York City Water Supply and Its Sources, 15 RCNY Chapter 18, 10 NYCRR Part 128.

New York City Department of Environmental Protection (DEP) makes the following determinations with respect to the individual residential stormwater permit (IRSP) described below:

Name of Project: 96 Post Office Road

Location: Tax Map # 43.1-1-2
96 Post Office Road
Town of Lewisboro
Westchester, New York

Owner: Alex Bernabo

Address: 3867 Danbury Road
Brewster, New York 10509

Drainage Basin: Cross River Reservoir Basin

General Description:

The project proposes the construction of a single family residence in the Town of Lewisboro, Westchester County. An Individual Residential Stormwater Permit (IRSP) is required for the project by Section §18-39 (e)(1)(i) of the "Rules and Regulations for the Protection from Contamination, Degradation and Pollution of the New York City Water Supply and Its Sources" (Watershed Regulations) as the proposed residence is within 100 feet of a watercourse. The total disturbance is approximately 0.45 acres with 3,200 square feet of impervious surfaces proposed. The proposed stormwater management practice, a 31' x 20' concrete planter, will capture and treat runoff from the proposed impervious surfaces.

The entire 4.04-acre site is situated in the Town of Lewisboro, Westchester County, New York. The project site is identified Tax Map # 43.1-1-2 on the Town of Lewisboro Tax Maps and is located in the Town's residential zoning district.

The Individual Residential Stormwater Permit (IRSP) shall be implemented in accordance with the Individual Residential Stormwater Report dated April 6, 2023, and set of drawings prepared

INDIVIDUAL RESIDENTIAL STORMWATER PLAN DETERMINATION

for 96 Post Office Road, Town of Lewisboro, Westchester County, New York, revised March 30, 2023, prepared by Peder W. Scott, P.E.

Date(s) of site inspection:
October 2002

(XX) Approved ( ) Denied

Conditions of Approval:

This approval is granted with the following conditions:

- The regulated activity must be conducted in compliance with the plans as approved, listed in Appendix A, all applicable accepted standards, and all applicable laws, rules, and regulations.

- Any alteration or modification of the IRSP must be approved by DEP prior to implementation; DEP may opt to issue an amended IRSP Determination.

- The applicant must schedule a pre-construction conference prior to the start of construction. Present at the meeting should be the applicant, the design engineer, the general contractor, and DEP staff.

- The applicant must notify DEP at least forty-eight (48) hours prior to the commencement of construction activity so that compliance inspections may be scheduled by DEP.

- All erosion and sediment controls must be properly installed and maintained until the site has been stabilized and the risk of erosion eliminated. Final stabilization is defined in the General Permit as all soil disturbing activities at the site have been completed, and that a uniform perennial vegetative cover with a density of 80% cover for the area has been established or equivalent stabilization measures (such as the use of mulches or geotextiles) have been employed.

- At the completion of the project, the applicant is required to submit as-built drawings for all stormwater management, runoff reduction and water quality facilities.

- The stormwater management and water quality facilities must be maintained in accordance with the maintenance schedule included in the IRSP as approved by DEP.

- This approval shall expire and thereafter be null and void unless construction is completed within two (2) years of the date of issuance or within any extended period of time approved by DEP upon good cause shown.

- In the event that the material submitted is inaccurate or misleading, this approval is not valid, and construction of this project is in violation of DEP regulations.

- Failure to comply with any of the conditions of this approval is a violation of this approval and the *Rules and Regulations for The Protection from Contamination, Degradation and Pollution of The New York City Water Supply and Its Sources*.

- A copy of the approved plans and determination should be maintained for record, and a copy must be available for inspection at the construction site.

- DEP shall be provided access to the project site during the construction phase for monitoring and inspection purposes.

- This approval and all conditions of the approval are binding on the owner of the property where the facility is to be located. Any references to the "applicant" in this approval or in any conditions of this approval shall be deemed to refer to the owner of such property.

- If the applicant sells or otherwise transfers title of **96 Post Office Road** before all construction planned for the property is completed and the site is stabilized, the applicant shall require the new owner ("Buyer") to comply with the IRSP approved by the New York City Department of Environmental Protection on December 15, 2021 including, but not limited to, conservation easements, negative covenants, all provisions relating to erosion and sediment control during construction and to all maintenance of the stormwater management facilities once construction is complete. In particular, the applicant shall provide the Buyer with a copy of the IRSP and shall cause the following real covenants and restrictions to be recorded with the deed for **96 Post Office Road** with the following provisions:

  (1) Buyer hereby acknowledges, covenants, warrants, and represents that he/she shall install and maintain any and all erosion controls and stormwater management facilities on the premises in accordance with the IRSP, such IRSP being attached hereto as Exhibit __.

(2) Buyer's installation and maintenance of the erosion control and stormwater management facilities shall be for the benefit of the City of New York as well as for the owners of **96 Post Office Road, Town of Lewisboro, Westchester County, NY.**

(3) Buyer's obligation to install and maintain any and all erosion controls and stormwater management facilities on the premises in accordance with the attached IRSP shall be perpetual, shall run with the land, and shall be binding on Buyer's heirs, successors, and assigns.

(4) Buyer hereby covenants, warrants and represents that any lease, mortgage, subdivision, or other transfer of **96 Post Office Road, Town of Lewisboro, Westchester County, NY,** IRSP, or any interest therein, shall be subject to the restrictive covenants contained herein pertaining to the installation and maintenance of erosion control and stormwater management facilities, and any deed, mortgage, or other instrument of conveyance shall specifically refer to the attached SWPPP and shall specifically state that the interest thereby conveyed is subject to covenants and restrictions contained herein.

- Prior to conveying title to **96 Post Office Road, Town of Lewisboro, Westchester County, NY**, the applicant shall submit to the New York City Department of Environmental Protection a proposed deed containing the aforementioned real covenants and restrictions.

Date: June 13, 2023

Determination made by:

Danny Shedlo, P.E.
Section Chief
EOH Project Review Group
Regulatory & Engineering Programs

APPENDIX A

The following documents were prepared by Peder W. Scott, P.E.:

1. Individual Residential Stormwater Report, prepared for 96 Post Office Road, Town of Lewisboro, Westchester County, New York, dated March 28, 2023.

2. Drawing SY-1 titled "IRSP Erosion Control Plan" prepared for 96 Post Office Road, Town of Lewisboro, Westchester County, New York, dated March 30, 2023.

3. Drawing SY-2 titled "Concrete Planter Details" prepared for 96 Post Office Road, Town of Lewisboro, Westchester County, New York, dated March 30, 2023.

4. Drawing D-1 titled "Pre-Post Drainage Overlay" prepared for 96 Post Office Road, Town of Lewisboro, Westchester County, New York, dated September 20, 2021.

NYC Environmental Protection

Rohit T. Aggarwala
Commissioner

Paul V. Rush, P.E.
Deputy Commissioner

P.O. Box 358
Grahamsville, NY 12740

Tel. (845) 340-7800
Fax (845) 334-7175
prush@dep.nyc.gov

June 13, 2023

Mr. Peder W. Scott, P.E., R.A.
P. W. Scott Engineering & Architecture, PC
3871 Danbury Road
Brewster, New York 10509

Re: 96 Post Office Road - IRSP
Tax Map# 43.1-1-2
(T) Lewisboro; (C) Westchester
East Branch Reservoir Drainage Basin
DEP Log #1998-CR-0637-IR.2

Dear Mr. Scott:

This letter is to inform you that your application to engage in the above referenced regulated activity pursuant to the "Rules and Regulations for the Protection from Contamination, Degradation, and Pollution of the New York City Water Supply and its Sources" (Regulations) was *approved* on June 13, 2023.

The Department reserves the right to modify, suspend, or revoke this approval based on the grounds set forth in Section §18-26 of the Regulations.

The activity proposed in your application only applies to the terms of this approval and are subject to the Regulations cited above. Failure to comply with the conditions of the approval may be the cause for suspension of this approval and initiation of an enforcement action. Should modification, suspension or revocation of an approval be necessary, DEP will notify the regulated party, via mail or personal service, prior to modifying, suspending, or revoking the approval. The notice will state the alleged facts or conduct which appear to warrant the intended action and explain the procedures to be followed.

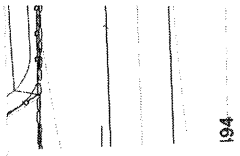
The Regulations provide that an applicant may appeal the imposition of a substantial condition in an approval by filing a petition, in writing, with NYC DEP and with the New York City Office of Administrative Trials and Hearings ("OATH") within thirty (30) days of the date if this determination was mailed.

If you have any questions, please contact the undersigned at (914)749-5266.

Sincerely,

Danny Shedlo, P.E.
Section Chief
EOH - Regulatory & Engineering Programs

c: Town of Lewisboro Planning Board – *planning@lewisborogov.com*
Natalie S. Browne, NYS DEC – *natalie.browne@dec.ny.gov*



UE @ 140#/ACRE; .3.3#/1000 SF.
. RYE @ 33#/ACRE; .0.7#/1000 SF.
SS BLEND @ 44#/ACRE; .1.0#/1000 SF.

; SPECIFICATIONS

MULCH SPECIFICATIONS

CITY OF NEW YORK
DEPT. OF ENVIRONMENTAL PROTECTION
BUREAU OF WATER SUPPLY
REGULATORY AND ENGINEERING PROGRAMS

APPROVED

BJECT TO SPECIFIED CONDITIONS IN
TERMINATION DATED 6/13/23
R: Pulse Jet Soil Fr
BY: Gleason (C) Brewster
PROVED BY: [signature]
PPROVAL EXPIRATION DATE: 6/13/25

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:

OWNER: ALEX DEPNABD
wDESIGNE, INC

ADDRESS: 3867 DANBURY ROAD
BREWSTER NY 10509

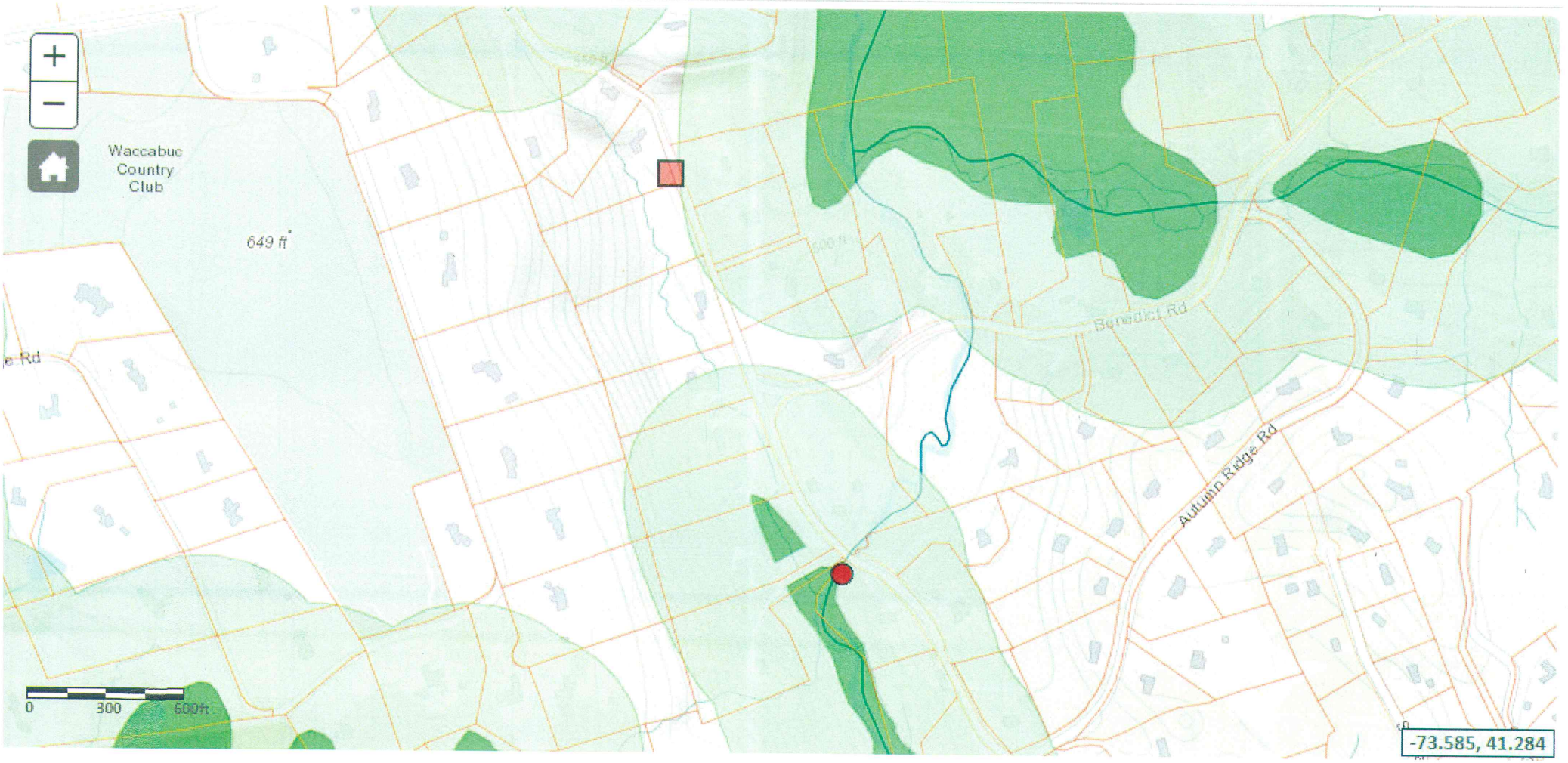
EMAIL: info@wdesigne.com

TELE #: (914)-906-1036

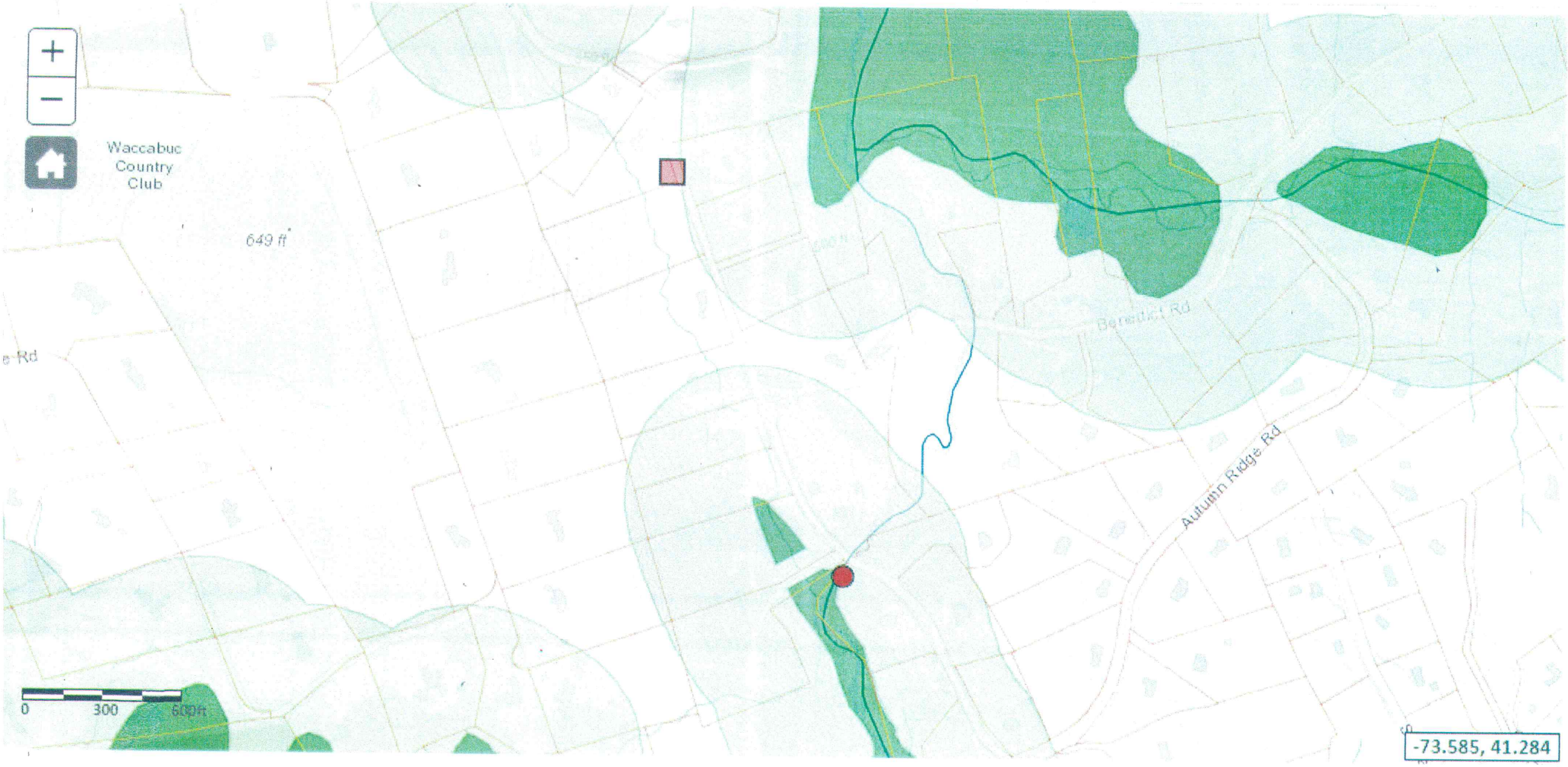
ALL SITE WORK SHALL BE COMPLETED UNDER THE DIRECT SUPERVISION OF A LICENSED ENGINEER IN THE STATE OF NEW YORK.

