ROBERT LAGA
Chairman

ANTHONY DUSOVIC
Vice-Chair

ROSE TROMBETTA
Secretary

DAVID KLOTZLE
Wetland Inspector

TOWN OF CARMEL

ENVIRONMENTAL CONSERVATION BOARD

60 McAlpin Avenue
Mahopac, New York 10541
Tel. (845) 628-1500 - Ext. 190
www.ci.carmel.ny.us

BOARD MEMBERS

Edward Barnett
Marc Pekowsky
Vincent Turano
Nicholas Fannin
John Starace

ENVIRONMENTAL CONSERVATION BOARD AGENDA

April 7, 2016 – 7:30 P.M.

ELIGIBLE FOR A PERMIT

APPLICANT	ADDRESS	TAX MAP #	COMMENTS
1. Random Ridge Subdivision	Kennicut Hill Rd	76.10-1-23	29 Lot Cluster Subdivision (Discussion)

SUBMISSION OF AN APPLICATION OR LETTER OF PERMISSION

2. Panny, Michael	61 Sandy Street	76.16-1-26	Construct Single Family Home
3. Meyers, Paul	56 Sycamore Rd	76.5-1-21	Partial 2nd floor Addition and Deck
4. Cavallaro, Jane	284 West Lake Blvd.	64.16-1-22	New Foyer to Existing House
5. Butler, Dave	137 Weber Hill Rd	65.16-1-21	Repair Pond & Driveway
6. Kleinschmidt, Leslie & Ned	41 Averill Drive	64.16-1-33	Renovations to Existing Home
7. Meadowland Extension	1979 Route 6	55.15-1-20	Site Plan (Planning Board Referral)

MISCELLANEOUS

8. Minutes – 03/03/16

ROBERT LAGA
Chairman

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APPLICATION FOR WETLAND PERMIT OR LETTER OF PERMISSION

Name of Applicant: MICHAEL PANNY

Address of Applicant: 167 CHERRY HILL RD CARMEL, NY 10512 **Email:**

Telephone# **Name and Address of Owner if different from Applicant:**

ANN ARCHER 1 UNION VALLEY ROAD MAHOPAC NY 10541

Property Address: 61 SANDY STREET **Tax Map #** 76.16 - 1-26
Agency Submitting Application if Applicable: NA
Location of Wetland: OFF SANDY STREET. DEC WETLAND CF-3
Size of Work Section & Specific Location: 9,550 ft2 +/-
Will Project Utilize State Owned Lands? If Yes, Specify: NO

Type and extent of work (feet of new channel, yards of material to be removed, draining, dredging, filling, etc). A brief description of the regulated activity (attach supporting details).
PORTION OF HOUSE, DRIVEWAY, REAR YARD W/ SWALE AND INFILTRATORS FOR STORMWATER MANAGEMENT, INFILTRATOR OUTLET PIPES W/ STONE AND APPROXIMATELY 500 CY OF FILL

Proposed Start Date: 4/20/16 **Anticipated Completion Date:** 10/20/16 **Fee Paid $** 1000-

****

CERTIFICATION

I hereby affirm under penalty of perjury that information provided on this form is true to the best of my knowledge and belief, false statements made herein are punishable as a Class A misdemeanor pursuant to Section 210.45 of the Penal Law. As a condition to the issuance of a permit, the applicant accepts full legal responsibility for all damage, direct or indirect, or whatever nature, and by whomever suffered, arising out of the project described here-in and agrees to indemnify and save harmless the Town of Carmel from suits, actions, damages and costs of every name and description resulting from the said project.

SIGNATURE

1/27/16
DATE

617.20
Appendix B
Short Environmental Assessment Form

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

MICHAEL PANNY

Name of Action or Project:

MICHAEL PANNY WETLANDS PERMIT

Project Location (describe, and attach a location map):

61 SANDY STREET, TOWN OF CARMEL

Brief Description of Proposed Action:

TO CONSTRUCT PORTION OF HOUSE AND DRIVEWAY WITHIN THE WETLAND BUFFER. APPROXIMATELY 500 c.y. OF FILL FOR GRADING PURPOSES. INSTALL SWALE AND INFILTRATORS TO HANDLE STORMWATER.

Name of Applicant or Sponsor: MICHAEL PANNY

Telephone: [illegible]

E-Mail: [illegible]

Address: 167 CHERRY HILL ROAD

City/PO: CARMEL

State: NY

Zip Code: 10512

	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.	X	
2. Does the proposed action require a permit, approval or funding from any other governmental Agency? If Yes, list agency(s) name and permit or approval: NYSDEC WETLAND PERMIT; NYC DEP INDIVIDUAL RESIDENTIAL S.W.P.P.P		X

3.a. Total acreage of the site of the proposed action? 3.32 acres
b. Total acreage to be physically disturbed? 0.57 acres
c. Total acreage (project site and any contiguous properties) owned or controlled by the applicant or project sponsor? 3.32 acres

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

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

	NO	YES
6. Is the proposed action consistent with the predominant character of the existing built or natural landscape?		X
7. Is the site of the proposed action located in, or does it adjoin, a state listed Critical Environmental Area? If Yes, identify: _____	X	
8. a. Will the proposed action result in a substantial increase in traffic above present levels?	X	
b. Are public transportation service(s) available at or near the site of the proposed action?	X	
c. Are any pedestrian accommodations or bicycle routes available on or near site of the proposed action?	X	
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: _____	X	
10. Will the proposed action connect to an existing public/private water supply? If No, describe method for providing potable water: _____		X
11. Will the proposed action connect to existing wastewater utilities? If No, describe method for providing wastewater treatment: ON SITE SUBSURFACE SANITARY DISPOSAL FIELDS	X	
12. a. Does the site contain a structure that is listed on either the State or National Register of Historic Places?	X	
b. Is the proposed action located in an archeological sensitive area?	X	
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?		X
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: _____	X	

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?	X	
16. Is the project site located in the 100 year flood plain?	X	
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? ☐ NO ☒ YES		X
b. Will storm water discharges be directed to established conveyance systems (runoff and storm drains)? If Yes, briefly describe: ☒ NO ☐ YES		

	NO	YES
18. Does the proposed action include construction or other activities that result in the impoundment of water or other liquids (e.g. retention pond, waste lagoon, dam)? If Yes, explain purpose and size:	X	
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: SOLID WASTE HAS BEEN DUMPED ON THE PROPERTY IN THE WETLAND BUFFER. A PERMIT FROM N.Y.S. D.E.C HAS BEEN ISSUED TO CLEAN UP THE SITE.		X
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:	X	

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

Applicant/sponsor name: MICHAEL PANNY Date: 1/27/16

Signature:

Part 2 - Impact Assessment. The Lead Agency is responsible for the completion of Part 2. Answer all of the following questions in Part 2 using the information contained in Part 1 and other materials submitted by the project sponsor or otherwise available to the reviewer. When answering the questions the reviewer should be guided by the concept "Have my responses been reasonable considering the scale and context of the proposed action?"

	No, or small impact may occur	Moderate to large impact may occur
1. Will the proposed action create a material conflict with an adopted land use plan or zoning regulations?		
2. Will the proposed action result in a change in the use or intensity of use of land?		
3. Will the proposed action impair the character or quality of the existing community?		
4. Will the proposed action have an impact on the environmental characteristics that caused the establishment of a Critical Environmental Area (CEA)?		
5. Will the proposed action result in an adverse change in the existing level of traffic or affect existing infrastructure for mass transit, biking or walkway?		
6. Will the proposed action cause an increase in the use of energy and it fails to incorporate reasonably available energy conservation or renewable energy opportunities?		
7. Will the proposed action impact existing: a. public / private water supplies?		
b. public / private wastewater treatment utilities?		
8. Will the proposed action impair the character or quality of important historic, archaeological, architectural or aesthetic resources?		
9. Will the proposed action result in an adverse change to natural resources (e.g., wetlands, waterbodies, groundwater, air quality, flora and fauna)?		

	No, or small impact may occur	Moderate to large impact may occur
10. Will the proposed action result in an increase in the potential for erosion, flooding or drainage problems?		
11. Will the proposed action create a hazard to environmental resources or human health?		

Part 3 - Determination of significance. The Lead Agency is responsible for the completion of Part 3. For every question in Part 2 that was answered "moderate to large impact may occur", or if there is a need to explain why a particular element of the proposed action may or will not result in a significant adverse environmental impact, please complete Part 3. Part 3 should, in sufficient detail, identify the impact, including any measures or design elements that have been included by the project sponsor to avoid or reduce impacts. Part 3 should also explain how the lead agency determined that the impact may or will not be significant. Each potential impact should be assessed considering its setting, probability of occurring, duration, irreversibility, geographic scope and magnitude. Also consider the potential for short-term, long-term and cumulative impacts.

☐ Check this box if you have determined, based on the information and analysis above, and any supporting documentation, that the proposed action may result in one or more potentially large or significant adverse impacts and an environmental impact statement is required.

☐ Check this box if you have determined, based on the information and analysis above, and any supporting documentation, that the proposed action will not result in any significant adverse environmental impacts.

Name of Lead Agency	Date
Print or Type Name of Responsible Officer in Lead Agency	Title of Responsible Officer
Signature of Responsible Officer in Lead Agency	Signature of Preparer (if different from Responsible Officer)

PROJECT NARRATIVE
For

Sandy Lane Subdivision
Lot #1

61 SANDY STREET
Town of Carmel
TM #76.16-1-26

(R01603_Pr.Narr.)

The Town of Carmel Planning Board approved the 14 lot Sandy Lane Subdivision on May 17, 1989. The property contains a portion of New York State Department of Environmental Conservation Wetland LC-3. As such the subdivision was reviewed by both the N.Y.S.D.E.C. and Town of Carmel Environmental Conservation Board. The project received approval from the Town of Carmel Environmental Conservation Board as well as the New York State Department of Environmental Conservation. The filed plat contains the N.Y.S.D.E.C. wetland limit as well as a 'Limit of Owner Disturbance line', which is roughly 50 feet inside the wetland buffer.

Lot #1 of the subdivision is owned by Ann Archer whose late husband Lee was the original developer. Lee Archer received and maintained a N.Y.S.D.E.C. wetlands' permit throughout the 1990's. In 2001 Mr. Archer requested an extension at which point the D.E.C. informed him that the wetland needed re-flagging due to the amount of time which had elapsed (10 years^{+} from the original approval). A copy of that letter is included in the application package.

Over the course of time the property has been subjected to fill being dumped as well as debris, which came to the attention of the N.Y.C.D.E.P. as they performed regular inspections of lands owned by The City of New York (adjacent property). The city noticed in 2009, exposed solid waste and iron floc deposits in surface waters. The City notified the state of their observations and a follow-up inspection was performed by D.E.C.

In 2009 Putnam Engineering, PLLC (P/E) was retained to provide engineering services and contacted the N.Y.S.D.E.C. to ascertain the protocol for cleaning up the debris that had been partially buried in the wetland buffer. A series of water samples were taken and laboratory test performed as stipulated by the D.E.C. As a result and in accordance with the N.Y.S.D.E.C. regulations, a plan was developed to remove the debris. Approval was granted and the required permit issued and subsequently extended.

During the course of working with N.Y.S.D.E.C., P/E performed field testing with the Putnam County Health Department and found that the original approved septic area (as shown on the filed map) had been compromised by years of filling and excavating. The original approved septic area was deemed unusable. P/E performed additional deep hole and percolation testing on the property and ultimately located a suitable site which is outside the 100 foot wetland buffer limit to place the septic system. A Construction Permit from the P.C.H.D. was ultimately approved and that approval is valid until December 2016.

Since the subdivision was created prior to the 1996 memorandum of agreement between the N.Y.C. Department of Environmental Protection and Putnam County, this lot was subject to filing for a Residential Stormwater Pollution Prevention permit from the N.Y.C.D.E.P. That permit was granted on April 29, 2011 and is current. An extension has been requested as work cannot be completed before the expiration date of April 29, 2016.

The plan that has been developed proposes less disturbance and intrusion within the wetland buffer when compared to the 1989 approval. In 1989, with the limit of Owner Disturbance, the homeowner could disturb approximately 0.44 acres within the wetland buffer. The current proposal only proposes 0.22 acres of wetland buffer disturbance. It should be noted that the N.Y.S. D.E.C. as part of developing a clean-up plan stipulated a deed restriction be placed in the deed. This has been done and a copy of the deed provided with this submission. The deed restriction note can also be found on the SSTS Plan, Sheet SS-1, Sheet 1 of 2.

The area of wetland buffer disturbance for the construction of this lot is approximately 9,550 square feet (0.22 acres) which will be comprised of lawn, infiltration, small portion of residence and a small portion of the driveway. Please be aware that the house has been cited so that it will be at the zoning setback line (front yard) and as close to the street as possible.

PML/tal
Enclosures

Environmental Protection

Emily Lloyd
Commissioner

Paul V. Rush, P.E.
Deputy Commissioner
Bureau of Water Supply
prush@dep.nyc.gov

465 Columbus Avenue
Valhalla, New York 10595

T: (845) 340-7800
F: (845) 334-7175

January 27, 2016

Mr. Paul M. Lynch, P.E.
Putnam Engineering, PLLC
4 Old Route 6,
Brewster, NY 10509

Re: Sandy Lane Subdivision Lot #1
Individual Residential Stormwater Permit
Sandy Street; Tax Map #76.16-1-26
(T) Carmel; (C) Putnam
Croton Falls Reservoir Drainage Basin
DEP Log #2008-CF-0811-IR.1

Dear Mr. Lynch:

This letter is in reference to the Individual Residential Stormwater Permit (IRSP) approved by the New York City Department of Environmental Protection (DEP) for the above-referenced regulated activity on April 29, 2011, 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). DEP has received your January 19, 2016 letter requesting an extension of the IRSP approval. Upon review and in accordance with Section 18-23(a)(1) of the Watershed Regulations, DEP grants an extension of the IRSP approval for two (2) years subject to the conditions noted in the April 29, 2011 IRSP Determination. The new expiration date for the IRSP for Sandy Lane Subdivision Lot #1 in the Town of Carmel, Putnam County, New York is April 29, 2018.

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 is 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 is necessary, the Department will notify the regulated party, via certified 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.

Please contact Mary P. Galasso at (914) 773-4440 at least 2 days prior to the start of construction so that DEP may inspect and monitor the erosion control practices. A copy of the original determination and a copy of this letter must be available at the project site during construction.

If you have any questions regarding this matter, please do not hesitate to contact me at (914) 773-4411.

Sincerely,

Andreea A. Oncioiu
Associate Project Manager II
Regulatory & Engineering Programs

c: Town of Carmel Planning Board
Mr. Michael J. Budzinski, P.E. - Putnam County DOH
Lormat Construction Co. c/o Mark Dratch

New York State Department of Environmental Conservation
Division of Environmental Permits, Region 3
21 South Putt Corners Road, New Paltz, New York 12561-1620
Phone: (845) 256-3054 **FAX:** (845) 255-4659
Website: www.dec.ny.gov

Joe Martens
Commissioner

November 17, 2014

Paul M. Lynch
Putnam Engineering, PLLC
4 Old Route 6
Brewster, New York 10509

Re: Proposed Single Family Residence – 61 Sandy Lane
Town of Carmel, Putnam County
DEC Permit ID No. 3-3720-00072/00004

PERMIT EXTENSION

Dear Mr. Lynch:

The New York State Department of Environmental Conservation (DEC) has reviewed your written request, on behalf of Lormat Construction Corporation, dated November 11, 2014, to extend the above referenced Freshwater Wetland permit. From your submission, we understand that the authorized work will not be completed by the expiration of the permit.

In accordance with this request, the permit is hereby extended to December 31, 2016. All other terms and conditions remain as written in the permit originally issued with an effective date of March 11, 2011. Please attach this extension notice to the front of your permit. A new permit notice sign is also enclosed which must be posted conspicuously at the work site with appropriate weather protection. In addition, the Department has updated our database to reflect the new mailing address of the legally responsible party.

If you have any questions, please feel free to contact me at (845) 256-2250.

Sincerely,

Scott Ballard
Deputy Regional Permit Administrator
Region 3

enc: Permit Notice Sign

cc: Lormat Construction Corporation
B. Drumm, R3 DEC
S. Parisio, R3 DEC

New York State
Department of Environmental Conservation

NOTICE

The Department of Environmental Conservation (DEC) has issued permit(s) pursuant to the Environmental Conservation Law for work being conducted at this site. For further information regarding the nature and extent of work approved and any Department conditions on it, contact the DEC at 845/256-3054. Please refer to the permit number shown when contacting the DEC.

Permittee: Lermet Construction Corp Permit No. 3- 3720-00072/00004

Effective Date: 7/11/2011 Expiration date: 12/31/2016

☐ Applicable if checked. No instream work allowed between October 1 & April 30

NOTE: This notice is **NOT** a permit.

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Facility DEC ID 3-3720-00072

PERMIT

Under the Environmental Conservation Law (ECL)

Permittee and Facility Information

Permit Issued To:
LORMAT CONSTRUCTION CORP
4 APPLE HILL CT
SOUTH SALEM, NY 10590
(914) 763-9788

Facility:
SANDY LANE
61 SANDY ST
MAHOPAC, NY 10541

Facility Location: in CARMEL in PUTNAM COUNTY **Village:** Mahopac
Facility Principal Reference Point: NYTM-E: 609.3 NYTM-N: 4580.1
Latitude: 41°21'54.0" Longitude: 74°41'35.4"
Authorized Activity: This permit authorizes the constructon of a single family residence along with activities associated with the approved "Landfill Remediation Plan" within NYSDEC Freshwater Wetland CF-3 (Class I) and its regulated 100 foot Adjacent Area.

Permit Authorizations

Freshwater Wetlands - Under Article 24
Permit ID 3-3720-00072/00004
New Permit Effective Date: 3/11/2011 Expiration Date: 12/31/2014

NYSDEC Approval

By acceptance of this permit, the permittee agrees that the permit is contingent upon strict compliance with the ECL, all applicable regulations, and all conditions included as part of this permit.

Permit Administrator: DANIEL T WHITEHEAD, Deputy Regional Permit Administrator
Address: NYSDEC REGION 3 HEADQUARTERS
21 SOUTH PUTT CORNERS RD
NEW PALTZ, NY 12561 -1620

Authorized Signature: Date 3/9/2011

Distribution List

BRIAN DRUMM
Sandy Lane Investors Inc.
Putnam Engineering PLLC

Permit Components

NATURAL RESOURCE PERMIT CONDITIONS

GENERAL CONDITIONS, APPLY TO ALL AUTHORIZED PERMITS

NOTIFICATION OF OTHER PERMITTEE OBLIGATIONS

Permit Attachments

Permit Sign
Miscellaneous Correspondence

NATURAL RESOURCE PERMIT CONDITIONS - Apply to the Following Permits: FRESHWATER WETLANDS

1. **Conformance With Plans** All activities authorized by this permit must be in strict conformance with the approved plans submitted by the applicant or applicant's agent as part of the permit application. Such approved plans were prepared by Putnam Engineering PLLC and as described in Natural Resource Condition # 2.

2. **Approved Plans** The approved plans consist of the following sheets, titled "Lormat Construction: Sandy Lane Subdivision Lot #1, Sandy Street, Town of Carmel, Putnam, NY":

Drawing Number	Drawing Title	Dated
C-160 (Sheet 1 of 2)	*Erosion and Sediment Control Plan*	9/3/09 rev. 12/16/09
C-310 (Sheet 2 of 2)	*Details*	9/3/09 rev. 12/16/09
LRP-1 (Sheet 1 of 1)	*Landfill Remediation Plan*	6/24/10 rev. 3/8/11

3. **Notice of Intent to Commence Work** The permittee shall submit a Notice of Intent to Commence Work to Brian Drumm, DEC Bureau of Habitat, at least 48 hours in advance of the time of commencement.

4. **Post Permit Sign** The permit sign enclosed with this permit shall be posted in a conspicuous location on the worksite and adequately protected from the weather.

5. **Invasive Species Management** Construction equipment must be cleaned/washed prior to being brought to the work site so that the introduction of seeds, roots, etc. from previous work site are not introduced in the project area. This condition is intended to prevent the introduction of invasive nonnative species to the project site.

6. **Maintain Erosion Controls** Prior to commencement of the activities authorized herein, the permittee shall install securely anchored silt fencing and/or continuous staked straw bales as shown on the plans or drawings referenced in this permit. These erosion control devices shall be maintained until all disturbed land is fully vegetated to prevent any silt or sediment from entering the freshwater wetland or its adjacent area. Silt fencing, hay bales and any accumulated silt or sediment shall be completely removed for disposal at an appropriate upland site.

7. **Stockpile Areas** Excavated materials and/or fill materials shall be stockpiled more than 100 feet landward of the wetland or water body and shall be contained by straw bales or silt fencing to prevent erosion.

8. **No Equipment in Wetland** Use of equipment shall be limited to the 100 foot adjacent area (and further upland) only. No equipment is allowed within the regulated Freshwater Wetland CF-3. All exposed solid waste within regulated Freshwater Wetland CF-3 shall be removed by hand and disposed of off-site at an approved landfill by a licensed carting company.

9. **Split Rail Fence** The split rail fence or equivalent wetland adjacent area barrier, as approved by the Department, must be installed at the location shown on the approved plan(s) referenced in this permit. A notice of completion of this work, with photographic documentation must be submitted to DEC's Region 3 Permit Administrator within two weeks of project completion, or by the expiration of the permit, whichever is first.

10. **Water Well** The proposed water well shall be drilled and tested in consultation with the Putnam County Health Department (PCHD) for parameters which would be indicative of landfill derived ground water contamination. The well is to be sampled as directed by the PDHD.

11. **Pollution Prevention** The permittee shall employ measures sufficient to prevent contamination of the freshwater wetland by sediment, fuels, concrete leachate or any other pollutants associated with construction or construction procedures.

12. **Seed, Mulch Disturbed Soils** All areas of soil disturbance resulting from this project shall be seeded with an appropriate perennial grass seed and mulched with straw within one week of final grading.

13. **Deed Covenant for Individual Lot** This property contains portions of New York State regulated Freshwater Wetland CF-3 and/or its regulated 100 foot adjacent area. Accordingly, the deed for this property shall be amended to contain the following notice:

"This property contains New York State regulated freshwater wetlands and/or regulated 100 foot adjacent area. For as long as any portion of the property described in this deed is subject to regulation under Article 24 (the Freshwater Wetlands Act) of the Environmental Conservation Law (ECL) of the State of New York, there shall be no construction, grading, filling, excavating, clearing or other regulated activity as defined by Article 24 of the ECL on this property within the wetland area or its 100 foot adjacent areas at any time without having first secured the necessary permission and permit required pursuant to the above noted Article 24 from the NYS Department of Environmental Conservation (DEC). This restriction shall bind the Grantees, their successors and assigns and shall be expressly set forth in all subsequent deeds to this property."

By 9/1/2011, the permittee shall file with the real property records of the County Clerk's Office this deed notice revision. The permittee shall, within two weeks following the filing of the deed notice revision, submit proof of filing from the County Office showing the Liber and page number at which the deed notice revision was filed and the date of filing to

Regional Permit Administrator
NYSDEC REGION 3 HEADQUARTERS
21 SOUTH PUTT CORNERS RD
NEW PALTZ, NY12561 -1620

to document compliance with this condition.

14. **Deed Covenant for Nonhazardous Inactive Landfill** The property deed shall be modified to indicate that the property contains "solid waste from a nonhazardous inactive landfill" and shall be maintained in the deed in perpetuity. The deed shall note that the property has been granted an exemption by the NYSDEC in accordance with 6 NYCRR Part 360-11.7(b)(9) and shall include a copy of this plan for the approved limit of disturbance.

15. **Precautions Against Contamination of Waters** All necessary precautions shall be taken to preclude contamination of any wetland or waterway by suspended solids, sediments, fuels, solvents, lubricants, epoxy coatings, paints, concrete, leachate or any other environmentally deleterious materials associated with the project.

16. **State Not Liable for Damage** The State of New York shall in no case be liable for any damage or injury to the structure or work herein authorized which may be caused by or result from future operations undertaken by the State for the conservation or improvement of navigation, or for other purposes, and no claim or right to compensation shall accrue from any such damage.

17. **State May Order Removal or Alteration of Work** If future operations by the State of New York require an alteration in the position of the structure or work herein authorized, or if, in the opinion of the Department of Environmental Conservation it shall cause unreasonable obstruction to the free navigation of said waters or flood flows or endanger the health, safety or welfare of the people of the State, or cause loss or destruction of the natural resources of the State, the owner may be ordered by the Department to remove or alter the structural work, obstructions, or hazards caused thereby without expense to the State, and if, upon the expiration or revocation of this permit, the structure, fill, excavation, or other modification of the watercourse hereby authorized shall not be completed, the owners, shall, without expense to the State, and to such extent and in such time and manner as the Department of Environmental Conservation may require, remove all or any portion of the uncompleted structure or fill and restore to its former condition the navigable and flood capacity of the watercourse. No claim shall be made against the State of New York on account of any such removal or alteration.

18. **State May Require Site Restoration** If upon the expiration or revocation of this permit, the project hereby authorized has not been completed, the applicant shall, without expense to the State, and to such extent and in such time and manner as the Department of Environmental Conservation may require, remove all or any portion of the uncompleted structure or fill and restore the site to its former condition. No claim shall be made against the State of New York on account of any such removal or alteration.

GENERAL CONDITIONS - Apply to ALL Authorized Permits:

1. **Facility Inspection by The Department** The permitted site or facility, including relevant records, is subject to inspection at reasonable hours and intervals by an authorized representative of the Department of Environmental Conservation (the Department) to determine whether the permittee is complying with this permit and the ECL. Such representative may order the work suspended pursuant to ECL 71- 0301 and SAPA 401(3).

The permittee shall provide a person to accompany the Department's representative during an inspection to the permit area when requested by the Department.

A copy of this permit, including all referenced maps, drawings and special conditions, must be available for inspection by the Department at all times at the project site or facility. Failure to produce a copy of the permit upon request by a Department representative is a violation of this permit.

2. **Relationship of this Permit to Other Department Orders and Determinations** Unless expressly provided for by the Department, issuance of this permit does not modify, supersede or rescind any order or determination previously issued by the Department or any of the terms, conditions or requirements contained in such order or determination.