Maintenance and Sediment Removal
Remove material when a "bulge" develops, ensure fence extends into soil and fence upright, staple fencing
Fix fence up right and staple as required to ensure integrity.
Remove 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, fix berm blow-outs
Due to the downhill proximity of the well, it is recommended to remove the concrete off-site once curred

Title	IRSP EROSION CONTROL PLAN	Seal	Dwg. No.
ect Title	96 POST OFFICE ROAD, LEWISBORO, NY		SY1
No.	21-110	Drawn by	MA/PWS
	3/30/23	Scale	AS NOTED



NYSDEC Mapper
96 Post Office Rd, Waccabuc



NYSDEC Mapper
96 Post Office Rd, Waccabuc

Aerial Photo
96 Post Office Rd, Waccabuc

NRCS Soil Map
96 Post Office Rd, Waccabuc

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

Letter of Transmittal

To: Town of Lewisboro Planning Board
79 Bouton Rd
South Salem, NY 10590

Date: July 10, 2023

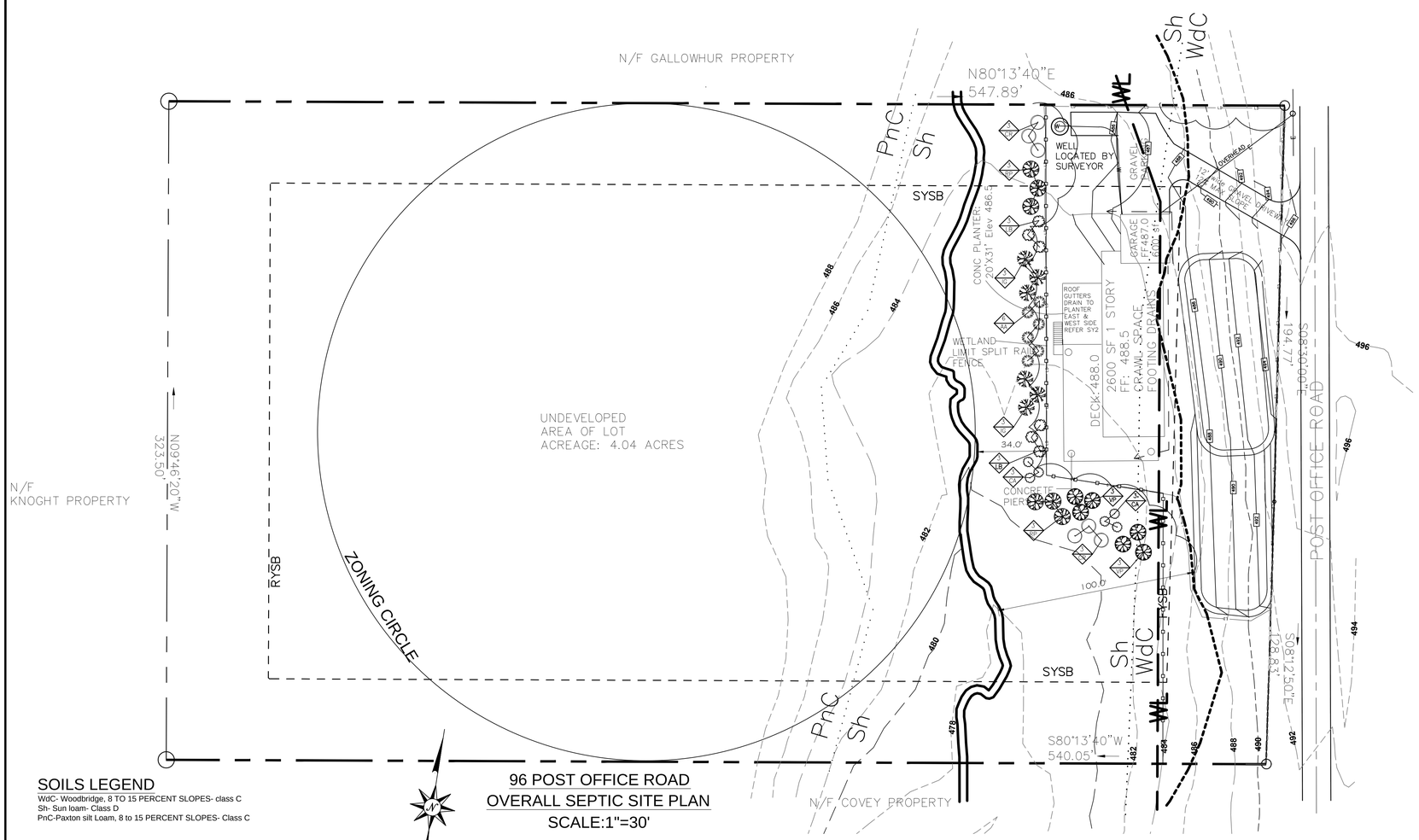
Re: 96 Post Office Rd, Waccabuc

We are sending you: ■ Attached □ Under Separate Cover via _____ the following items:
□ Drawing(s) □ Letter(s) □ Plans □ Misc Documents

Copies	Date	Pages	Description
1	6/26/23	1	wDesigne Inc ck # 5024 - $410 – Wetland Permit & Stormwater Permit Fees ($255 & $155)
1	6/26/23	1	wDesigne Inc ck # 5025 - $2,000– Escrow
4	6/20/23	1	Town Environmental Questionnaire
4	6/27/23	1	Wetland Permit Application
4	6/26/23	1	Stormwater Permit Application
4	5/15/23	1	Affidavit of Ownership (notarized)
4	5/15/23	1	Tax Payment Affidavit (notarized)
4	6/30/23	5	Ecological Solutions, LLC Wetland Assessment
4	6/27/23	1	PWS Area Wetland Impact Table
4	4/5/23	3	SFEAF
4	6/13/23	8	NYCDEP IRSP Permit Approval
4	6/27/23	1	NYSDEC Mapper (color)
4	6/27/23	1	Aerial Photo (color)
4	6/27/23	1	NRCS Soil Map (color)
4	5/25/23	3	CS, SY1, SY2 (24 x 36) (signed and stamped)
4	6/28/23	1	A-1.0 (11 x 17)

These are submitted (as checked below):
□ For Approval □ Approved as Submitted □ Re-submit _____ Copies for Approval
□ For Your Use/Records □ Approved as Noted □ As Requested
□ Returned for Corrections □ Return _____ Corrected Prints □ For Review & Comment

Remarks: _____Fed Ex_____
Copy To _____ Signed _____

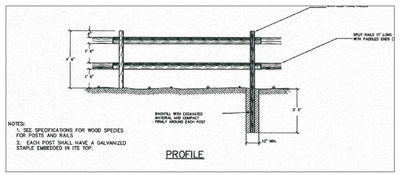


96 POST OFFICE ROAD
OVERALL SEPTIC SITE PLAN
SCALE:1"=30'

VICINITY MAP
1" = 500'

SOILS LEGEND

WdC- Woodbridge, 8 TO 15 PERCENT SLOPES- class C
Sh- Sun loam- Class D
PnC-Paxton silt Loam, 8 to 15 PERCENT SLOPES- Class C



1 CS WETLAND SPLIT RAIL FENCE DETAIL
N.T.S.

NOTE: All wetland buffer planting shall be contained within Deer Fence for a duration of THREE (3) years minimum.

WETLAND IMPACT MITIGATION

THE EXISTING PROPERTY, SIMILAR TO THE ADJACENT PROPERTIES ALONG POST OFFICE RD., CONTAINS LOCAL WETLANDS ON THE REAR OF THE PROPERTY. THE SUBJECT LOT IS THE LAST VACANT LOT OF THIS SUBDIVISION APPROVED IN THE LATE 1970'S. THE WETLANDS INCLUDE A STREAM COURSE, AS NOTED ON THE SITE PLAN, WHICH IS NOT NYSDEC REGULATED. THE WETLANDS CONSIST OF A HEAVILY WOODED SITE WITH AN UNDERSTORY OF SYMPLOCARPUS FOETIDUS (SKUNK CABBAGE) AND IS IN GOOD CONDITION. ACCORDINGLY, SITE MITIGATION FOR THE DISTURBANCES IS PROPOSED AS FOLLOWS:

1. SPLIT RAIL FENCE ALONG THE EDGE OF THE LOT DISTURBANCE TO PREVENT ENTRY INTO THE WETLAND.
2. PERMANENT STONE OUTLET SEDIMENT TRAP TO TREAT ANY DRIVEWAY DRAINAGE.
3. CONCRETE PLANTER TO TREAT BUILDING ROOF RUNOFF IN COMPLIANCE WITH NYCDEP & NYSDEC IRSP.
4. BUFFER PLANTS BEYOND THE SPLIT RAIL FENCE AS ON THE CHART PROVIDED.
5. SINCE THESE PLANTS ARE WITHIN THE WETLAND, A REPLACEMENT OF 1/1 (.21 ACRES) REPLACEMENT OF WETLAND PLANTS IS NOT FEASIBLE. IT IS PROPOSED TO PROVIDE OFFSITE WETLAND MITIGATION TO THE SATISFACTION OF THE TOWN OF LEWISBORO CONSERVATION ADVISORY COUNCIL.

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 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.

Stream Buffer Plants

SYM	Quant.	Botanical Name	Common Name	Caliper/Cont.	Spacing
Shrubs					
AA	6	*Amelanchier arborea*	Common serviceberry	2 gal.	5'
CA	6	*Clethra alnifolia*	Sweet pepperbush	2 gal.	5'
CR	6	*Cornus racemosa*	Gray dogwood	2 gal.	6'
IG	6	*Ilex glabra*	Inkberry	2 gal.	8'
LB	6	*Lindera benzoin*	Spicebush	2 gal.	6'
RP	6	*Rhododendron periclymenoides*	Pinkster azalea	2 gal.	8'
VP	6	*Vaccinium pallidum*	Blue Ridge blueberry	2 gal.	8'
	42				

SUPPLEMENTAL PLANTINGS

THE PLANTINGS SHALL BE INSPECTED AND SUPPLEMENTAL PLANTINGS ADDED AFTER TWO YEAR GROWING PERIOD IF 85% COVERAGE IS NOT ACHIEVED WITH THE PLANTINGS NOTED ABOVE. THE PERMITTEE SHALL TAKE ALL NECESSARY STEPS TO ENSURE A LEVEL OF SURVIVAL AND REPLANT AND REGRADE WITH TOPSOIL, IF NECESSARY.

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

LEGEND

PL PROPERTY LINE
468 EXISTING CONTOUR
× 463.3 EXISTING SPOT ELEVATION
(472) PROPOSED CONTOUR
HP HIGH POINT IN GRADE
X (463.3) PROPOSED SPOT ELEVATION
PT# PERCOLATION TEST HOLE
DT# DEEP TEST HOLE
WETLAND SPLIT RAIL FENCE

RD/FD ROOF AND FOOTING DRAIN
SOIL BOUNDARY
SF SF SILT FENCE
EXISTING CATCH BASIN
PROPOSED SWALE
WL WL WL WATER LINE
EXISTING WELL
STREAM 100' SETBACK LINE

LEGEND

QUANTITY
SPECIES
PLANT SYMBOLS
DEER FENCING ADJACENT TO SPLIT RAIL FENCE

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	713.0*
Front - Front Lot Line	50.0	54.0
Side Setback:	50.0	53.51
Rear Setback:	50.0	439.14
Max. Building Steel		
Stories	2.5 Stories	1 Story
Feet	35 Feet	22 Feet
Max. Building Coverage:		
House & Planter Footprint: 3,780 sf	6.0%	2.10%
Treatment Planter: 584 sf (included in coverage)		
Including Deck: 1500 sf		3.0%

Disturbances Proposed		
Wetland:	0.215 acre	house & planter
Upland areas:	0.53 acre	driveway & SSDS Area

DRAWING LIST

		Issue Date		
#	Drawing	5/30/2023		
CS	COVER SHEET	X		
SY1	IRSP EROSION CONTROL PLAN	X		
SY2	CONCRETE PLANTER DETAILS	X		
SP1	SEPTIC PLAN - NEW CONSTRUCTION	X		

PROPERTY IDENTIFICATION

OWNER: ALEX BERNABO
wDESIGNE, INC.

ADDRESS: 3867 DANBURY ROAD
BREWSTER NY 10509

E911 # : 96 POST OFFICE ROAD, LEWISBORO

LEWISBORO 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

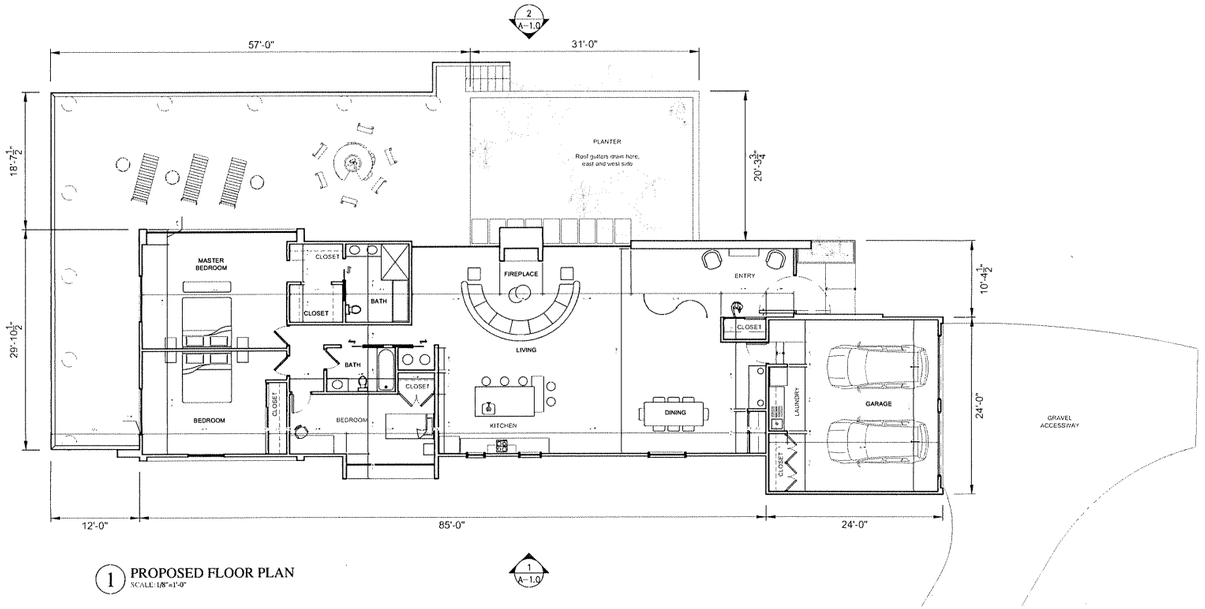
NOTE: DO NOT SCALE DRAWINGS DIMENSIONS SUPERCEDE SCALE

P. W. SCOTT
ENGINEERING & ARCHITECTURE, P.C.
3871 ROUTE 6
BREWSTER, NY 10509 845-278-2110

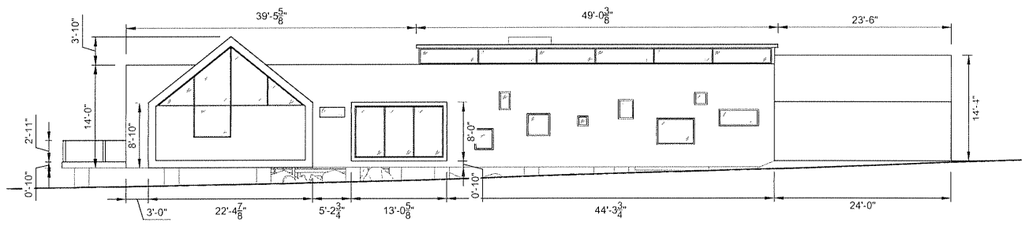
Revisions

No.	Date	Description

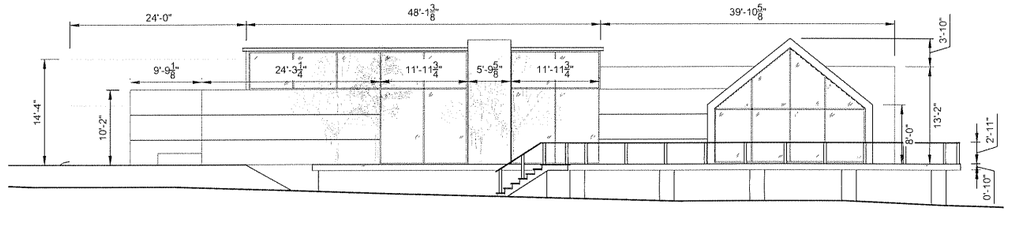
Dwg. Title COVER SHEET
Project Title 96 POST OFFICE ROAD LEWISBORO, NY
Proj. No. 21–110
Drawn by MA/PWS
Date 5/25/23
Scale AS NOTED
Seal
Dwg. No. CS



1 PROPOSED FLOOR PLAN
SCALE: 1/8"=1'-0"



2 SOUTH ELEVATION
SCALE: 1/8"=1'-0"



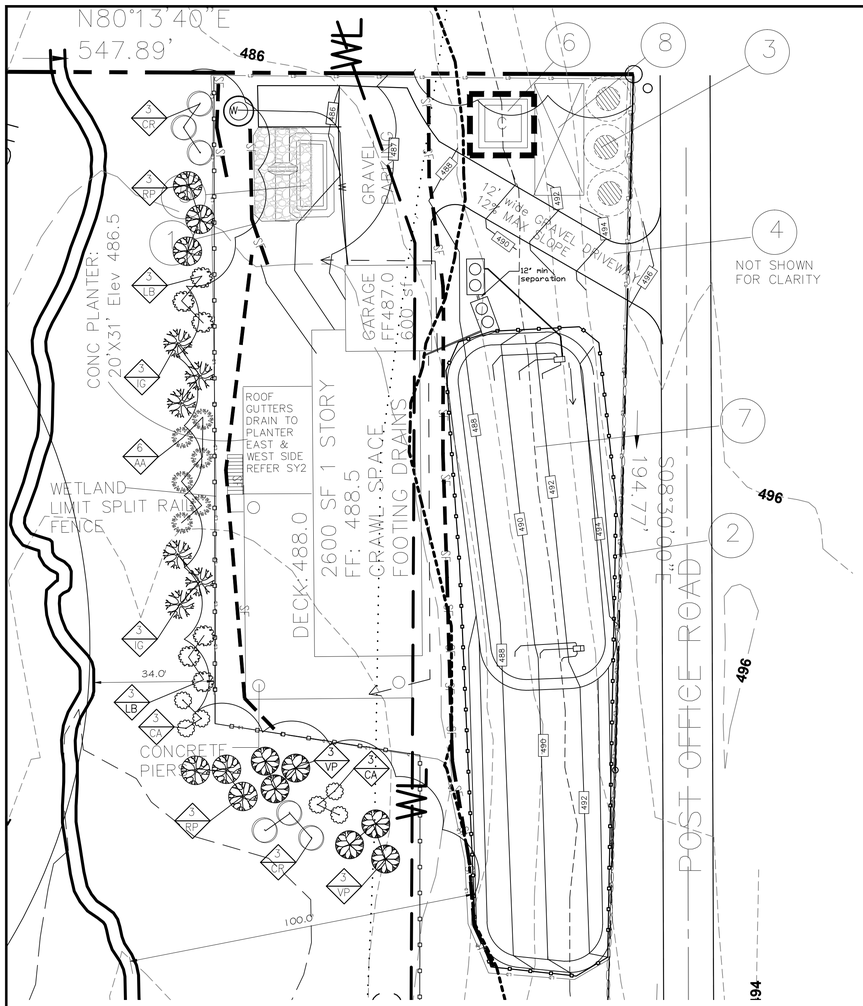
3 NORTH ELEVATION
SCALE: 1/8"=1'-0"

DATE: 06/28/2023	
DRAWN BY: M. ORDONEZ	
ARCHITECT:	
ZONE: XXXX — SEC: 00.0 BLK: 00 LOT: 00	
PROPOSED GROUND LEVEL FLOOR PLAN AND ELEVATIONS	A-1.0

SD DESIGN
WHITE PLAINS, NY 10606
(914) 879-5411

NUNZIO PIETROSANTI
CONSULTING ENGINEER
63 DOVER LANE
YONKERS, NEW YORK 10710
(914) 760-0528

BERNABO RESIDENCE
POST OFFICE ROAD
WACCABUC, NY

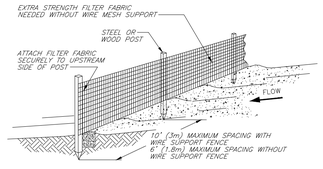


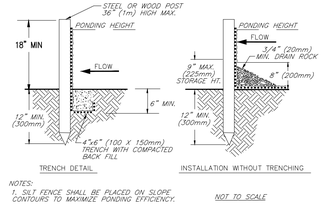
EROSION CONTROL LEGEND

NO.	SYMBOL	DESCRIPTION	STATUS
1	SF SF	SILT FENCE	TEMPORARY SEE DET. 1/SY1 PLACE PARALLEL TO GRADE-CONTOURS
2		CONSTRUCTION FENCE	AROUND EDGE SEPTIC FILL: SEE DET.2/SY1
3		TOPSOIL STOCKPILE AREA	TEMPORARY SEE DET. 3/SY1 RING WITH SILT FENCE
4		CONSTRUCTION ENTRANCE	TEMPORARY SEE DET. 4/SY1 PLACE @ EA. POINT OF ENTRY INTO SITE
5		STONE OUTLET SEDIMENT TRAP	PERMANENT SEE DET. 5/SY1
6		CONCRETE PUMP OUT TRAP	TEMPORARY SEE DET. 6/SY1
7		SEED & MULCH SPECIFICATIONS	TEMPORARY SEE DET. 7/SY1
8		STORAGE AREA	
9	LD	LIMIT OF DISTURBANCE	

Maintenance Schedule – During Construction – Temporary Structures

_	Component	MINIMUM Inspection Required	After Every Storm Event	Item to Inspect	Sediment Removal Req'd	Special Inspection Items **Inspect the following:**	Maintenance and Sediment Removal
1	Silt Fence	Bi-Weekly	X	Woven Wire Fence Alignment	Yes	Woven Wire & Fence Stability	Remove material when a "bulge" develops, ensure fence extends into soil and fence upright, staple fencing
2	Construction Fence	Bi-Weekly		Fence Woven Wire Conditions	None	Fence posts and grid	Fix fence up right and staple as required to ensure integrity.
3	Topsoil Stockpile Area	Bi-Weekly	X	Soil Pile Condition	None	Silt Fence at Base of Pile to be inspected and seeding reviewed.	Remove material when a "bulge" develops, ensure fence extends into soil and fence is upright, staple fencing
4	Construction Entrance	Weekly	X	Stone Placement	None	Stone Placement & soil deposit between stones	Repair Top Dressing with additional aggregate and correct stone placement.
5	Stone Outlet Sediment Trap	Bi-Weekly	X	Stone Placement & Location	Yes	Stone & Sediment Accumulation	Bi-weekly, remove sediment, set stones to correct profile, fix berm blow-outs
6	Concrete Pump Out	Monthly	X	Soil Stability	None	Once filled topsoil, seed & mulch	Due to the downhill proximity of the well, it is recommended to remove the concrete off-site once curred



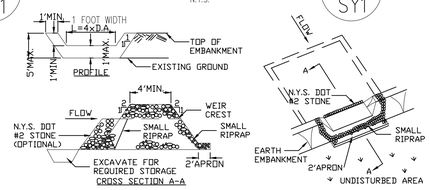


NOTES:
1. SILT FENCE SHALL BE PLACED ON SLOPE CONTOURS TO MAXIMIZE PONDING EFFICIENCY.
2. INSPECT AND REPAIR FENCE AFTER EACH STORM EVENT AND REMOVE SEDIMENT WHEN NECESSARY. 9" (225mm) MAXIMUM RECOMMENDED STORAGE HEIGHT.
3. REMOVED SEDIMENT SHALL BE DEPOSITED TO AN AREA THAT WILL NOT CONTRIBUTE SEDIMENT OFF-SITE AND CAN BE PERMANENTLY STABILIZED.

NOT TO SCALE

1 SY1 SILT FENCE– STANDARD ONLY

N.T.S.



OPTION: A ONE FOOT LAYER OF N.Y.S. DOT #2 STONE MAY BE PLACED ON THE UPSTREAM SIDE OF THE RIPRAP INPLACE OF THE EMBEDDED FILTER CLOTH.

CONSTRUCTION SPECIFICATIONS

1. AREA UNDER EMBANKMENT SHALL BE CLEARED, GRUBBED AND STRIPPED OF ANY VEGETATION AND ROOT MAT. THE POOL AREA SHALL BE CLEARED.
2. THE FILL MATERIAL FOR THE EMBANKMENT SHALL BE FREE OF ROOTS AND OTHER WOODY VEGETATION AS WELL AS OVER-SIZED STONES, ROCKS, ORGANIC MATERIAL OR OTHER OBJECTIONABLE MATERIAL. THE EMBANKMENT SHALL BE COMPACTED BY TRAVERSING WITH EQUIPMENT WHILE IT IS BEING CONSTRUCTED.
3. ALL CUT AND FILL SLOPES SHALL BE 2:1 OR FLATTER.
4. THE STONE USED IN THE OUTLET SHALL BE SMALL RIPRAP 4"-8" ALONG WITH A 1' THICKNESS OF 2" AGGREGATE PLACED ON THE UP-GRADE SIDE ON THE SMALL RIPRAP OR EMBEDDED FILTER CLOTH IN THE RIPRAP.
5. SEDIMENT SHALL BE REMOVED AND TRAP RESTORED TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED TO 1/2 THE DESIGN DEPTH OF THE TRAP.
6. THE STRUCTURE SHALL BE INSPECTED AFTER EACH RAIN AND REPAIRS MADE AS NEEDED.
7. CONSTRUCTION OPERATIONS SHALL BE CARRIED OUT IN SUCH A MANNER THAT EROSION AND WATER POLLUTION IS MINIMIZED.
8. THE STRUCTURE SHALL BE REMOVED AND THE AREA STABILIZED WHEN THE DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.

MAXIMUM DRAINAGE AREA 5 ACRES

STONE OUTLET SEDIMENT TRAP CHART

TRAP #	LOCATION	DRAINAGE AREA	REQ'D VOL (CF)	OUTLET WIDTH	DEPTH	TOP DIMENSION L WIDTH W
1	DRIVEWAY	0.10	360	1.0 FEET	3.0	12x25

VOL= .4 AREA (DEPTH)

5 SY1 SEQUENCE OF CONSTRUCTION

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

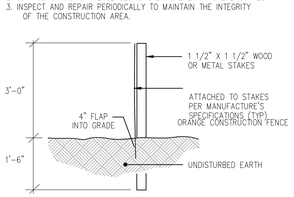
1. Pre-application meeting with Town of Lewisboro Town Engineer/MS4 Agent, Contractor & Engineer and NYCDEP for IRSP for project scheduling and final plan coordination. There are no NYSDEC wetlands, wetland approval on local basis.
2. File NYSDEC NOI Forms with start dates
3. E.O.R. to complete NYSDEC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

GENERAL SPECIFICATIONS

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.

2 SY1 CONSTRUCTION FENCE

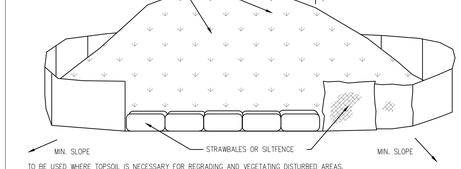
N.T.S.



NOTES:
1. SPACING MAY VARY AS PER MANUFACTURERES RECOMMENDATIONS. MAXIMUM SPACING IS 6'-0".
2. JOIN CONSTRUCTION FENCE SECTIONS BY OVERLAPPING END STAKES.
3. INSPECT AND REPAIR PERIODICALLY TO MAINTAIN THE INTEGRITY OF THE CONSTRUCTION AREA.

3 SY1 SOIL STOCKPILE

N.T.S.



NOTES:
1. AREA CHOSEN FOR STOCKPILING OPERATIONS SHALL BE DRY AND STABLE.
2. MAXIMUM SLOPE OF STOCKPILE SHALL BE 2:1.
3. UPON COMPLETION OF SOIL STOCKPILING, EACH PILE SHALL BE SURROUNDED WITH EITHER SILT FENCING OR STRAWBALES, THEN STABILIZED WITH VEGITATION OR COVERED.

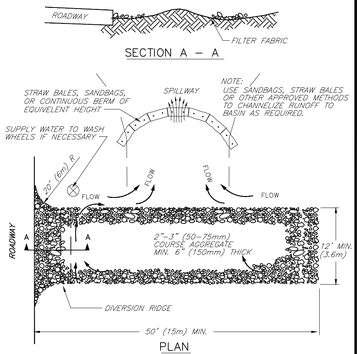
TO BE USED WHERE TOPSOIL IS NECESSARY FOR REGRADING AND VEGETATING DISTURBED AREAS. TOPSOIL IS APPLIED TO SUBSOILS THAT ARE DRAUGHTY (HAVING LOW AVAILABLE MOISTURE FOR PLANTS), STONEY, SALTY, HAVE LOW PERMEABILITY, OR ARE EXTREMELY ACID. IT IS ALSO USED TO BACKFILL AROUND SHRUB AND TREE TRANSPLANTS. PRESERVATION OF EXISTING TOPSOIL IS BENEFICIAL FOR ALL TYPES OF LAWN OR ORNAMENTAL PLANTINGS.

TEMPORARY STOCKPILE STABILIZATION MEASURES INCLUDE VEGETATIVE COVER, MULCH, NONVEGETATIVE COVER, AND PERIPHERAL SEDIMENT TRAPPING BARRIERS. THE STABILIZATION MEASURE(S) SELECTED SHOULD BE APPROPRIATE FOR THE TIME OF YEAR, SITE CONDITIONS, AND REQUIRED PERIOD OF USE.

SEE EROSION AND SEDIMENT CONTROL PLAN FOR LOCATIONS.

4 SY1 CONSTRUCTION ENTRANCE

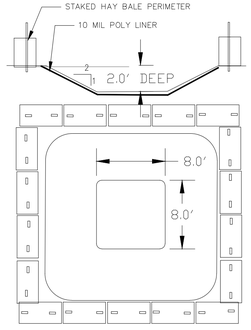
N.T.S.



NOTES:
1. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAYS. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
2. WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY.
3. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN.

6 SY1 CONSTRUCTION SPECIFICATIONS

N.T.S.



Maintenance

- All concrete washout facilities shall be inspected daily. Damaged or leaking facilities shall be deactivated and repaired or replaced immediately. Excess rainwater that has accumulated over hardened concrete should be pumped to a stabilized area, such as a grass filter strip.
- Accumulated hardened material shall be removed when 75% of the storage capacity of the structure is filled. Any excess wash water shall be pumped into a containment vessel and properly disposed of off-site.
- Dispose of the hardened material off-site in a construction/demolition landfill. On-site disposal may be allowed if this has been approved and accepted as part of the projects SWPPP. In that case, the material should be recycled as specified, or buried and covered with a minimum of 2 feet of clean compacted earth fill that is permanently stabilized to prevent erosion.
- The plastic liner shall be replaced with each cleaning of the washout facility.
- Inspect the project site frequently to ensure that no concrete discharges are taking place in non-designated areas.

7 SY1 SEEDING SPECIFICATIONS

SITE PREPARATIONS: LIME PH TO 6.0
FERTILIZER: WITH 800#/ACRE OF 5-10-10 PER ACRE;(20#/1000 SF)

TOP SOIL: 2% WEIGHT FINE TEXTURE ORGANICS
NOT LESS THAN #200 SIEVE, NOT MORE THAN 15% CLAY
FREE OF STONES:1&1.5", LESS THAN 10% GRAVEL
SOLUABLE SALTS LESS THAN 500 PPM.

APPLY: 5 INCHES MINIMUM
MULCH PER SPECIFICATIONS

TEMPORARY SEEDINGS:

SEEDING REQUIRMENTS: RYE GRASS @30#/ACRE(0.7#/1000 SF.)
WINTER CONDITION: CERTIFIED 'aroostook' winter rye(cereal rye) @100 #/acre; (2.5#/1000 sf)
required for november/october seeding

PERMANENT SEEDINGS:

ROUGH OR OCCASSIONALLY MOWED:

EMPIRE BIRDSFOOT @ 8#/ACRE; .20#/1000 SF.
TREFOIL OR COMMON WHITE CLOVER
TALL FESCUE @ 20#/ACRE; .45#/1000 SF.
REDTOP @ 2#/ACRE; .05#/1000 SF.

FREQUENTLY MOWED: SHADY DRY SITES

65% FINE FESCUE	@ 140#/ACRE; .3.3#/1000 SF.
15% PERRENIAL RYE	@ 33#/ACRE; .0.7#/1000 SF.
20% BLUE GRASS BLEND	@ 44#/ACRE; .1.0#/1000 SF.

MULCH SPECIFICATIONS

SITE PREPARATIONS:

RAKE OUT ROCKS ON THE SURFACE, REMOVE ANY WOOD STOCKPILE BEYOND AREA DISTURBANCE FOR DISPOSAL

JUTE NETTING

UNDYED, UNBLEACHED PLAINWEAVE WARP:78 END/YD.

APPLICATION RATE: 48" X 50 YDS./1000 SF.(60#ROLL/ACRE)
DEPTH APPLICATION: 60 SG. YDS.
TIE DOWN PER MANUFACTURERS SPECIFICATIONS.

BEST COMBINATION: FIBERS

STRAW(SMALL GRAINED) MULCH
APPLICATION RATE: 2 TONS (90#S/1000 SF.)
ANCHOR WITH: WOOD FIBER MULCH(HYDRO-MULCH)
APPLICATION RATE: 500-750#/ACRE(11#/1000 SF.)
THE WOOD FIBER MUST BE APPLIED THROUGH HYDRO-SEEDER IMMEDIATELY AFTER MULCHING.

ANCHORING:

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

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:

OWNER: ALEX BERNABO
wDESIGNE, INC.

ADDRESS: 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.

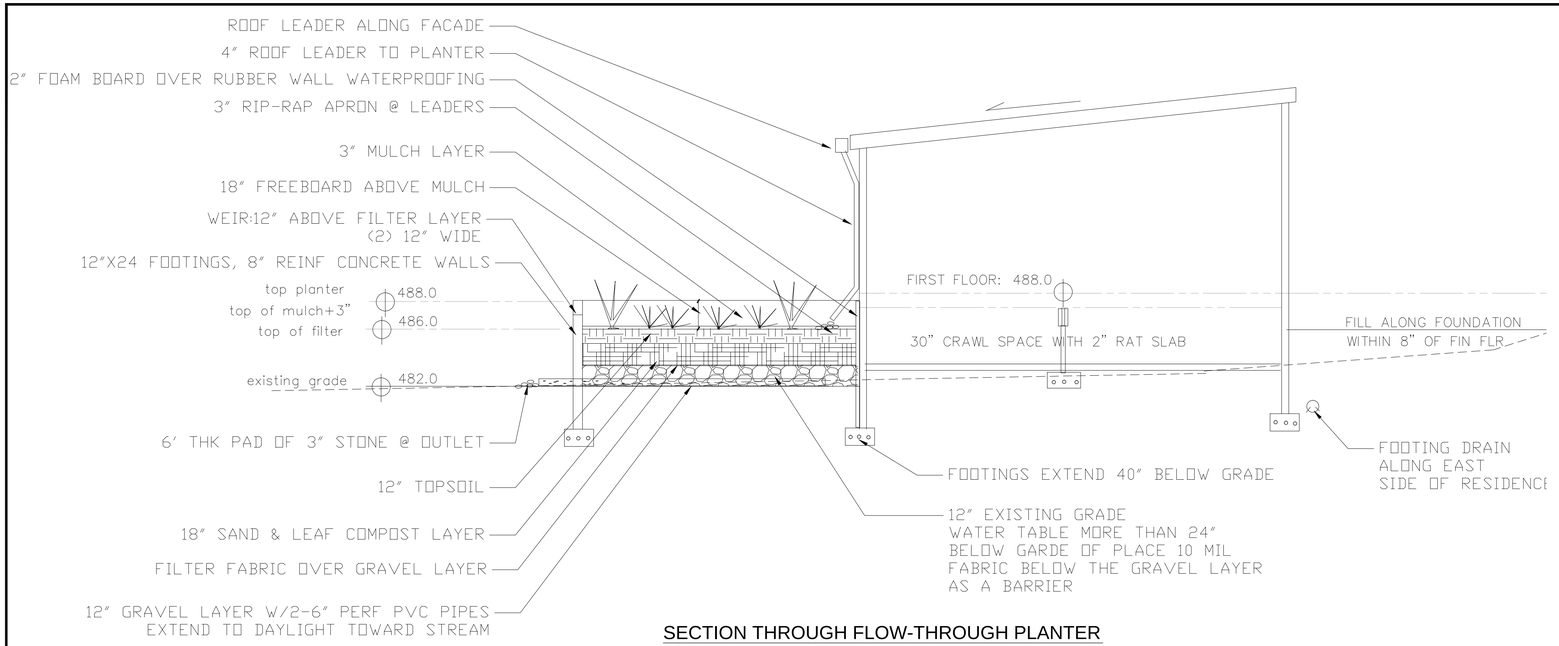
NOTE: DO NOT SCALE DRAWINGS DIMENSIONS SUPERCEDE SCALE

P. W. SCOTT
ENGINEERING & ARCHITECTURE, P.C.
SP[redacted]S
3871 ROUTE 6
BREWSTER, NY 10509 845-278-2110

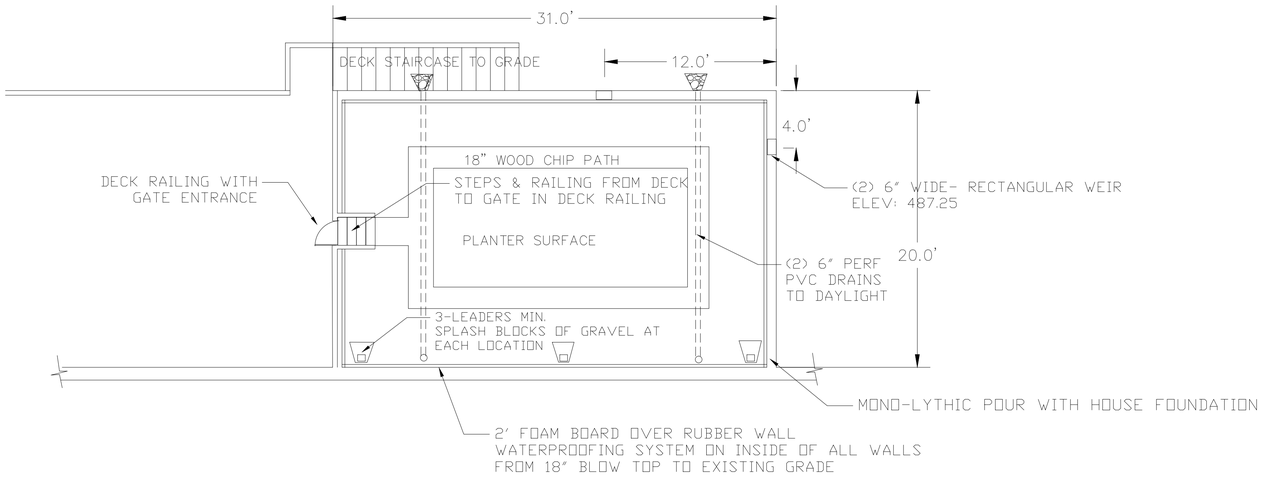
Revisions

No.	Date	Description
A	5/8/23	REVISE PER WCDOH 5/8/23 MEMO

Dwg. Title	IRSP EROSION CONTROL PLAN	Seal	Dwg. No.
Project Title	96 POST OFFICE ROAD, LEWISBORO,NY		SY1
Proj. No.	21-110	Drawn by	MA/PWS
Date	3/30/23	Scale	AS NOTED

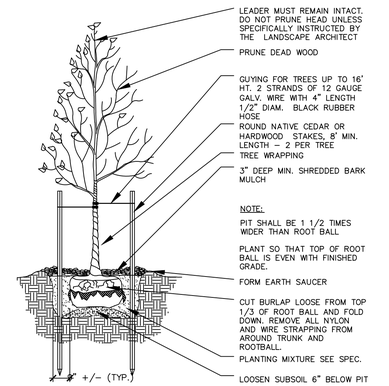


SECTION THROUGH FLOW-THROUGH PLANTER
SCALE:1"=5.0'

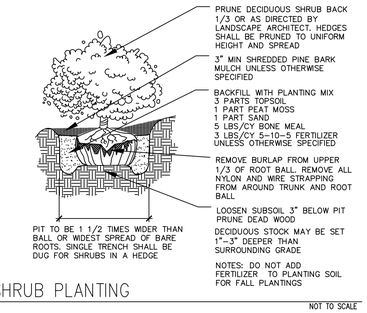


PLANTER PLAN VIEW DETAIL
SCALE:1"=5.0'

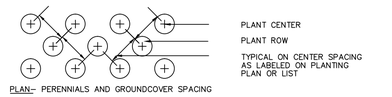
NOTE: SPECIFIC PLANT SELECTION BY OWNER

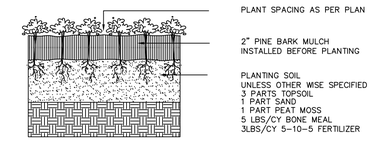


TREE PLANTING
NOT TO SCALE

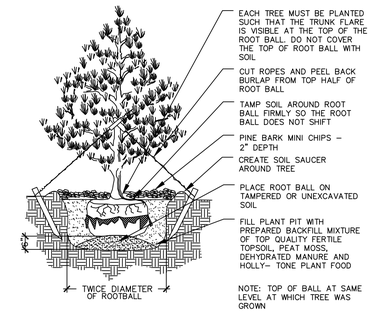


SHRUB PLANTING
NOT TO SCALE





PERENNIAL & GROUND COVER PLANTING
NOT TO SCALE



EVERGREEN PLANTING
NOT TO SCALE

PLANTING NOTES

1. NOTIFY OWNER OR LANDSCAPE ARCHITECT 72 HOURS MINIMUM IN ADVANCE OF STARTING PLANTING OPERATIONS. RECEIVE APPROVAL FOR LAYOUT OF ALL BED LINES AND MATERIAL LOCATIONS PRIOR TO INSTALLATION.

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

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 LIABILITY 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

9.0 Maintenance Practices - Temporary

Refer to table- drawing SY1

9.2.I 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 ls 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.I 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 I full, 18ö 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

NOTE: DO NOT SCALE DRAWINGS DIMENSIONS SUPERCEDE SCALE

P. W. SCOTT
ENGINEERING & ARCHITECTURE, P.C.
3871 ROUTE 6
BREWSTER, NY 10509 845-278-2110

Revisions		
No.	Date	Description
A	5/8/23	NO REVISIONS

Dwg. Title: CONCRETE PLANTER DETAILS
Project Title: 96 POST OFFICE ROAD, LEWISBORO,NY
Proj. No.: 21-110
Drawn by: MA/PWS
Date: 3/30/23
Scale: AS NOTED
Seal
Dwg. No.: SY2

96 Post Office Rd
Waccabuc, NY
(T) Lewisboro

IRSP
INDIVIDUAL RESIDENTIAL STORMWATER PERMIT

Prepared by:

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

March 28, 2023

96 Post Office Rd
Waccabuc, NY

TABLE OF CONTENTS

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)

IRSP DRAWINGS

DRAWING	SY1:	IRSP 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 (IRSP) 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 IRSP

1. Outline Owner and Contractor responsibilities to maintain compliance with SPDES GP-0-20-001, including required inspections, maintenance, forms, and certifications.
2. Outline measures to install, inspect, and maintain erosion and sediment control measures for the proposed project. The objective of these measures is to eliminate or significantly minimize pollutant discharges to the adjacent surface water bodies during construction activities.
3. Post construction water quality practices required for disturbance 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 IRSP. The Owner is also responsible to ensure that the appropriate forms and certifications contained herein are completed prior to and throughout the duration of demolition and construction activities. The Owner shall keep a copy of this document, associated attachments, and any inspection reports generated on-site for the duration of the project and for a minimum of 5 years from the date that the site achieves final stabilization. The Owner should ensure that the provisions of the IRSP 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, IRSP, 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 IRSP 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 IRSP 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 IRSP. 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 IRSP or the Contractor's implementation of the IRSP 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 IRSP. Any revision to the IRSP in design, demolition and construction activities, inspection, or maintenance shall be reflected by the Contractor in the on-site copy of the IRSP 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 IRSP 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 IRSP for additional inspection criteria.