3. **Applications For Permit Renewals, Modifications or Transfers** The permittee must submit a separate written application to the Department for permit renewal, modification or transfer of this permit. Such application must include any forms or supplemental information the Department requires. Any renewal, modification or transfer granted by the Department must be in writing. Submission of applications for permit renewal, modification or transfer are to be submitted to:

Regional Permit Administrator
NYSDEC REGION 3 HEADQUARTERS
21 SOUTH PUTT CORNERS RD
NEW PALTZ, NY12561 -1620

4. **Submission of Renewal Application** The permittee must submit a renewal application at least 30 days before permit expiration for the following permit authorizations: Freshwater Wetlands.

5. **Permit Modifications, Suspensions and Revocations by the Department** The Department reserves the right to modify, suspend or revoke this permit. The grounds for modification, suspension or revocation include:

a. materially false or inaccurate statements in the permit application or supporting papers;

b. failure by the permittee to comply with any terms or conditions of the permit;

c. exceeding the scope of the project as described in the permit application;

d. newly discovered material information or a material change in environmental conditions, relevant technology or applicable law or regulations since the issuance of the existing permit;

e. noncompliance with previously issued permit conditions, orders of the commissioner, any provisions of the Environmental Conservation Law or regulations of the Department related to the permitted activity.

6. **Permit Transfer** Permits are transferrable unless specifically prohibited by statute, regulation or another permit condition. Applications for permit transfer should be submitted prior to actual transfer of ownership.

NOTIFICATION OF OTHER PERMITTEE OBLIGATIONS

Item A: Permittee Accepts Legal Responsibility and Agrees to Indemnification
The permittee, excepting state or federal agencies, expressly agrees to indemnify and hold harmless the Department of Environmental Conservation of the State of New York, its representatives, employees, and agents ("DEC") for all claims, suits, actions, and damages, to the extent attributable to the permittee's acts or omissions in connection with the permittee's undertaking of activities in connection with, or operation and maintenance of, the facility or facilities authorized by the permit whether in compliance or not in compliance with the terms and conditions of the permit. This indemnification does not extend to any claims, suits, actions, or damages to the extent attributable to DEC's own negligent or intentional acts or omissions, or to any claims, suits, or actions naming the DEC and arising under Article 78 of the New York Civil Practice Laws and Rules or any citizen suit or civil rights provision under federal or state laws.

Item B: Permittee's Contractors to Comply with Permit
The permittee is responsible for informing its independent contractors, employees, agents and assigns of their responsibility to comply with this permit, including all special conditions while acting as the permittee's agent with respect to the permitted activities, and such persons shall be subject to the same sanctions for violations of the Environmental Conservation Law as those prescribed for the permittee.

Item C: Permittee Responsible for Obtaining Other Required Permits
The permittee is responsible for obtaining any other permits, approvals, lands, easements and rights-of-way that may be required to carry out the activities that are authorized by this permit.

Item D: No Right to Trespass or Interfere with Riparian Rights
This permit does not convey to the permittee any right to trespass upon the lands or interfere with the riparian rights of others in order to perform the permitted work nor does it authorize the impairment of any rights, title, or interest in real or personal property held or vested in a person not a party to the permit.

Item E: SEQR Type II Action Under the State Environmental Quality Review Act (SEQR), this project has been determined to be a Type II Action and therefore is not subject to further procedures under this law.

:w York State Department of Environmental Conservation
gion 3 Office/Solid Waste Program
South Putt Corners Road, New Paltz, New York 12561-1620
one: (845) 256-3126 $ FAX: (845) 255-3414
bsite: www.dec.ny.gov E-mail:

Joe Martens
Commissioner

March 8, 2011

aul M. Lynch, P.E.
utnam Engineering, PLLC
Old Route 6
rewster, NY 10509
ent by email to plynch@

e: Lot #1 Sandy Lane Subdivision, (Tax Map 76.16, Block 1, Lot 1) T-Carmel, Putnam County
Determination of Exemption from 6 NYCRR Part 360 Regulations

ear Mr. Lynch:

'he Department has reviewed the your plan entitled "Landfill Remediation Plan", last revised on March 8, 2011 and submitted on behalf of Lormat Construction in connection with the above éferenced property. The plan depicts a proposed residential development on a property which ncludes an inactive solid waste landfill. You have requested that disturbance of the landfill be :overed under 6 NYCRR 360-1.7(b)(9) which exempts disposal of solid waste from a ıonhazardous inactive landfill which has been excavated as part of a construction project and is ɔeing returned to the same excavation or other excavations containing similar solid waste or ɔtherwise relocated within the landfill's existing footprint, provided the handling, relocation and disposal practices are deemed acceptable to the department in writing in advance. The Department has determined that your plan is approvable and that disturbance of the landfill is exempt from Part 360 regulations, subject to the following terms and conditions:

1. The exemption from Part 360 regulations applies only if all details of the approved plan are adhered to including the plan notes. Failure to adhere to the approved plan shall render this determinatin null and void.

2. This determination is limited only to the exemption from Part 360 regulations and does not authorize site development or any construction activities. Before proceding with construction activities, the site devloper must comply with all applicable federal, state and local requirements and must obtain all necessary permits and approvals.

3. Construction of a residence or other enclosed structure on or in close proximity to a solid waste landfill raises special engineering concerns which are not present when construction is carried out over a natural soil substrate. In granting this exemption, the Department is

making no determination regarding whether those engineering concerns have been adequately addressed.

there are questions regarding this exemption determination, or the terms and conditions ılined above, please contact me.

Sincerely,

Steven Parisio
Regional Solid Waste Geologist

:cc: B. Drake, NYCDEP
M. Gianetta, NYCDEP
M. Brand
J. Murray
B. Drumm
D. Vitale

PUTNAM COUNTY DEPARTMENT OF HEALTH
DIVISION OF ENVIRONMENTAL HEALTH SERVICES

CONSTRUCTION PERMIT FOR SEWAGE TREATMENT SYSTEM

PERMIT # C-01-06

Located at SANDY STREET Town or Village CARMEL

Subdivision name SANDY LANE SUBDIVISION Subd. Lot # 1 Tax Map 76.16 Block 1 Lot 26

Date Subdivision Approved 9/11/89 Renewal X Revision X

Owner/Applicant Name LORMAT CONSTRUCTION Date of Previous Approval 10/11/12

Mailing Address 12 ROSEMARY CT., YORKTOWN HEIGHTS, NY Zip 10598

Amount of Fee Enclosed 500.00

Building Type SINGLE FAMILY RESIDENCE Lot Area 3.52 AC No. of Bedrooms 4 Design Flow GPD 600

Fill Section Only _____ **Depth** _____ **Volume** _____
PCHD NOTIFICATION IS REQUIRED WHEN FILL IS COMPLETED

Separate Sewerage System to consist of 1250 gallon septic tank and 15'x77' ABSORPTION BED

Other Requirements: 1½' R.O.B. FILL

To be constructed by TO BE DETERMINED Address

Water Supply: X Public Supply From FOREST PARK WATER COMPANY UNION VALLEY WATER SYSTEM Address

or: _____ Private Supply Drilled by _____ Address _____

I represent that I am wholly and completely responsible for the design and location of the proposed system(s) and that the separate sewage treatment system described above will be constructed as shown on the approved amendment thereto and in accordance with the standards, rules and regulations of the Putnam County Department of Health, and that on completion thereof a "Certificate of Construction Compliance" satisfactory to the Director/Commissioner will be submitted to the Department, and a written guarantee will be furnished the owner, his successors, heirs or assigns by the builder, that said builder will place in good operating condition any part of said sewage treatment system during the period of two (2) years immediately following the date of the issuance of the approval of the Certificate of Construction Compliance of the original system or any repairs thereto.

Signed: _____ P.E. X R.A. _____ Date 11/19/14

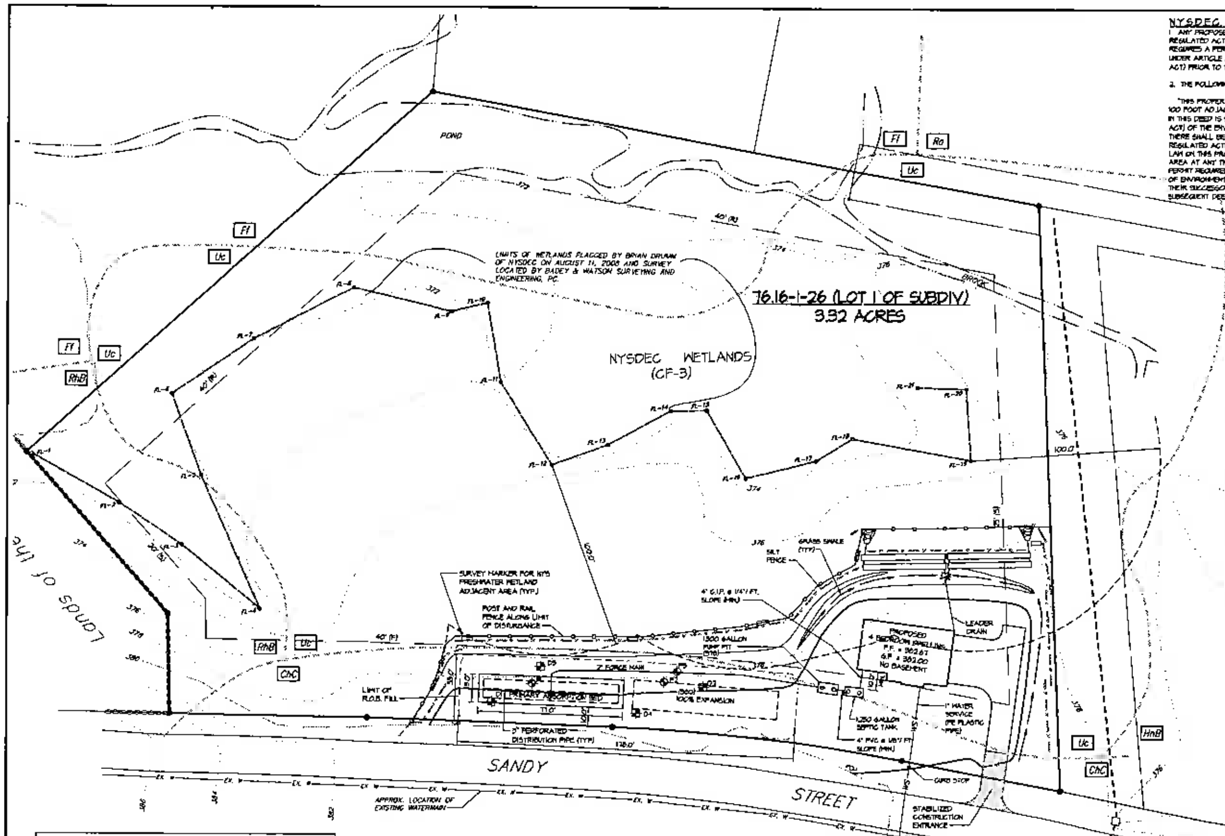
Address PUTNAM ENGINEERING, PLLC, 4 OLD ROUTE 6 BREWSTER N.Y. 10509 License # 067446

APPROVED FOR CONSTRUCTION: This approval expires two years from the date issued unless construction of the sewage treatment system has been completed and inspected by the PCHD and is revocable for cause or may be amended or modified when considered necessary by the Director/Commissioner. Any revision or alteration of the approved plan requires a new permit. Approved for discharge of domestic sanitary sewage only.

By: _____ Title: _____ Date: 12-10-14

White copy - HD File; Yellow copy - Building Inspector; Pink copy - Owner; Orange copy - Design Professional

Form CP-97



SSDS PLAN

GRAPHIC SCALE

(IN FEET)
1 inch = 30 ft.

USDA SOIL TYPES

			SOIL GROUP
ChC	-	CHARLTON LOAM, 8-15% SLOPES	B
Ff	-	FLUVAQUENTS, UDIFLUVENTS COMPLEX, FREQUENTLY FLOODED, 0-3% SLOPES	D
RhB	-	RIVERHEAD LOAM, 3-8% SLOPES	B
Uc	-	UDORTHENTS, WET SUBSTRATUM, 0-3% SLOPES TYP	
ADJACENT TO LOT			
HnB	-	HINCKLEY, GRAVELLY LOAMY SAND, 3-8% SLOPES	A
Ra	-	RAYNHAM SILT LOAM, 0-3% SLOPES	C

FILL NOTES:

1. FILL MUST BE STABILIZED BY ALLOWING THE FILL TO SETTLE NATURALLY FOR A PERIOD OF AT LEAST 6 MONTHS AND INCLUDE AT LEAST ONE (1) FREEZE-THAW CYCLE OR FILL STABILIZATION MAY BE ACHIEVED BY MECHANICAL COMPACTION IN APPROXIMATELY 6 INCH LIFTS TO THE APPROXIMATE DENSITY OF THE UNDISTURBED UNDERLYING SOIL.

2. SITE MODIFICATION ACTIVITIES INVOLVING PLACEMENT OF FILL ARE TO BE CONDUCTED DURING RELATIVELY DRY PERIODS TO MINIMIZE SOIL SMEARING AND EXCESSIVE SOIL COMPACTION.

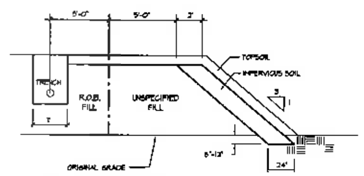
3. THE REQUIRED DEPTH OF FILL WITHIN THE SEWAGE TREATMENT SYSTEM AREA IS 1 1/2 FEET WHICH APPROXIMATES TO 510 CUBIC YARDS. FILL SHALL BE RUN OF BANK GRAVEL SUITABLE FOR SEWAGE ABSORPTION, BE FREE OF FINES OR OTHER UNSUITABLE MATERIAL AND SHALL HAVE AN IN-PLACE PERCOLATION RATE AT LEAST EQUAL TO OR FASTER THAN THE NATURAL UNDERLYING SOIL AFTER THE REQUIRED STABILIZATION PERIOD. THE DESIGN PROFESSIONAL SHALL PERFORM A MINIMUM OF TWO (2) PERCOLATION TESTS IN THE FILL AFTER STABILIZATION IS ACHIEVED.

4. FILL SUITABLE FOR SEWAGE ABSORPTION SHOULD CONTAIN NO MORE THAN 5 PERCENT AND PREFERABLY NO MORE THAN 2 PERCENT FINES BY WEIGHT. FINES ARE CLAY AND SILT PARTICLES THAT PASS A #200 SIEVE. NO MORE THAN 10 PERCENT BY WEIGHT OF THE FILL MATERIAL SHOULD PASS A #100 SIEVE.

5. THE IMPERVIOUS FILL SHALL BE A DENSE CLAY TYPE SOIL WITH LITTLE OR NO SEWAGE ABSORPTION CAPACITY.

FILL PAD MATERIAL (GRAVEL) MUST EXTEND THREE (3') FEET BEYOND CENTER OF TRENCH. AFTER FILL PAD MATERIAL, THERE MUST BE SEVEN (7) FEET OF ADDITIONAL SOIL, WITH THE FINAL TWO (2) FEET BEING IMPERVIOUS SOIL WITH A ONE (1) VERTICAL TO THREE (3) HORIZONTAL SLOPE. THE TOE OF THE SLOPE SHALL EXTEND INTO THE VIRGIN SOIL 6 TO 12 INCHES DEEP AND 24 INCHES WIDE. TOPSOIL SHALL BE APPLIED IN ACCORDANCE WITH APPENDIX 75-A SECTION 75.4(a-4-iv).

SAND AND GRAVEL FILL, WITH A STABILIZED PERCOLATION RATE WHICH IS LESS THAN OR EQUIVALENT TO THE PERCOLATION RATE OF THE VIRGIN SOIL, AND NO MORE THAN 15 MINUTES PER INCH. THE DESIGN ENGINEER SHALL CERTIFY IN WRITING THAT THE FILL MATERIAL IS IN THE PROPER PLACE, IS OF THE PROPER QUANTITY AND DIMENSIONS, AND IS OF PROPER QUALITY. PROPER QUALITY MUST BE DEMONSTRATED BY STABILIZED PERCOLATION TESTS, THE RESULTS OF WHICH SHALL BE SUBMITTED WITH THE ENGINEER'S CERTIFICATION.
ANY FILL AND IMPERVIOUS COVER MUST BE IN PLACE AND A PROFESSIONAL ENGINEER SHALL CERTIFY IN WRITING THAT ALL SOIL CONDITIONS INCLUDING THE MATERIAL, DIMENSIONS, AND LOCATION ARE SATISFACTORY TO ALLOW INSTALLATION OF THE SEWAGE DISPOSAL SYSTEM.



FILL SECTION DTL

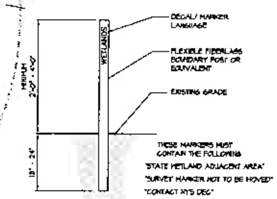
N.T.S.

N.Y.S.D.E.C. WETLAND NOTES:

1. ANY PROPOSED CONSTRUCTION, GRADING, FILLING, EXCAVATING, CLEARING OR OTHER REGULATED ACTIVITY WITHIN THE STATE FRESHWATER WETLAND OR ADJACENT 100 FEET REQUIRES A PERMIT FROM THE NYS DEPARTMENT OF ENVIRONMENTAL CONSERVATION UNDER ARTICLE 24 OF THE ENVIRONMENTAL CONSERVATION LAW (FRESHWATER WETLANDS ACT) PRIOR TO THE COMMENCEMENT OF WORK.

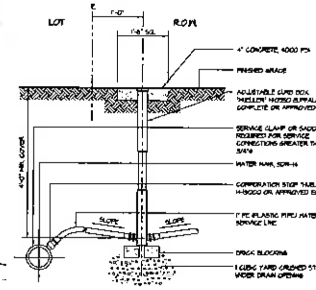
2. THE FOLLOWING RESTRICTIONS SHALL APPEAR ON THE DEED.

"THIS PROPERTY CONTAINS STATE REGULATED FRESHWATER WETLANDS AND/ OR REGULATED 100 FOOT ADJACENT AREA. FOR AS LONG AS ANY PORTION OF THE PROPERTY DESCRIBED IN THIS DEED IS SUBJECT TO REGULATION UNDER ARTICLE 24 (THE FRESHWATER WETLANDS ACT) OF THE ENVIRONMENTAL CONSERVATION LAW (ECL) OF THE STATE OF NEW YORK, THERE SHALL BE NO CONSTRUCTION, GRADING, FILLING, EXCAVATING, CLEARING OR OTHER REGULATED ACTIVITY AS DEFINED BY ARTICLE 24 OF THE ENVIRONMENTAL CONSERVATION LAW ON THIS PROPERTY WITHIN THE FRESHWATER WETLAND AREA OR 100 FOOT ADJACENT AREA AT ANY TIME WITHOUT HAVING FIRST SECURED THE NECESSARY PERMISSION AND PERMIT REQUIRED PURSUANT TO THE ABOVE NOTED ARTICLE 24 FORM THE NYS DEPARTMENT OF ENVIRONMENTAL CONSERVATION (DEC). THIS RESTRICTION SHALL BIND THE GRANTEES, THEIR SUCCESSORS AND ASSIGNS AND SHALL BE EXPRESSLY SET FORTH SET FORTH IN ALL SUBSEQUENT DEEDS TO THIS PROPERTY."



SURVEY MARKER FOR NEW YORK STATE FRESHWATER WETLAND ADJACENT AREA

N.T.S.



WATER SERVICE CONNECTION DETAIL

N.T.S.

SSTS DESIGN NOTES:

1. THE SSTS DESIGN IS BASED ON THE CONSTRUCTION OF A 4 BEDROOM SINGLE FAMILY RESIDENCE, A SOIL PERCOLATION RATE OF 16-20 MIN/IN AND THE FOLLOWING DEEP HOLE INFORMATION.

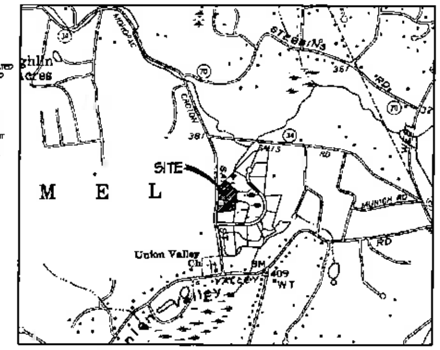
D1 0'-0" TO 0'-4" TOPSOIL, 0'-4" TO 5'-6" MEDIUM BROWN FINE AND MEDIUM SAND LOAM MIX, 5'-6" TO 7'-0" GRAY MOTTLED FINE SAND, GROUND WATER AT 5'-0"

D2 0'-0" TO 0'-4" TOPSOIL, 0'-4" TO 5'-6" MEDIUM BROWN FINE AND MEDIUM SAND LOAM MIX WITH BOULDERS INTERMIXED, 5'-6" TO 7'-0" GRAY MOTTLED FINE SAND, GROUND WATER AT 7'-0"

D3 0'-0" TO 0'-4" TOPSOIL, 0'-4" TO 4'-6" MEDIUM BROWN FINE AND MEDIUM SAND LOAM MIX WITH BOULDERS INTERMIXED, 4'-6" TO 6'-6" GRAY MOTTLED FINE SAND, GROUND WATER AT 7'-6"

D4 0'-0" TO 0'-4" TOPSOIL, 0'-4" TO 5'-0" MEDIUM BROWN FINE AND MEDIUM SAND LOAM MIX, 5'-0" TO 7'-0" GRAY MOTTLED FINE SAND, GROUND WATER AT 5'-0"

2. THE SSTS SHALL INCLUDE THE FOLLOWING:
1,250 GALLON PRECAST CONCRETE SEPTIC TANK
15 FT X 77 FT ABSORPTION BED
ADDITIONAL REQUIREMENTS:
1,500 GALLON PRECAST CONCRETE PUMP PIT
1-1/2' R.O.B. GRAVEL FILL, 510 CY
110 CY UNCLASSIFIED FILL
50 CY IMPERVIOUS BARRIER



LOCATION MAP

SCALE: 1"=1000'

GENERAL NOTES:

1. ALL TREES WITHIN 10 FEET OF THE PROPOSED SUBSURFACE SEWAGE TREATMENT SYSTEM (SSTS) SHALL BE REMOVED.
2. SSTS TO BE INSPECTED BY THE LICENSED DESIGN PROFESSIONAL AND THE PUTNAM COUNTY HEALTH DEPARTMENT AFTER CONSTRUCTION AND PRIOR TO BACKFILL.
3. THE SSTS AREA SHALL BE STAKED AND ROPED OFF SO THAT NO TRUCKS, MACHINERY, BUILDING MATERIALS, NOR EXCAVATED EARTH SHALL BE ALLOWED IN THE SSTS AREA.
4. ALL EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO THE START OF ANY CONSTRUCTION AND MUST BE MAINTAINED UNTIL CONSTRUCTION IS COMPLETE AND STABILIZATION HAS OCCURRED.
5. CONSTRUCTION OF SSTS TO BE IN ACCORDANCE WITH THESE PLANS, ANY REVISIONS THERETO, AND THE RULES AND REGULATIONS OF THE PERMIT ISSUING GOVERNMENTAL AGENCY.
6. N.A.
7. THE SSTS DESIGN SHOWN HEREON DOES NOT PROVIDE FOR INSTALLATION OF A GARBAGE GRINDER. SUCH INSTALLATION REQUIRES ADDITIONAL DESIGN AND THE APPROVAL OF THE PUTNAM COUNTY DEPARTMENT OF HEALTH.
8. PUTNAM COUNTY HEALTH DEPARTMENT APPROVAL IS BASED ON THE LOCATION OF THE SSTS, BUILDING, SETBACKS, AND DRIVEWAYS AS SHOWN ON THE APPROVED DRAWING. MODIFICATIONS ARE TO HAVE PRIOR PUTNAM COUNTY HEALTH DEPARTMENT APPROVAL. UNAUTHORIZED MODIFICATIONS MADE TO THIS DRAWING AFTER THE DATE OF PUTNAM COUNTY HEALTH DEPARTMENT APPROVAL VOIDS SAID APPROVAL.
9. ALL STONEWALLS IN AND WITHIN 10 FEET OF THE SSTS AREA SHALL BE REMOVED TO THEIR ENTIRE DEPTH AND THE RESULTING VOID REPLACED WITH SIMILAR OR SITE SOIL.
10. CUT OR FILL IS NOT PERMITTED IN THE SSTS AREA, EXCEPT IF SO SPECIFIED ON THIS PLAN.
11. AFTER BACKFILLING THE SYSTEM, THE SSTS AREA SHALL BE COVERED WITH A MINIMUM OF 6 INCHES OF TOPSOIL, SEEDED, AND MULCHED.
12. OCCUPANCY OF THIS STRUCTURE WILL NOT BE PERMITTED UNTIL THE CONSTRUCTION COMPLIANCE APPLICATION HAS BEEN RECEIVED AND APPROVED BY THE PUTNAM COUNTY HEALTH DEPARTMENT AND FORWARDED TO THE BUILDING INSPECTOR OF THE RESPECTIVE MUNICIPALITY AS PART OF THE CERTIFICATE OF OCCUPANCY APPLICATION.
13. THIS PLAN IS APPROVED FOR SEWAGE TREATMENT AND/OR WATER SUPPLY ONLY, AND ALL OTHER REQUIRED PERMITS AND/OR APPROVALS ARE THE RESPONSIBILITY OF THE PERMITTEE.
14. THE PUTNAM COUNTY HEALTH DEPARTMENT APPROVAL EXPIRES TWO (2) YEARS 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. 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 PUTNAM COUNTY HEALTH DEPARTMENT TO VERIFY THE BEDROOM COUNT.
16. THE HOUSE AND SSTS SHALL BE SURVEY LOCATED AND STAKED BY A NYS LICENSED LAND SURVEYOR PRIOR TO CONSTRUCTION.
17. FOR ALL SSTS'S WHICH ARE SUBJECT TO JOINT REVIEW AND APPROVAL WITH NYCDEP, THE DESIGN PROFESSIONAL IS TO NOTIFY PCHD AND NYCDEP AT LEAST 24 HOURS PRIOR TO THE COMMENCEMENT OF THE SSTS CONSTRUCTION.

PLAN NOTES:

1. NO WELLS OR SEPTICS WITHIN 200 FEET UNLESS OTHERWISE NOTED.
2. TOPOGRAPHY AND BOUNDARY INFORMATION BASED UPON A SURVEY PREPARED FOR "SANDY LANE SUBDIVISION", FILED MAP NO. 2455, DATED SEPTEMBER 12, 1984 PREPARED BY:
JAMES K. DEVINE P.L.S.
NYS LIC. NO. 44045
449 ROUTE 22
PAWLING, N.Y. 12564
3. WATER SERVICE TO BE POLYETHYLENE (PE) PLASTIC PIPE OR APPROVED EQUAL.
4. EROSION CONTROL TO BE INSTALLED PRIOR TO BEGINNING SITE WORK.
5. NO 100 YEAR FLOOD PLAINS WITHIN 200 FEET UNLESS NOTED OTHERWISE.
6. NO WETLANDS, STREAMS, WATERCOURSES WITHIN 200 FEET UNLESS OTHERWISE NOTED.
7. PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION ACTIVITIES, ALL EXISTING ON SITE TRASH AND DEBRIS SHALL BE CLEANED UP AND REMOVED FROM THE SITE. SPECIAL CAUTION SHALL BE TAKEN TO CREATE THE LEAST AMOUNT OF DISTURBANCE TO THE SITE DURING CLEANING OPERATIONS AND ALL DEBRIS SHALL BE DISCARDED AT AN APPROPRIATE WASTE DISPOSAL FACILITY.

FOR ADDITIONAL NOTES AND REQUIREMENTS, REFER TO "LANDFILL REMEDIATION PLAN", DRAWING LRP-1, LAST REVISED MARCH 8, 2011, AS PREPARED BY PUTNAM ENGINEERING

8. PRESENT SITE CONDITIONS WITH RESPECT TO THE SSTS AREA ARE COMPARABLE TO THOSE AT THE TIME OF ORIGINAL APPROVAL AS OF NOVEMBER 14, 2014

PUTNAM ENGINEERING, PLLC
ENGINEERS - ARCHITECTS
4 OLD ROUTE 6, BREWSTER, NEW YORK 10509
(845) 279-6789 FAX (845) 279-6769
© PUTNAM ENGINEERING PLLC 2009

PURSUANT TO NEW YORK STATE EDUCATION LAW, ARTICLE 145, SECTION 7209 SUBDIVISION 2, IT IS A VIOLATION OF THIS LAW FOR ANY PERSON UNLESS HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE SEAL OF AN ENGINEER IS ALTERED, THE ALTERING ENGINEER SHALL AFFIX TO THE ITEM HIS SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY HIS SIGNATURE AND THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION."

REVISIONS

NO.	DATE	DESCRIPTION
1	10/01/09	REVISED SITE LAYOUT PERSUANT TO NEW WETLAND LOCATION
2	12/16/09	REVISED AS PER DEC COMMENTS
3	2/04/10	REVISED PER DEP COMMENTS
4	4/26/10	REVISED PER DEP COMMENTS
5	4/25/12	REVISED TO REMOVE WELL
6	11/11/14	REVISED FOR PCHD RENEWAL + 4 BEDROOM DWELLING

PROJECT

LORMAT CONSTRUCTION
SANDY LANE SUBDIVISION LOT #1
SANDY STREET
TOWN OF CARMEL
PUTNAM COUNTY, NY

TAX MAP 76.16 BLOCK 1, LOT 26

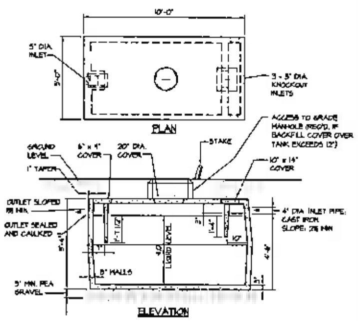
DATE	SEPT. 05, 2009
PROJECT MANAGER	RZ
DRAWN BY	RCK
CHECKED BY	PHL
SCALE	AS NOTED

DRAWING: SSTS PLAN

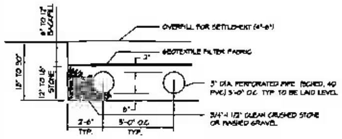
PROJECT NUMBER: 8055

DRAWING NUMBER: SS-1

SHEET 1 OF 2



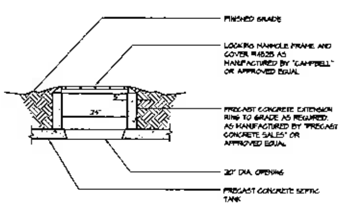
1 / SS-2 1250 GALLON SEPTIC TANK DTL.
N.T.S.



CROSS SECTION

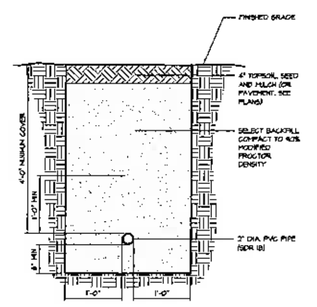
PIPE TO BE: HDPE SDR 35 ASTM F810

2 / SS-2 ABSORPTION BED DETAIL
N.T.S.

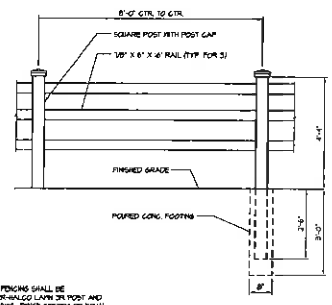


NOTE: DEPTH VARIES - AS REQUIRED BY FINISHED GRADE

3 / SS-2 ACCESS to GRADE MANHOLE DTL.
N.T.S.



4 / SS-2 FORCE MAIN TRENCH DETAIL
N.T.S.



NOTE: FENCING SHALL BE MASTER-HALCO LAWN 3R POST AND RAIL VINYL FENCE SYSTEM OR EQUAL

5 / SS-2 POST and RAIL FENCE DETAIL
N.T.S.

PUMP SELECTION

CHOOSE GOULDS SUBMERSIBLE EFFLUENT PUMP MODEL 38T1 SERIES EP04, 0.4 H.P., 230 VOLT, 45 GPM @ TDH = 10.25', OR APPROVED EQUAL

DOSING VOLUME

DOSE VOLUME SHALL BE 75% TO 85% OF THE VOLUME OF THE DISTRIBUTION SYSTEM PIPING;

LENGTH OF 3" PIPE = 240 L.F.

THEREFORE DOSING VOLUME SHALL BE AS FOLLOWS:

$0.85 \times 240 \text{ L.F.} \times \frac{(0.25^2)}{4} \times \pi \times$

7.48 Gal/ C.F. = 75 Gallons = 10.0 C.F.

PUMP CHAMBER/ OVERFLOW TANK

Use 1,500 gal precast septic tank

Interior dimension of chamber:

10.0' x 5.0' = 50.0 cf/vf

REQUIRED DRAW:

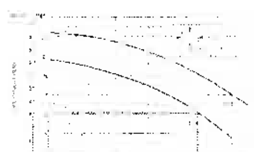
$\frac{10.0 \text{ cf}}{50.00 \text{ cf/vf}} = 0.20 \text{ vf}$

PUMP OPERATING ELEVATIONS

Bottom of pump pit 371.50
Pump off 371.75
Pump on 371.95
High level alarm 372.20
2" PVC force main inv. out 373.75
4" PVC inlet inv. in 376.00
Proposed Grade 379.00

OVERFLOW CAPACITY (PUMP CHAMBER)

10.0' x 5.0' x (375.75 - 372.26 (HI LEVEL)) x 7.48gal/ft = 1328gal



PUMP CALCULATIONS

1. STATIC HEAD LOSS

OUTLET ELEVATION	379.00
ELEVATION PUMP	371.75
	7.25

2. FRICTION HEAD LOSS

Q = 45GPM = 0.100 CFS   C = 150

L = 50   D = 2" = 0.17'

EQUIV L = 63

TOTAL L = 86

$h_f = \frac{4.727}{D^{4.87}} L \left(\frac{Q}{C}\right)^{1.85}$

$h_f = \frac{4.727}{(0.17)^{4.87}} \times \left(\frac{0.10}{150}\right)^{1.85} \times 86$

$h_f = 3.0$

3. TOTAL DYNAMIC HEAD

TDH = 7.25 + 3.00 = 10.25

PUMP PIT NOTES

1. PUMP SHALL BE A GOULDS SUBMERSIBLE EFFLUENT PUMP, MODEL NO. 38T1, SERIES EP04, 0.4 H.P. 230 VOLT, SINGLE PHASE, OR APPROVED EQUAL.

2. ALARM TO BE GOULDS MODEL NO. AL54-1, OR APPROVED EQUAL.

3. ALARM BELL AND CONTROLS TO BE PLACED IN BUILDING.

4. ALL ELECTRICAL WORK SHALL CONFORM TO THE NATIONAL ELECTRICAL CODE OF THE NATIONAL FIRE PROTECTION ASSOCIATION AND THE REQUIREMENTS OF THE APPROPRIATE REGULATORY AGENCY.

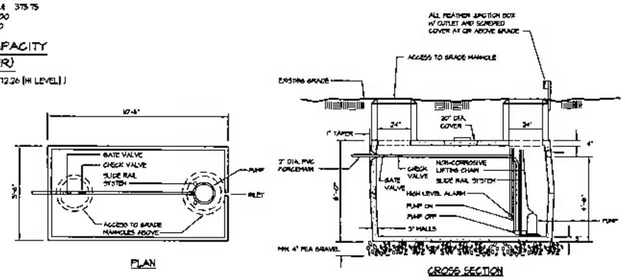
5. PUMP CHAMBER TO BE 10.0' x 5.0' (INTERIOR) PRECAST CONCRETE AS MANUFACTURED BY ROTONDO & SONS, OR APPROVED EQUAL.

6. DOSING VOLUME TO BE 75 GALLONS.

7. THE PUMP CONTROL PANEL AND ALARMS SHALL BE LOCATED INSIDE THE HOUSE.

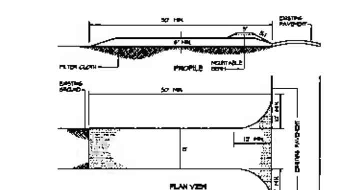
8. AN ELECTRICAL UNDERWRITER'S CERTIFICATE FOR THE PUMP CHAMBER MUST BE PROVIDED TO THE PUTNAM COUNTY HEALTH DEPARTMENT PRIOR TO THE DEPARTMENT CONDUCTING A FINAL INSPECTION ON THE PUMP CHAMBER.

9. ELECTRIC SUPPLY FOR PUMP SHALL BE BY MEANS OF A PLUG IN CONNECTION AT OR ABOVE GRADE DIRECTLY ADJACENT TO PUMP CHAMBER.



1,500 GALLON SEPTIC TANK DETAIL

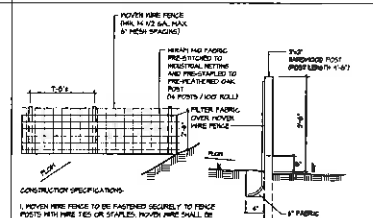
6 / SS-2 PUMP PIT/OVERFLOW TANK DETAIL
N.T.S.



CONSTRUCTION SPECIFICATIONS:

1. STONE SIZE - USE 2" STONE OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
2. LENGTH - NOT LESS THAN 50 FEET (EXCEPT ON A SINGLE RESIDENTIAL LOT WHERE A 30 FEET MINIMUM LENGTH WOULD APPLY).
3. THICKNESS - NOT LESS THAN SIX (6) INCHES
4. WIDTH - TWELVE (12) FEET MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS AND EGRESS OCCUR. TWENTY-FOUR (24) FEET IF SINGLE ENTRANCE TO SITE.
5. FILTER CLOTH - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE. "MIRAFI" 700X, OR APPROVED EQUAL.
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 RIGHTS-OF-WAY. ALL SEDIMENT SPILLED, DROPPED WASHED OR TRACKED ONTO PUBLIC RIGHTS- OF-WAY MUST BE REMOVED IMMEDIATELY.
8. WASHING - 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.

7 / SS-2 STABILIZED CONSTRUCTION ENTRANCE DTL
N.T.S.



CONSTRUCTION SPECIFICATIONS:

1. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES. WOVEN WIRE SHALL BE 14 1/2 GA. 6" MAX. MESH OPENING.

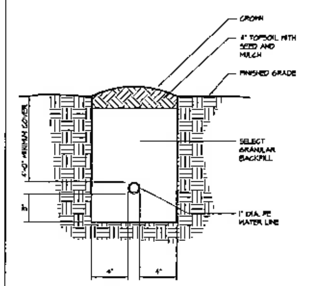
2. FILTER FABRIC TO BE EMBEDDED IN SOIL A MIN. OF 6". FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION.

3. INSPECTION SHALL BE FREQUENT AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.

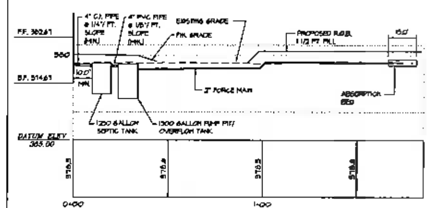
4. SILT FENCE TO BE REMOVED AT END OF CONSTRUCTION BUT NOT BEFORE ALL DISTURBED AREAS ARE STABILIZED AND VEGETATED.

5. FOR SILT FENCE INSTALLATION ON PAVED AREAS, REMOVE PORTION OF ASPHALT NECESSARY TO TOE-IN THE FABRIC AND TO INSTALL THE POSTS. THE PAVEMENT SHALL BE RESTORED BEFORE FINAL SITE CLEANING.

8 / SS-2 SILT FENCE DETAIL
N.T.S.



9 / SS-2 WATER LINE TRENCHING DTL
N.T.S.



SSTS PROFILE
SCALE: HORZ.: 1"=30' VERT.: 1"=10'

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REVISIONS

NO.	DATE	DESCRIPTION
1	10/01/09	REVISED SITE LAYOUT PERSUANT TO NEW WETLAND LOCATION
2	12/16/09	REVISED AS FOR DSC COMMENTS
3	2/04/10	REVISED PER DEP COMMENTS
4	4/26/10	REVISED PER DEP COMMENTS
5	4/25/12	REVISED TO REMOVE WELL
6	8/9/14	REVISED FOR PCHD RENEWAL & 4 BEDROOM DWELLING

PROJECT

LORMAT CONSTRUCTION
SANDY LANE SUBDIVISION LOT #1
SANDY STREET
TOWN OF CARMEL
PUTNAM COUNTY, NY
TAX MAP 76.16 BLOCK 1, LOT 26

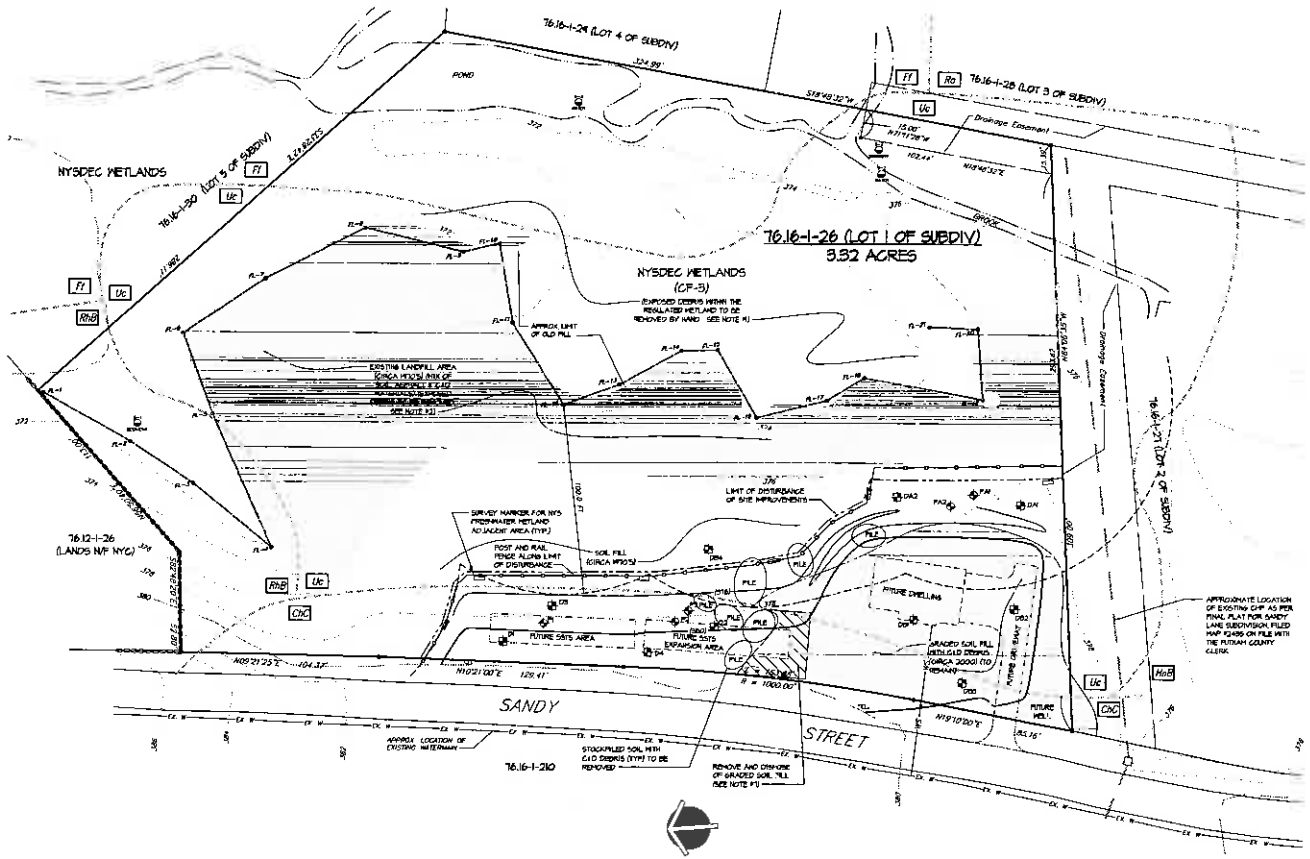
DATE	SEPT. 03, 2009
PROJECT MANAGER	RZ
DRAWN BY	RCK
CHECKED BY	PHL
SCALE	AS NOTED

DRAWING: SSTS PROFILE AND DETAILS

PROJECT NUMBER: 8053

DRAWING NUMBER: SS-2

SHEET 2 OF 2



LEGEND:

- EXISTING CONTOURS
- FLAGGED WETLAND BOUNDARY / FLAG #
- 100 FOOT WETLAND BUFFER
- EXISTING EDGE OF WATER
- PERCOLATION TEST LOCATION
- DEEP TEST LOCATION
- S-1 SEDIMENT SAMPLE LOCATION
- S-2 SEDIMENT SAMPLE LOCATION
- S-3 WATER SAMPLE LOCATION
- S-5 WATER SAMPLE LOCATION
- POST AND RAIL FENCE
- SURVEY MARKER FOR FRESHWATER WETLANDS
- LIMIT OF DISTURBANCE OF SITE IMPROVEMENTS
- SOIL TYPE
- SOIL BOUNDARY LINE

DEEP TEST SUMMARY

HOLE #	DATE	WITNESSED BY	DESCRIPTION		DEPTH TO ROCK	DEPTH TO WATER
D1	12/16/07	POND / NYCDEP	0'-0" TO 0'-4" 0'-4" TO 5'-6" 5'-6" TO 7'-0"	TOPSOIL MEDIUM BROWN FINE & MEDIUM SAND LOAM MIX GRAY MOTTLED FINE SAND	—	5'
D2	12/16/07	POND / NYCDEP	0'-0" TO 0'-4" 0'-4" TO 5'-6" 5'-6" TO 7'-0"	TOPSOIL MEDIUM BROWN FINE & MEDIUM SAND LOAM MIX WITH BOULDERS GRAY MOTTLED FINE SAND	—	7'
D3	12/16/07	POND / NYCDEP	0'-0" TO 0'-4" 0'-4" TO 4'-6" 4'-6" TO 8'-6"	TOPSOIL MEDIUM BROWN FINE & MEDIUM SAND LOAM MIX WITH BOULDERS GRAY MOTTLED FINE SAND	—	3 1/2'
D4	12/16/07	POND / NYCDEP	0'-0" TO 0'-4" 0'-4" TO 3'-0" 3'-0" TO 7'-0"	TOPSOIL MEDIUM BROWN FINE & MEDIUM SAND LOAM MIX GRAY MOTTLED FINE SAND	—	5'
DA1	1/4/2010	NYCDEP	0'-0" TO 0'-8" 0'-8" TO 8'-6"	TOPSOIL BROWN SANDY LOAM	6 1/2'	8 1/2'
DA2	1/4/2010	NYCDEP	0'-0" TO 0'-8" 0'-8" TO 8'-0"	TOPSOIL BROWN SANDY LOAM	8'	3 1/2'
DB1	3/30/2010	NYSDEC	0'-0" TO 7'-0"	HIGHLY COMPACTED SILT/SAND FILL MIX WITH CONSTRUCTION DEBRIS (EG. CONC., BRICK, ASPHALT, DIMENSION LUMBER)	—	—
DB2	3/30/2010	NYSDEC	0'-0" TO 7'-0"	HIGHLY COMPACTED SILT/SAND FILL MIX WITH CONSTRUCTION DEBRIS	—	—
DB3	3/30/2010	NYSDEC	0'-0" TO 9'-0"	HIGHLY COMPACTED SILT/SAND FILL MIX WITH CONSTRUCTION DEBRIS	9'	—
DB4	3/30/2010	NYSDEC	0'-0" TO 0'-4" 0'-4" TO 8'-0"	TOP SOIL BROWN SANDY LOAM WITH BOULDERS	—	3 1/2'

LANDFILL REMEDIATION PLAN

GRAPHIC SCALE

1 INCH = 50 FEET

LANDFILL REMEDIATION PLAN NOTES:

1. ALL EXPOSED SOLID WASTE WITHIN THE REGULATED WETLANDS (NYSDEC CF-3) IS TO BE REMOVED BY HAND AND DISPOSED OF OFF-SITE.
2. ALL EXPOSED SOLID WASTE IN AREAS OUTSIDE OF THE REGULATED WETLAND IS TO BE REMOVED BY HAND OR WITH EXCAVATOR TO A DEPTH OF 2 FEET BELOW GRADE AND DISPOSED OF OFF-SITE. EXCAVATED AREAS SHALL BE FILLED WITH 2 FEET OF CLEAN FILL.
3. ALL SOLID WASTE AND C&D STOCKPILES WITHIN THE SSTS AREA AND PROPOSED SITE IMPROVEMENTS IS TO BE REMOVED FROM THE SITE.
4. ALL SOLID WASTE REMOVED SHALL BE LOADED IN DUMPSTERS AND DISPOSED OF IN AN APPROVED LANDFILL BY A LICENSED CARTING COMPANY.
5. THE PROPOSED WATER WELL SHALL BE DRILLED AND TESTED IN CONSULTATION WITH THE PUTNAM COUNTY HEALTH DEPARTMENT FOR PARAMETERS WHICH WOULD BE INDICATIVE OF LANDFILL DERIVED GROUND WATER CONTAMINATION PRIOR TO THE ISSUANCE OF A CONSTRUCTION PERMIT. THE WELL IS TO BE SAMPLED FOR A FORM S-4 WATER ANALYSIS OR AS DIRECTED BY THE PCHD.
6. THE PROPERTY DEED SHALL BE MODIFIED TO INDICATE THAT THE PROPERTY CONTAINS SOLID WASTE FROM A PREVIOUSLY ACTIVE LANDFILL, AND SHALL BE MAINTAINED IN THE DEED IN PERPETUITY. THE DEED SHALL NOTE THAT THE PROPERTY HAS BEEN GRANTED AN EXEMPTION BY THE NYSDEC IN ACCORDANCE WITH 6 NYCRR, PART 360-1.7(B)(6) AND SHALL INCLUDE A COPY OF THIS PLAN FOR THE APPROVED LIMIT OF DISTURBANCE.
7. ALL "GRADED SOIL FILL WITH C&D DEBRIS" WITHIN 10 FEET OF THE "FUTURE SSTS EXPANSION AREA" SHALL BE REMOVED OF AND DISPOSED OF OFF SITE. THE EXCAVATED MATERIAL SHALL BE DISPOSED OF IN ACCORDANCE WITH NOTE #1 ABOVE AND THE EXCAVATION FILLED WITH ROOM, FILL SUITABLE FOR SEPTIC FIELD INSTALLATION AS NECESSARY.