3.0 Proposed Activity

Construction of 2,600 sf single family 2-bedroom residence with a 600 sf garage 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 (Pc) - 8 to 15 percent slopes	C
Sun Loan (Sh)	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	C	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	C	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.

Nolr: * 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 ofa 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 lo 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 3,200 sf shall have roof leaders drain to a centrally located concrete flow through planter for treatment of the stormwater in compliance with the NYSDEC Manual – 2022. The planter is 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 concrete planter with a 12" flood 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 IRSP 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 IRSP 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 impervious roof within 100' of a watercourse an IRSP 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 IRSP 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 (ONRcc 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 Stormwater Management Design Manual.

Table 6-1 NYSDEC
Uniform Sizing Criteria

Water Quality Volume (WQv)*	WQv	Detention of 1-year storm event
Channel Protection (Cpv)*	Cpv	• 24 hour extended detention of post- developed 1-year, 24-hour storm event. • Control the peak discharge from the 10-year storm to 10-year predevelopment rates. • Control the peak discharge from the 100-year storm to 100-year predevelopment rates. • Safely pass the 100-year storm event.
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 an IRSP. 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 subcatchment areas are shown on Pre- and Post-Development Drainage Maps, Drawings D1 & D2. 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: NYSDEC Manual

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 Point A				
	1 YR (cfs)	2 YR (cfs)	10 YR (cfs)	100 YR (cfs)
PRE	.48	.73	1.53	3.60
POST	.42	.64	1.33	3.40
NET	-0.6	-.09	-0.20	-0.20
%	-12%	-12%	-13%	-5.6%

NYSDEC Attenuation Requirements

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

B) 2-Year Storm Event
Peak Discharge approx. reduced to l-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 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.

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 <u>Flow Through Planter</u>

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

7.1 <u>Analysis of Site Uses</u>

Residence	Metal Roof	Impervious	3,200 sf
Driveway	Gravel	Not Impervious	1,930 sf
Septic Area	Grass Cover		5,800 sf

Remaining site uses is grass in disturbed area (8,680 sf) with the remainder of the woods or wetlands same CN number.

<u>Overall WQv Analysis</u>

Limited to area of site disturbance: 19,701 sf

WQv = PRv A/12

Where P = 1-year storm event = 2.82 inches
I = 3,200 sf roof = 0.073 acres
% I = 16.3
Rv = .05 + .009 (16.3) = .197
WQv = 2.82 (1.97) (.045) / 12
= .012 acre-ft = 907 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 = 3,200 sf Roof + 569 planter = 3,880 sf = .086
I = 3200 / 3,770 = .84
Rv = .05 + .009 (84) = .80

WQv = (2.82) (0.80) (.086) / 12 = .016 acre-ft = 696 cu ft
1-Year Storm Event (extreme precipitation)
Q @ CN = 83
Volume 1-Year = (2.40 in) (3,200 sf) = 640 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"

$$AF = \frac{WQv\ df}{k(hf + df)\ tf} = \frac{(696)\ 2.5}{(6.0)\ (.5 + 2.5)\ (0.17)} = 568 \text{ sf}$$

k = 18" leaf compost with 12" soil top = [8.6 (1.5) + 2.0 (1)] / 2.5 = 6.0
hf = 1.0 ft. / 2 = 0.5 ft
tf = 4 hrs = .17 days

Make Filter 19.2 ft wide x 29.66 ft long = 569 sf (planter outside dimensions: 20' x 31.0')
This is routed with (2) 12" weirs as overflow.
Note: Planter is more than 50.0 ft from OWTS including tank.

7.1.3 Treatment Analysis

RRv min = P Rv (imp) S/12
Rv = .95
Amp = 3,200 sf = 0.073
P = 2.82 in. 1-year storm
S Class C = 0.30
RRv = 2.82 (.95) (.073) (.3) / 12 = .005 acre-ft = 213 cf

Treatment of Roof WQv by Planter

Class C – 45% efficient
RRv = (696 cf) (.45) = 313 cf = 0.007 acre-ft

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 SP 1. 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 fence are to be used where stakes can be properly driven into the ground as per the Silt Fence Barrier Detail in the New York State Standards and Specifications for Erosion and Sediment Control and as shown on the Drawings.

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

7.3.3 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 IRSP).

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 IRSP 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 2023

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.
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 15th and June 15th; September 15th to October 15th . 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 IRSP 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 IRSP 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 IRSP 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. 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:

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

2. If soil disturbance activities have been 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 IRSP 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 IRSP 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 ls 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.

9.3 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 _____

Contractor's Scope _____

Trained Contractor's Name _____

Trained Contractor's Title _____

* The SWPPP Implementer must be a trainer contractor responsible for SPPP implementation, an employee of the firm who has received training in accordance with SPEDES GP-0-20-001.

NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

Owner/Operator Certification Form

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

Project/Site Name: 96 Post Office Rd

eNOI Submission Number: _____

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

Certification Statement - Owner/Operator

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

Alex | Bernabo

Owner/Operator First Name | M.I. Last Name

Signature _____

Date 4/4/23

APPENDIX B

Construction Inspection Logs

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

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[1] conduct an assessment of the site prior to the commencement of construction[2] 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[3] 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.

1 Refer to "Qualified Inspector" inspection requirements in the current SPDES General Permit for Stormwater Discharges from Construction Activity for complete list of inspection requirements.
2 "Commencement of construction" means the initial removal of vegetation and disturbance of soils associated with clearing, grading or excavating activities or other construction activities.
3 "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 (80) 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.

b. Pre-construction Site Assessment Checklist
(NOTE: Provide comments below as necessary)

1. Notice of Intent, SWPPP, and Contractors Certification:

Yes No NA

[ ] [ ] [ ] Has a Notice of Intent been filed with the NYS Department of Conservation?
[ ] [ ] [ ] Is the SWPPP on-site? Where?_____
[ ] [ ] [ ] Is the Plan current? What is the latest revision date?_____
[ ] [ ] [ ] Is a copy of the NOI (with brief description) onsite? Where?_____
[ ] [ ] [ ] Have all contractors involved with stormwater related activities signed a contractor's certification?

2. Resource Protection

Yes No NA

[ ] [ ] [ ] Are construction limits clearly flagged or fenced?
[ ] [ ] [ ] Important trees and associated rooting zones, on-site septic system absorption fields, existing vegetated areas suitable for filter strips, especially in perimeter areas, have been flagged for protection.
[ ] [ ] [ ] Creek crossings installed prior to land-disturbing activity, including clearing and blasting.

3. Surface Water Protection

Yes No NA

[ ] [ ] [ ] Clean stormwater runoff has been diverted from areas to be disturbed.
[ ] [ ] [ ] Bodies of water located either on site or in the vicinity of the site have been identified and protected.
[ ] [ ] [ ] Appropriate practices to protect on-site or downstream surface water are installed.
[ ] [ ] [ ] Are clearing and grading operations divided into areas <5 acres?

4. Stabilized Construction Access

Yes No NA

[ ] [ ] [ ] A temporary construction entrance to capture mud and debris from construction vehicles before they enter the public highway has been installed.
[ ] [ ] [ ] Other access areas (entrances, construction routes, equipment parking areas) are stabilized immediately as work takes place with gravel or other cover.
[ ] [ ] [ ] Sediment tracked onto public streets is removed or cleaned on a regular basis.

5. Sediment Controls

Yes No NA

[ ] [ ] [ ] Silt fence material and installation comply with the standard drawing and specifications.
[ ] [ ] [ ] Silt fences are installed at appropriate spacing intervals
[ ] [ ] [ ] Sediment/detention basin was installed as first land disturbing activity.
[ ] [ ] [ ] Sediment traps and barriers are installed.

6. Pollution Prevention for Waste and Hazardous Materials

Yes No NA

[ ] [ ] [ ] The Operator or designated representative has been assigned to implement the spill prevention avoidance and response plan.
[ ] [ ] [ ] The plan is contained in the SWPPP on page _____
[ ] [ ] [ ] Appropriate materials to control spills are onsite. Where? _____

II. CONSTRUCTION DURATION INSPECTIONS

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.

SITE PLAN/SKETCH

Inspector (print name)	**Date of Inspection**
Qualified Inspector (print name)	**Qualified Inspector Signature**

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

Maintaining Water Quality

Yes No NA

[ ] [ ] [ ] Is there an increase in turbidity causing a substantial visible contrast to natural conditions 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

1. General Site Conditions

Yes No NA

[ ] [ ] [ ] Is construction site litter, debris and spoils appropriately managed?
[ ] [ ] [ ] Are facilities and equipment necessary for implementation of erosion and sediment control in working order and/or properly maintained?
[ ] [ ] [ ] Is construction impacting the adjacent property?
[ ] [ ] [ ] Is dust adequately controlled?

2. Temporary Stream Crossing

Yes No NA

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

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

1. Excavation Dewatering

Yes No NA

[ ] [ ] [ ] Upstream and downstream berms (sandbags, inflatable dams, etc.) are installed per plan.
[ ] [ ] [ ] Clean water from upstream pool is being pumped to the downstream pool.
[ ] [ ] [ ] Sediment laden water from work area is being discharged to a silt-trapping device.
[ ] [ ] [ ] Constructed upstream berm with one-foot minimum freeboard.

Runoff Control Practices (continued)

2. Flow Spreader

Yes No NA

[ ] [ ] [ ] Installed per plan.
[ ] [ ] [ ] Constructed on undisturbed soil, not on fill, receiving only clear, non-sediment laden flow.
[ ] [ ] [ ] Flow sheets out of level spreader without erosion on downstream edge.

3. Interceptor Dikes and Swales

Yes No NA

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

4. Stone Check Dam

Yes No NA

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

5. Rock Outlet Protection

Yes No NA

[ ] [ ] [ ] Installed per plan.
[ ] [ ] [ ] Installed concurrently with pipe installation.

Soil Stabilization

1. Topsoil and Spoil Stockpiles

Yes No NA

[ ] [ ] [ ] Stockpiles are stabilized with vegetation and/or mulch.
[ ] [ ] [ ] Sediment control is installed at the toe of the slope.

2. Revegetation

Yes No NA

[ ] [ ] [ ] Temporary 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.

Sediment Control Practices (continued)

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

Yes No NA

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

Sediment accumulation ___% of design capacity.

3. Temporary Sediment Trap

Yes No NA

[ ] [ ] [ ] Outlet structure is constructed per the approved plan or drawing.
[ ] [ ] [ ] Geotextile fabric has been placed beneath rock fill.
[ ] [ ] [ ] Sediment trap slopes and disturbed areas are stabilized.

Sediment accumulation is ___% of design capacity.

4. Temporary Sediment Basin

Yes No NA

[ ] [ ] [ ] Basin and outlet structure constructed per the approved plan.
[ ] [ ] [ ] Basin side slopes are stabilized with seed/mulch.
[ ] [ ] [ ] Drainage structure flushed and basin surface restored upon removal of sediment basin facility.
[ ] [ ] [ ] Sediment basin dewatering pool is dewatering at appropriate rate.

Sediment accumulation is ___% of design capacity.

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

CONSTRUCTION DURATION INSPECTIONS

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:

APPENDIX C

Maintenance Schedule - Temporary

Maintenance Schedule – During Construction – Temporary Structures

–	Component	MINIMUM Inspection Required	After Every Storm Event	Item to Inspect	Sediment Removal Req'd	Special Inspection Items **Inspect the following:**	Maintenance and Sediment Removal
1	Silt Fence	Bi-Weekly	X	Woven Wire Fence Alignment	Yes	Woven Wire & Fence Stability	Remove material when a "bulge" develops, ensure fence extends into soil and fence upright, staple fencing
2	Construction Fence	Bi-Weekly		Fence Woven Wire Conditions	None	Fence posts and grid	Fix fence up right and staple as required to ensure integrity.
3	Topsoil Stockpile Area	Bi-Weekly	X	Soil Pile Condition	None	Silt Fence at Base of Pile to be inspected and seeding reviewed.	Remove material when a "bulge" develops, ensure fence extends into soil and fence is upright, staple fencing
4	Construction Entrance	Weekly	X	Stone Placement	None	Stone Placement & soil deposit between stones	Repair Top Dressing with additional aggregate and correct stone placement.
5	Stone Outlet Sediment Trap	Bi-Weekly	X	Stone Placement & Location	Yes	Stone & Sediment Accumulation	Bi-weekly, remove sediment, set stones to correct profile, fix berm blow-outs
6	Concrete Pump Out	Monthly	X	Soil Stability	None	Once filled topsoil, seed & mulch	Due to the downhill proximity of the well, it is recommended to remove the concrete off-site once curred

APPENDIX D

NYSDEC NOI

0644089821

NOTICE OF INTENT

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

NYR _____ (for DEC use only)

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

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.

-IMPORTANT-

RETURN THIS FORM TO THE ADDRESS ABOVE

OWNER/OPERATOR **MUST SIGN FORM**

Owner/Operator Information

Owner/Operator (Company Name/Private Owner Name/Municipality Name)
W Designe, Inc.

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

Owner/Operator Contact Person First Name
Alex

Owner/Operator Mailing Address
5 John Walsh Blvd.

City
Peekskill

State
NY

Zip
10566-

Phone (Owner/Operator)
914-906-1336

Fax (Owner/Operator)

Email (Owner/Operator)
info@wdesigne.com

FED TAX ID
13-3889569 (not required for individuals)

Project Site Information

Project/Site Name
96 Post Office Rd

Street Address (NOT P.O. BOX)

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

City/Town/Village (THAT ISSUES BUILDING PERMIT)
Waccabuc

State: NY
Zip: 10597-
County: Westchester
DEC Region: 3

Name of Nearest Cross Street
Benedict Rd

Distance to Nearest Cross Street (Feet)
2640

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

Tax Map Numbers
Section-Block-Parcel
43.1-1-2

Tax Map Numbers

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.

X Coordinates (Easting)
-73.7920
Ex. -73.749

Y Coordinates (Northing)
41.2802
Ex. 42.652

2. What is the nature of this construction project?

● **New Construction**

○ **Redevelopment with increase in impervious area**

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

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

Pre-Development Existing Land Use

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

Post-Development Future Land Use

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

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

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

Total Site Area	Total Area To Be Disturbed	Existing Impervious Area To Be Disturbed	Future Impervious Area Within Disturbed Area
4.0	0.5	0.0	0.1

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

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

A	B	C	D
%	%	75 %	25 %

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

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

Start Date	End Date
10/01/2023	12/01/2023

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

Name

NYSDEC - LFifty

9a. Type of waterbody identified in Question 9?

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

9b. How was the wetland identified?

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

10. Has the surface waterbody(ies) in question 9 been identified as a 303(d) segment in Appendix E of GP-0-20-001? ○ **Yes** ● **No**

11. Is this project located in one of the Watersheds identified in Appendix C of GP-0-20-001? ● **Yes** ○ **No**

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

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

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

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

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

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

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

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

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

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

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

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

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

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

SWPPP Preparer

PW Scott Engineering & Architecture PC

Contact Name (Last, Space, First)

Scott Peder

Mailing Address

3871 Danbury Rd

City

Brewster

State Zip

NY 10509-

Phone

845-278-2110

Fax

Email

pwscott@pwscott.com

SWPPP Preparer Certification

I hereby certify that the Stormwater Pollution Prevention Plan (SWPPP) for this project has been prepared in accordance with the terms and conditions of the GP-0-20-001. 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

Peder

MI

Last Name

Scott

Signature

Date

04 / 05 / 2023

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

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

Temporary Structural

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

Biotechnical

- ○ Brush Matting
- ○ Wattling

Vegetative Measures

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

Permanent Structural

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

Other

Post-construction Stormwater Management Practice (SMP) Requirements

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

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

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

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

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

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

Total WQv Required

		0	.	0	1	2

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 Area (acres)		Total Contributing Impervious Area (acres)
RR Techniques (Area Reduction)			
○ Conservation of Natural Areas (RR-1)		and/or	
○ Sheetflow to Riparian Buffers/Filters Strips (RR-2)		and/or	
○ Tree Planting/Tree Pit (RR-3)		and/or	
○ Disconnection of Rooftop Runoff (RR-4)		and/or	
RR Techniques (Volume Reduction)			
○ Vegetated Swale (RR-5)			
○ Rain Garden (RR-6)			
● Stormwater Planter (RR-7)			0.073
○ Rain Barrel/Cistern (RR-8)			
○ Porous Pavement (RR-9)			
○ Green Roof (RR-10)			
Standard SMPs with RRv Capacity			
○ Infiltration Trench (I-1)			
○ Infiltration Basin (I-2)			
○ Dry Well (I-3)			
○ Underground Infiltration System (I-4)			
○ Bioretention (F-5)			
○ Dry Swale (O-1)			
Standard SMPs			
○ Micropool Extended Detention (P-1)			
○ Wet Pond (P-2)			
○ Wet Extended Detention (P-3)			
○ Multiple Pond System (P-4)			
○ Pocket Pond (P-5)			
○ Surface Sand Filter (F-1)			
○ Underground Sand Filter (F-2)			
○ Perimeter Sand Filter (F-3)			
○ Organic Filter (F-4)			
○ Shallow Wetland (W-1)			
○ Extended Detention Wetland (W-2)			
○ Pond/Wetland System (W-3)			
○ Pocket Wetland (W-4)			
○ Wet Swale (O-2)			

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

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

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

Name

Manufacturer

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

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

Total RRv provided

0.007 **acre-feet**

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

○ **Yes** ● **No**

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

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

Minimum RRv Required

0.005 **acre-feet**

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

● **Yes** ○ **No**

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

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

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

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

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

WQv Provided

0.012 **acre-feet**

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

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

0.019

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

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

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

CPv Required . **acre-feet**

CPv Provided . **acre-feet**

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

○ Site discharges directly to tidal waters or a fifth order or larger stream.

○ Reduction of the total CPv is achieved on site through runoff reduction techniques or infiltration systems.

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

Total Overbank Flood Control Criteria (Qp)

Pre-Development . **CFS**

Post-development . **CFS**

Total Extreme Flood Control Criteria (Qf)

Pre-Development . **CFS**

Post-development . **CFS**

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

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

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

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

Town of Lewisboro MS4

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.

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

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

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

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

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

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

3547089826

Owner/Operator Certification

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

Print First Name

Alex

MI

Print Last Name

Bernabo

Owner/Operator Signature

Date

04 / 05 / 2023

APPENDIX E

NYSDEC MS4

NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

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

MS4 Stormwater Pollution Prevention Plan (SWPPP) Acceptance Form

for

Construction Activities Seeking Authorization Under SPDES General Permit

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

I. Project Owner/Operator Information	
1. Owner/Operator Name:	Alex Bernabo / WDesigne
2. Contact Person:	Alex Bernabo
3. Street Address:	3867 Danbury Rd
4. City/State/Zip:	Brewster, NY 10509
II. Project Site Information	
5. Project/Site Name:	96 Post Office Rd
6. Street Address:	96 Post Office Rd
7. City/State/Zip:	Waccabuc, NY 10597
III. Stormwater Pollution Prevention Plan (SWPPP) Review and Acceptance Information	
8. SWPPP Reviewed by:	
9. Title/Position:	
10. Date Final SWPPP Reviewed and Accepted:	
IV. Regulated MS4 Information	
11. Name of MS4:	
12. MS4 SPDES Permit Identification Number: NYR20A	
13. Contact Person:	
14. Street Address:	
15. City/State/Zip:	
16. Telephone Number:	

MS4 SWPPP Acceptance Form - continued

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

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

Printed Name:

Title/Position:

Signature:

Date:

VI. Additional Information

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

APPENDIX F

Short Form EAF

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 gravel driveway and individual well and individual subsurface sewage disposal system (OWTS) with 12' of fill, 1,000 gal. septic tank and 1,000 gal. pump tank.