SOILS LEGEND

SOIL SYMBOL	SOIL GROUP	SOIL NAME
CHC	B	CHARLTON LOAM
RhB	B	RIVERHEAD LOAM
Uc	B	UDORTHENTS

NOTE: APPROXIMATE LIMITS OF SOIL TYPES TAKEN FROM SOIL SURVEY OF PUTNAM AND WESTCHESTER COUNTIES, NYS

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REVISIONS		
NO.	DATE	DESCRIPTION
1	09 NOV 10	ADDED SAMPLE LOCATIONS
2	02 FEB 11	REVISED PER NYSDEC COMMENTS
3	08 MAR 11	REVISED PER NYSDEC COMMENTS

PROJECT

LORMAT CONSTRUCTION
SANDY LANE SUBDIVISION, LOT #1
SANDY STREET
TOWN of CARMEL
PUTNAM COUNTY, NEW YORK
TAX MAP 76.16 BLOCK 1, LOT 26

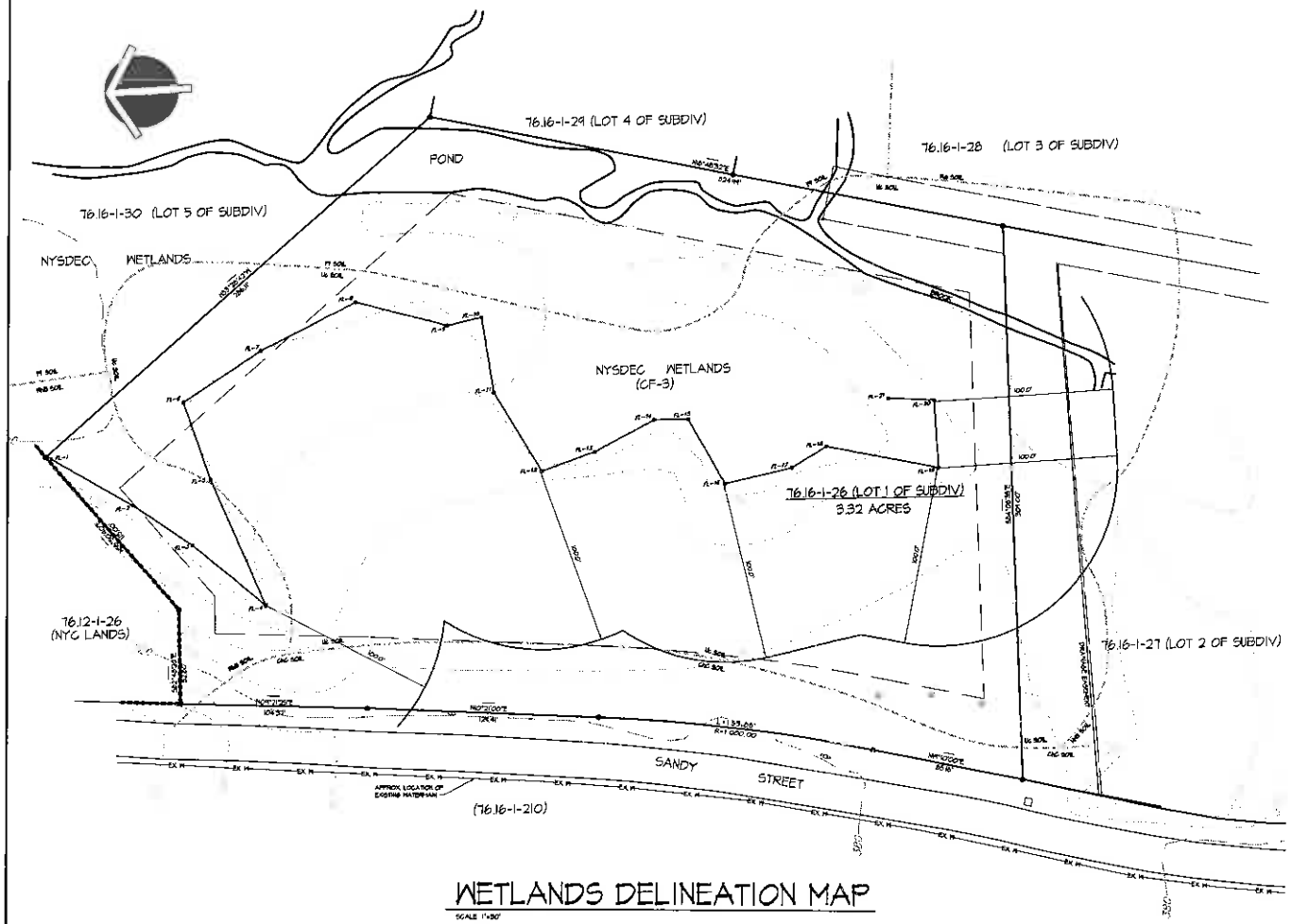
DATE	JUNE 24, 2010
PROJECT MANAGER	RJE
DRAWN BY	RCK
CHECKED BY	PML
SCALE	AS NOTED

DRAWING: LANDFILL REMEDIATION PLAN

PROJECT NUMBER: 0058

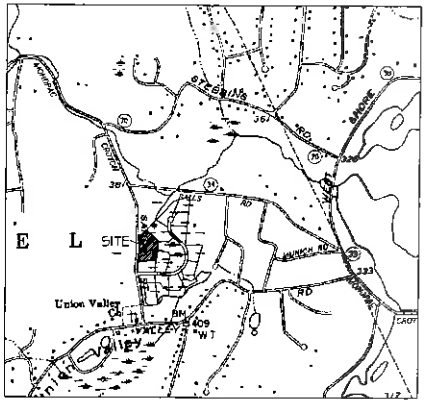
DRAWING NUMBER: LRP-1

SHEET 1 OF 1



WETLANDS DELINEATION MAP

SCALE 1"=80'



LOCATION MAP

SCALE 1"=1000'

NYSDEC FRESHWATER WETLAND BOUNDARY VALIDATION*

THE FRESHWATER WETLAND BOUNDARY AS REPRESENTED ON THESE PLANS ACCURATELY DEPICTS THE LIMITS OF FRESHWATER WETLAND __CF-3____ AS DELINEATED BY __BRIAN DRUMM__ ON __8-11-2006____

DEC STAFF: _____ SURVEYOR/ENGINEER: _____

DATE _____

SEAL

WETLAND BOUNDARY DELINEATIONS AS VALIDATED BY THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION REMAIN VALID FOR 10 YEARS UNLESS EXISTING EXEMPT ACTIVITIES, AREA HYDROLOGY, OR LAND USE PRACTICES CHANGE (E.G. AGRICULTURAL TO RESIDENTIAL). AFTER 10 YEARS THE BOUNDARY MUST BE REVALIDATED BY DEC STAFF. REVALIDATION MAY INCLUDE INCLUDE A NEW DELINEATION AND SURVEY OF THE WETLAND BOUNDARY.

ANY PROPOSED CONSTRUCTION, GRADING, FILLING, EXCAVATING, CLEARING OR OTHER REGULATED ACTIVITY IN THE FRESHWATER WETLAND OR WITHIN 100 FEET OF THE WETLAND BOUNDARY AS DEPICTED ON THIS PLAN REQUIRES A PERMIT FROM THE NYS DEPARTMENT OF ENVIRONMENTAL CONSERVATION UNDER ARTICLE 24 OF THE ENVIRONMENTAL CONSERVATION LAW (FRESHWATER WETLANDS ACT) PRIOR TO COMMENCEMENT OF WORK.

USDA SOIL TYPES

			SOIL GROUP
CAC	-	CHARLTON LOAM, 0-15% SLOPES	B
M	-	FLUVAQUENTS, DEPLUTONIC COMPLEX, FREQUENTLY FLOODED, 0-3% SLOPES	D
RhB	-	RIVERHEAD LOAM, 3-8% SLOPES	B
Ub	-	UNCORRTHENTS, WET SUBSTRATUM, 0-3% SLOPES TYP	B
ADJACENT TO LOT			
HkB	-	HINCKLEY, GRAVELLY LOAMY SAND, 3-8% SLOPES	A
Ra	-	RAYNHAM SILT LOAM, 0-3% SLOPES	C

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REVISIONS

NO.	DATE	DESCRIPTION

PROJECT

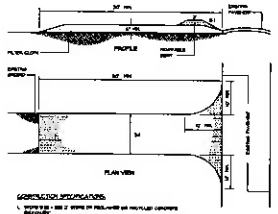
LORMAT CONSTRUCTION
SANDY LANE SUBDIVISION LOT #1
SANDY STREET
TOWN OF CARMEL
PUTNAM COUNTY, NY

TAX MAP 76.16 BLOCK 1, LOT 26

DATE	-
PROJECT MANAGER	RZ
DRAWN BY	RDK
CHECKED BY	PHL
SCALE	AS NOTED

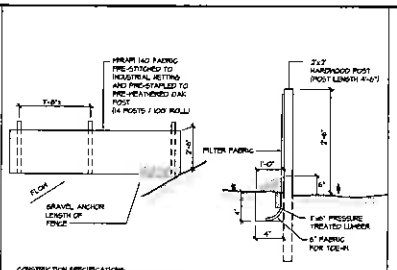
DRAWING: WETLANDS DELINEATION MAP

PROJECT NUMBER: 1-1-06
DRAWING NUMBER: WD-1
SHEET 1 OF ___



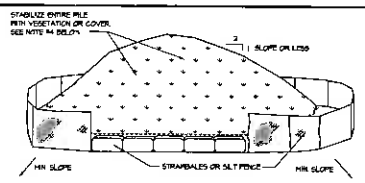
1 C-310 STABILIZED CONSTRUCTION ENTRANCE DETAIL

N.T.S.



2 C-310 SILT FENCE DETAIL

N.T.S.

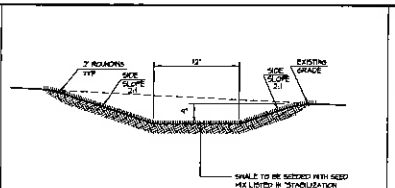


INSTALLATION NOTES:

1. AREA CHOSEN FOR STOCKPILING OPERATIONS SHALL BE DRY AND STABLE.
2. MAXIMUM SLOPE OF STOCKPILE SHALL BE 1:2
3. UPON COMPLETION OF SOIL STOCKPILING, EACH PILE SHALL BE SURROUNDED WITH EITHER SILT FENCING OR STRAWBALES.
4. SPRING/SUMMER/FALL SEEDING: SEED WITH PERENNIAL RYE GRASS @ 40 LBS/AC. WINTER STABILIZATION SHALL BE BY HYDROSEEDING. RESEED STOCKPILE IN SPRING AS NOTED ABOVE.
5. SEE SILT FENCE DETAIL FOR SILT FENCE INSTALLATION SPECIFICATIONS.

3 C-310 TOPSOIL STOCKPILE DETAIL

N.T.S.

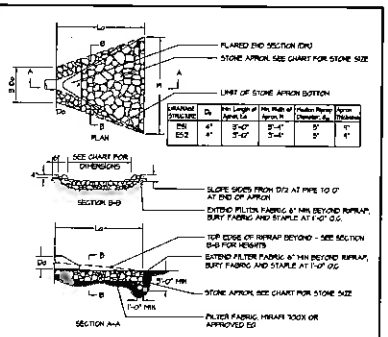


NOTE:

1. GRASS SWALE TO BE LINED WITH CHANNEL LINER C-125 AS MANUFACTURED BY NORTH AMERICAN GREEN OR APPROVED EQUAL. INSTALL CHANNEL LINER PER MANUFACTURERS INSTRUCTIONS.
2. ALL GRASS SWALES MUST BE RESTORED/REPAIRED AND RESEEDED AS NEEDED AT THE END OF THE CONSTRUCTION PHASE.

4 C-310 GRASS SWALE DETAIL

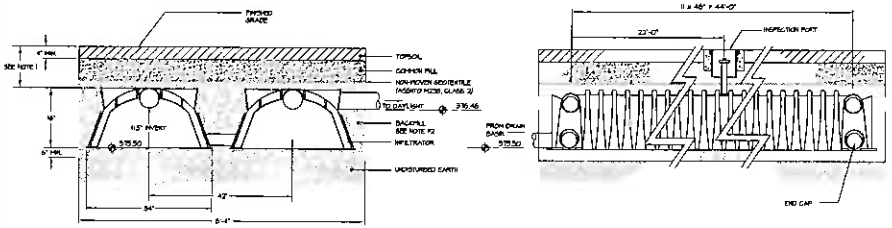
N.T.S.



DRAINAGE STRUCTURE	D_o	Min. Length of Apron, La	Min. Width of Apron, W	Median Stone Diameter, d_{50}	Apron Thickness
ES1	4"	3'-0"	3'-0"	3"	9"
ES2	4"	3'-0"	3'-0"	3"	9"

5 C-310 RIP-RAP OUTLET PROTECTION DTL.

N.T.S.

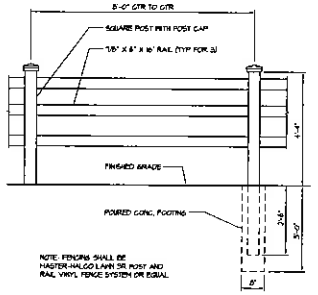


NOTES:

1. MINIMUM 12" OF COVER TO MEET H-40 LOADING.
2. UNITS MUST BE BACKFILLED WITH SELECT BACKFILL MATERIAL OR 1" WASHED BROKEN STONE OR SCREENED GRAVEL.

6 C-310 INFILTRATOR DETAIL

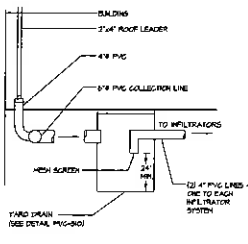
N.T.S.



NOTE: FENCING SHALL BE MASTER-HALCO LAWN SR POST AND RAIL VINYL FENCE SYSTEM OR EQUAL.

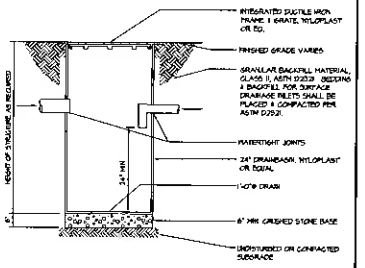
7 C-310 POST and RAIL FENCE DETAIL

N.T.S.



8 C-310 ROOF LEADER DETAIL

N.T.S.

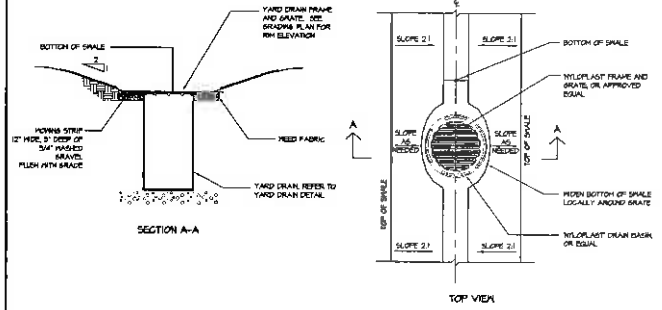


YARD DRAIN NOTES:

1. NYLOPLAST 24" DRAINBASIN, OR APPROVED EQUAL.
2. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR APPROVAL PRIOR TO CONSTRUCTION

9 C-310 YARD DRAIN DETAIL

N.T.S.



10 C-310 YARD DRAIN IN SWALE DETAIL

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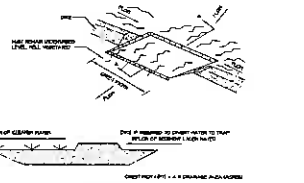


SECTION A-A

EXCAVATED GRASS OUTLET SEDIMENT TRAP

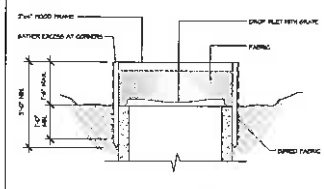
CONSTRUCTION SPECIFICATION FOR ST-II

1. VOLUME OF SEDIMENT STORAGE SHALL BE 3600 CUBIC FEET PER ACRE OF CONTRIBUTORY DRAINAGE AREA.
2. MINIMUM CREST WIDTH SHALL BE 4 X DRAINAGE AREA
3. 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. REMOVED SEDIMENT SHALL BE DEPOSITED IN A SUITABLE AREA AND IN SUCH A MANNER THAT IT WILL NOT ERODE.
4. THE STRUCTURE SHALL BE INSPECTED AFTER EACH RAIN AND REPAIRS MADE AS NEEDED
5. CONSTRUCTION OPERATIONS SHALL BE CARRIED OUT IN SUCH A MANNER THAT EROSION AND WATER POLLUTION SHALL BE MINIMIZED
6. THE SEDIMENT TRAP SHALL BE REMOVED AND AREA STABILIZED WHEN THE REMAINING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.
7. ALL OUT SLOPES SHALL BE 1:1 OR FLATTER.

MAXIMUM DRAINAGE AREA = 5 ACRES

11 C-310 GRASS OUTLET SEDIMENT TRAP DTL (ST-11)

N.T.S.



CONSTRUCTION SPECIFICATIONS

1. INLET FABRIC SHALL HAVE AN E.O.S. OF 40 MIN. BURLAP MAY BE USED FOR SHORT TERM APPLICATIONS.
2. CUT FABRIC FROM A CONTINUOUS ROLL TO ELIMINATE JOINTS. IF JOINTS ARE NEEDED THEY WILL BE OVERLAPPED TO THE NEXT STAKE.
3. STAKE MATERIALS WILL BE STANDARD 2"x4" WOOD OR EQUIVALENT METAL WITH A MINIMUM LENGTH OF 3 FEET
4. SPACE STAKES EVENLY AROUND INLET 3 FEET APART AND DRIVE A MINIMUM OF 18 INCHES DEEP. SPACE GREATER THAN 3 FEET MAY BE ENCOUNTERED WITH THE USE OF WIRE MESH BEHIND THE INLET FABRIC FOR SUPPORT.
5. FABRIC WILL BE EMBEDDED 1 FOOT MINIMUM BELOW GROUND AND BACKFILLED. IT SHALL BE SECURELY FASTENED TO THE STAKES AND FRAME.
6. A 2"x4" WOOD FRAME SHALL BE CONSTRUCTED AROUND THE CREST OF THE FABRIC FOR OVER FLOW STABILITY.
7. THE STRUCTURE SHALL BE INSPECTED AFTER EACH RAIN AND REPAIRED AS NEEDED.

12 C-310 CURB INLET PROTECTION DTL

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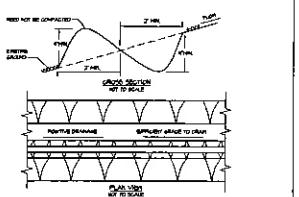

CONSTRUCTION SPECIFICATIONS

1. ALL PERIMETER DIKE/SWALE SHALL HAVE UNINTERRUPTED POSITIVE GRADE TO AN OUTLET.
2. DIVERTED RUNOFF FROM A DISTURBED AREA SHALL BE CONVEYED TO A SEDIMENT TRAPPING DEVICE.
3. DIVERTED RUNOFF FROM AN UNDISTURBED AREA SHALL CONVEY INTO AN UNDISTURBED STABILIZED AREA AT NON-EROSIVE VELOCITY.
4. THE SWALE SHALL BE EXCAVATED OR SHAPED TO LINE, GRADE, AND CROSS SECTION AS REQUIRED TO MEET THE CRITERIA SPECIFIED IN THE STANDARD.
5. STABILIZATION OF THE AREA DISTURBED BY THE DIKE AND SWALE SHALL BE DONE IN ACCORDANCE WITH THE STANDARD AND SPECIFICATIONS FOR TEMPORARY SEEDING AND MULCHING, AND SHALL BE DONE WITHIN 10 DAYS.
6. PERIODIC INSPECTION AND REQUIRED MAINTENANCE MUST BE PROVIDED AFTER EACH RAIN EVENT

MAX. DRAINAGE AREA LIMIT: 2 ACRES

13 C-310 PERIMETER DIKE/SWALE DTL

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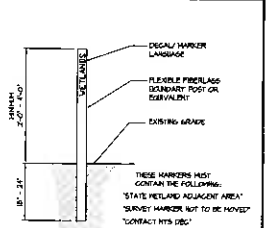

THESE MARKERS MUST CONTAIN THE FOLLOWING:

"STATE WETLAND ADJACENT AREA"

"SURVEY MARKER NOT TO BE MOVED"

"CONTACT NYS DEC"

14 C-310 SURVEY MARKER DTL

FOR NEW YORK STATE FRESHWATER WETLAND ADJACENT AREA

N.T.S.

PUTNAM ENGINEERING, PLLC
ENGINEERS - ARCHITECTS
4 OLD ROUTE 6, BREWSTER, NEW YORK 10509
(845) 279-6789 FAX (845) 279-6769

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PURSUANT TO NEW YORK STATE EDUCATION LAW, ARTICLE 145, SECTION 7209 SUBDIVISION 2, IT IS A VIOLATION OF THIS LAW FOR ANY PERSON, UNLESS HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE SEAL OF AN ENGINEER IS ALTERED, THE ALTERING ENGINEER SHALL AFFIX TO THE ITEM HIS SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY HIS SIGNATURE AND THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

REVISIONS

NO	DATE	DESCRIPTION
1	10/30/04	REVISED SITE LAYOUT PERSUANT TO NEW WETLAND LOCATION
2	12/14/04	REVISED AS PER DEC COMMENTS
3	2/10/10	REVISED PER DEP COMMENTS
4	4/26/10	REVISED PER DEP COMMENTS
5	6/25/12	REVISED TO REMOVE WELL
6	8/14/14	REVISED FOR POND REMOVAL & 4 BEDROOM DWELLING

PROJECT

LORMAT CONSTRUCTION
SANDY LANE SUBDIVISION LOT #1
SANDY STREET
TOWN OF CARMEL
PUTNAM COUNTY, NY

TAX MAP 76.16 BLOCK 1, LOT 26

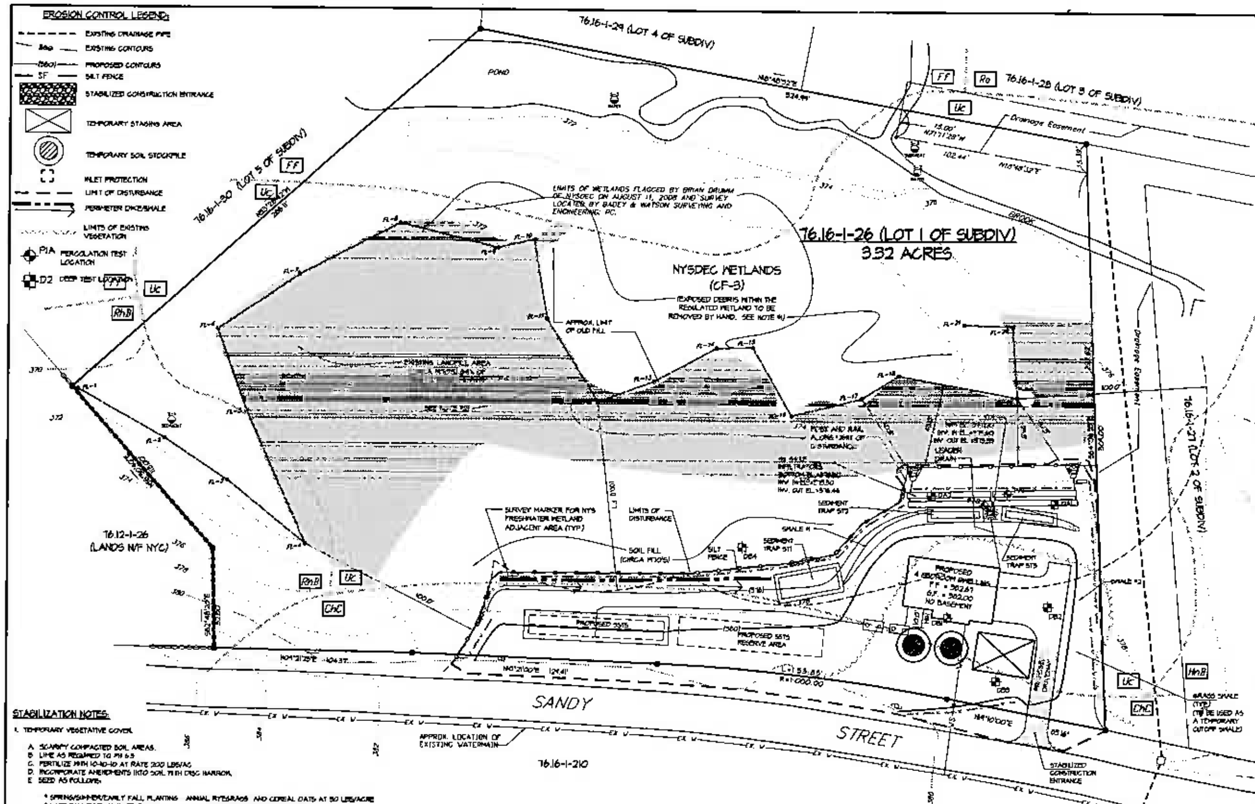
DATE	SEPT. 03, 2009
PROJECT MANAGER	RZ
DRAWN BY	RGR
CHECKED BY	PML
SCALE	AS NOTED

DRAWING: EROSION and SEDIMENT CONTROL DETAILS

PROJECT NUMBER: 2009

DRAWING NUMBER: C-310

SHEET 2 OF 2



STABILIZATION NOTES:

1. TEMPORARY VEGETATIVE COVER.

A. SCARIFY COMPACTED SOIL AREAS.
B. LIME AS REQUIRED TO PH 6.5
C. FERTILIZE WITH 10-10-10 AT RATE 300 LBS/AC.
D. INCORPORATE AMENDMENTS INTO SOIL WITH DISC HARROW.
E. SEED AS FOLLOWS:

* SPRING/SUMMER/EARLY FALL PLANTING: ANNUAL RYEGRASS AND CEREAL OATS AT 50 LBS/ACRE
* LATE FALL/EARLY WINTER PLANTING: AROOSTOCK WINTER RYE AT 100 LBS/AC.
* IF TEMPORARY SEEDING IS TO BE IN PLACE FOR AN EXTENDED PERIOD WHERE THE GRASS WILL BE ALLOWED TO GO TO SEED, THE SEED MIXTURE SPECIFIED IN NOTE 2.II, BELOW, SHALL BE UTILIZED.

FOR DISTURBED AREAS WITH SLOPE GREATER THAN 1 (V) : 3 (H), INSTEAD OF MULCHING, EROSION CONTROL BLANKET/MATTING SUCH AS NORTH AMERICAN GREEN C125 (OR APPROVED EQUAL) SHALL BE USED.
DURING WINTER CONSTRUCTION OR PERIODS OF WET WEATHER, TEMPORARY SLOPE STABILIZATION SHALL BE PROVIDED BY EITHER A ROLLED EROSION CONTROL PRODUCT OR A HEAVY MULCH LAYER SUITABLY ANCHORED. THE CONTRACTOR MUST RESEED THE AREA IN THE SPRING WITH THE APPROPRIATE SEEDING.

MULCH SEEDS WITH 2 TONS OF STRAW PER ACRE. ANCHOR AS NEEDED.

2. PERMANENT VEGETATIVE COVER:

I. LAWN SEEDING (MAINTAINED AREAS):

A. GRADE TO FINISHED SLOPES
B. SCARIFY COMPACTED SOIL AREAS
C. TOPSOIL WITH NOT LESS THAN FOUR (4) INCHES OF SUITABLE TOPSOIL MATERIAL
D. LIME AS REQUIRED TO PH 6.5 (SEE NOTE BELOW).
E. FERTILIZE WITH 10-6-4 AT RATE 300 LBS/ACOR AS RECOMMENDED (SEE NOTE BELOW)
D. SEED AS FOLLOWS:

SEED	LBS/AC
KENTUCKY BLUE GRASS	20
CREEPING RED FESCUE	20
RED TOP OR RYE GRASS	5

NOTE: REQUIRED SOIL AMENDMENTS ARE TO BE APPLIED ONLY AFTER TESTING LABORATORY AND APPROPRIATE AMENDMENT RECOMMENDATIONS MADE BY A QUALIFIED SOIL SCIENTIST.

II. RESTORATION/NATURALIZATION SEEDING (UNMAINTAINED AREAS)

ALL DISTURBED AREAS OUTSIDE MAINTAINED LAWNS, WHERE AREA WILL BE LEFT TO NATURALIZE AND GRASSES ALLOWED TO GO TO SEED(E. AREAS OUTSIDE THE LIMITS OF DISTURBANCE/POST AND RAIL FENCE) SHALL BE SEEDED WITH A MIX OF NONINVASIVE, NATIVE GRASS SPECIES. SEED MIX SHALL BE ONE OF THE FOLLOWING (OR APPROVED EQUAL):

-EASTERN NATIVE HABITAT MIX, MANUFACTURED BY ERNST CONSERVATION SEEDS (800-873-3321)

-NEW ENGLAND CONSERVATION/WILDLIFE MIX MANUFACTURED BY NEW ENGLAND WETLAND PLANTS, INC. (413-548-8000)

-NORTHEAST UPLAND WILDLIFE SEED MIX, MANUFACTURED BY SOUTHERN TIER CONSULTING, INC. (585-968-3120)

MULCH SEEDS WITH 2 TONS OF STRAW PER ACRE. ANCHOR AS NEEDED.

DURING DRY WEATHER CONSTRUCTION, ALL SEEDED AREAS ARE TO BE ADEQUATELY WATERED TO ENSURE VEGETATED COVER.

EROSION AND SEDIMENT CONTROL PLAN

GRAPHIC SCALE

(IN FEET)
1 inch = 30 ft.

Site Volume Table: Adjusted

Site	Stratum	Surf1	Surf2 Cut	yards Fill	yards Net	Method
TOTAL CUT/FILL	new fill	existing 06-02-08	proposed-02022010 5	529	504 (F)	Composite
WETLAND BUFFER FILL VOLUME	new fill	existing 06-02-08	proposed-02022010 2	228	226 (F)	Composite

GRASS SEDIMENT TRAP VOLUME

ST1
REQUIRED: 3600 CF PER ACRE x 0.25 ACRES = 900 CF
PROVIDED: 35'L x 6'W x 3'D = 945 CF

ST3
REQUIRED: 3600 CF PER ACRE x 0.1 ACRES = 346 CF
PROVIDED: 32'L x 8'W x 2.5'D = 401 CF

ST2
REQUIRED: 3600 CF PER ACRE x 0.1 ACRES = 346 CF
PROVIDED: 32'L x 8'W x 2.5'D = 401 CF

USDA SOIL TYPES

ChC	-	CHARLTON LOAM, 8-15% SLOPES	B
FF	-	FLUVAQUENTS, UDIFLUVENTS COMPLEX, FREQUENTLY FLOODED, 0-3% SLOPES	D
RhB	-	RIVERHEAD LOAM, 3-8% SLOPES	B
Uc	-	UDORTHENTS, WET SUBSTRATUM, 0-5% SLOPES TYP	

ADJACENT TO LOT

HnB	-	HINCKLEY, GRAVELLY LOAMY SAND, 3-8% SLOPES	A
Ra	-	RAYNHAM SILT LOAM, 0-3% SLOPES	C

GENERAL NOTES

1. THE SITE SHALL BE DISTURBED ONLY WHERE NECESSARY. ONLY THE SMALLEST PRACTICAL AREA OF LAND SHALL BE EXPOSED (NO MORE THAN 5 ACRES) AT ANY ONE TIME DURING DEVELOPMENT. WHEN LAND IS EXPOSED, THE EXPOSURE SHALL BE KEPT TO THE SHORTEST PRACTICAL PERIOD OF TIME BY IMMEDIATE STABILIZATION PER THE STABILIZATION NOTES, UNLESS SPECIFIED OTHERWISE. ALL DISTURBED AREAS ARE CONSIDERED "STABILIZED" WHEN 80% OF UNIFORM, PERENNIAL VEGETATIVE COVER IS ACHIEVED OR EQUIVALENT STABILIZATION MEASURES (SUCH AS MULCHES, EROSION CONTROL BLANKET, ETC.) HAVE BEEN PROPERLY EMPLOYED. NO WORK SHALL CONTINUE BEFORE PRIOR DISTURBANCE IS STABILIZED

2. WHEREVER FEASIBLE, NATURAL VEGETATION SHALL BE RETAINED AND PROTECTED.

3. THE PROJECT OWNER / DEVELOPER OR DESIGNATED REPRESENTATIVE SHALL ARRANGE A PRE-CONSTRUCTION MEETING INVITING ALL INVOLVED REVIEW AGENCIES AND ENGINEERS ON RECORD PRIOR TO START OF CONSTRUCTION ACTIVITIES.

4. TEMPORARY MEASURES SHALL BE MAINTAINED BY PROJECT OWNER / DEVELOPER OR A DESIGNATED REPRESENTATIVE (SUCH AS THE GENERAL CONTRACTOR) DURING THE ENTIRE CONSTRUCTION PERIOD. AFTER THE CONSTRUCTION IS COMPLETED A PERMANENT MEASURES SHALL BE MAINTAINED BY THE PROPERTY OWNER(S). LEGALLY BINDING DOCUMENTS SHALL BE INCLUDED WITH THE SALE OF THE PROPERTY (PROPERTIES) TO ENSURE FUTURE OWNER(S) MAINTAIN THE STORMWATER FACILITIES

OWNER: LORMAT CONSTRUCTION COMPANY
C/O MARK DRATCH
12 ROSEMARY COURT
YORKTOWN HEIGHTS, NY 10598

5. THE PROJECT OWNER / DEVELOPER OR DESIGNATED REPRESENTATIVE SHALL RETAIN THE SERVICE OF QUALIFIED PERSONNEL (LICENSED PROFESSIONAL ENGINEER, CERTIFIED PROFESSIONAL IN EROSION & SEDIMENT CONTROL-CPESC OR SOIL SCIENTIST) TO PERFORM SITE INSPECTIONS DURING THE CONSTRUCTION PERIOD AND FINAL SITE INSPECTION AT PROJECT COMPLETION.

6. THE CONTRACTOR SHALL MAKE AVAILABLE ON SITE, ALL EQUIPMENT, MATERIALS AND LABOR NECESSARY TO EFFECT EMERGENCY REPAIR AND REPLACEMENT OF THE EROSION CONTROL MEASURES

7. SITE INSPECTIONS DURING CONSTRUCTION PERIOD SHALL BE PERFORMED AT LEAST EVERY 7 CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM EVENT OF 0.5 INCHES OR GREATER. DURING WINTER, IF THE SOIL DISTURBANCE IS COMPLETELY SUSPENDED AND THE SITE IS PROPERLY STABILIZED, INSPECTION FREQUENCY MAY REDUCE, BUT SHALL MAINTAIN A MINIMUM OF MONTHLY INSPECTIONS IN ALL SITUATIONS (EVEN WHEN THERE IS TOTAL WINTER SHUTDOWN). DURING PERIODS OF REDUCED INSPECTION FREQUENCY, INSPECTIONS MUST STILL BE DONE AFTER EVERY STORM EVENT OF 0.5 INCHES OR GREATER. TO BE ALLOWED TO REDUCE INSPECTION FREQUENCIES, THE OPERATOR MUST COMPLETE STABILIZATION ACTIVITIES (PERIMETER CONTROLS, TRAPS, BARRIERS, ETC.) BEFORE PROPER INSTALLATION IS PRECLUDED BY SNOW COVER OR FROZEN GROUND. IF VEGETATION IS DESIRED, SEEDING, PLANTING, AND/OR SODDING MUST BE SCHEDULED TO AVOID DIE-OFF FROM FALL FROSTS AND ALLOW FOR PROPER GERMINATION/ESTABLISHMENT.

8. THE CONTRACTOR IS RESPONSIBLE FOR CONTROLLING DUST BY SPRINKLING EXPOSED AREAS PERIODICALLY WITH WATER.

9. THE PROJECT OWNER / DEVELOPER OR DESIGNATED REPRESENTATIVE SHALL KEEP INSPECTION REPORTS AND LOGS AT THE SITE. A SUMMARY OF INSPECTION ACTIVITIES SHALL BE POSTED AT A PUBLICLY ACCESSIBLE AREA OF THE SITE ON A MONTHLY BASIS

SEQUENCE OF CONSTRUCTION

TOTAL AREA OF DISTURBANCE = 0.70 AC.

IN ORDER TO EFFECTIVELY CONTROL EROSION AND SEDIMENT, CONTRACTOR SHALL ADHERE TO THE LOCATION, MATERIALS AND PROCEDURES SHOWN ON THE "EROSION AND SEDIMENT CONTROL PLAN", DRAWING C-160, DETAILS SHOWN ON SHEET C-310, AND THE FOLLOWING SEQUENCE OF CONSTRUCTION:

1. SURVEY AND STAKE OUT PROPOSED HOUSE, DRIVEWAY AND STORMWATER BMP LOCATIONS. ESTABLISH LIMITS OF DISTURBANCE AND MARK IN THE FIELD.

2. INSTALL STABILIZED CONSTRUCTION ENTRANCE.

3. INSTALL SILT FENCE IMMEDIATELY DOWNGRADE OF AREAS OF PROPOSED DISTURBANCES AND WHERE INDICATED ON PLAN. ALL SILT FENCES TO BE INSTALLED PARALLEL TO CONTOURS.

4. EXCAVATE TEMPORARY SWALES AND SEDIMENT TRAPS. INSTALL DIKE/SWALE COMBINATION AS SHOWN ON THE PLAN.

5. CUT AND CHIP TREES IN THE LOCATION OF THE PROPOSED DISTURBANCE, STRIP AND STOCKPILE TOPSOIL FROM THE CLEARED AREA AND STORE AT TOP SOIL STOCKPILES AS SHOWN ON THE PLAN.

6. ROUGHLY GRADE SITE. FILL TO BE PLACED IN 8 INCH LIFTS AND COMPACTED TO 95% DRY DENSITY BY MECHANICAL MEANS. FILL SHALL BE FREE FROM ROOTS, VEGETATION AND OVERSIZED STONES. BUILD RETAINING WALL AS GRADING PROGRESS.

7. ONCE THE ABOVE DESCRIBED EARTHWORK IS COMPLETED, IT MUST BE TEMPORARILY STABILIZED WITHIN ONE (1) WEEK FOLLOWING CONSTRUCTION.

8. BUILD THE HOUSE. INSTALL ROOF DRAINS. CONNECT HOUSE TO ALL UTILITY LINES. TRENCHES TO BE BACKFILLED IMMEDIATELY UPON COMPLETION OF INSTALLATION OF PIPES AND CABLES. EXPOSED SOIL TO BE STABILIZED IMMEDIATELY AFTER BACKFILL.

9. INSTALL YARD DRAIN, INFILTRATORS AND CONNECTING PIPES. PROVIDE INLET PROTECTION TO NEWLY INSTALLED YARD DRAIN. THE STRUCTURES ARE NOT TO RECEIVE ANY STORMWATER FLOW UNTIL AT LEAST AN ASPHALT BINDER COURSE IS PLACED.

10. CONSTRUCT SUBSURFACE SEWAGE TREATMENT SYSTEM.

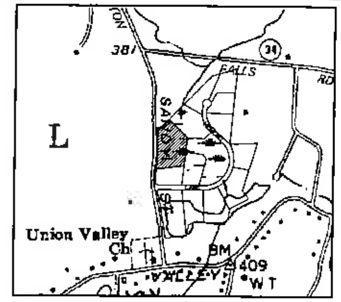
11. COMPLETE GRADING. SEED AND STABILIZE DISTURBED AREAS IMMEDIATELY AFTER GRADING.

12. INSTALL TOP COURSE PAVEMENT ON ENTIRE LENGTH OF DRIVEWAY. CLEAN ALL DRAINAGE STRUCTURES.

13. CLEAN SEDIMENT TRAPS AND TEMPORARY SWALES. CONVERT TO PERMANENT SWALES.

14. REMOVE ALL TEMPORARY EROSION CONTROL MEASURES TO INCLUDE SILT FENCE.

15. UPON COMPLETION OF ALL ABOVE ACTIVITIES AND SATISFACTORY ESTABLISHMENT OF VEGETATION ON ALL DISTURBED AREAS, CONTRACTOR TO PERFORM FINAL CLEANING OF THE PROJECT SITE.



AREA MAP

SCALE: 1" = 400'

MAINTENANCE PROGRAM:

1. THE PROJECT CONTRACTOR WILL BE RESPONSIBLE FOR THE MAINTENANCE OF ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES WITHIN THE PROJECT PROPERTY. THE PROJECT CONTRACTOR WILL ALSO BE RESPONSIBLE FOR MAINTENANCE ACTIVITIES OF ALL PERMANENT STORMWATER MANAGEMENT/TREATMENT COMPONENTS AND STRUCTURES WITHIN THE PROJECT DURING THE PROJECT CONSTRUCTION AND UNTIL RESPONSIBILITIES ARE TRANSFERRED TO THE HOME OWNER. THE OWNER WILL THEN TAKE CHARGE OF ALL MAINTENANCE ACTIVITIES OF THE PERMANENT STORMWATER MANAGEMENT/TREATMENT COMPONENTS AND STRUCTURES.

2. PRIOR TO EITHER THE DETERMINATION OF A PROJECT CONTRACTOR THE PROJECT APPLICANT SHALL BE RESPONSIBLE FOR MAINTENANCE OF ALL TEMPORARY AND PERMANENT MEASURES.

TEMPORARY MEASURES

A. SILT FENCE: SEDIMENTS SHALL BE REMOVED FROM BEHIND THE FENCE WHEN IT BECOMES 0.5 FEET DEEP AT THE FENCE. IT SHOULD ALSO BE INSPECTED WEEKLY AND PRIOR TO AND WITHIN 24 HOURS AFTER ALL FORECASTED STORM EVENTS. REPAIR SHALL BE PERFORMED AS NEEDED.

B. SWALE: PROPOSED DIVERSION SWALE IS TO BE INSPECTED WEEKLY AND PRIOR TO AND WITHIN 24 HOURS AFTER ALL FORECASTED STORM EVENTS FOR SCOUR AND EROSION. REMOVE DEPOSITS OR SEDIMENT OR OTHER OBSTRUCTIONS.

C. CONSTRUCTION ENTRANCE: CONSTRUCTION ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. VISUAL INSPECTION SHALL BE PERFORMED DAILY THROUGHOUT THE PROJECT CONSTRUCTION. TOP DRESSING WITH ADDITIONAL STONE OR ADDITIONAL LENGTH AS CONDITIONS DEMAND, AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.

D. CURB INLET PROTECTION: INLET PROTECTION SHALL BE INSPECTED WEEKLY AND PRIOR TO AND WITHIN 24 HOURS AFTER ALL FORECASTED STORM EVENTS. SEDIMENTS AND DEBRIS SHALL BE REMOVED FROM BEHIND THE FENCE IF PRESENT. REPAIR SHALL BE PERFORMED AS NEEDED.

PERMANENT MEASURES

CATCH BASIN / YARD DRAIN / MANHOLE MAINTENANCE ITEM	SATISFACTORY / UNSATISFACTORY	COMMENTS
1. VISUAL INSPECTION (EVERY 3 MONTHS) 1. SEDIMENT ACCUMULATION AT: A) RIM B) SUMP 2. SIGN OF EROSION AROUND STRUCTURE 3. SIGN OF STORMWATER BYPASS		
2. MAINTENANCE (EVERY 6 MONTHS) A) REMOVE SEDIMENT IN SUMP IF GREATER THAN 12" DEEP B) CLEAR RIM OF DEBRIS AND LEAVES C) CLEAR DEBRIS IN INLET CHANNEL D) REPAIR ERODED PORTION OF INLET CHANNEL (IF ANY)		

INFILTRATORS MAINTENANCE ITEM	SATISFACTORY / UNSATISFACTORY	COMMENTS
1. DEBRIS CLEANOUT (MONTHLY) CONTRIBUTING AREAS TO CLEAN OF DEBRIS		
2. DEWATERING (MONTHLY) DEWATERS BETWEEN STORMS		
3. SEDIMENT DEPOSITION (ANNUAL) NO EVIDENCE OF SEDIMENT		
4. OUTLET/OVERFLOW SPILLWAY (ANNUAL) GOOD CONDITION, NO NEED FOR REPAIRS NO EVIDENCE OF EROSION		

DESIGN 14 GRASS SWALE MAINTENANCE ITEM	SATISFACTORY / UNSATISFACTORY	COMMENTS
1. DEBRIS CLEANOUT (MONTHLY) CONTRIBUTING AREAS TO CLEAN OF DEBRIS		
2. CHECK DAMS OR ENERGY DISSIPATORS (ANNUAL, PRIOR TO AND WITHIN 24 HOURS AFTER ALL FORECASTED MAJOR STORMS) NO EVIDENCE OF FLOW GOING AROUND STRUCTURES NO EVIDENCE OF EROSION AT DOWNSTREAM TOE SOIL PERMEABILITY GROUNDWATER/BEDROCK		
3. VEGETATION (MONTHLY) MOWING DONE WHEN NEEDED MINIMUM MOWING DEPTH NOT EXCEEDED NO EVIDENCE OF EROSION AT DOWNSTREAM TOE FERTILIZED PER SPECIFICATION		
4. SEDIMENT DEPOSITION (ANNUAL) CLEAN OF SEDIMENT		

RIP RAP OUTLET PROTECTION (ONCE A YEAR AND AFTER MAJOR STORMS) MAINTENANCE ITEM	SATISFACTORY / UNSATISFACTORY	COMMENTS
1. CHECK FOR SCOUR AND INTEGRITY 2. REPAIR IF NEEDED		

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REVISIONS

NO.	DATE	DESCRIPTION
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6	11/14/14	REVISED FOR NCHD RENEWAL & 4 BEDROOM DWELLING

PROJECT

LORMAT CONSTRUCTION
SANDY LANE SUBDIVISION LOT #1
SANDY STREET
TOWN OF CARMEL
PUTNAM COUNTY, NY

TAX MAP 76.16 BLOCK 1, LOT 26

DATE	SEPT. 03, 2009
PROJECT MANAGER	RZ
DRAWN BY	RGK
CHECKED BY	PHL
SCALE	AS NOTED

DRAWING

EROSION and SEDIMENT CONTROL PLAN

PROJECT NUMBER 6055

DRAWING NUMBER C-160

SHEET 1 OF 2

ROBERT LAGA
Chairman

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ROSE TROMBETTA
Secretary

DAVID KLOTZLE
Wetland Inspector

TOWN OF CARMEL
ENVIRONMENTAL CONSERVATION BOARD

60 McAlpin Avenue
Mahopac, New York 10541
Tel. (845) 628-1500 - Ext. 190
www.ci.carmel.ny.us

BOARD MEMBERS

Edward Barnett
Marc Pekowsky
Vincent Turano
Nicholas Fannin
John Starace

APPLICATION FOR WETLAND PERMIT OR LETTER OF PERMISSION

Name of Applicant: Paul & Maria Meyers

Address of Applicant: 628 West 227th St Bronx, NY 10462 **Email:**

Telephone#

Name and Address of Owner if different from Applicant:

Property Address 56 Sycamore Rd. Mahopac, NY 10541 **Tax Map #** 76.5-1-21
Agency Submitting Application if Applicable: N/A
Location of Wetland: Lake Mahopac
Size of Work Section & Specific Location: Deck & Partial second floor
Will Project Utilize State Owned Lands? If Yes, Specify: NO

Type and extent of work (feet of new channel, yards of material to be removed, draining, dredging, filling, etc). A brief description of the regulated activity (attach supporting details).

N/A

Proposed Start Date 6/1/16 **Anticipated Completion Date:** 12/1/16 **Fee Paid $** 225.00

****

CERTIFICATION

I hereby affirm under penalty of perjury that information provided on this form is true to the best of my knowledge and belief, false statements made herein are punishable as a Class A misdemeanor pursuant to Section 210.45 of the Penal Law. As a condition to the issuance of a permit, the applicant accepts full legal responsibility for all damage, direct or indirect, or whatever nature, and by whomever suffered, arising out of the project described here-in and agrees to indemnify and save harmless the Town of Carmel from suits, actions, damages and costs of every name and description resulting from the said project.

Paul Meyers
SIGNATURE

3/31/16
DATE

617.20
Appendix B
Short Environmental Assessment Form

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

Paul & Maria Meyers

Name of Action or Project:
Addition for Paul & Maria Meyers

Project Location (describe, and attach a location map):
56 Sycamore Rd., Mahopac, NY 10541

Brief Description of Proposed Action:
Deck and Partial second floor

Name of Applicant or Sponsor:	Telephone:
Paul & Maria Meyers	E-Mail:

Address:
628 west 227 street

City/PO:	State:	Zip Code:
Bronx	NY	10463

	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.	X	
2. Does the proposed action require a permit, approval or funding from any other governmental Agency? If Yes, list agency(s) name and permit or approval: Carmel Building Dept.		X

3.a. Total acreage of the site of the proposed action? 0.473 acres
b. Total acreage to be physically disturbed? 0.016 acres
c. Total acreage (project site and any contiguous properties) owned or controlled by the applicant or project sponsor? 0.473 acres

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

	NO	YES	N/A
5. Is the proposed action, a. A permitted use under the zoning regulations?		X	
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?		X
7. Is the site of the proposed action located in, or does it adjoin, a state listed Critical Environmental Area? If Yes, identify: _____	X	
8. a. Will the proposed action result in a substantial increase in traffic above present levels?	X	
b. Are public transportation service(s) available at or near the site of the proposed action?	X	
c. Are any pedestrian accommodations or bicycle routes available on or near site of the proposed action?	X	
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: N/A		
10. Will the proposed action connect to an existing public/private water supply? If No, describe method for providing potable water: _____		X
11. Will the proposed action connect to existing wastewater utilities? If No, describe method for providing wastewater treatment: _____		X
12. a. Does the site contain a structure that is listed on either the State or National Register of Historic Places?	X	
b. Is the proposed action located in an archeological sensitive area?	X	
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?		X
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: _____	X	
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 XXSuburban		
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?	X	
16. Is the project site located in the 100 year flood plain?	X	
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? ☐ NO ☐ YES	X	
b. Will storm water discharges be directed to established conveyance systems (runoff and storm drains)? If Yes, briefly describe: ☐ NO ☐ YES		

	NO	YES
18. Does the proposed action include construction or other activities that result in the impoundment of water or other liquids (e.g. retention pond, waste lagoon, dam)? If Yes, explain purpose and size:	X	
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:	X	
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:	X	

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

Applicant/sponsor name: Paul & Maria Meyers Date: 3/31/16

Signature:

Part 2 - Impact Assessment. The Lead Agency is responsible for the completion of Part 2. Answer all of the following questions in Part 2 using the information contained in Part 1 and other materials submitted by the project sponsor or otherwise available to the reviewer. When answering the questions the reviewer should be guided by the concept "Have my responses been reasonable considering the scale and context of the proposed action?"

	No, or small impact may occur	Moderate to large impact may occur
1. Will the proposed action create a material conflict with an adopted land use plan or zoning regulations?		
2. Will the proposed action result in a change in the use or intensity of use of land?		
3. Will the proposed action impair the character or quality of the existing community?		
4. Will the proposed action have an impact on the environmental characteristics that caused the establishment of a Critical Environmental Area (CEA)?		
5. Will the proposed action result in an adverse change in the existing level of traffic or affect existing infrastructure for mass transit, biking or walkway?		
6. Will the proposed action cause an increase in the use of energy and it fails to incorporate reasonably available energy conservation or renewable energy opportunities?		
7. Will the proposed action impact existing: a. public / private water supplies?		
b. public / private wastewater treatment utilities?		
8. Will the proposed action impair the character or quality of important historic, archaeological, architectural or aesthetic resources?		
9. Will the proposed action result in an adverse change to natural resources (e.g., wetlands, waterbodies, groundwater, air quality, flora and fauna)?		