Name of Applicant or Sponsor:	Telephone: 845-278-2110
Peder Scott, P.E., R.A.	E-Mail: pwscott@pwscott.com

Address:
PW Scott Engineering & Architecture, PC

City/PO:	State:	Zip Code:
Brewster	NY	10509

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

3. a. Total acreage of the site of the proposed action? 4.04 acres
   b. Total acreage to be physically disturbed? 0.45 acres
   c. Total acreage (project site and any contiguous properties) owned or controlled by the applicant or project sponsor? 4.04 acres

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

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

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

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

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

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

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

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

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

	NO	YES
13. a. Does any portion of the site of the proposed action, or lands adjoining the proposed action, contain wetlands or other waterbodies regulated by a federal, state or local agency?	☑	☐
b. Would the proposed action physically alter, or encroach into, any existing wetland or waterbody?	☑	☐
If Yes, identify the wetland or waterbody and extent of alterations in square feet or acres: _____ Local wetland. Waterbody Tributary to NYSDEC River - 864-317 Class A (T)		

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

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

☑ Wetland ☐ Urban ☐ Suburban

	NO	YES
15. Does the site of the proposed action contain any species of animal, or associated habitats, listed by the State or Federal government as threatened or endangered? Long Eared Bat	☐	☑
16. Is the project site located in the 100-year flood plan? Stream is beyond flood zone.	☑	☐
17. Will the proposed action create storm water discharge, either from point or non-point sources?	☐	☑
If Yes, a. Will storm water discharges flow to adjacent properties?	☐	☑
b. Will storm water discharges be directed to established conveyance systems (runoff and storm drains)?	☐	☑
If Yes, briefly describe: Discharges to wetland & stream which bisects the property.		
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:	☑	☐
19. Has the site of the proposed action or an adjoining property been the location of an active or closed solid waste management facility?	NO	YES
If Yes, describe:	☑	☐
20.Has the site of the proposed action or an adjoining property been the subject of remediation (ongoing or completed) for hazardous waste?	NO	YES
If Yes, describe:	☑	☐

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

Applicant/sponsor/name: Peder Scott, P.E., R.A. Date: April 5, 2023

Signature: _____ Title: Engineer

PRINT FORM

FIGURES

Figure 1.0
Aerial Photo

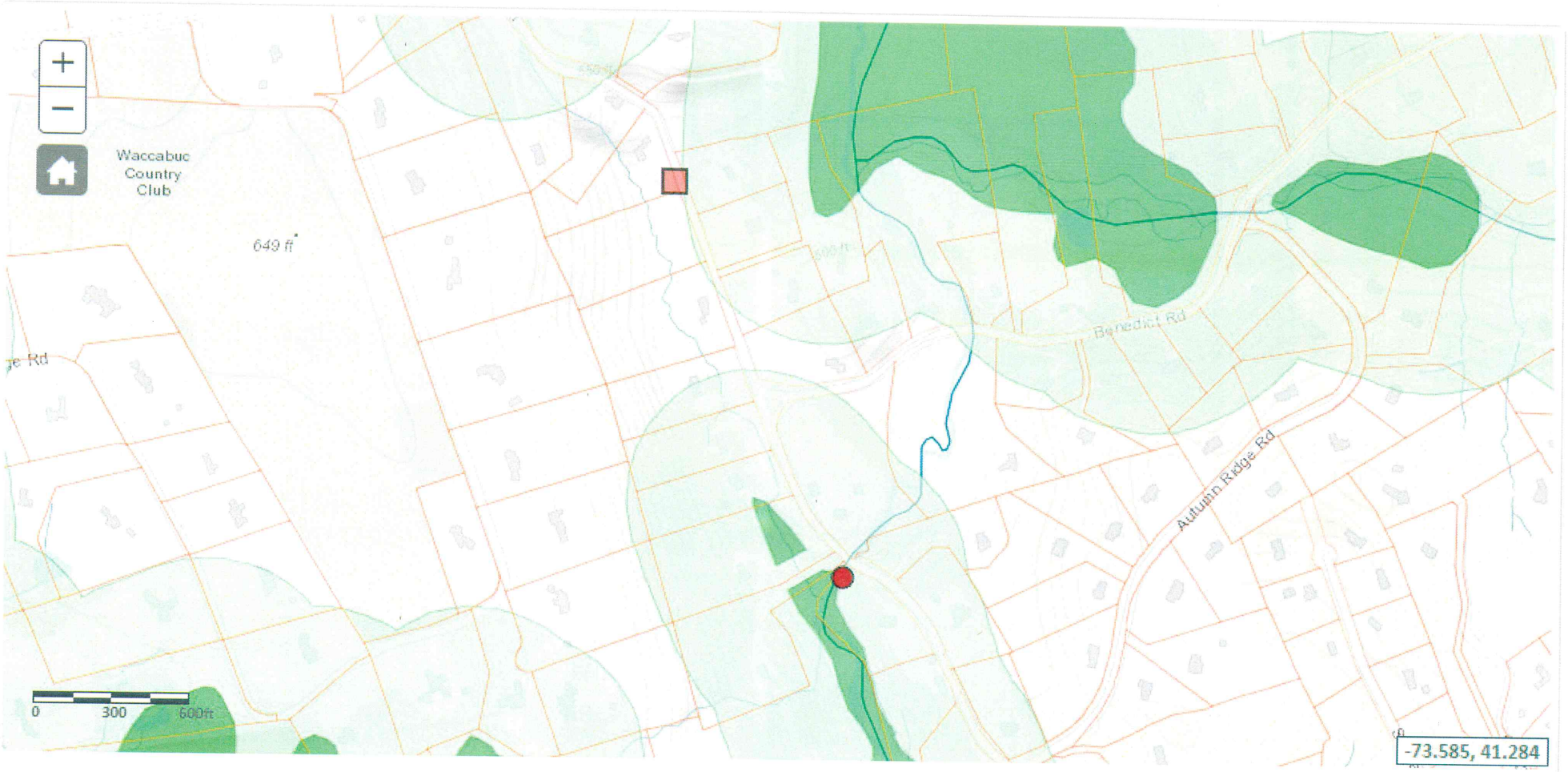


Figure 2.0
NYCDEC Mapper

Figure 3.0
Soils Map

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

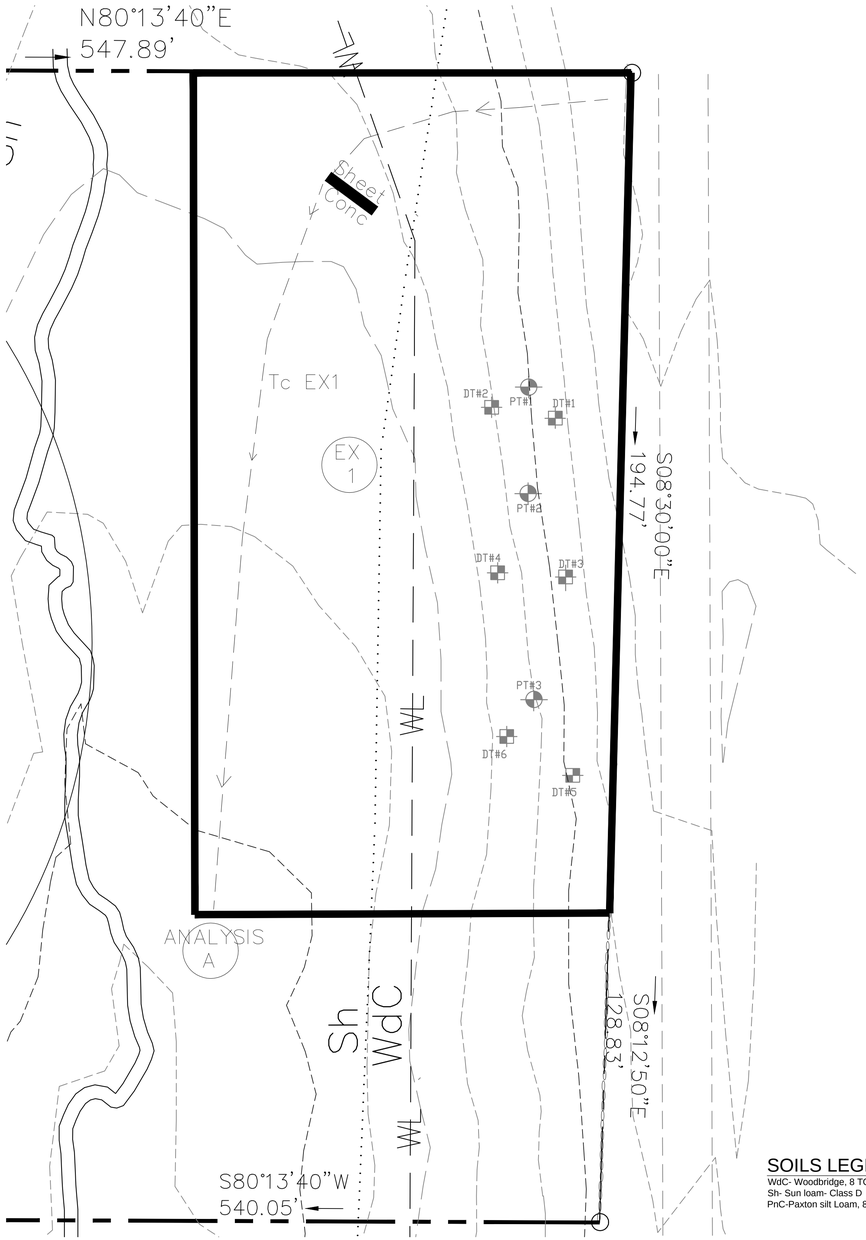
Area Wetland Impact Table

Residence & Garage & Deck

Sediment Trap:
Well and water line
Subtotal: 9.306 sf = 0.213 acres

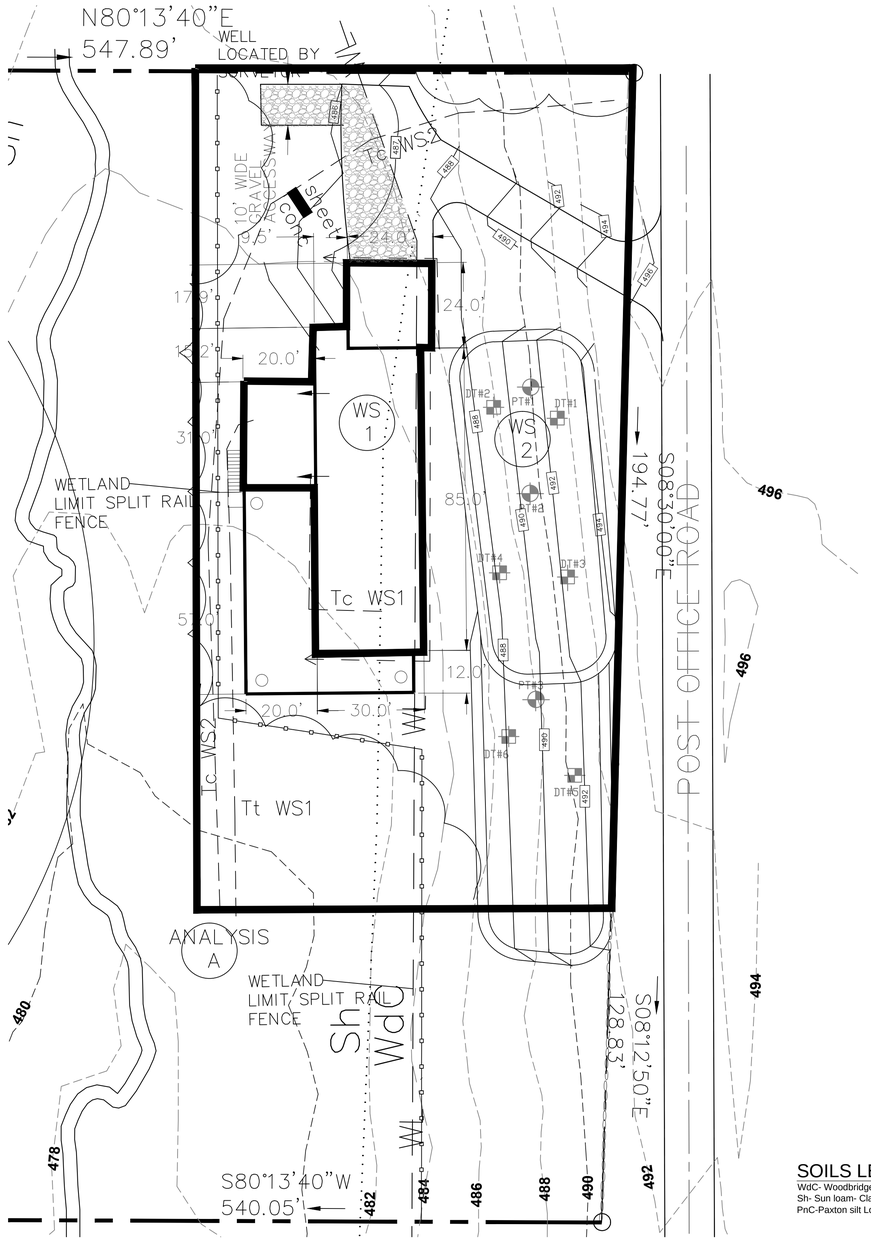
Wetland Buffer Area – 100 ft
Subtotal: 13,471 sf = 0.309 acres

Total Site Disturbance: 0.52 acres



SOILS LEGEND
WdC- Woodbridge, 8 TO 15 PERCENT SLOPES- class C
Sh- Sun loam- Class D
PnC-Paxton silt Loam, 8 to 15 PERCENT SLOPES- Class C

PRE-DEVELOPMENT DRAINAGE OVERLAY
SCALE:1"=20'



SOILS LEGEND
WdC- Woodbridge, 8 TO 15 PERCENT SLOPES- class C
Sh- Sun loam- Class D
PnC-Paxton silt Loam, 8 to 15 PERCENT SLOPES- Class C

POST -DEVELOPMENT DRAINAGE OVERLAY
SCALE:1"=20'

P. W. SCOTT
ENGINEERING & ARCHITECTURE, P.C.
3871 ROUTE 6
BREWSTER, NY 10509 845-278-2110

Revisions		
No.	Date	Description

Dwg. Title: PRE–POST DRAINAGE OVERLAY
Project Title: 96 POST OFFICE ROAD, LEWISBORO,NY
Proj. No.: 21–110
Drawn by: MA/PWS
Date: 9/20/21
Scale: AS NOTED
Seal
Dwg. No.: D1

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

April 6, 2023

96 Post Office Rd
Waccabuc, NY
(T) Lewisboro

TABLE OF CONTENTS

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 3,200 drains to planter (brush cover) of 570 sf

Input Data
WS1 Roof & Planter
Area = 3,770 sf = .087sf
CN = 92.7
Tc = 0.10 hrs.
Tt to Point A (.02 hrs.) insignificant

WS2 – Remainder of lot drains directly to rear of lot – Wetlands.
Area = .565 acres
CN = 74.2
Tc = .134 hrs.
Includes 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

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	.65	.36	487.5	0.02
10-Year	.35	0.0	487.06	0.014
2-Year	.22	0.0	486.58	0.008
1-Year	.18	0.0	486.43	0.006

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	1.53	3.60
POST	.42	.64	1.33	3.40
NET	-0.6	-.09	-0.20	-0.20
%	-12%	-12%	-13%	-5.6%

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

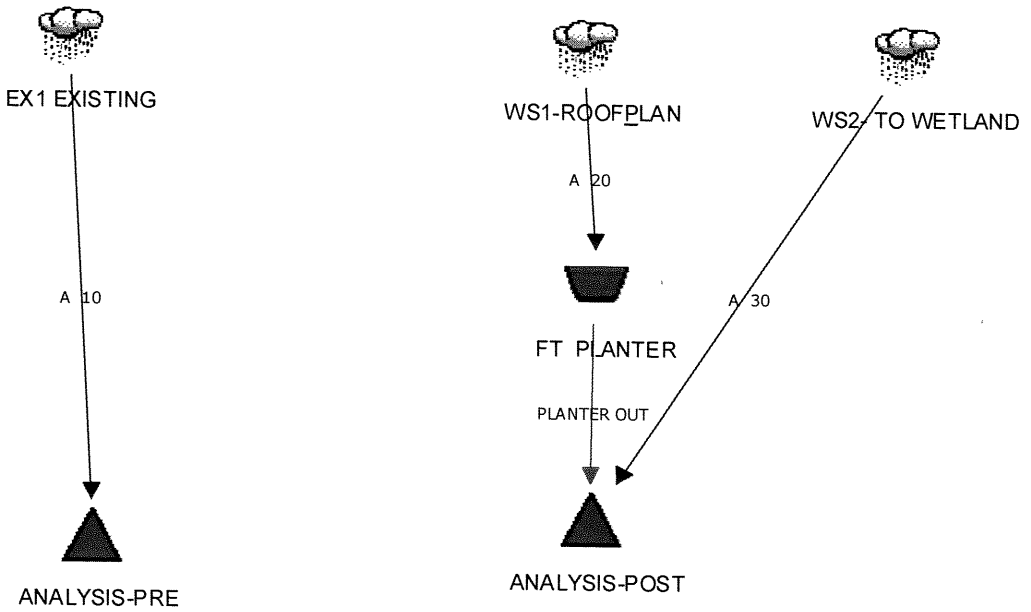
Planters attenuate stormwater discharge to the maximum extent possible while providing treatment of impervious areas on the site.

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


EX1 EXISTING
A 10
ANALYSIS-PRE
WS1-ROOFPLAN
WS2- TO WETLAND
A 20
A 30
FT PLANTER
PLANTER OUT
ANALYSIS-POST

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

Smoothing	Yes
State	
Location	
Latitude	41.290 degrees North
Longitude	73.579 degrees West
Elevation	150 feet
Date/Time	Thu Mar 30 2023 14:46:55 GMT-0400 (Eastern Daylight Time)

Extreme Precipitation Estimates

	5min	10min	15min	30min	60min	120min		1hr	2hr	3hr	6hr	12hr	24hr	48hr		1day	2da
1yr	0.33	0.51	0.63	0.83	1.03	1.29	**1yr**	0.89	1.22	1.48	1.84	2.28	2.83	3.18	**1yr**	2.50	3.0
2yr	0.39	0.61	0.75	0.99	1.25	1.57	**2yr**	1.08	1.46	1.80	2.23	2.76	3.40	3.82	**2yr**	3.01	3.6
5yr	0.46	0.72	0.90	1.21	1.54	1.95	**5yr**	1.33	1.80	2.26	2.81	3.47	4.27	4.82	**5yr**	3.78	4.6
10yr	0.52	0.81	1.03	1.39	1.81	2.31	**10yr**	1.56	2.11	2.68	3.34	4.13	5.08	5.76	**10yr**	4.50	5.5
25yr	0.60	0.96	1.22	1.69	2.24	2.90	**25yr**	1.94	2.61	3.38	4.22	5.22	6.38	7.29	**25yr**	5.65	7.0
50yr	0.68	1.09	1.40	1.97	2.64	3.44	**50yr**	2.28	3.06	4.02	5.03	6.21	7.59	8.71	**50yr**	6.72	8.3
100yr	0.77	1.25	1.61	2.29	3.12	4.08	**100yr**	2.69	3.60	4.79	6.00	7.41	9.04	10.41	**100yr**	8.00	10.0
200yr	0.88	1.43	1.86	2.66	3.68	4.85	**200yr**	3.18	4.23	5.70	7.16	8.83	10.76	12.46	**200yr**	9.52	11.9
500yr	1.05	1.73	2.26	3.28	4.60	6.10	**500yr**	3.97	5.24	7.18	9.03	11.14	13.55	15.80	**500yr**	11.99	15.1

Lower Confidence Limits

	5min	10min	15min	30min	60min	120min		1hr	2hr	3hr	6hr	12hr	24hr	48hr		1day	2da
1yr	0.24	0.37	0.45	0.61	0.75	0.95	1yr	0.65	0.93	1.20	1.58	2.02	2.52	2.76	1yr	2.23	2.6

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-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 = 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

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		

	TOTAL	0.651

Use	Soil Type	Soil Class	CN	Area	CN x Area
Woods-fair	Wdc	C	73	0.351	25.623
Wood-wetland	Sh	D	77	0.300	23.100
Building					
Gravel					
Brush-					
		TOTAL =		0.651	48.723
CN (Weighted) =sum(CN x A) divided by Sum (A) =					74.8

Runoff:	Storm Event Type N10D 24 Hour Rainfall				2002 NYS	DEC MANUAL
	1 Year =	2.82	in		2.50	in
	2 Year =	3.40	in		3.50	in
	10 Year =	5.08	in		5.00	in
	100 Year	9.04	in		7.50	in

Annual Rainfall: 40.2 in

Tc Analysis Calculations: McCuen & Spiess Calculations

A	Sheet Flow			Tc	Flow Length:	83.0	
				0.146	Slope:	11.50%	
					Cover:	woods	
B	Shallow Concentrated Flow				Paved:		no
				0.021	Unpaved:		yes
					Hydraulic		211
			Velocity	2.8	Average Land		3.00%
C	Channel Flow				FlowArea:	Q	
				0.000	Descrip.	15" pipe	N=	0.013
					Length:	0	Width:	
					Depth		Slope:	
					V	8	Wp	
			Minimum Tc = 0.10					
			Total T_c	0.167				

TRAVEL TIME TO Point A 0.00 HR.