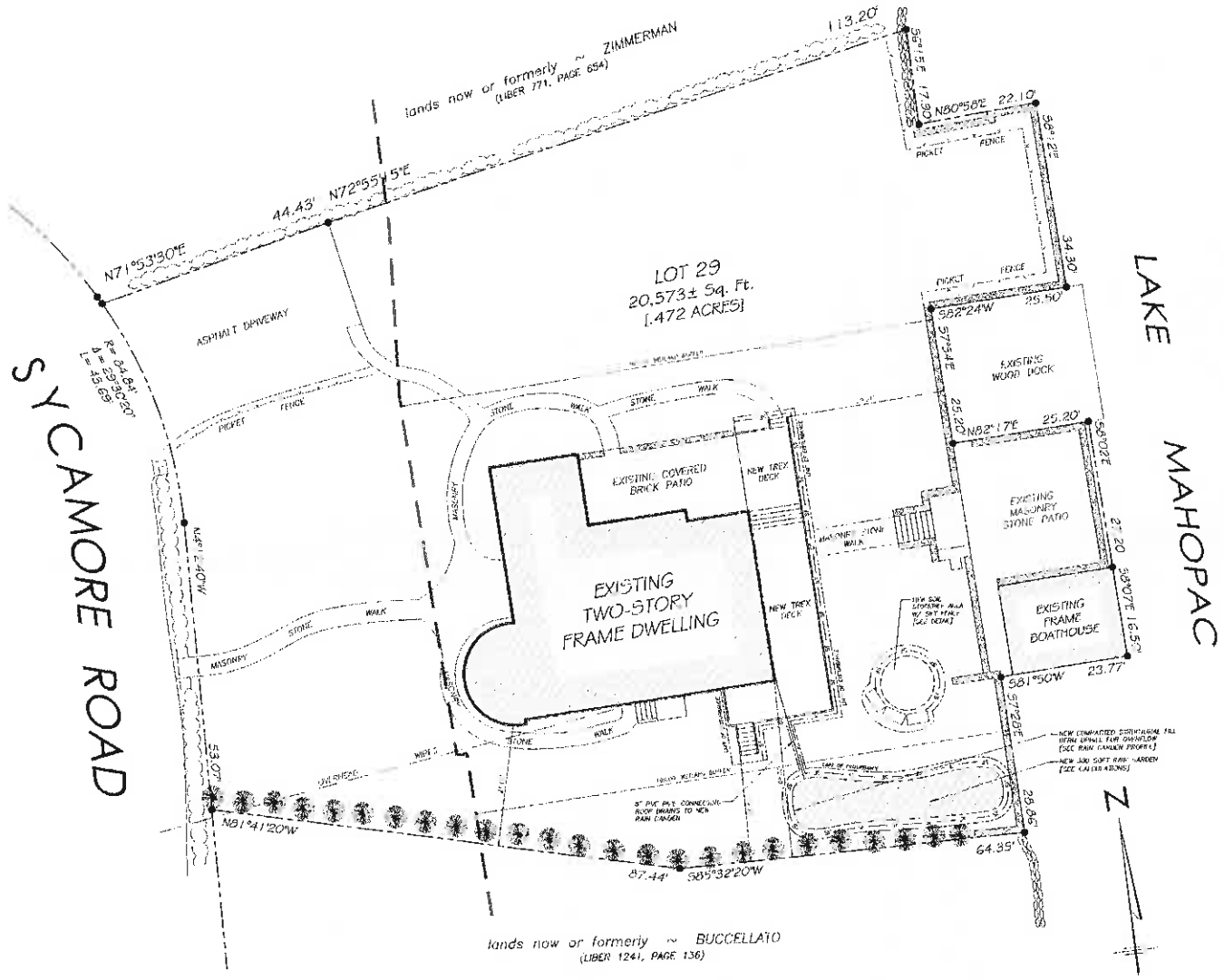
	No, or small impact may occur	Moderate to large impact may occur
10. Will the proposed action result in an increase in the potential for erosion, flooding or drainage problems?		
11. Will the proposed action create a hazard to environmental resources or human health?		

Part 3 - Determination of significance. The Lead Agency is responsible for the completion of Part 3. For every question in Part 2 that was answered "moderate to large impact may occur", or if there is a need to explain why a particular element of the proposed action may or will not result in a significant adverse environmental impact, please complete Part 3. Part 3 should, in sufficient detail, identify the impact, including any measures or design elements that have been included by the project sponsor to avoid or reduce impacts. Part 3 should also explain how the lead agency determined that the impact may or will not be significant. Each potential impact should be assessed considering its setting, probability of occurring, duration, irreversibility, geographic scope and magnitude. Also consider the potential for short-term, long-term and cumulative impacts.

☐ Check this box if you have determined, based on the information and analysis above, and any supporting documentation, that the proposed action may result in one or more potentially large or significant adverse impacts and an environmental impact statement is required.

☐ Check this box if you have determined, based on the information and analysis above, and any supporting documentation, that the proposed action will not result in any significant adverse environmental impacts.

Name of Lead Agency	Date
Print or Type Name of Responsible Officer in Lead Agency	Title of Responsible Officer
Signature of Responsible Officer in Lead Agency	Signature of Preparer (if different from Responsible Officer)



SITE PLAN

SITE DATA NOTES:

1.) PROPERTY OWNER:
PAUL & MARIA MEYERS
56 SYCAMORE ROAD
MAHOPAC, NY 10541

2.) TAX MAP NUMBER:
SECTION 76.5
BLOCK 1
LOT 21

3.) ZONE: R [RESIDENTIAL]

4.) WATER: WELL /SEWER: SEPTIC SYSTEM

5.) SOIL TYPE: CrC [CHARLTON-CHATFIELD]

7.) ZONING REQUIREMENTS:

SETBACKS	REQUIRED	EXISTING	PROPOSED	VARIANCE
GROSS SITE AREA	120,000 SQFT	20,573 SQFT	N/A	NONE
FRONT YARD	25.0 FT	49.11 FT	N/A	NONE
SIDE YARD [NORTH]	15.0 FT	57.42 FT	N/A	NONE
SIDE YARD [SOUTH]	15.0 FT	21.60 FT	19.33 FT	NONE
REAR YARD	20.0 FT	39.11 FT	29.51 FT	NONE
HEIGHT (MAX)	35.0 FT	29.0 FT	35.0 FT	NONE
BUILDING LOT COVERAGE (MAX)	10.0%	10.3%	13.2%	NONE
AREA OF DISTURBANCE (MAX)	N/A	N/A	1,457 SQFT	NONE

SEQUENCE OF CONSTRUCTION

1.) INSTALL SILT FENCING AS SHOWN ON SITE PLAN. NOTIFY WETLAND INSPECTOR UPON INSTALLATION COMPLETION
2.) CLEAR AREA WHERE ANY GRADING OR CONSTRUCTION IS PROPOSED
3.) DIGWALL PROPERLY FOR NEW DECK FOOTINGS AND PLAN FOR NEW TIMBERWEB
4.) CONSTRUCT NEW DECK AS SHOWN
5.) CONSTRUCT RAIN GARDEN AND BERM
6.) CONNECT ROOF DRAINS TO RAIN GARDEN W/ 6" PVC PIPE
7.) INSTALL RAIN GARDEN PLANTINGS AND NOTIFY WETLAND INSPECTOR UPON COMPLETION
8.) FINISH FINAL GRADING FOR SITE IMPROVEMENTS
9.) FINISH GRADING AND SEED LAWN AREA

NOTES:
1. WETLAND INSPECTOR TO BE NOTIFIED UPON COMPLETION OF RAIN GARDEN AND SILT FENCE INSTALLATION IN FRONT TO PERFORM INSPECTION

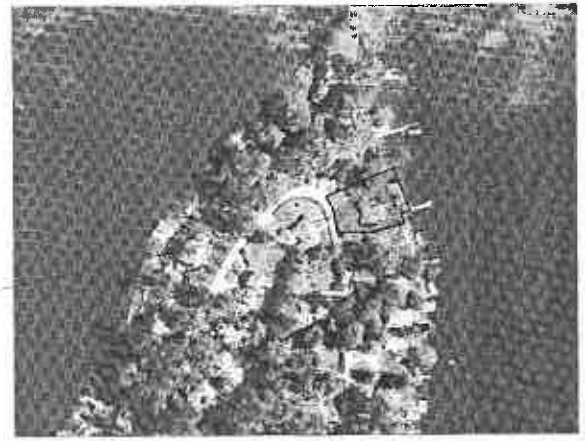
ARCHITECTURAL VISIONS LLC
2 MILLSTONE ROAD NORTH
MAHOPAC NY 10541
P 845-628-5613
F 845-628-2037

PROJECT:
PAUL & MARIA MEYERS
PROJECT ADDRESS
56 SYCAMORE ROAD
MAHOPAC, NY 10541
MAILING ADDRESS
P.O. BOX 1327
MAHOPAC, NY 10541
TAX MAP NO. 76.5-1-21

SITE PLAN AND DATA

SCALE: AS NOTED
DRAWN BY: MJ AND BY: MAP
PROJECT NO. 10-12-121

AS-10



PROJECT LOCATION MAP
NOT TO SCALE

RAIN GARDEN CALCULATIONS

- DRAINAGE AREA: 1,515 SQ FT
- DISTANCE TO GARDEN: LESS THAN 50 FT
- SOIL TYPE: PAXTON COMPLEX PxB
- GARDEN DEPTH: 9 IN
- CALCULATION:

P= 3.1 in [RAINFALL @ 90%]
Rv= 0.05 + 0.009(100)=0.95
A= 1,515 SQFT [AREA OF DRAINAGE]
WQV: WATER QUALITY VOLUME

$$WQV = \frac{(P)(Rv)(A)}{12} = \frac{(3.1)(0.95)(1,515)}{12} = 371.8\ FT^3$$

ARG= 400 SQFT [RAIN GARDEN AREA]
FSM= 1.25 FT [SOIL MEDIA DEPTH]
PSM= 0.20 [SOIL MEDIA POROSITY]
VSM: SOIL MEDIA VOLUME

$$VSM = (ARG)(DSM)(PSM) = (300SQFT)(1.25FT)(0.20) = 75\ FT^3$$

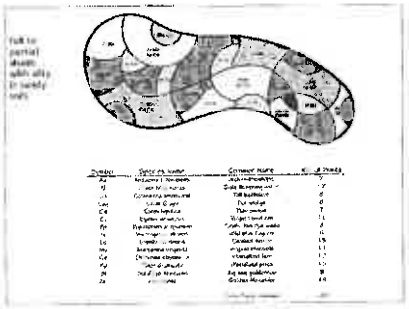
DDL= 0.75 FT [DRAINAGE LAYER DEPTH]
PDL= 0.40 [DRAINAGE LAYER POROSITY]
VDL= DRAINAGE LAYER VOLUME

$$VDL = (ARG)(DDL)(PDL) = (300\ SQFT)(0.75FT)(0.40) = 90\ FT^3$$

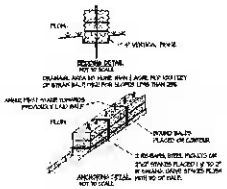
PD= 0.75 FT [PONDING DEPTH]

$$WQV \le VSM+VDL+(PD)(ARG) = 371.8FT^3 \le 75.0FT^3+90.0FT^3+(0.75FT)(300SQFT)$$
$$371.8\ FT^3 \le 390.0\ FT^3$$

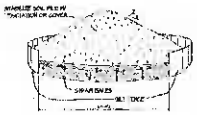
THEREFORE, THE RAIN GARDEN AREA OF 400.0 SQFT IS SUFFICIENT.
ALL UNDERGROUND PIPING WILL BE 6" PVC.



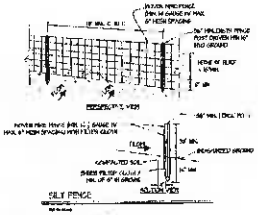
RAIN GARDEN DETAIL AND LAYOUT
NOT TO SCALE



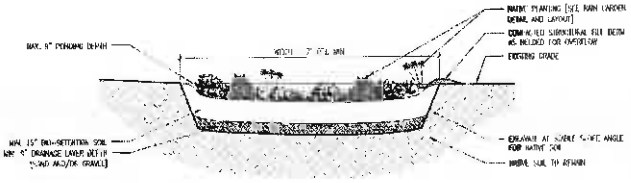
STRAW BALE DIKE



SOIL STOCKPILING DETAIL



SILT FENCE



RAIN GARDEN PROFILE
NOT TO SCALE

ARCHITECTURAL VISIONS PLLC

PROJECT:
PAUL & MARIA MEYERS

SITE PLAN DETAILS

SCALE: AS NOTED
DRAWN BY/CHKD BY: NAF / — 11.13
PROJECT NO: 15-13-133

AS-102

ROBERT LAGA
Chairman

ANTHONY DUSOVIC
Vice Chair

ROSE TROMBETTA
Secretary

DAVID KLOTZLE
Wetland Inspector

TOWN OF CARMEL
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Nicholas Fannin
John Starace

APPLICATION FOR WETLAND PERMIT OR LETTER OF PERMISSION

Name of Applicant: JANE CAVALLARO

Address of Applicant: 284 WEST LAKE BLVD. **Email:**

Telephone# **Name and Address of Owner if different from Applicant:**

Property Address: 284 WEST LAKE BLVD. **Tax Map #** 64.16-1-22
Agency Submitting Application if Applicable: NEMERJ DESIGN GROUP
Location of Wetland: LAKE MAHOPAC
Size of Work Section & Specific Location: 15'-0" x 6'-6" = 97.5 SQ. FT. @ FRONT OF HOUSE
Will Project Utilize State Owned Lands? If Yes, Specify: NO

Type and extent of work (feet of new channel, yards of material to be removed, draining, dredging, filling, etc). A brief description of the regulated activity (attach supporting details).
COVERED FRONT FOYER - 3.76 Cu. Yd.
Proposed Dry Well

Proposed Start Date: ASAP **Anticipated Completion Date:** **Fee Paid $** 225.00

****

CERTIFICATION

I hereby affirm under penalty of perjury that information provided on this form is true to the best of my knowledge and belief, false statements made herein are punishable as a Class A misdemeanor pursuant to Section 210.45 of the Penal Law. As a condition to the issuance of a permit, the applicant accepts full legal responsibility for all damage, direct or indirect, or whatever nature, and by whomever suffered, arising out of the project described here-in and agrees to indemnify and save harmless the Town of Carmel from suits, actions, damages and costs of every name and description resulting from the said project.

Jane Cavallaro
SIGNATURE

4-4-16
DATE

617.20
Appendix B
Short Environmental Assessment Form

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

CAVALLARO

Name of Action or Project:

FOYER ADDITION

Project Location (describe, and attach a location map):

284 WEST LAKE BLVD.

Brief Description of Proposed Action:

NEW FOYER TO AN EXIST'G. HOUSE WILL RESULT IN 154 S.F. OF NEW IMPERVIOUS SURFACE.

Name of Applicant or Sponsor:	Telephone:
JANE CAVALLARO	E-Mail:

Address:

284 WEST LAKE BLVD.

City/PO:	State:	Zip Code:
MAHOPAC	NY	10541

	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 governmental Agency? If Yes, list agency(s) name and permit or approval:	✓	

3.a. Total acreage of the site of the proposed action? 0.8160 acres
b. Total acreage to be physically disturbed? 0.0035 acres
c. Total acreage (project site and any contiguous properties) owned or controlled by the applicant or project sponsor? 0 acres

4. Check all land uses that occur on, adjoining and near the proposed action.

☐ Urban ☐ Rural (non-agriculture) ☐ Industrial ☐ Commercial ☑ Residential (suburban)
☐ Forest ☐ Agriculture ☐ Aquatic ☐ Other (specify): _____
☐ Parkland

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

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

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

	NO	YES
8. a. Will the proposed action result in a substantial increase in traffic above present levels?	✓	
b. Are public transportation service(s) available at or near the site of the proposed action?	✓	
c. Are any pedestrian accommodations or bicycle routes available on or near 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: SEPTIC	✓	

	NO	YES
12. a. Does the site contain a structure that is listed on either the State or National Register of Historic Places?	✓	
b. Is the proposed action located in an archeological sensitive area?	✓	

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

14. Identify the typical habitat types that occur on, or are likely to be found on the project site. Check all that apply:
☑ Shoreline ☐ Forest ☐ Agricultural/grasslands ☐ Early mid-successional
☐ Wetland ☐ Urban ☐ Suburban

	NO	YES
15. Does the site of the proposed action contain any species of animal, or associated habitats, listed by the State or Federal government as threatened or endangered?	✓	

	NO	YES
16. Is the project site located in the 100 year flood plain?		✓

	NO	YES
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? ☑ NO ☐ YES		
b. Will storm water discharges be directed to established conveyance systems (runoff and storm drains)? ☑ NO ☐ YES If Yes, briefly describe: _____		

	NO	YES
18. Does the proposed action include construction or other activities that result in the impoundment of water or other liquids (e.g. retention pond, waste lagoon, dam)? If Yes, explain purpose and size:	✓	
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 AFFIRM THAT THE INFORMATION PROVIDED ABOVE IS TRUE AND ACCURATE TO THE BEST OF MY KNOWLEDGE

Applicant/sponsor name: JANE CAVALLARO Date: 3-28-15

Signature: Jane Cavallaro

Part 2 - Impact Assessment. The Lead Agency is responsible for the completion of Part 2. Answer all of the following questions in Part 2 using the information contained in Part 1 and other materials submitted by the project sponsor or otherwise available to the reviewer. When answering the questions the reviewer should be guided by the concept "Have my responses been reasonable considering the scale and context of the proposed action?"

	No, or small impact may occur	Moderate to large impact may occur
1. Will the proposed action create a material conflict with an adopted land use plan or zoning regulations?		
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6. Will the proposed action cause an increase in the use of energy and it fails to incorporate reasonably available energy conservation or renewable energy opportunities?		
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b. public / private wastewater treatment utilities?		
8. Will the proposed action impair the character or quality of important historic, archaeological, architectural or aesthetic resources?		
9. Will the proposed action result in an adverse change to natural resources (e.g., wetlands, waterbodies, groundwater, air quality, flora and fauna)?		

	No, or small impact may occur	Moderate to large impact may occur
10. Will the proposed action result in an increase in the potential for erosion, flooding or drainage problems?		
11. Will the proposed action create a hazard to environmental resources or human health?		

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☐ Check this box if you have determined, based on the information and analysis above, and any supporting documentation, that the proposed action may result in one or more potentially large or significant adverse impacts and an environmental impact statement is required.

☐ Check this box if you have determined, based on the information and analysis above, and any supporting documentation, that the proposed action will not result in any significant adverse environmental impacts.

Name of Lead Agency	Date
Print or Type Name of Responsible Officer in Lead Agency	Title of Responsible Officer
Signature of Responsible Officer in Lead Agency	Signature of Preparer (if different from Responsible Officer)

DRAINAGE CALCULATIONS

"Cultec Chamber" Recharcher 330
Volume per Cultec Chamber (Vw) (30% voids)
V.w = 50 C.F.

Proposed Building Area = 154 S.F.
2.0" of Rainfall (first Flush)

154 S.F. x 2" Rain = 308 / 12 = 25.66 C.F.
25.66 C.F. / 50 C.F. = 0.51 units

0.51 units Use 1 Cultec Unit
Rechager 330

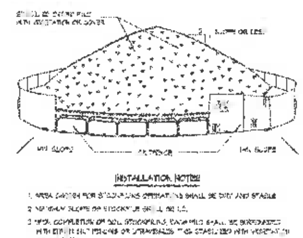
CONSTRUCTION NOTED FOR HACK WIRED SILT FENCE

1. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES.
2. FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION.
3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY SIX INCHES AND FOLDED.
4. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.

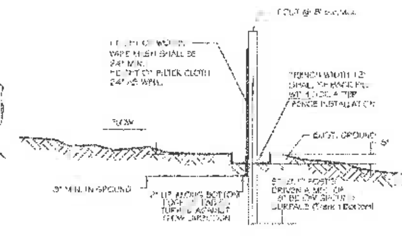
POSTS: STEEL "T" POSTS
FENCE: WOVEN WIRE 14.5 GA. 6" MAX. OPENING
FILTER CLOTH:
MANUFACTURED BY MIRAFI, EXXON CHEMICAL CO. OR APPROVED EQUAL

DRAINAGE NOTES:

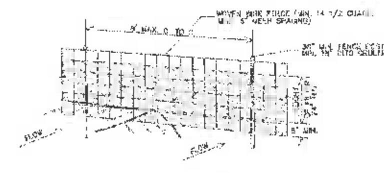
1. ALL DRAINAGE PIPES TO BE CONNECTED TO EXISTING LEADER DRAIN PIPE.
2. DRAINAGE PIPE, CONNECTING ROOF DRAINS SHALL BE 6" DIAMETER PVC SOLID PIPE.
3. DRAINAGE PVC PIPING SHALL BE A MINIMUM OF 18" DEEP, HAVING A MINIMUM SLOPE OF 1.00%, TERMINATING TO THE DRAIN MANHOLE AS SHOWN. DIRECT DISCHARGE FROM THE ROOF LEADERS TO THE FINISHED GRADE IS NOT ACCEPTABLE.



SOIL STOCKPILING DETAIL n.t.s.

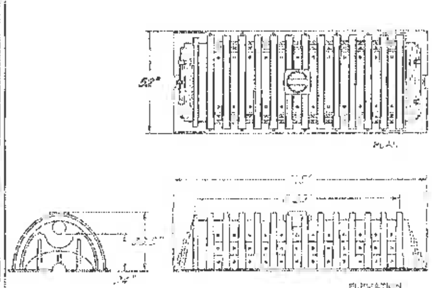


WIRE REINFORCED SILT FENCE DETAIL
N.T.S.

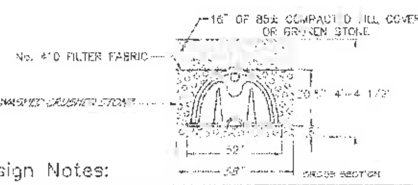


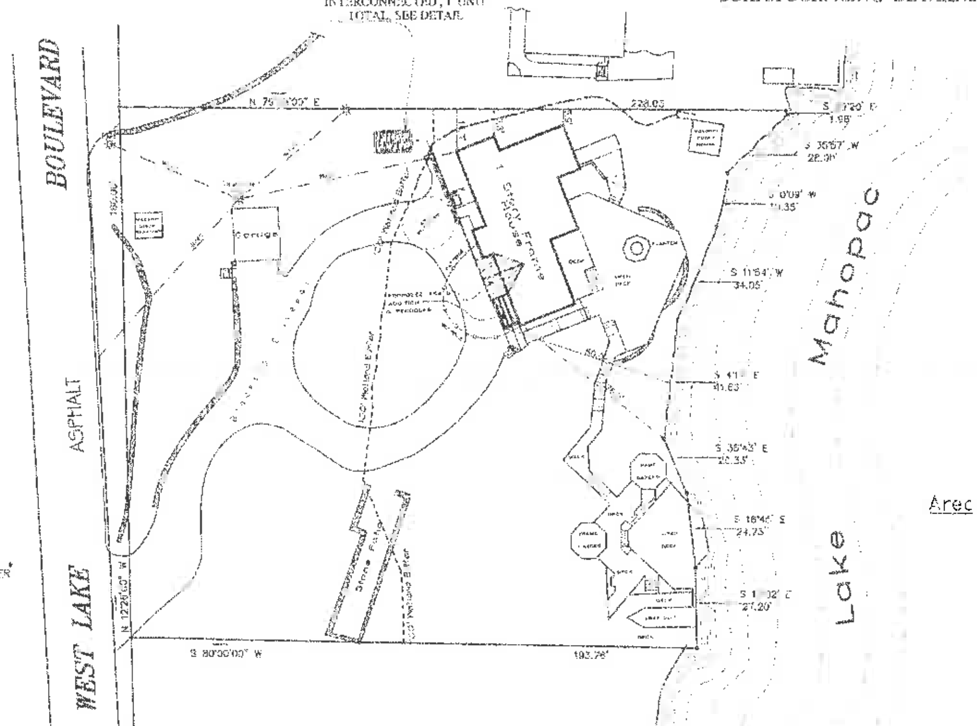
PERSPECTIVE VIEW
N.T.S.

NOTE: AT REMOVAL OF SILT FENCE THE CONTRACTOR SHALL RESTORE THE GROUND TO THE INTENDED CONDITION.



Recommended Single-Level Installation of Contactor Recharger 330HD For Storm Water Management Under Regular Soil





PLOT PLAN
BASED ON
SURVEY OF PROPERTY
PREPARED BY

ROBERT BAXTER
LAND SURVEYING
MAHOPAC, NY
10541

THE LOCATION OF UNDERGROUND UTILITIES AS SHOWN HEREON ARE BASED ON ABOVEGROUND STRUCTURES. LOCATIONS OF UNDERGROUND UTILITIES/STRUCTURES MAY VARY FROM LOCATIONS SHOWN HEREON.

ADDITIONAL BURIED UTILITIES/STRUCTURES MAY BE ENCOUNTERED. FOR INFORMATION REGARDING THESE UTILITIES OR STRUCTURES, PLEASE CONTACT THE APPROPRIATE AGENCIES.

Design Notes:

- Design Unit based on recommended method of installation
- Capacity of void provided by stone is calculated at 40% of **stone volume.
- Capacity of Contactor Recharger 330HD: 7.4 cubic feet per linear foot
- Design Unit Capacity is: 10.4 cubic feet per linear foot.
- Total Stone Required per linear foot: 7.5 cubic feet
- Total Area per linear foot: 4.75 S.F.
- Total Area per Unit of Contactor Recharger 330HD Evaluated on Average Use Use of 6.25' of Length: 30.2 S.F.

*Requirements for H-20 Wheel Load.
** Stone used for backfill of chamber should be analyzed for true capacity and percentage of variation should be taken into account.

STORMFILTER DETAIL
NOT TO SCALE

SEDIMENTATION & EROSION CONTROL NOTES

1. THE EROSION CONTROL PLAN IS ONLY TO BE REFERRED TO FOR THE INSTALLATION OF SEDIMENTATION AND EROSION CONTROL MEASURES. FOR ALL OTHER CONSTRUCTION RELATED ACTIVITIES, INCLUDING BUT NOT LIMITED TO GRADING AND UTILITIES, REFER TO THE APPROPRIATE DRAWINGS.
2. ALL SOIL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE INSTALLED IN ACCORDANCE WITH NEW YORK GUIDELINES FOR URBAN EROSION & SEDIMENT CONTROL, LATEST EDITION.
3. WHEREVER FEASIBLE, NATURAL VEGETATION SHOULD BE RETAINED AND PROTECTED.
4. ALL TOPSOIL TO BE STRIPPED FROM THE AREA BEING DEVELOPED SHALL BE STOCKPILED AND IMMEDIATELY SEEDED WITH [illegible] RYEGRASS.
5. ANY GRADED AREAS NOT SUBJECT TO FURTHER DISTURBANCE OR CONSTRUCTION TRAFFIC SHALL, WITHIN 10 DAYS OF FINAL GRADING, RECEIVE PERMANENT VEGETATION COVER IN COMBINATION WITH A SUITABLE MULCH. ALL SEEDED AREAS TO RECEIVE A MINIMUM 4" TOPSOIL (FROM STOCKPILED AREA) AND BE SEEDED AND MULCHED AS FOLLOWS:

SEED MIXTURE TO BE PLANTED BETWEEN APRIL 1 AND MAY 15, OR BETWEEN AUGUST 15 AND OCTOBER 15 OR AS DIRECTED BY PROJECT REPRESENTATIVE AT A RATE OF 50 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 GUIDELINES FOR URBAN EROSION & SEDIMENT CONTROL, LATEST EDITION.

6. GRASS SEED MIX MAY BE APPLIED BY EITHER MECHANICAL OR HYDROSEEDING METHODS. HYDROSEEDING SHALL BE PERFORMED IN ACCORDANCE WITH THE CURRENT EDITION OF THE NYSDOT STANDARD SPECIFICATIONS, CONSTRUCTION AND MATERIALS, SECTION 610-3.02, METHOD #1.
7. ALL CONTROL MEASURES FOR EROSION AND SEDIMENTATION SHALL COMPLY WITH THE FOLLOWING INSPECTION SCHEDULE:
   A) WEEKLY INSPECTIONS OF ALL CONTROL MEASURES.
   B) WEEKLY INSPECTIONS OF STREAM CONTROL MEASURES.
   C) INSPECTIONS OF ALL CONTROL MEASURES BEFORE FORECASTED AND AFTER PERIODS OF HEAVY OR PROLONGED RAIN.
   D) INSPECTIONS OF ON AND OFF SITE AREAS DOWNSTREAM FROM CONSTRUCTION ACTIVITIES.
8. THE INSPECTIONS SHALL BE CONDUCTED BY THE APPLICANT AND/OR HIS REPRESENTATIVE, I.E. THE SITE ENGINEER, OR THE CONTRACTOR, TO DETERMINE THE FOLLOWING:
   A) THE CONDITIONS OF THE CONTROL MEASURES AND THE NEED FOR REPAIR OR REPLACEMENT.
   B) THE NEED FOR MAINTENANCE, E.G. REMOVAL OF SEDIMENT FROM BARRIERS, TRAPS, AND BASINS.
   C) THE NEED FOR ADDITIONAL CONTROL MEASURES.
   D) THE NEED FOR REAPPLICATION OF SEEDING, NETTING AND/OR MULCHING.
   E) THE OVERALL EFFECTIVENESS OF THE CONTROL PLAN.
9. ALL TEMPORARY AND PERMANENT CONTROL DEVICES MUST BE MAINTAINED AND REPAIRED AS NEEDED TO ASSURE CONTINUED PERFORMANCE OF THEIR INTENDED FUNCTION. ALL NECESSARY REPAIRS SHALL BE PERFORMED IMMEDIATELY.
10. THESE PLANS INDICATE THE CONTROL MEASURES TO BE PUT IN PLACE. ADDITIONAL CONTROL MEASURES SHALL BE IMPLEMENTED AS SITE CONDITIONS CHANGE AND UNFORESEEN PROBLEMS OCCUR. IMPLEMENTATION OF THE ADDITIONAL CONTROL MEASURES SHALL BE AT THE DISCRETION OF THE CONTRACTOR, THE SITE ENGINEER OR THE TOWN.
11. DUST SHALL BE CONTROLLED BY SPRINKLING OR OTHER APPROVED METHOD AS NECESSARY OR AS DIRECTED BY THE O.P.R.
12. CUT AND FILLS SHALL NOT ENDANGER ADJOINING PROPERTY NOT DIVERT WATER ONTO THE PROPERTY OF OTHERS.
13. ALL FILLS SHALL BE COMPACTED TO PROVIDE STABILITY OF MATERIAL AND TO PREVENT SETTLEMENT OF OTHERS.
14. EROSION CONTROL MEASURES SHALL REMAIN IN PLACE UNTIL ALL DISTURBED AREAS ARE SUITABLY STABILIZED.

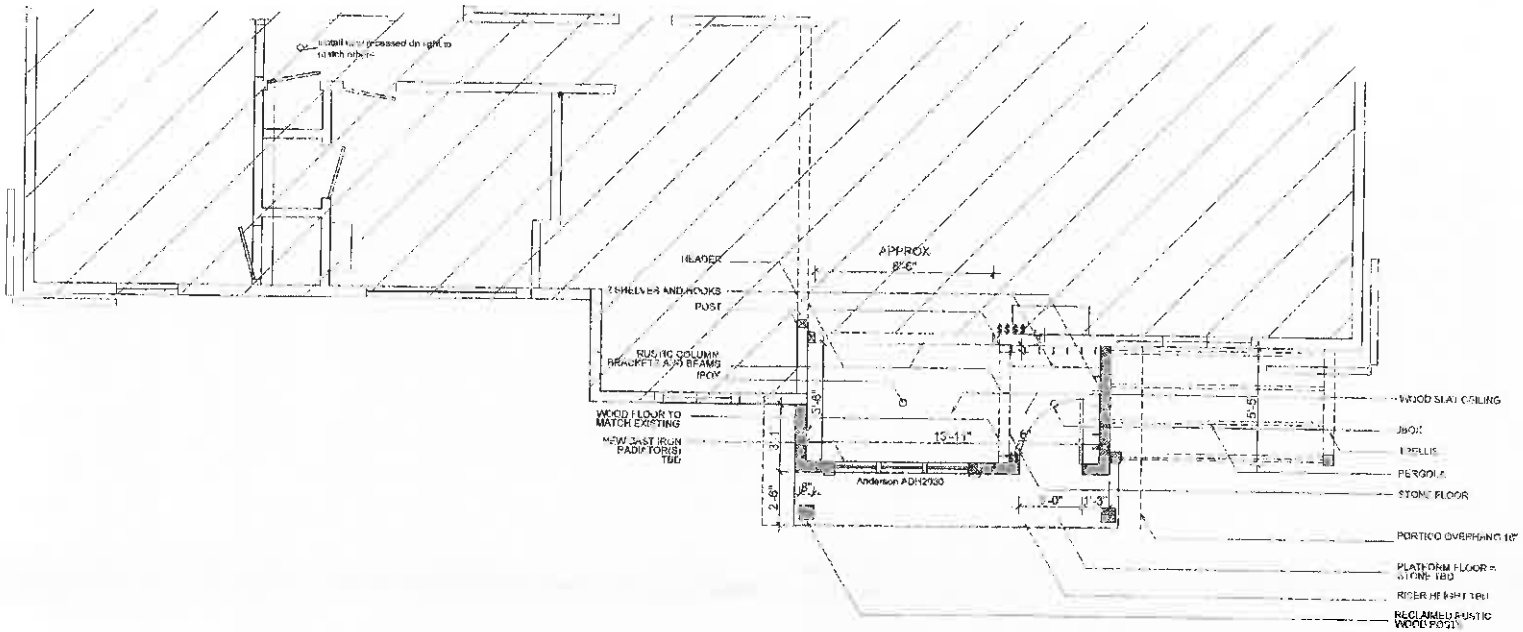
MERJ DESIGN GROUP

DRY WELL
EROSION CONTROL
MEASUREMENTS

CAVALLARO
281 WEST LAKE BLVD.
MAHOPAC, NY

As Noted

A-1



PROPOSED FLOOR PLAN

SCALE ——— 1/4"=1'-0"

MERJ

DESIGN GROUP DRAWING - FLAT PDF & SIROX TIFFAL UNDERLAYING

215 HEMLOCK ST MAHOPAC, NY 10541 (845) 628-5139

Project: EXISTING DECK STORAGE & SCREEN PORCH AS BUILT

Drawing Title: PROPOSED FLOOR PLAN

ISSUES / REVISIONS

Date	Title

OWNER:

CAVALLARO
284 WEST LAKE BLVD.
MAHOPAC, NY 10541

Drawn By: R.M.

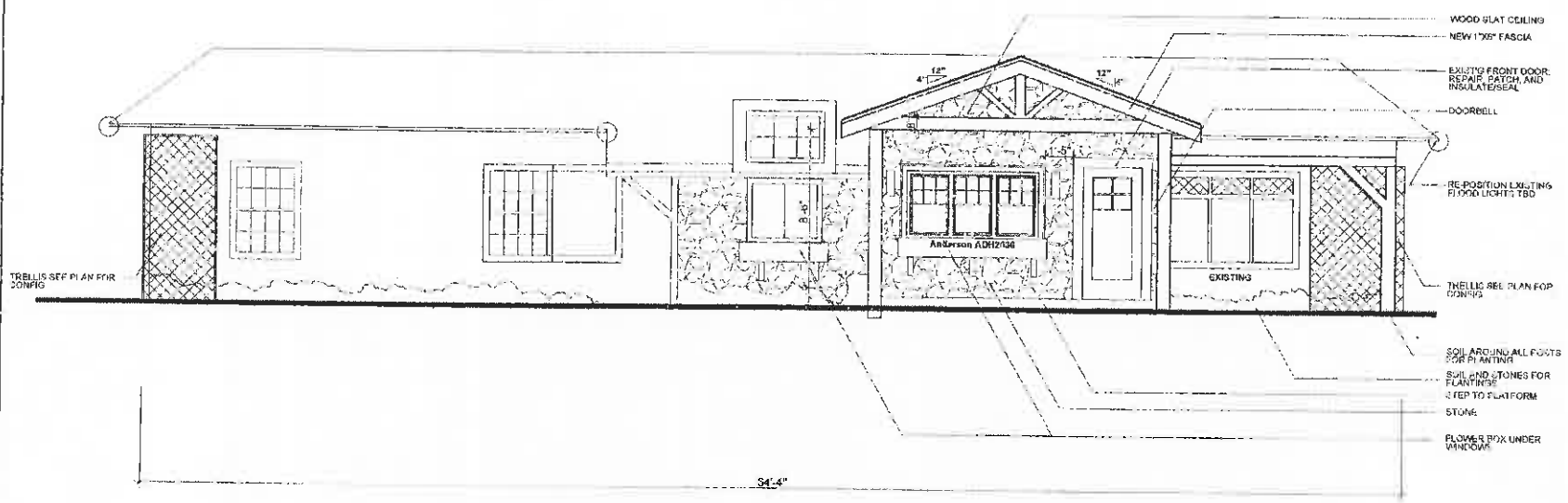
Chk'd By: d.o.t.

Tax Map #:

Scale: As Noted

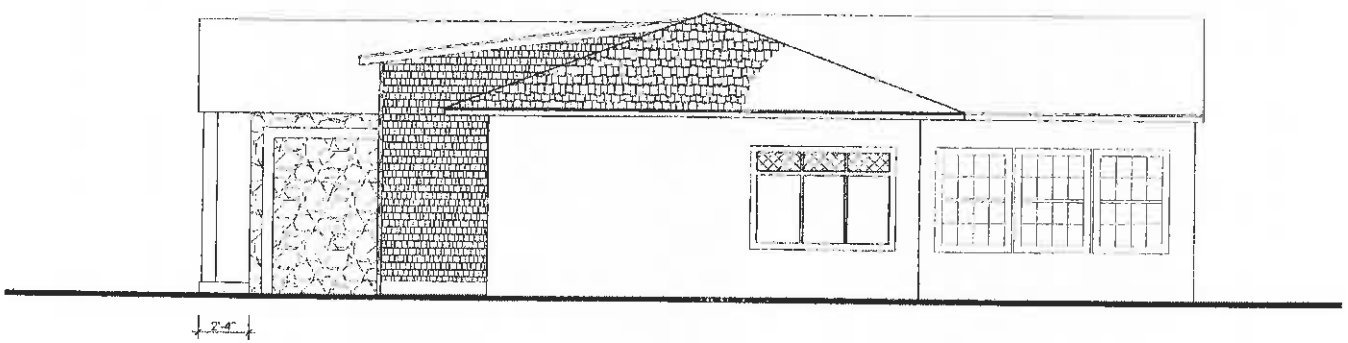
Date: 03-28-16

Drawing Number: A-1



PROPOSED FRONT ELEVATION

SCALE: 1/4"=1'-0"



PROPOSED RIGHT SIDE ELEVATION

SCALE: 1/4"=1'-0"

EMERJ DESIGN GROUP

215 -41 TOP ST MAHOPAC, NY 10541 (845) 628-6039

Project: EXISTING DECK, STORAGE & SCREEN PORCH AS BUILT

Drawing Title: PROPOSED ELEVATION

ISSUES / REVISIONS

Date	Title

OWNER: CAVALLARO
284 WEST LAKE BLVD
MAHOPAC, NY 10541

Chkd By: R.M.
Dwg By: d.e.l.
Tax Map #:

Scale: As Noted

Date: 03-28-16

Drawing Number: A-3

Dave Butler
137 Weber Hill Rd
Carmel, NY 10512

Project Description and Purpose
I am requesting this permit to repair erosion and water flow damage caused to my pond and my driveway by erosion. There is a storm water pond that is on the edge of my driveway near the entrance to my property.

1) Pump pond area down and remove existing corrugated metal pipe
2) Install new 15" HDPE pipe
3) Add Clean Dirt / Rip-Rap 5' from edge of driveway (Approx. 300 cu/ft)
4) Install new stone headwall on pond side of pipe
5) Saw cut driveway for new curtain drain along property line. Install new 2'W X 2'D curtain drain with 6" perforated pipe and connect to catch basin. The drainage will run approx. 50'
6) Repair existing catch basin and patch driveway with hot asphalt (30'X12')
7) Seed and hay any disturbed areas.

NOTE: Silt fence will be put between edge of work area and pond as shown in the attached plans to prevent any contamination

ROBERT LAGA
Chairman

ANTHONY DUSOVIC
Vice Chair

ROSE TROMBETTA
Secretary

DAVID KLOTZLE
Wetland Inspector

TOWN OF CARMEL
ENVIRONMENTAL CONSERVATION BOARD

60 McAlpin Avenue
Mahopac, New York 10541
Tel. (845) 628-1500 - Ext. 190
www.ci.carmel.ny.us

BOARD MEMBERS

Edward Barnett
Marc Pekowsky
Vincent Turano
Nicholas Fannin
John Starace

APPLICATION FOR WETLAND PERMIT OR LETTER OF PERMISSION

Name of Applicant: Dave Butler

Address of Applicant: 137 Weber Hill Rd **Email:**

Telephone# **Name and Address of Owner if different from Applicant:**

Property Address: 137 Weber Hill Rd **Tax Map #** 65.16-1-22
Agency Submitting Application if Applicable: N/A
Location of Wetland: North of Northern property line of parcel II
Size of Work Section & Specific Location: Minor edge of drive way
Will Project Utilize State Owned Lands? If Yes, Specify: No

Type and extent of work (feet of new channel, yards of material to be removed, draining, dredging, filling, etc). A brief description of the regulated activity (attach supporting details).
See plan

Proposed Start Date: ASAP **Anticipated Completion Date:** **Fee Paid $** 225.00

****

CERTIFICATION

I hereby affirm under penalty of perjury that information provided on this form is true to the best of my knowledge and belief, false statements made herein are punishable as a Class A misdemeanor pursuant to Section 210.45 of the Penal Law. As a condition to the issuance of a permit, the applicant accepts full legal responsibility for all damage, direct or indirect, or whatever nature, and by whomever suffered, arising out of the project described here-in and agrees to indemnify and save harmless the Town of Carmel from suits, actions, damages and costs of every name and description resulting from the said project.

Dave Butler
SIGNATURE

3/20/16
DATE

617.20
Appendix B
Short Environmental Assessment Form

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:

Project Location (describe, and attach a location map):
137 Weber Hill Road, Carmel, NY 10512

Brief Description of Proposed Action:
Repair erosion + water flow damage caused to pond + driveway. Install new 15" HDPE pipe

Name of Applicant or Sponsor:	Telephone:
Dave Butler	E-Mail:

Address: 137 Weber Hill Rd

City/PO:	State:	Zip Code:
Carmel	NY	10512

	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 governmental Agency? If Yes, list agency(s) name and permit or approval: GSA GE (attached)		✓

3.a. Total acreage of the site of the proposed action? <.25 acres
b. Total acreage to be physically disturbed? <.25 acres
c. Total acreage (project site and any contiguous properties) owned or controlled by the applicant or project sponsor? <.25 acres

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

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

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

	NO	YES
7. Is the site of the proposed action located in, or does it adjoin, a state listed Critical Environmental Area? If Yes, identify: Pond on edge of right way Cleared with DEC, DEC & GAC		✓

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

	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:		X

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

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

	NO	YES
12. a. Does the site contain a structure that is listed on either the State or National Register of Historic Places?	X	
b. Is the proposed action located in an archeological sensitive area?		

	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: Restoring erosion to edge of pond		X

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?	X	

	NO	YES
16. Is the project site located in the 100 year flood plain?	X	

	NO	YES
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? ☑ NO ☐ YES	X	
b. Will storm water discharges be directed to established conveyance systems (runoff and storm drains)? If Yes, briefly describe: ☑ NO ☐ YES	X	

	NO	YES
18. Does the proposed action include construction or other activities that result in the impoundment of water or other liquids (e.g. retention pond, waste lagoon, dam)? If Yes, explain purpose and size:	X	
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:	X	
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:	X	

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

Applicant/sponsor name: Dave Butler Date: 3/20/16

Signature:

Part 2 - Impact Assessment. The Lead Agency is responsible for the completion of Part 2. Answer all of the following questions in Part 2 using the information contained in Part 1 and other materials submitted by the project sponsor or otherwise available to the reviewer. When answering the questions the reviewer should be guided by the concept "Have my responses been reasonable considering the scale and context of the proposed action?"

	No, or small impact may occur	Moderate to large impact may occur
1. Will the proposed action create a material conflict with an adopted land use plan or zoning regulations?		
2. Will the proposed action result in a change in the use or intensity of use of land?		
3. Will the proposed action impair the character or quality of the existing community?		
4. Will the proposed action have an impact on the environmental characteristics that caused the establishment of a Critical Environmental Area (CEA)?		
5. Will the proposed action result in an adverse change in the existing level of traffic or affect existing infrastructure for mass transit, biking or walkway?		
6. Will the proposed action cause an increase in the use of energy and it fails to incorporate reasonably available energy conservation or renewable energy opportunities?		
7. Will the proposed action impact existing: a. public / private water supplies?		
b. public / private wastewater treatment utilities?		
8. Will the proposed action impair the character or quality of important historic, archaeological, architectural or aesthetic resources?		
9. Will the proposed action result in an adverse change to natural resources (e.g., wetlands, waterbodies, groundwater, air quality, flora and fauna)?		

	No, or small impact may occur	Moderate to large impact may occur
10. Will the proposed action result in an increase in the potential for erosion, flooding or drainage problems?		
11. Will the proposed action create a hazard to environmental resources or human health?		

Part 3 - Determination of significance. The Lead Agency is responsible for the completion of Part 3. For every question in Part 2 that was answered "moderate to large impact may occur", or if there is a need to explain why a particular element of the proposed action may or will not result in a significant adverse environmental impact, please complete Part 3. Part 3 should, in sufficient detail, identify the impact, including any measures or design elements that have been included by the project sponsor to avoid or reduce impacts. Part 3 should also explain how the lead agency determined that the impact may or will not be significant. Each potential impact should be assessed considering its setting, probability of occurring, duration, irreversibility, geographic scope and magnitude. Also consider the potential for short-term, long-term and cumulative impacts.

☐ Check this box if you have determined, based on the information and analysis above, and any supporting documentation, that the proposed action may result in one or more potentially large or significant adverse impacts and an environmental impact statement is required.

☐ Check this box if you have determined, based on the information and analysis above, and any supporting documentation, that the proposed action will not result in any significant adverse environmental impacts.

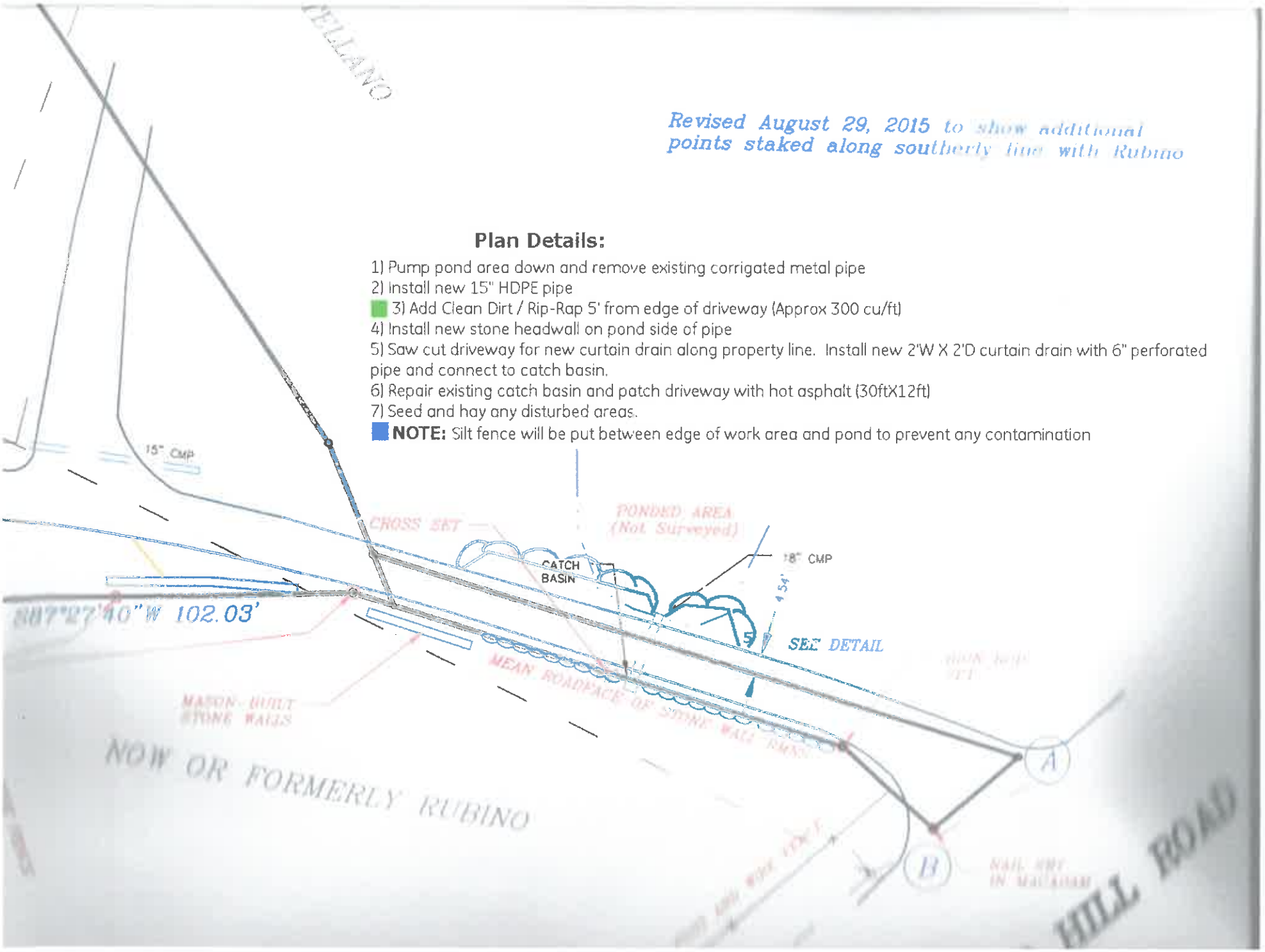
Name of Lead Agency	Date
Print or Type Name of Responsible Officer in Lead Agency	Title of Responsible Officer
Signature of Responsible Officer in Lead Agency	Signature of Preparer (if different from Responsible Officer)

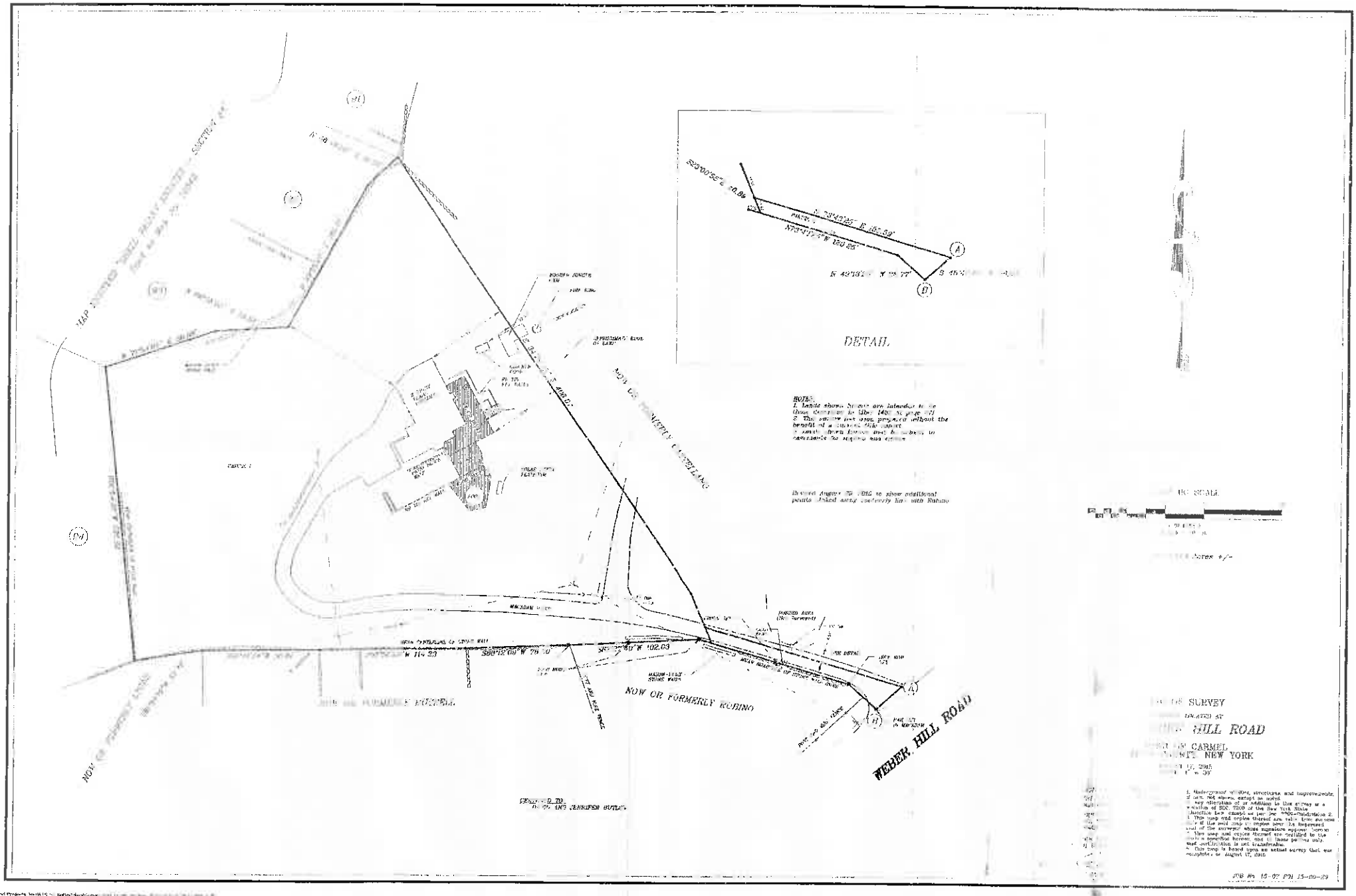
Revised August 29, 2015 to show additional points staked along southerly line with Rubino

Plan Details:

1) Pump pond area down and remove existing corrigated metal pipe
2) Install new 15" HDPE pipe
3) Add Clean Dirt / Rip-Rap 5' from edge of driveway (Approx 300 cu/ft)
4) Install new stone headwall on pond side of pipe
5) Saw cut driveway for new curtain drain along property line. Install new 2'W X 2'D curtain drain with 6" perforated pipe and connect to catch basin.
6) Repair existing catch basin and patch driveway with hot asphalt (30ftX12ft)
7) Seed and hay any disturbed areas.