Table of Contents

Table of Contents (continued)

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 Node ID	Type	Return Event	HYG Vol ac-ft	Trun	Qpeak hrs	Qpeak cfs	Max WSEL ft	Max Pond ac-ft
*ANALYSIS-POST	JCT	1	.034		12.1500	.42		
*ANALYSIS-POST	JCT	2	.051		12.1500	.64		
*ANALYSIS-POST	JCT	10	.107		12.1000	1.33		
*ANALYSIS-POST	JCT	100	.277		12.1500	3.40		
*ANALYSIS-PRE	JCT	1	.041		12.1500	.48		
*ANALYSIS-PRE	JCT	2	.061		12.1500	.73		
*ANALYSIS-PRE	JCT	10	.126		12.1500	1.53		
*ANALYSIS-PRE	JCT	100	.304		12.1500	3.60		
EX1 EXISTING	AREA	1	.041		12.1500	.48		
EX1 EXISTING	AREA	2	.061		12.1500	.73		
EX1 EXISTING	AREA	10	.126		12.1500	1.53		
EX1 EXISTING	AREA	100	.304		12.1500	3.60		
FT PLANTER IN POND		1	.014		12.1000	.18		
FT PLANTER IN POND		2	.018		12.1000	.22		
FT PLANTER IN POND		10	.029		12.1000	.35		
FT PLANTER IN POND		100	.056		12.1000	.64		
FT PLANTER OUT POND		1	.000		7.0000	.00	486.43	.006
FT PLANTER OUT POND		2	.000		6.2500	.00	486.58	.008
FT PLANTER OUT POND		10	.000		4.3500	.00	487.06	.014

SCS UNIT HYDROGRAPH METHOD

STORM EVENT: 1 year storm
Duration = 30.0000 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 = - EX1 EXISTING 1-YR
Tc = .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 = .0500 hrs
Peak Time, Interpolated Output = 12.1500 hrs
Peak Flow, Interpolated Output = .48 cfs
==========

DRAINAGE AREA

ID:None Selected
CN = 75
Area = .651 acres
S = 3.3690 in
0.2S = .6738 in

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

SCS UNIT HYDROGRAPH METHOD

STORM EVENT: 2 year storm
Duration = 30.0000 hrs Rain Depth = 3.2538 in
Rain Dir = C:\HAESTAD\PPKW\RAINFALL\
Rain File -ID = SCSTYPES.RNF - TypeIII 24hr
Unit Hyd Type = Default Curvilinear
HYG Dir = Z:\PROGRAMS\PONDPACK\96 POST OFFICE ROAD\
HYG File - ID = - EX1 EXISTING 2-YR
Tc = .1670 hrs
Drainage Area = .651 acres Runoff CN= 75

==========
Computational Time Increment = .02227 hrs
Computed Peak Time = 12.1576 hrs
Computed Peak Flow = .73 cfs

Time Increment for HYG File = .0500 hrs
Peak Time, Interpolated Output = 12.1500 hrs
Peak Flow, Interpolated Output = .73 cfs
==========

DRAINAGE AREA

ID:None Selected
CN = 75
Area = .651 acres
S = 3.3690 in
0.2S = .6738 in

Cumulative 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)

Unit peak, qp = 4.42 cfs
Unit peak time Tp = .11133 hrs
Unit receding limb, Tr = .44533 hrs
Total unit time, Tb = .55667 hrs

SCS UNIT HYDROGRAPH METHOD

STORM EVENT: 10 year storm
Duration = 30.0000 hrs Rain Depth = 4.8616 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 10-YR
Tc = .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 = .0500 hrs
Peak Time, Interpolated Output = 12.1500 hrs
Peak Flow, Interpolated Output = 1.53 cfs
==========

DRAINAGE AREA

ID:None Selected
CN = 75
Area = .651 acres
S = 3.3690 in
0.2S = .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))
Receding/Rising, Tr/Tp = 1.6698 (solved from K = .7491)

Unit peak, qp = 4.42 cfs
Unit peak time Tp = .11133 hrs
Unit receding limb, Tr = .44533 hrs
Total unit time, Tb = .55667 hrs

SCS UNIT HYDROGRAPH METHOD

STORM EVENT: 100 year storm
Duration = 30.0000 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
Tc = .1670 hrs
Drainage Area = .651 acres Runoff CN= 75

==========
Computational Time Increment = .02227 hrs
Computed Peak Time = 12.1353 hrs
Computed Peak Flow = 3.64 cfs

Time Increment for HYG File = .0500 hrs
Peak Time, Interpolated Output = 12.1500 hrs
Peak Flow, Interpolated Output = 3.60 cfs
==========

DRAINAGE AREA

ID:None Selected
CN = 75
Area = .651 acres
S = 3.3690 in
0.2S = .6738 in

Cumulative Runoff

5.6088 in
.304 ac-ft

HYG Volume... .304 ac-ft (area under HYG curve)

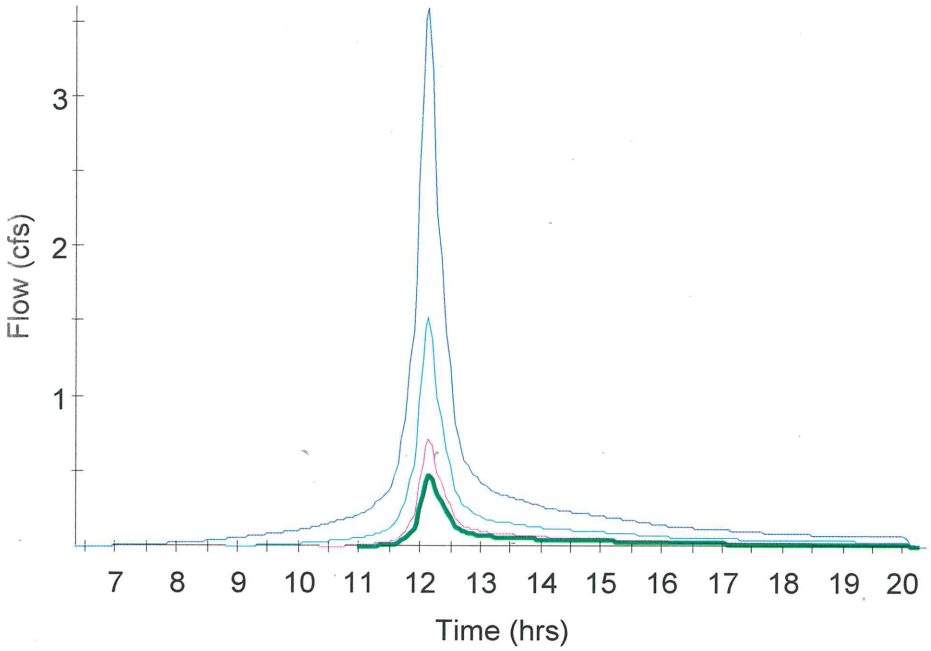
***** UNIT HYDROGRAPH PARAMETERS *****

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)

Unit peak, qp = 4.42 cfs
Unit peak time Tp = .11133 hrs
Unit receding limb, Tr = .44533 hrs
Total unit time, Tb = .55667 hrs

Hydrograph
EX1 EXISTING 1-YR



Plotted Curves

- EX1 EXISTING 1-YR
- EX1 EXISTING 10-YR
- EX1 EXISTING 100-yr
- EX1 EXISTING 2-YR

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

Drainage Area # WS #1			
Development	Pre		3,770
	Post	X	

	TOTAL	0.087

Use	Soil Type	Soil Class	CN	Area	CN x Area
Woods	WdC	C	73	0.000	0.000
Woods-wetlands	Sh	D	77	0.000	0.000
Building	WdC	C	98	0.073	7.154
Gravel	Wdc	C	89	0.000	0.000
Brush- planter	Wdc	C	65	0.014	0.910
Brush-	Sh	D	73	0.000	0.000
Lawn	Wdc	C	61	0.000	0.000
		TOTAL =		0.087	8.064
CN (Weighted) =sum(CN x A) divided by Sum (A) =					92.7

Runoff:	Storm Event Type N10D 24 Hour Rainfall				2002 NYS	DEC MANUAL
	1 Year =	2.82	in		2.50	in
	2 Year =	3.40	in		3.50	in
	10 Year =	5.08	in		5.00	in
	100 Year	9.04	in		7.50	in

Annual Rainfall: 40.2 in

Tc Analysis Calculations: McCuen & Spiess Calculations

A	Sheet Flow			Tc	Flow Length:	50.0	
				0.006	Slope:	8.00%	
					Cover:	rooftop	
B	Shallow Concentrated Flow				Paved:		no
				0.000	Unpaved:		yes
					Hydraulic Length:		0
			Velocity	1.9	Average Land		1%
C	Channel Flow				FlowArea:	Q	
				0.000	Descrip.	15" pipe	N= 0.013
					Length:	0	Width:
					Depth		Slope:
					V	8	Wp
			Minimum Tc = 0.10				
			Total T_c	0.006		use Tc=.1 hr	

TRAVEL TIME TO point A 142 @ 1.4% brush 0.21 HR.

Drainage Area # WS #2 direct offsite			
Development	Pre		24,602
	Post	X	

TOTAL	0.565

Use	Soil Type	Soil Class	CN	Area	CN x Area
Woods	WdC	C	73	0.140	10.220
Woods-wetlands	Sh	D	77	0.103	7.931
Building	WdC	C	98	0.000	0.000
Gravel	Wdc	C	89	0.053	4.717
Brush-	Wdc	C	65	0.090	5.850
Brush-	Sh	D	73	0.170	12.410
Lawn	Wdc	C	74	0.149	11.026
		TOTAL =		0.565	41.934
CN (Weighted) =sum(CN x A) divided by Sum (A) =					74.2

Runoff:	Storm Event Type N10D 24 Hour Rainfall				2002 NYS	DEC MANUAL
	1 Year =	2.82	in		2.50	in
	2 Year =	3.40	in		3.50	in
	10 Year =	5.08	in		5.00	in
	100 Year	9.04	in		7.50	in

Annual Rainfall: 40.2 in

Tc Analysis Calculations: McCuen & Spiess Calculations

A	Sheet Flow			Tc	Flow Length:	100.0
				0.113	Slope:	11.50%
					Cover:	brush
B	Shallow Concentrated Flow				Paved:	no
				0.021	Unpaved:	yes
					Hydraulic Length:	194
			Velocity	2.5	Average Land	3%
C	Channel Flow				FlowArea:	Q
				0.000	Descrip. 15" pipe	N= 0.013
					Length: 0	Width:
					Depth	Slope:
					V 8	Wp
				Minimum Tc = 0.10		
				Total T_c 0.134		

TRAVEL TIME TO point A 0.00 HR.

2

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 Node ID	Type	Return Event	HYG Vol ac-ft	Trun	Qpeak hrs	Qpeak cfs	Max WSEL ft	Max Pond ac-ft
*ANALYSIS-POST	JCT	1	.034		12.1500	.42		
*ANALYSIS-POST	JCT	2	.051		12.1500	.64		
*ANALYSIS-POST	JCT	10	.107		12.1000	1.33		
*ANALYSIS-POST	JCT	100	.277		12.1500	3.40		
*ANALYSIS-PRE	JCT	1	.041		12.1500	.48		
*ANALYSIS-PRE	JCT	2	.061		12.1500	.73		
*ANALYSIS-PRE	JCT	10	.126		12.1500	1.53		
*ANALYSIS-PRE	JCT	100	.304		12.1500	3.60		
EX1 EXISTING	AREA	1	.041		12.1500	.48		
EX1 EXISTING	AREA	2	.061		12.1500	.73		
EX1 EXISTING	AREA	10	.126		12.1500	1.53		
EX1 EXISTING	AREA	100	.304		12.1500	3.60		
FT PLANTER IN	POND	1	.014		12.1000	.18		
FT PLANTER IN	POND	2	.018		12.1000	.22		
FT PLANTER IN	POND	10	.029		12.1000	.35		
FT PLANTER IN	POND	100	.056		12.1000	.64		
FT PLANTER OUT	POND	1	.000		7.0000	.00	486.43	.006
FT PLANTER OUT	POND	2	.000		6.2500	.00	486.58	.008
FT PLANTER OUT	POND	10	.000		4.3500	.00	487.06	.014

MASTER NETWORK SUMMARY
SCS Unit Hydrograph Method

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

Storage Node ID	Type	Return Event	HYG Vol ac-ft	Trun	Qpeak hrs	Qpeak cfs	Max WSEL ft	Max Pond ac-ft
FT PLANTER OUT POND	POND	100	.016		12.2000	.36	487.50	.020
WS1-ROOF&PLAN	AREA	1	.014		12.1000	.18		
WS1-ROOF&PLAN	AREA	2	.018		12.1000	.22		
WS1-ROOF&PLAN	AREA	10	.029		12.1000	.35		
WS1-ROOF&PLAN	AREA	100	.056		12.1000	.64		
WS2- TO WETLAND	AREA	1	.034		12.1500	.42		
WS2- TO WETLAND	AREA	2	.051		12.1500	.64		
WS2- TO WETLAND	AREA	10	.107		12.1000	1.33		
WS2- TO WETLAND	AREA	100	.261		12.1000	3.21		

SCS UNIT HYDROGRAPH METHOD

STORM EVENT: 1 year storm
Duration = 30.0000 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 = - WS1-ROOF&PLAN 1-YR
Tc = .1000 hrs
Drainage Area = .087 acres Runoff CN= 93

==========
Computational Time Increment = .01333 hrs
Computed Peak Time = 12.1067 hrs
Computed Peak Flow = .18 cfs

Time Increment for HYG File = .0500 hrs
Peak Time, Interpolated Output = 12.1000 hrs
Peak Flow, Interpolated Output = .18 cfs
==========

DRAINAGE AREA

ID:None Selected
CN = 93
Area = .087 acres
S = .7875 in
0.2S = .1575 in

Cumulative Runoff

1.9401 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 = .99 cfs
Unit peak time Tp = .06667 hrs
Unit receding limb, Tr = .26667 hrs
Total unit time, Tb = .33333 hrs

SCS UNIT HYDROGRAPH METHOD

STORM EVENT: 2 year storm
Duration = 30.0000 hrs Rain Depth = 3.2538 in
Rain Dir = C:\HAESTAD\PPKW\RAINFALL\
Rain File -ID = SCSTYPES.RNF - TypeIII 24hr
Unit Hyd Type = Default Curvilinear
HYG Dir = Z:\PROGRAMS\PONDPACK\96 POST OFFICE ROAD\
HYG File - ID = - WS1-ROOF&PLAN 2-YR
Tc = .1000 hrs
Drainage Area = .087 acres Runoff CN= 93

==========
Computational Time Increment = .01333 hrs
Computed Peak Time = 12.1067 hrs
Computed Peak Flow = .22 cfs

Time Increment for HYG File = .0500 hrs
Peak Time, Interpolated Output = 12.1000 hrs
Peak Flow, Interpolated Output = .22 cfs
==========

DRAINAGE AREA

ID:None Selected
CN = 93
Area = .087 acres
S = .7875 in
0.2S = .1575 in

Cumulative Runoff

2.4685 in
.018 ac-ft

HYG Volume... .018 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 = .99 cfs
Unit peak time Tp = .06667 hrs
Unit receding limb, Tr = .26667 hrs
Total unit time, Tb = .33333 hrs

SCS UNIT HYDROGRAPH METHOD

STORM EVENT: 10 year storm
Duration = 30.0000 hrs Rain Depth = 4.8616 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 = - WS1-ROOF&PLAN 10-YR
Tc = .1000 hrs
Drainage Area = .087 acres Runoff CN= 93

==========
Computational Time Increment = .01333 hrs
Computed Peak Time = 12.1067 hrs
Computed Peak Flow = .35 cfs

Time Increment for HYG File = .0500 hrs
Peak Time, Interpolated Output = 12.1000 hrs
Peak Flow, Interpolated Output = .35 cfs
==========

DRAINAGE AREA

ID:None Selected
CN = 93
Area = .087 acres
S = .7875 in
0.2S = .1575 in

Cumulative Runoff

4.0295 in
.029 ac-ft

HYG Volume... .029 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 = .99 cfs
Unit peak time Tp = .06667 hrs
Unit receding limb, Tr = .26667 hrs
Total unit time, Tb = .33333 hrs

SCS UNIT HYDROGRAPH METHOD

STORM EVENT: 100 year storm
Duration = 30.0000 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 = - WS1-ROOF&PLAN 100-yr
Tc = .1000 hrs
Drainage Area = .087 acres Runoff CN= 93

==========

Computational Time Increment	=	.01333 hrs
Computed Peak Time	=	12.1067 hrs
Computed Peak Flow	=	.64 cfs
Time Increment for HYG File	=	.0500 hrs
Peak Time, Interpolated Output	=	12.1000 hrs
Peak Flow, Interpolated Output	=	.64 cfs

==========

DRAINAGE AREA

ID:None Selected
CN = 93
Area = .087 acres
S = .7875 in
0.2S = .1575 in

Cumulative Runoff

7.7731 in
.056 ac-ft

HYG Volume... .056 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 =	.99 cfs
Unit peak time	Tp =	.06667 hrs
Unit receding limb,	Tr =	.26667 hrs
Total unit time,	Tb =	.33333 hrs

SCS UNIT HYDROGRAPH METHOD

STORM EVENT: 1 year storm
Duration = 30.0000 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 = - WS2- TO WETLAND 1-YR
Tc = .1340 hrs
Drainage Area = .565 acres Runoff CN= 74

==========
Computational Time Increment = .01787 hrs
Computed Peak Time = 12.1315 hrs
Computed Peak Flow = .43 cfs

Time Increment for HYG File = .0500 hrs
Peak Time, Interpolated Output = 12.1500 hrs
Peak Flow, Interpolated Output = .42 cfs
==========

DRAINAGE AREA

ID:None Selected
CN = 74
Area = .565 acres
S = 3.4771 in
0.2S = .6954 in

Cumulative Runoff

.7323 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)

Unit peak, qp = 4.78 cfs
Unit peak time Tp = .08933 hrs
Unit receding limb, Tr = .35733 hrs
Total unit time, Tb = .44667 hrs

SCS UNIT HYDROGRAPH METHOD

STORM EVENT: 2 year storm
Duration = 30.0000 hrs Rain Depth = 3.2538 in
Rain Dir = C:\HAESTAD\PPKW\RAINFALL\
Rain File -ID = SCSTYPES.RNF - TypeIII 24hr
Unit Hyd Type = Default Curvilinear
HYG Dir = Z:\PROGRAMS\PONDPACK\96 POST OFFICE ROAD\
HYG File - ID = - WS2- TO WETLAND 2-YR
Tc = .1340 hrs
Drainage Area = .565 acres Runoff CN= 74

==========
Computational Time Increment = .01787 hrs
Computed Peak Time = 12.1315 hrs
Computed Peak Flow = .65 cfs

Time Increment for HYG File = .0500 hrs
Peak Time, Interpolated Output = 12.1500 hrs
Peak Flow, Interpolated Output = .64 cfs
WARNING: The difference between calculated peak flow
and interpolated peak flow is greater than 1.50%
==========

DRAINAGE AREA

ID:None Selected
CN = 74
Area = .565 acres
S = 3.4771 in
0.2S = .6954 in

Cumulative Runoff

1.0845 in
.051 ac-ft

HYG Volume... .051 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 = 4.78 cfs
Unit peak time Tp = .08933 hrs
Unit receding limb, Tr = .35733 hrs
Total unit time, Tb = .44667 hrs

SCS UNIT HYDROGRAPH METHOD

STORM EVENT: 10 year storm
Duration = 30.0000 hrs Rain Depth = 4.8616 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 = - WS2- TO WETLAND 10-YR
Tc = .1340 hrs
Drainage Area = .565 acres Runoff CN= 74

==========
Computational Time Increment = .01787 hrs
Computed Peak Time = 12.1315 hrs
Computed Peak Flow = 1.37 cfs

Time Increment for HYG File = .0500 hrs
Peak Time, Interpolated Output = 12.1000 hrs
Peak Flow, Interpolated Output = 1.33 cfs
WARNING: The difference between calculated peak flow
and interpolated peak flow is greater than 1.50%
==========

DRAINAGE AREA

ID:None Selected
CN = 74
Area = .565 acres
S = 3.4771 in
0.2S = .6954 in

Cumulative Runoff

2.2709 in
.107 ac-ft

HYG Volume... .107 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 = 4.78 cfs
Unit peak time Tp = .08933 hrs
Unit receding limb, Tr = .35733 hrs
Total unit time, Tb = .44667 hrs

SCS UNIT HYDROGRAPH METHOD

STORM EVENT: 100 year storm
Duration = 30.0000 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 = - WS2- TO WETLAND 100-yr
Tc = .1340 hrs
Drainage Area = .565 acres Runoff CN= 74

==========
Computational Time Increment = .01787 hrs
Computed Peak Time = 12.1136 hrs
Computed Peak Flow = 3.24 cfs

Time Increment for HYG File = .0500 hrs
Peak Time, Interpolated Output = 12.1000 hrs
Peak Flow, Interpolated Output = 3.21 cfs
==========

DRAINAGE AREA

ID:None Selected
CN = 74
Area = .565 acres
S = 3.4771 in
0.2S = .6954 in

Cumulative Runoff

5.5363 in
.261 ac-ft

HYG Volume... .261 ac-ft (area under HYG curve)

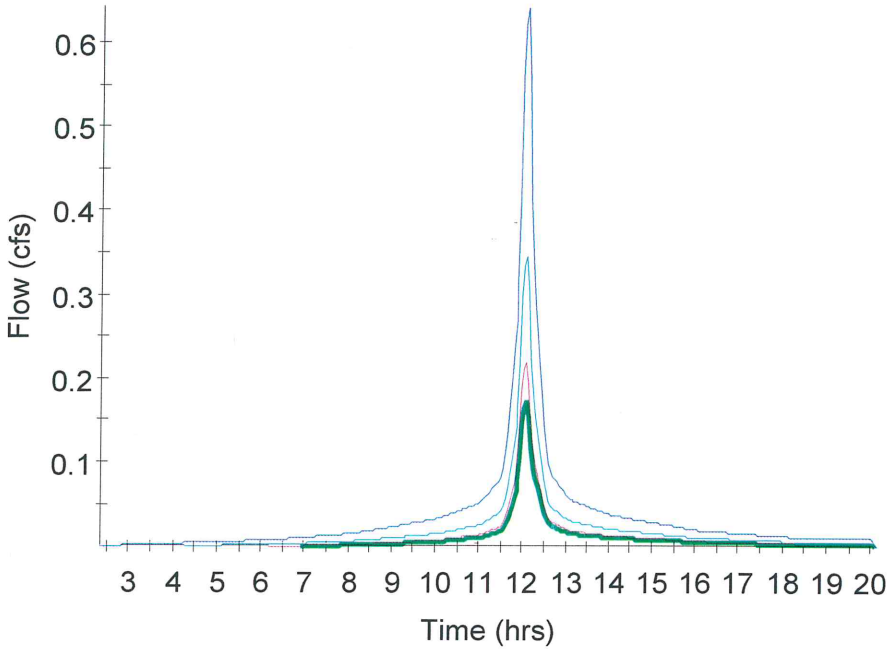
***** UNIT HYDROGRAPH PARAMETERS *****

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 = 4.78 cfs
Unit peak time Tp = .08933 hrs
Unit receding limb, Tr = .35733 hrs
Total unit time, Tb = .44667 hrs

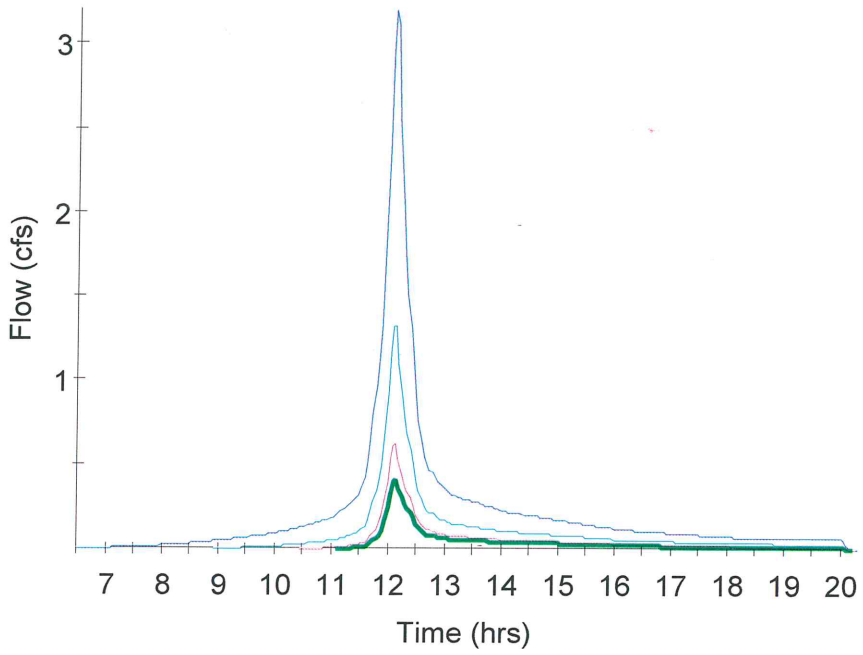
Hydrograph
WS1-ROOF&PLAN 1-YR



Plotted Curves

- WS1-ROOF&PLAN 1-YR
- WS1-ROOF&PLAN 10-YR
- WS1-ROOF&PLAN 100-yr
- WS1-ROOF&PLAN 2-YR

Hydrograph
WS2- TO WETLAND 1-YR



Plotted Curves

WS2- TO WETLAND 1-YR
WS2- TO WETLAND 10-YR
WS2- TO WETLAND 100-yr
WS2- TO WETLAND 2-YR

ATTACHMENT C

Concrete Flow through Planter

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

POND VOLUME CALCULATIONS

Planimeter scale: 1.00 ft/in

Elevation (ft)	Planimeter (sq.in)	Area (acres)	A1+A2+sqr(A1*A2) (acres)	Volume (ac-ft)	Volume Sum (ac-ft)
486.00	570.000	.0131	.0000	.000	.000
488.00	570.000	.0131	.0393	.026	.026

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

REQUESTED POND WS ELEVATIONS:

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

****
OUTLET CONNECTIVITY
****

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

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

TW SETUP, DS Channel

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

LEVEL POOL ROUTING SUMMARY

HYG Dir = Z:\PROGRAMS\PONDPACK\96 POST OFFICE ROAD\
Inflow HYG file = NONE STORED - FT PLANTER IN 1-YR
Outflow HYG file = NONE STORED - FT PLANTER OUT 1-YR

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

Infiltration = 2.0000 in/hr

INITIAL CONDITIONS

Starting WS Elev	=	486.33 ft
Starting Volume	=	.004 ac-ft
Starting Outflow	=	.00 cfs
Starting Infiltr.	=	.03 cfs
Starting Total Qout	=	.03 cfs
Time Increment	=	.0500 hrs

INFLOW/OUTFLOW HYDROGRAPH SUMMARY

Peak Inflow	=	.18 cfs	at	12.1000 hrs
Peak Outflow	=	.00 cfs	at	7.0000 hrs
Peak Infiltration	=	.03 cfs	at	6.9500 hrs
Peak Elevation	=	486.43 ft		
Peak Storage	=	.006 ac-ft		

MASS BALANCE (ac-ft)

+ Initial Vol	=	.004
+ HYG Vol IN	=	.014
- Infiltration	=	.018
- HYG Vol OUT	=	.000
- Retained Vol	=	.000
Unrouted Vol	=	-.000 ac-ft (.391% of Inflow Volume)

DETENTION TIMES SUMMARY

HYG Dir = Z:\PROGRAMS\PONDPACK\96 POST OFFICE ROAD\
Inflow HYG file = NONE STORED - FT PLANTER IN 1-YR
Outflow HYG file = NONE STORED - FT PLANTER OUT 1-YR

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

Infiltration = 2.0000 in/hr

APPROXIMATE DETENTION TIME

Qout+Infilt. Centroid	=	12.6828 hrs
Inflow Centroid	=	12.8175 hrs
Centroid to Centroid	=	-.1347 hrs

LEVEL POOL ROUTING SUMMARY

HYG Dir = Z:\PROGRAMS\PONDPACK\96 POST OFFICE ROAD\
Inflow HYG file = NONE STORED - FT PLANTER IN 2-YR
Outflow HYG file = NONE STORED - FT PLANTER OUT 2-YR

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

Infiltration = 2.0000 in/hr

INITIAL CONDITIONS

Starting WS Elev	=	486.33 ft
Starting Volume	=	.004 ac-ft
Starting Outflow	=	.00 cfs
Starting Infiltr.	=	.03 cfs
Starting Total Qout	=	.03 cfs
Time Increment	=	.0500 hrs

INFLOW/OUTFLOW HYDROGRAPH SUMMARY

Peak Inflow	=	.22 cfs	at	12.1000 hrs
Peak Outflow	=	.00 cfs	at	6.2500 hrs
Peak Infiltration	=	.03 cfs	at	6.2000 hrs
Peak Elevation	=	486.58 ft		
Peak Storage	=	.008 ac-ft		

MASS BALANCE (ac-ft)

+ Initial Vol	=	.004
+ HYG Vol IN	=	.018
- Infiltration	=	.022
- HYG Vol OUT	=	.000
- Retained Vol	=	.000
Unrouted Vol	=	-.000 ac-ft (.305% of Inflow Volume)

LEVEL POOL ROUTING SUMMARY

HYG Dir = Z:\PROGRAMS\PONDPACK\96 POST OFFICE ROAD\
Inflow HYG file = NONE STORED - FT PLANTER IN 10-YR
Outflow HYG file = NONE STORED - FT PLANTER OUT 10-YR

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

Infiltration = 2.0000 in/hr

INITIAL CONDITIONS

Starting WS Elev	=	486.33 ft
Starting Volume	=	.004 ac-ft
Starting Outflow	=	.00 cfs
Starting Infiltr.	=	.03 cfs
Starting Total Qout	=	.03 cfs
Time Increment	=	.0500 hrs

INFLOW/OUTFLOW HYDROGRAPH SUMMARY

Peak Inflow	=	.35 cfs	at	12.1000 hrs
Peak Outflow	=	.00 cfs	at	4.3500 hrs
Peak Infiltration	=	.03 cfs	at	4.3000 hrs
Peak Elevation	=	487.06 ft		
Peak Storage	=	.014 ac-ft		

MASS BALANCE (ac-ft)

+	Initial Vol =	.004
+	HYG Vol IN =	.029
-	Infiltration =	.033
-	HYG Vol OUT =	.000
-	Retained Vol =	.000
	Unrouted Vol =	-.000 ac-ft (.187% of Inflow Volume)

LEVEL POOL ROUTING SUMMARY

HYG Dir = Z:\PROGRAMS\PONDPACK\96 POST OFFICE ROAD\
Inflow HYG file = NONE STORED - FT PLANTER IN 100-yr
Outflow HYG file = NONE STORED - FT PLANTER OUT 100-yr

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

Infiltration = 2.0000 in/hr

INITIAL CONDITIONS

Starting WS Elev	=	486.33 ft
Starting Volume	=	.004 ac-ft
Starting Outflow	=	.00 cfs
Starting Infiltr.	=	.03 cfs
Starting Total Qout	=	.03 cfs
Time Increment	=	.0500 hrs

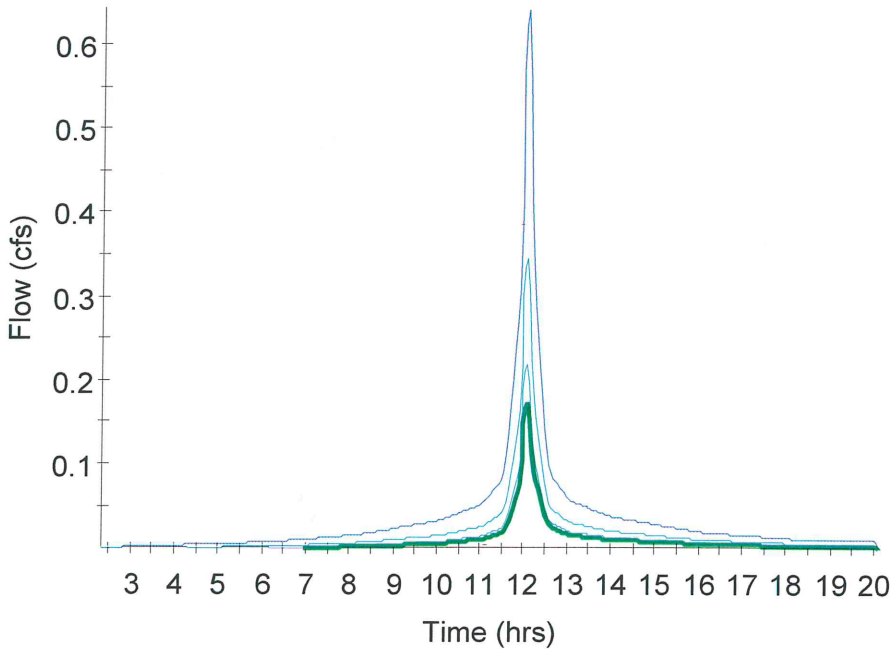
INFLOW/OUTFLOW HYDROGRAPH SUMMARY

Peak Inflow	=	.64 cfs	at	12.1000 hrs
Peak Outflow	=	.36 cfs	at	12.2000 hrs
Peak Infiltration	=	.03 cfs	at	2.3500 hrs
Peak Elevation	=	487.50 ft		
Peak Storage	=	.020 ac-ft		

MASS BALANCE (ac-ft)

+ Initial Vol	=	.004
+ HYG Vol IN	=	.056
- Infiltration	=	.044
- HYG Vol OUT	=	.016
- Retained Vol	=	.000
Unrouted Vol	=	-.000 ac-ft (.097% of Inflow Volume)

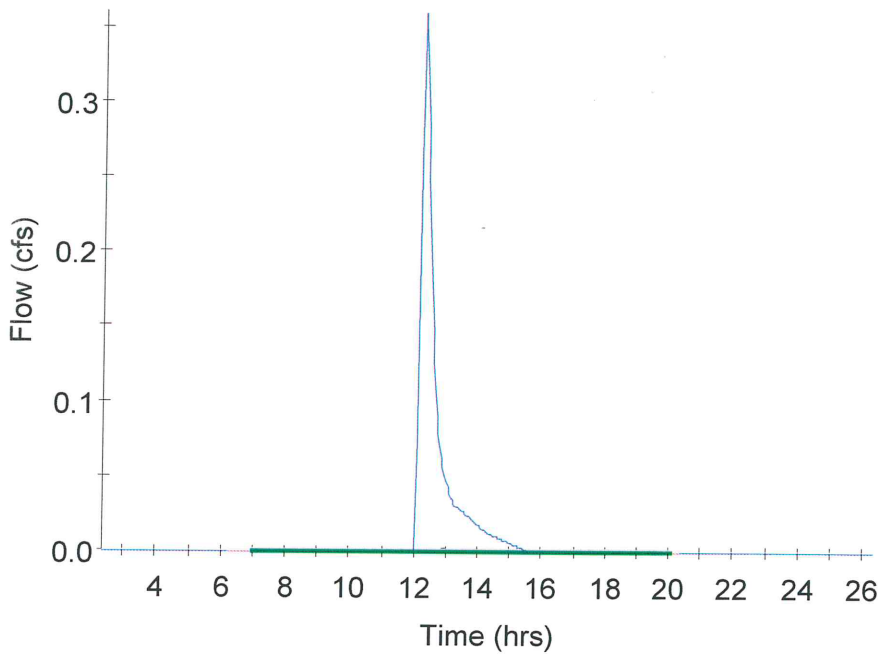
Hydrograph
FT PLANTER IN 2-YR



Plotted Curves

- FT PLANTER IN 1-YR
- FT PLANTER IN 10-YR
- FT PLANTER IN 100-yr
- FT PLANTER IN 2-YR
- WS1-ROOF&PLAN 2-YR

Hydrograph
PLANTER OUT 1-YR



Plotted Curves

- FT PLANTER OUT 1-YR
- FT PLANTER OUT 10-YR
- FT PLANTER OUT 100-yr
- FT PLANTER OUT 2-YR

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

November 4, 2021
Rev.: 3.30.23

Engineering Report

Project Location: 96 Post Office Rd, Waccabuc, NY

Project Description: Renewal of Septic System approved in 2003 (WCDOH # L2003-33) with NYCDEP slope waiver granted.

Soil Type: (Wb) Woodbridge soils

Deep Tests completed on July 7, 2021 witnessed by WCDOH.

DT 1

0 - 6”	Topsoil
6”- 42”	Medium Compact Sandy Loam
42” – 7’0”	Moderate to Tight Sandy Loam
70”	Medium Fine Sand
72”	No Water
	No Ledge

DT 2

0-6”	Topsoil
6”-84”	Medium Compact Sandy Loam
42” – 6’-0”	Moderate Compact Sandy Loam
6’-0”	Ledge
	No Water

DT 3

0 - 6”	Topsoil
6”- 44”	Medium Compact Sandy Loam
44” – 72”	Tighter Compact Sandy Loam
6’-0”	Ledge
	No Water

DT 4

0-6”	Topsoil
6”- 36”	Medium Compact Silt
36” – 78”	Medium Fine Sand w/Silt
78”	Sand with Silt
	No Ledge
	No Water

DT 5

0-6”	Topsoil
6”- 36”	Medium Compact Sandy Loam
36” – 72”	Tighter Compact Sandy Loam
6’-0”	Ledge
	No Water

DT 6

0-6”	Topsoil
6”- 24”	Medium Compact Sandy Loam
24” – 7’0”	Medium Fine Sand Trace Silt
	No Ledge
	No Water

Percolation Tests: Pre-soaked on July 15, 2021; Recorded July 16, 2021
PT 1
1" drop in 6.0 minutes
PT 2
1" drop in 5.0 minutes
PT 3
1" drop in 18 minutes (Governs)

Design Parameters – Table 1

System: Primary Residence: (2) (110 gpd) = 220 gpd

No garbage grinder is permitted.
SSDS on slopes 18% to 20%, a variance is required.
Wetlands are within 100 feet of the proposed SSTS – NOT REGISTERED
No reservoirs, reservoir stems and controlled lakes within 500 feet of the proposed SSTS.
No wells except for existing lot well, are within 200 feet of the reserved areas for the OWTS.
Separation required to bottom of trench: 5.0' above ledge
5.0' above high water table
Existing soil required to be a min of 24 inches
Septic Fill to be installed and compacted in 6" lifts
Soil percolation rates in fill shall be less than 15 min/inch stabilized rate
Fill pad to extend 3' past the end of fields + 7 feet per Fill section detail.
100% percent expansion area is required.
All trenches are proposed at a spacing of 6.0' on center.

Refer to the septic site plan for location

I. System - Main Residence – Refer to 2022 WCDOH Code
Design Flow Rate: 220 gpd

Septic Tank Design

The flow analysis is as follows:	2 Bedroom Residence
Min size: Table 3:	1,000 gal tank
Precast Unit – 27 sf Liquid Level surface area:	Refer to detail

II. Subsurface Sewage Design

Percolation Rate SYSTEM #2:	P3:	18 Min/Inch
	Design Category:	16-20 min/inch
	Application Rate:	0.53 gpd/sf
	Table 4 Required Fields:	220 lf of 2' wide trenches

III. Septic Field Design

Based upon the percolation rates on the attached test forms, the following is the design of the septic fields using the percolation rates.

Propose: Pump System: Primary: 3 rows of 74 lf @ 6.0 ft o.c. with 74 ft spread
Reserve: 3 rows of 74 lf
Total Length Provided: 222 lf

Proposed Roof Treatment is: Filtration Planter. Separation required per NYSDEC Manual = 50 ft

IV. Fill Required

Depth to Ledge: 6.0 Ft
Fill Required: -6.0 + 5.0 ft Separation + 1.0' deep Field + 1.0' Topsoil = 1.0' Topsoil

Fill is les than 24". Setbacks are measured from trenches.

V. Curtain Drain

Not applicable to this site, ledge is the issue.

VI. Septic Pump Station design

A pump tank is proposed to provide a dose of 0.5 gal/lf of trenches within the primary fields (171 lf) equals a 111 gallon dose plus the volume in the 2" dia force main: alt pumps. and to provide storage of the daily flow* (220 gallons)

Distance to the fields:	40 lf to Primary
The pump dose is:	118 gallons including the volume in the force main.
Pump chamber proposed:	1000 gallons Refer to SP3B for the head and storage calculations.

An audio & visual alarm is provided for high flow and low flow to be located within an outdoor control box. Power is from the house site. The pump chamber contains dual activated pumps and controls for redundant capacity. Pumps are: Goulds 3885 Series, WE0311L- 1/3 hp pumps.

VII. Distribution System

Propose 4 way distribution box with a baffle for equal distribution to the 3 primary trenchs. The reserve requires additional 4-way distribution with a baffle for the 3 reserve lines.

VIII. Water Supply

Water supply is from a private drilled well as noted on the plans. Adjacent lot wells are located beyond the septic constraints to SSDS and any neighboring SSDS. The septic systems across the street are located in the rear yard of the existing residences, more than 200 feet from the well.

IX. Garbage Grinders

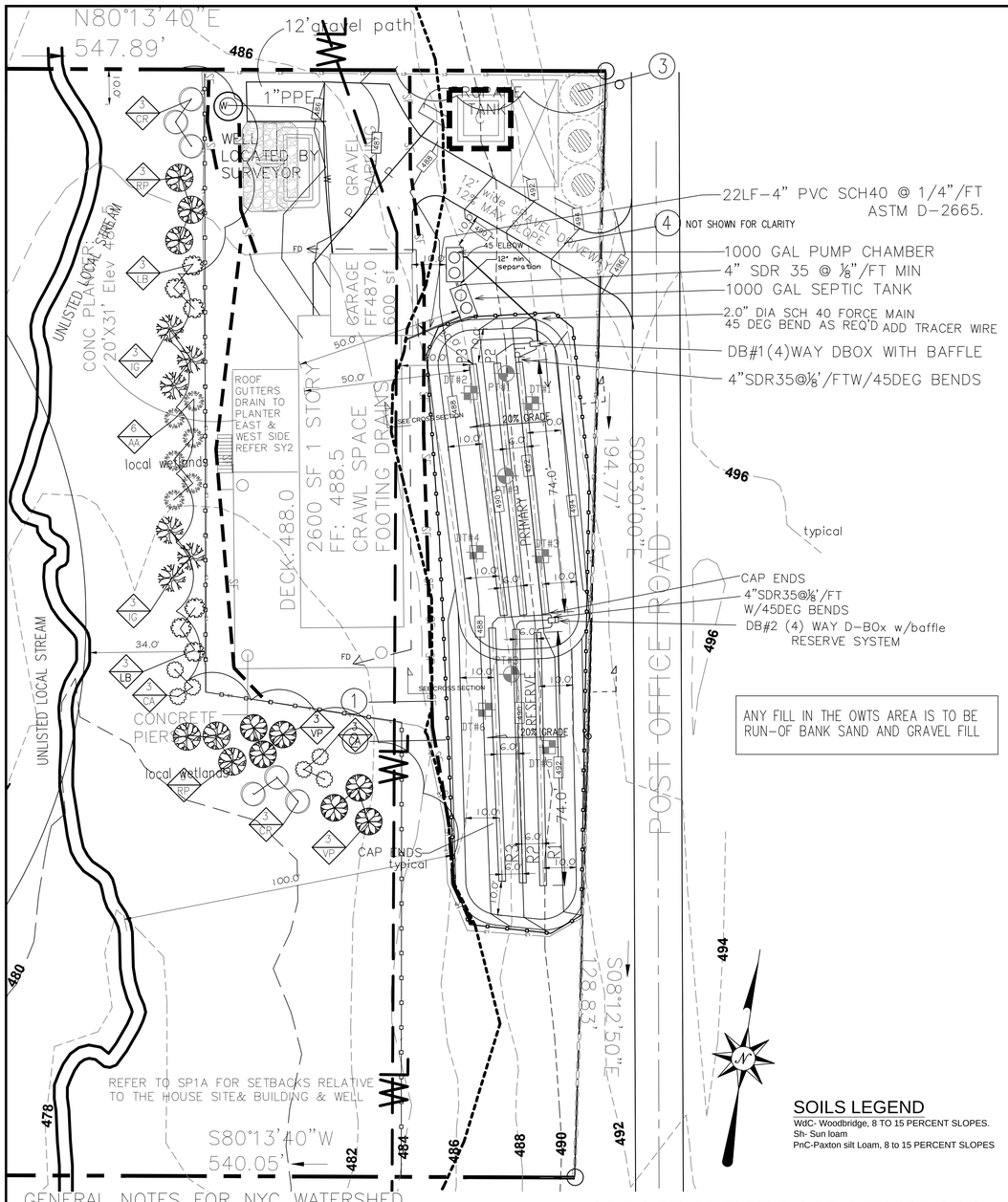
Not Permitted

Refer to drawings SP1, SP1A, SP2 and SP3 for all specifications and designs.
Please accept this report for the file.

Respectfully submitted,

Peder Scott

Peder W. Scott, PE, RA.
President



WESTCHESTER COUNTY HEALTH DEPT. NOTES

1. There shall be no trees within 10 feet of the OWTS.
2. There are no wells within 200' of OWTS unless otherwise shown on plan.
3. There are no OWTS within 200 of well unless otherwise shown on plan.
4. The proposed OWTS area shall be isolated and protected against damage by erosion, storage of earth or materials, displacement, compaction or other adverse physical change in the characteristics of the soil or in the drainage of the area.
5. If for any reason the approved construction plan cannot be followed, a revised plan must be prepared, submitted, and approved by WCDH.
6. The design professional shall supervise the construction of the OWTS and make an open works inspection.
7. Within 24-hours of the completion of the OWTS, the design professional must notify the Westchester County Department of Health (WCDH) that the OWTS is ready for inspection by submitting a completed request for an open works inspection on the appropriate form to WCDH.
8. That no backfilling of a completed OWTS can occur until after it has been inspected and accepted by the Westchester County Department of Health.
9. After backfilling the OWTS, the area shall be covered with a minimum of 4 inches of clean topsoil, seeded and mulched.
10. The installation of the OWTS shall be in accordance with the Rules and Regulations for the Design and Construction of Residential Subsurface Sewage Treatment Systems and Drilled Wells in Westchester County, NY.
11. All pipes connecting to tank and boxes shall be cut flush with the inside wall of box.
12. The proposed OWTS shall be installed by a Westchester County licensed septic contractor.
13. Prior to any excavation all underground utilities must be located. Call 1-800-962-7962.
14. The Westchester County Health Department approval expires one year from the date on the approval stamp and is required to be renewed on or before the expiration date. The approval is revocable for cause or may be amended or modified when considered necessary by the department.
15. For properties located in NYC Watershed, the following information is needed
   A. There are no reservoirs, reservoir stems or controlled lake within 500 feet of the proposed OWTS unless otherwise shown on plan.
   B. There are no NYSDEC wetlands or watercourses within 200 feet of the proposed OWTS unless otherwise shown on plan.
   C. NYCDEP must be contacted at least two days prior to start of construction of the OWTS so that the NYCDEP may inspect and monitor the installation.

Well Installation Notes

A. Well to be installed by a NYS Department of Environmental Conservation registered well driller.

B. The minimum well yield is 5 gpm, yields less than 5 gpm must be immediatley reported to this department.

C. Drilled well to be sampled and tested in accordance with WCDH private Well testing Law.(only for new wells).

Additional Notes

1. All erosion control measures shall be installed prior to the start of any construction.
2. Cut or fill is not permitted in the SSTS area except if so specified on this plan
3. The SSTS design shown hereon does not provide for installation of a garbage grinder. Such installation requires additional design and approval of the Westchester County Department of Health.
4. Occupancy of this structure will not be permitted until the Construction Compliance Application has been received and approved by the Westchester County Department of Health and forwarded to the Building Inspector of the respective municipality as part of the Certificate of Occupancy application.
5. A copy of the house plans submitted to the Building Inspector of the local municipality, when filing for a Building Permit, must be submitted to the Westchester County Department of Health to verify the bedroom count
6. All stone walls in and within 10 feet of the SSTS area shall be removed to their entire depth and the resulting void replaced with similar on-site soil.

CONSTRUCTION NOTES

1. THE CONTRACTOR SHALL REMOVE AND STOCKPILE AVAILABLE TOPSOIL AT THE SITE; NOT TO BE PLACED IN AREA OF FUTURE SEPTIC SYSTEM.
2. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL MATERIALS NECESSARY FOR COMPLETE INSTALLATION AS PER THESE PLANS.
3. THE CONTRACTOR SHALL EXCAVATE ALL ORGANIC MATERIAL FROM EXISTING TRENCH AREA.
4. SEPTIC SYSTEM SHALL BE INSTALLED INTO EXISTING GRADE
5. SEPTIC SYSTEM NOT TO BE DRIVEN OVER PRIOR TO AND AFTER CONSTRUCTION
6. CONTRACTOR MUST VERIFY ALL LOCATIONS IN THE FIELD. IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY P. W. SCOTT ENGINEERING & ARCHITECTURE, P. C. IF ANY DEVIATION OR ALTERATION IS REQUIRED FOR COMPLETION OF THIS PROJECT.

N

VICINITY MAP
1" = 500'

INVERT CHARTS

INVERT CHART

FF	488.50	
Garage	487.00	
Crawl space with footing drains		
Septic Line Out	486.60	
Septic Tank In	486.25	
Septic Tank Out	486.00	
Septic Tank FG	488.00	(< 12" over)
Pump Tank In	485.90	
Pump Tank Out	485.80	
Bottom Pump	481.90	
Pump Chamber FG	488.00	

DBOX #	Exist Grade	Inv In	Inv Out	Proposed Grade
1(PRIMARY)	492.3	492.2	492	493.5
2 (RESERVE)	491.0	490.9	490.7	493.2

FIELDS	Exist Grade	Top of Fill	Final Grade 6" Topsoil	Trench Inv In
Primary				
P1	491.2	492.2	492.7	491.7
P2	489.6	490.6	491.1	490.1
P3	488.2	489.2	489.7	488.7

RESERVE	Exist Grade	Top of Fill	Final Grade 6" Topsoil	Trench Inv In
R1	490.0	491.0	491.5	490.5
R2	488.3	489.3	489.8	488.8
R3	487.3	488.3	488.8	487.8

PROPOSED FILL NOTES:

1. SITE MODIFICATION ACTIVITIES INVOLVING PLACEMENT OF FILL ARE TO BE CONDUCTED DURING RELATIVELY DRY PERIODS TO MINIMIZE SOIL SMEARING AND EXCESSIVE SOIL COMPACTION. NO MACHINERY TO PASS WITHIN 5' OF SEPTIC AREA BEFORE OR AFTER FILL PLACEMENT. EROSION CONTROLS TO BE IN PLACE BEFORE PLACEMENT OF FILL. TRESS SHOULD BE CUT LEAVING ROOTS IN PLACE. SITE SHOULD BE PLOWED PERPENDICULAR TO THE SLOPE TO A DEPTH OF 8-12 INCHES TO PENETRATE THE TOPSOIL LAYER.
2. THE REQUIRED DEPTH OF FILL WITHIN THE SEWAGE TREATMENT SYSTEM AREA IS 12" MIN WHICH APPROXIMATES TO 140 CUBIC YARD PRIMARY; 120 CUBIC YARDS FOR RESERVE.

   FILL TO BE SUITABLE FOR SEWAGE ABSORPTION, BE FREE OF FINES OR OTHER UNSUITABLE MATERIAL, AND SHALL HAVE AN IN-PLACE PERCOLATION RATE UNDER 10MIN/INCH THE DESIGN PROFESSIONAL SHALL PERFORM A MINIMUM OF TWO (2) PERCOLATION TESTS IN THE FILL AFTER STABILIZATION IS ACHIEVED.
3. FILL SUITABLE FOR SEWAGE ABSORPTION SHOULD CONTAIN THE FOLLOWING BY WEIGHT. THE FILL SHALL HAVE LESS THAN 5% FINES(#200) BY WEIGHT, PREFERABLY UNDER 2% FILL SHALL BE RUN OF BANK SAND & GRAVEL, INSTALLED WITH NO TAMPING, ROLLING OR PUDDLE.

SIEVE SIZE	PERCENT PASSING
#4	100 PERCENT
#10	70-100 PERCENT
#40	10 -50 PERCENT
#100	0 - 10 PERCENT
#200	0 - 5 PERCENT

   MOISTURE CONTENT OF 8" DEPTH TO BE CHECKED BEFORE CONSTRUCTION. FILL CANNOT BE PLACED ON FROZEN GROUND.
4. THE IMPERVIOUS FILL, SHALL BE A DENSE CLAY TYPE SOIL WITH LITTLE OR NO SEWAGE ABSORPTION CAPACITY.

EROSION CONTROL LEGEND

NO.	SYMBOL	DESCRIPTION	STATUS
1	SF SF	SILT FENCE	TEMPORARY SEE DET. SP2 PLACE PARALLEL TO GRADE-CONTOURS
2		CONSTRUCTION FENCE	AROUND EDGE SEPTIC FILL: SEE DET.SP2
3		TOPSOIL STOCKPILE AREA	TEMPORARY SEE DET. SP2 RING WITH SILT FENCE
4		CONSTRUCTION ENTRANCE	TEMPORARY SEE DET. SP2 PLACE @ EA. POINT OF ENTRY INTO SITE

REFER TO SY1 FOR IRSP DETAILS

SURVEY NOTES:

1. INFORMATION TAKEN FROM CHICAGO TITLE COMPANY AND PLANS PREPARED BY BIBBO ASSOCIATES, DATED 2002
2. AREA OF LOT: 4.04 ACRES
3. ZONING R2A ZONE: : FYSB: 50', RYSB& SYSB: 40'
4. REFER TO SURVEY FOR OVERALL PROPERTY DESCRIPTION- DWG SP1A

PERCOLATION TESTS

Percolation Tests: Pre-soaked on July 15, 2021;
Recorded July 16, 2021

PT 1
1" drop in 5.0 minutes
PT 2
1" drop in 5.0 minutes
PT 3
1" drop in 18 minutes (Governs)

DESIGN DATA

2 BEDROOM (PROPOSED)
BASED UPON 2022 WCDOH REGULATIONS
FLOW PER BEDROOM: 110 GPD

TOTAL FLOW: (2) 110 = 220 GPD
Design Application Rate: 16min/inch-20 min/inch: 0.53GPD/SF

12" FILL REQUIRED

SYSTEM DESIGN: 220 GPD

SLOPE ACROSS OWTS: 15-20%
A WAIVER IS REQUIRED: sECTION 4.0.I SLOPES, 1.A.ii. REFER TO NYCDEP LOG #1998-CR-0637-I

SEPTIC TANK: 1000 Gallons

Refer to table 4 for 2 bedrooms: 220 lf req'd

Primary: 3 rows of 74 lf @ 6.0' oc with74' spread
Reserve: 3 rows of 74 lf @ 6.0' oc with 74' spread

Pump-up system required, refer to drawing SP3

GENERAL RELEASE

Refer to judicial Decision dated September 18, 2003, a general release is required to be submitted by the owner to the Department for review and approval and filed in the Westchester County Land Records Office and proof of which will be required to be submitted prior to the issuance of the Certificate of Construction Compliance by the Department.

DEEP TEST PIT DATA

Deep tests completed on July 7, 2021 witnessed by WCDOH.

DT 1
- 0 - 6" Topsoil
- 6"- 42" Medium Compact Sandy Loam
- 42" – 7'0" Moderate to Tight Sandy Loam
- 70" Medium Fine Sand
- 72" No Water
- No Ledge

DT 2
- 0-6" Topsoil
- 6"-84" Medium Compact Sandy Loam
- 42" – 6'-0" Moderate Compact Sandy Loam
- 6'-0" Ledge
- No Water

DT 3
- 0 - 6" Topsoil
- 6"- 44" Medium Compact Sandy Loam
- 44" – 72" Tighter Compact Snady Loam
- 6'-0" Ledge
- No Water

DT 4
- 0-6" Topsoil
- 6"- 36" Medium Compact Silt
- 36" – 78" Medium Fine Sand w/Silt
- 78" Sand with Silt
- No Ledge
- No Water

DT 5
- 0-6" Topsoil
- 6"- 36" Medium Compact Sandy Loam
- 36" – 72" Tighter Compact Sandy Loam
- 6'-0" Ledge
- No Water

DT 6
- 0-6" Topsoil
- 6"- 24" Medium Compact Sandy Loam
- 24" – 7'0" Medium Fine Sand Trace Silt
- No Ledge
- No Water

PROPERTY IDENTIFICATION

OWNER:	ALEX BERNABO wDESIGNE, INC.
ADDRESS:	3867 DANBURY ROAD BREWSTER NY 10509
E911 # :	96 POST OFFICE ROAD, LEWISBORO
LEWISBORO 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

GENERAL NOTES FOR NYC WATERSHED

1. SEPTIC SYSTEM INSTALLATION:START OF CONSTRUCTION: OCT 2023
   COMPLETION DATE: DEC 2023
2. LIMIT OF DISTURBANCE = 19,600 sf; septic & fill, house, well, driveway,bio-ret basin
3. SOILS ON PROPERTY: PAXTON Pnc; WOODBRIDGE, WdC & SUN LOAM Sh
4. PROPERTY IS IN CROSS RIVER WATERSHED.
5. THIS SEPTIC SYSTEM REQUIRES A WAIVER FROM THE 15% SLOPE LIMIT TO A 20% LIMIT DUE TO THE SITE TOPOGRAPHY AND THAT THE LOT WAS FROM 2002 TO 2016 UNDER THE NAME: KONETCHY PROPERTY,(TAX ID25-10812-3) DEP LOG # 1998-CR-0637-IR.
6. THERE ARE NO EXISTING OR PROPOSED OWTS WITHIN ONE HUNDRED (100) FEET OF THE PROPOSED WELL OR WITHIN TWO HUNDRED(200) FEET IN DIRECT LINE OF DRAINAGE TO THE PROPOSED WELL.
7. THERE ARE NO EXISTING OR PROPOSED WELLS WITHIN ONE HUNDRED(100) FEET OF THE PROPOSED OWTS.

LEGEND

- PROPERTY LINE
- EXISTING CONTOUR
- EXISTING SPOT ELEVATION
- PROPOSED CONTOUR
- HIGH POINT IN GRADE
- PROPOSED SPOT ELEVATION
- PERCOLATION TEST HOLE
- DEEP TEST HOLE
- PROPANE LINE
- ROOF AND FOOTING DRAIN
- SOIL TYPE LINE
- SILT FENCE
- LOCAL WETLAND LINE
- PROPOSED SWALE
- WATER LINE
- PROPOSED WELL
- STREAM 100' SETBACK LINE
- CONSTRUCTION FENCE

SOILS LEGEND

WdC- Woodbridge, 8 TO 15 PERCENT SLOPES.
Sh- Sun loam
PnC-Paxton silt Loam, 8 to 15 PERCENT SLOPES

96 POST OFFICE ROAD LEWISBORO SEPTIC SITE PLAN

SCALE:1"=20'

OWTS SEQUENCE OF CONSTRUCTION

1. Install silt fence
2. Install construction fence
3. Install new 1000 gal septic tank and 1000 gal dose tank
4. Plow the topsoil for penetration and install Septic fill of 12" deep.- refer to septic fill notes.
5. Install the trenches by excavating into new fill.
6. Install force main piping from new dose chamber to D-Box as noted on details.
7. Install sewage pumps with appropriate dose cycles - Engineer of Record to field-test for compliance
8. Schedule As Built Field Inspection with Westchester County Department of Health
9. Topsoil and seed as required. Once grass is in place remove silt fence.
10. Install the well with water lines extending to the garage slab conduit.

NOTE: DO NOT SCALE DRAWINGS DIMENSIONS SUPERCEDE SCALE

CALL BEFORE YOU DIG
CALL 1-800-922-4455
PRIOR TO ANY EXCAVATIONS THAT TAKE PLACE ON THE SITE. THE LOCATION OF ALL UTILITIES ON THE PROPERTY, SERVICE LINES AND PUBLIC UTILITIES ON THE STREET MUST BE DEFINED.

WESTCHESTER COUNTY APPROVAL STAMP

P. W. SCOTT
ENGINEERING & ARCHITECTURE, P.C.
3871 ROUTE 6
BREWSTER, NY 10509 845-278-2110

Revisions		
No.	Date	Description
A	11/4/21	REVISED PER WCDOH10/8/21 MEMO
B	12/2/21	REVISED PER NYCDEP 11/8/21MEMO
C	3/30/23	REVISED 2022 CODE & IRSP
D	5/8/23	REVISE PER WCDOH 5/8/23 MEMO

Dwg. Title	SEPTIC PLAN-NEW CONSTRUCTION	Seal	Dwg. No.
Project Title	96 POST OFFICE ROAD, LEWISBORO,NY		SP1
Proj. No.	21-110	Drawn by	MA/PWS
Date	9/20/21	Scale	AS NOTED