NOTE: Silt fence will be put between edge of work area and pond to prevent any contamination




DETAIL
NOTES:
1. Lands shown hereon are intended to be those contained in Liber 1495 Page 231
2. This survey has been prepared without the benefit of a current title report
3. Lands shown hereon are subject to conditions as appear on record
Revised August 29, 2016 to show additional points staked along easterly line with Rubino
NOW OR FORMERLY RUBINO
WEBER HILL ROAD
NOW OR FORMERLY
SCALE
Acres +/-
SURVEY
LOCATED AT
HILL ROAD
CARMEL
NEW YORK
1. Underground utilities, structures and improvements, if any, not shown, except as noted.
2. Any alteration of or addition to this survey or a violation of SEC. 7209 of the New York State Education Law exists as per Sec. 7209-Subdivision 2.
3. This map and copies thereof are valid only if the seal of the surveyor whose signature appears hereon is affixed.
4. This map and copies thereof are certified to the date specified hereon, and to those persons only. Such certification is not transferable.
5. This map is based upon an actual survey that was completed on August 17, 2016
JOB No. 15-07 PDI 15-09-29

Subject: FW: Follow-up on discussion earlier today
Date: Saturday, March 12, 2016 at 9:57:53 AM Eastern Standard Time
From: Dave Butler
To: Butler, David (GE Digital)

From: Giannetta, Matthew [mailto:MGiannetta@dep.nyc.gov]
Sent: Thursday, October 22, 2015 4:18 PM
To: 'dhbsolutions@verizon.net' <dhbsolutions@verizon.net>
Subject: RE: Follow-up on discussion earlier today

Hi, Dave. Your property is definitely located within the NYC Watershed. However, the construction activity you've describe below does not require any DEP permits or approvals pursuant to the Watershed Regulations. For your convenience, attached is a pdf copy of the Watershed Regs.

The proposed filling of a pond and alteration of drainage patterns associated with the pond may require the review and approval of the Town of Carmel Conservation Board – I would suggest that you reach out to the Board to determine their jurisdiction prior to conducting any work in the vicinity of the pond.

Let me know if you have any additional questions.

Matt

Matt G | BWS
(O) 914 742 2028 | mgiannetta@dep.nyc.gov

From: dhbsolutions@verizon.net [mailto:dhbsolutions@verizon.net]
Sent: Monday, October 19, 2015 4:45 PM
To: Giannetta, Matthew
Subject: Follow-up on discussion earlier today

Hi Matt,

Thank you for taking the time to speak with me earlier today regarding the damage my neighbor had done to both my driveway and the small pond alongside it as well as how I would like to resolve the issues caused by my neighbors construction. As we discussed, the pond alongside my driveway has drainage that would take it underneath my driveway to a catch basin and then from that catch basin it would travel underneath my neighbor's yard and eventually hitting Carmel's drainage. When my neighbor added a garage and a large parking lot to his yard he crushed the pipe that would drain the pond. This has caused the pond to fill near its limit and has washed away the fill on

the side of my driveway causing it to begin to collapse. It has also resulted in an overgrowth of vegetation in the pond during the dry seasons (July – Feb) when the pond is typically dry.

What I would like to do to restore my driveway and the pond is to raise the driveway approx. 2 ft and to fill in 10-15ft into the pond. I would also like to remove the existing pipe that was used to drain the pond because since the pipe underneath my neighbor's yard has been crushed I end up with drainage and silt from his yard pouring into the pond. So now water is backing up into my pond instead of flowing to the town drainage. When we reviewed the property, my yard, 137 Weber Hill Rd in Carmel NY was not flagged as NYC watershed. I will probably also add Aerator to the pond to prevent it from being the swamp that is has become since the existing pipe was crushed.

I have enclosed a picture of the survey of my property which shows both the driveway as well as the pond. The second image shows my property (lot 22), a neighbor whom I share a driveway with and whom I will be working with on this project (lot 25, Nick Castellano 139 Weber Hill). Lot 23, Peter Rubino is the neighbor that had caused the damage to my property. On the second image I drew markers indicating where the existing pond and drainage reside.

As we discussed, I would like your confirmation in a reply to this email that the DEP has no issues with what I am proposing.

Dave Butler
137 Weber Hill Rd
Carmel, NY 10512

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Permits, Region 3
21 South Putt Corners Road, New Paltz, NY 12561-1620
P: (845) 256-3054 | F: (845) 255-4659
www.dec.ny.gov

October 19, 2015

Dave Butler
137 Weber Hill Road
Carmel, New York 10512

Re: JURIDICTION DETERMINATION REQUEST
Proposed Driveway Restoration
137 Weber Hill Road
Town of Carmel, Putnam County

Dear Mr. Butler:

The New York State Department of Environmental Conservation (Department or DEC) has reviewed your inquiry dated 10/16/15 regarding the above noted. Based upon our review of the information provided, we offer the following comments:

1. **Freshwater Wetlands** – Your project/site is not within a New York State protected Freshwater Wetland and, therefore not require a Freshwater Wetland Permit from this Department. However, please contact your town officials and the United States Army Corps of Engineers in New York City, telephone (917) 790-8511, for any permitting they might require.

   If an U.S. Army Corp permit is required for this proposal, Section 401 Water Quality Certification (WQC) will be required from the Department. Please note that DEC has already granted statewide blanket WQC for this type of activity and, therefore, no individual WQC will be needed for the above noted project.

2. **SPDES Stormwater (Construction)** – If project activities will disturb over 5,000 square feet of land within the NYC Department of Environmental Protection East of Hudson Watershed, the project sponsor must obtain coverage under the current SPDES General Permit (GP-0-15-002) for Stormwater Discharge from Construction Activities, and a Stormwater Pollution Prevention Plan (SWPPP) must be developed which conforms to requirements of the General Permit. As the Town of Carmel is an MS4 community (Municipal Separate Storm Sewer System), the Town is responsible for review and acceptance of the SWPPP. [The MS-4 Acceptance Form must be submitted to the Department.] Authorization for coverage under the SPDES General Permit is not granted until the Department issues any other necessary DEC permits.

If you have any other questions or comments in regard to this letter, or your responsibilities under the New York State Environmental Conservation Law, please do not hesitate to contact me at 845-256-3040.

Sincerely,

Joseph R. Murray
Environmental Analyst
Division of Environmental Permits

enc.

cc: Town of Carmel

Butler Property
137 Weber Hill Road
Carmel, Putman County

Legend

Unprotected

Protected

Freshwater Wetland

0 250 500 1000 Feet

N W E S

DEC Division of
Environmental Permits
10/19/15, JRM

DEPARTMENT OF THE ARMY
NEW YORK DISTRICT, CORPS OF ENGINEERS
JACOB K. JAVITS FEDERAL BUILDING
26 FEDERAL PLAZA
NEW YORK, NEW YORK 10278-0090

JAN 0 5 2016

Regulatory Branch

SUBJECT: Permit Application Number NAN-2015-01644-WOM
by Butler, Dave

Dave Butler
137 Weber Hill road
Carmel, New York 10512

Dear Mr. Butler:

On December 8, 2015, the New York District of the U.S. Army Corps of Engineers received a request for Department of the Army authorization for the placement of fill into waters of the United States to facilitate repairs to an existing damaged driveway adjacent area and raise the driveway to prevent future flooding and erosion. The site is located in the Hudson River watershed, in the Town of Carmel, Putnam County, New York.

A submittal prepared by Mr. Dave Butler, dated November 21, 2015 indicates that the site work would consist of the placement of concrete bin blocks, clean dirt fill, and boulders into approximately 1,100 square feet (0.025 acres) of the on-site seasonal pond, as well as the extension of an existing drainage pipe, to repair the existing driveway and adjacent bank area and prevent further erosion. The 2-foot tall by 2-foot wide bin blocks would be placed in the pond, along 100 linear feet of the driveway. Then approximately 49 cubic yards clean dirt fill would be placed on the driveway and the bin blocks, creating even elevation between the driveway itself and the blocks, and raising the existing driveway elevation by approximately two (2) feet to prevent future flooding and erosion. The driveway would then be repaved. No additional pavement would be installed beyond the existing driveway area. Also, approximately 60 cubic yards of clean dirt fill and boulders would be placed in the pond adjacent to the bin blocks, extending approximately 10 feet into the pond, to stabilize the bank alongside the driveway, repair the area damaged from current erosion, and prevent future erosion. To prevent turbidity within the waterbody outside of the work zone, a silt fence would be placed within the work area prior to the placement of bank stabilization materials.

Based on the information submitted to this office, our review of the project indicates that an individual permit is not required. It appears that the activities within the jurisdiction of this office could be accomplished under Department of the Army Nationwide General Permit Numbers 3 and 13. The nationwide permits are prescribed as a Reissuance of Nationwide Permits in the Federal Register dated February 21, 2012 (77 FR 10184). The work may be performed without further authorization from this office provided the activity complies with the permit conditions listed in Section B, Nos. 3 and 13, Section C, any applicable New York District regional conditions, the following special conditions, and any applicable regional conditions added by the State of New York, copies enclosed.

JAN 0 5 2016

Special Conditions

(A) The permittee shall undertake the authorized filling activities in a manner aimed at reducing impacts upon the general environment. In addition, the permittee shall not stockpile fill or other materials in a manner conducive to erosion, or in areas likely to cause high turbidity runoff during storm events. All exposed soils shall be re-vegetated in a timely manner to further reduce potential effects. The permittee shall also fence off all wetlands and other sensitive ecological areas during construction periods to prevent equipment and personnel from entering those areas.

(B) At the completion of the work, the permittee shall remove all temporary construction barriers, including but not limited to any silt fences and turbidity curtains, associated with the bank stabilization and driveway repairs work.

This determination covers only the work described in the submitted material. Any major changes in the project may require additional authorizations from the New York District.

Care should be taken so that construction materials, including debris, do not enter any waterway to become drift or pollution hazards. You are to contact the appropriate state and local government officials to ensure that the subject work is performed in compliance with their requirements.

Please note that this nationwide permit (NWP) verification is based on a preliminary jurisdictional determination (JD). A preliminary JD is not appealable. If you wish, prior to commencement of the authorized work you may request an approved JD, which may be appealed, by contacting the New York District, U.S. Army Corps of Engineers for further instruction. To assist you in this decision and address any questions you may have on the differences between preliminary and approved jurisdictional determinations, please review U.S. Army Corps of Engineers Regulatory Guidance Letter No. 08-02, which can be found at: http://www.usace.army.mil/Portals/2/docs/civilworks/RGLS/rgl08-02.pdf

This verification is valid until March 18, 2017, unless the nationwide permit is modified, reissued, or revoked. This verification will remain valid until March 18, 2017, if the activity complies with the terms of any subsequent modifications of the nationwide permit authorization. If the nationwide permits are suspended, revoked, or modified in such a way that the activity would no longer comply with the terms and conditions of a nationwide permit, and the proposed activity has commenced, or is under contract to commence, the permittee shall have 12 months from the date of such action to complete the activity.

Within 30 days of the completion of the activity authorized by this permit and any mitigation required by this permit, you are to sign and submit the attached compliance certification form to this office.

JAN 0 5 2016

In order for us to better serve you, please complete our Customer Service Survey located at http://www.nan.usace.army.mil/Missions/Regulatory/CustomerSurvey.aspx.

If any questions should arise concerning this matter, please contact Melanie O'Meara, of my staff, at (917) 790-8417.

Sincerely,

Rosita Miranda
Chief, Western Section

Enclosures

cc:
NYSDEC - Region 3
Town of Carmel

DEPARTMENT OF THE ARMY
NEW YORK DISTRICT, CORPS OF ENGINEERS
JACOB K. JAVITS FEDERAL BUILDING
26 FEDERAL PLAZA
NEW YORK, NEW YORK 10278-0090

CENAN-OP-R

NATIONWIDE PERMIT COMPLIANCE CERTIFICATION AND REPORT FORM

Permittee: Butler, Dave / Residential Driveway Repairs

Permit No.: NAN-2015-01644-WOM

Date Permit Issued: JAN 0 5 2016

Location: Town of Carmel, Putnam County, New York

Within 30 days of the completion of the activity authorized by this permit and any mitigation required by the permit, sign this certification and return it to the address at the bottom of this form.

Please note that your permitted activity is subject to a compliance inspection by a U.S. Army Corps of Engineers representative. If you fail to comply with this permit you are subject to permit suspension, modification or revocation.

I hereby certify that the work authorized by the above referenced permit has been completed in accordance with the terms and conditions of said permit, and required mitigation was completed in accordance with the permit conditions.

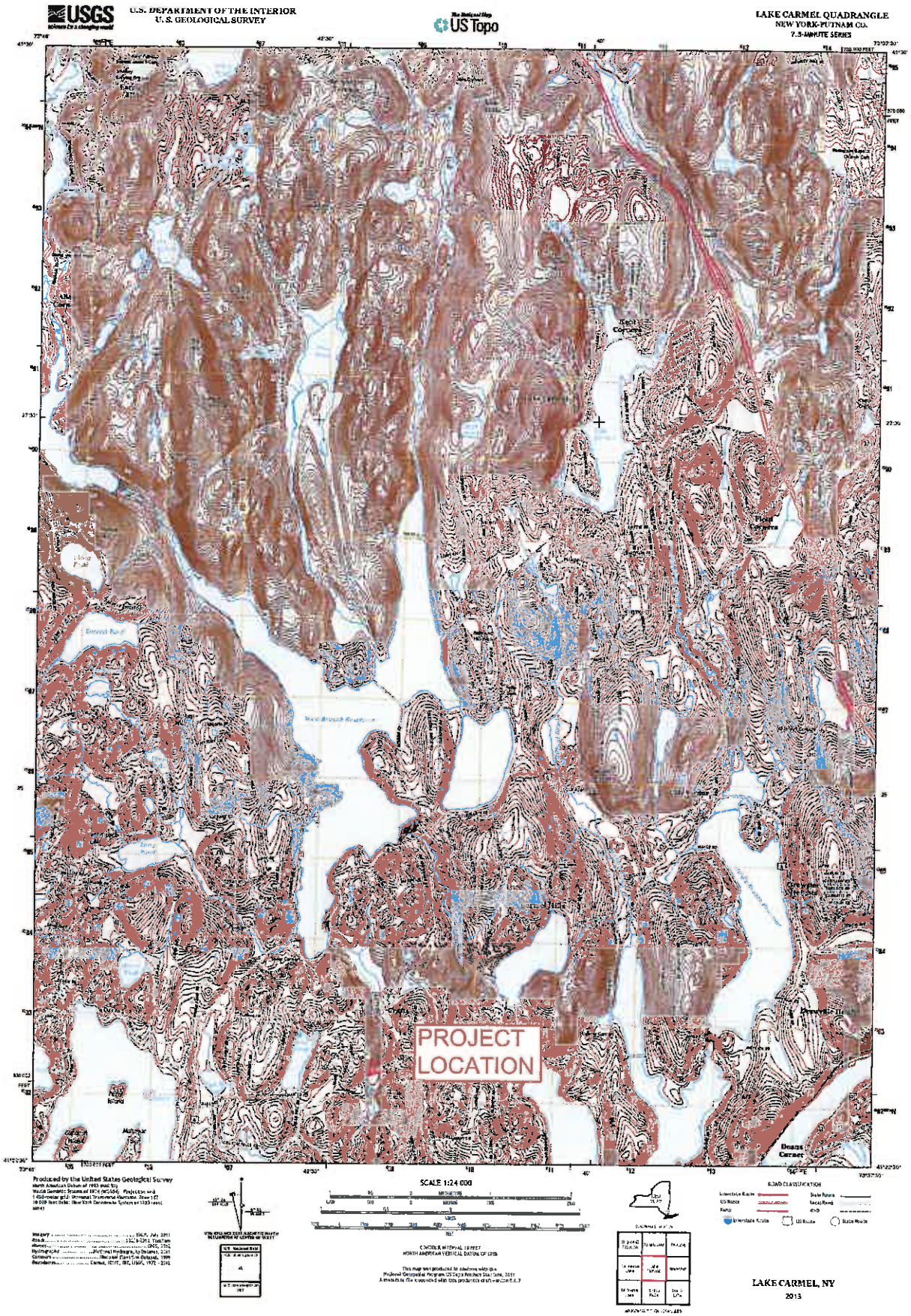
Signature of Permittee _____ Date _____

Fold this form into thirds, with the bottom third facing outward. Tape it together and mail to the address below **or FAX to (212) 264-4260.**

Place Stamp
Here

Department of the Army
New York District Corps of Engineers
Jacob K. Javits Federal Building
26 Federal Plaza, Room 1937
ATTN: CENAN-OP-R
New York, New York 10278-0090

JAN 0 5 2016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U.S. GEOLOGICAL SURVEY
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LAKE CARMEL QUADRANGLE
NEW YORK-PUTNAM CO.
7.5-MINUTE SERIES
PROJECT LOCATION
Produced by the United States Geological Survey
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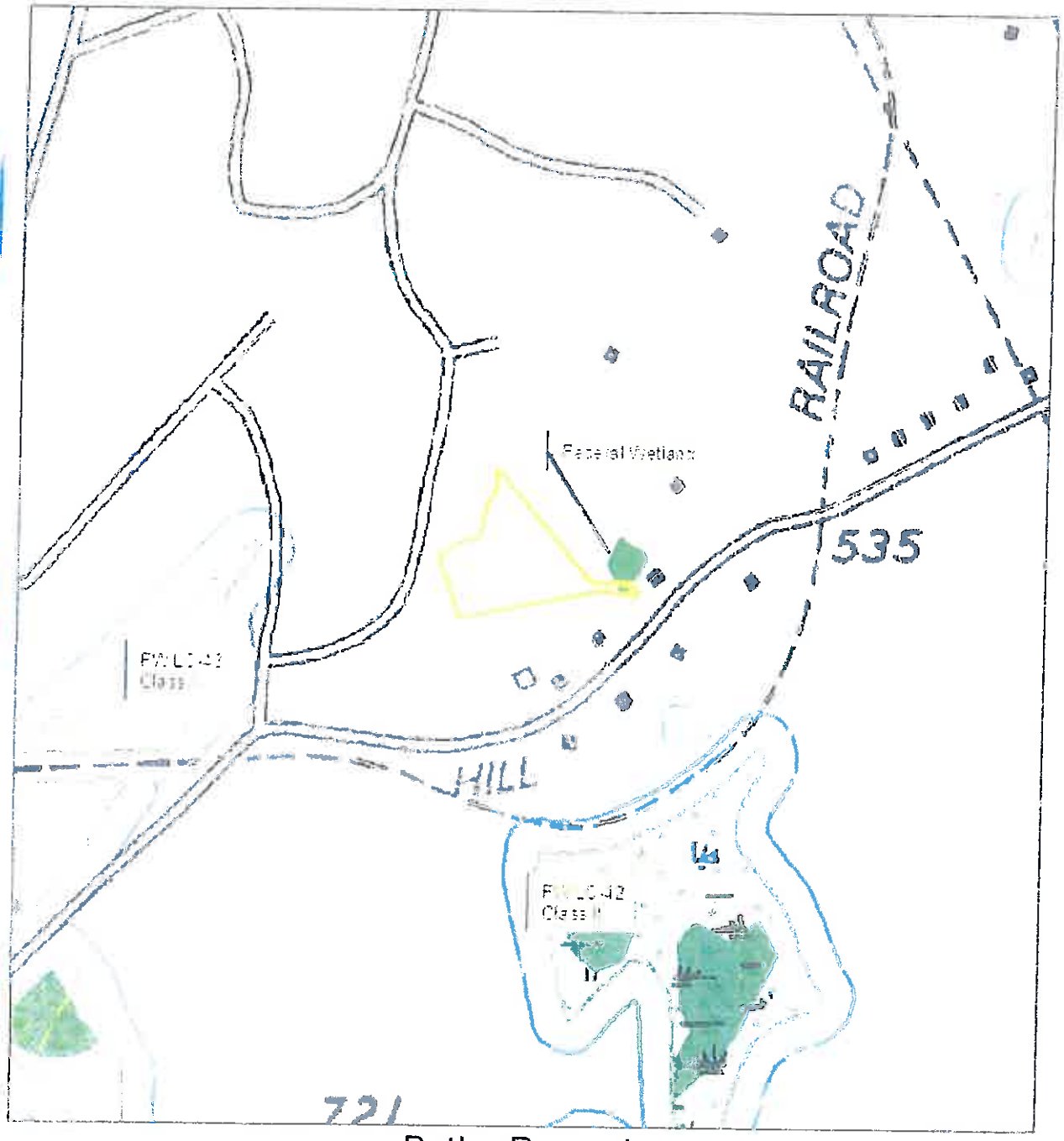
CONTOUR INTERVAL 10 FEET
NORTH AMERICAN VERTICAL DATUM OF 1988
ROAD CLASSIFICATION
LAKE CARMEL, NY
2015

JAN 0 5 2016



Butler Property
137 Weber Hill Road
Carmel, Putman County

Legend

Unprotected

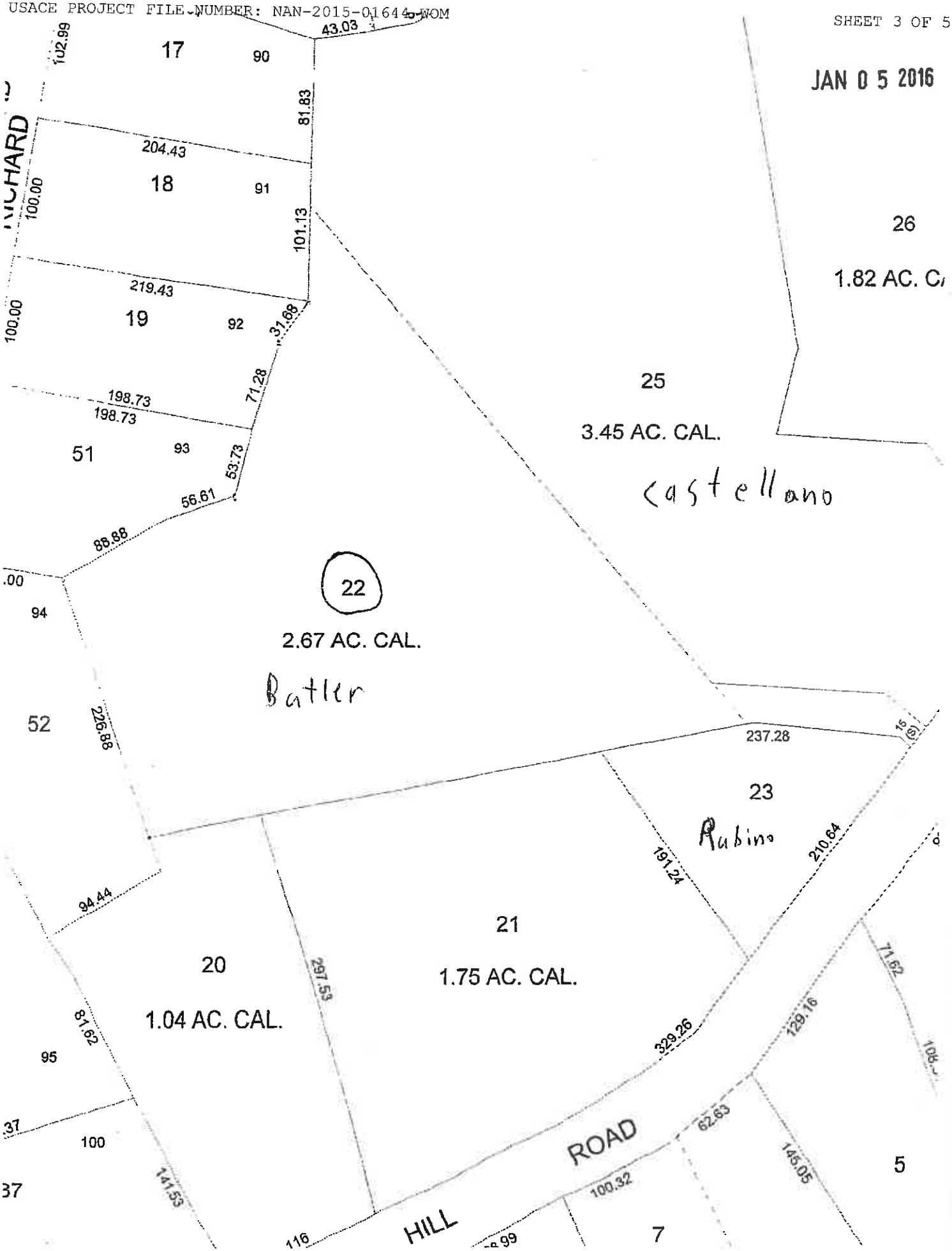
Protected

Freshwater Wetland

0 Feet

DEC Division of
Environmental Permits
10/19/15, JRM

JAN 0 5 2016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NATHANIEL J. HOLT, PE

dan@holtengineering.net

March 23, 2016

Narrative
Kleinschmidt Wetland Permit Application
41 Averill Drive
Mahopac, NY
Map #64.16-1-33

Purpose

This narrative has been prepared as an addendum to an Application for Wetland Permit associated with the above referenced property. In addition, this narrative will discuss the proposed activities associated with the proposed renovation and improvements to the existing residence and grounds along with the mitigative measures that will be implemented to control stormwater runoff.

As is typical with many residences and properties which enjoy the proximity to Lake Mahopac, much of the site (51%) is located within one hundred feet of the lake edge, thereby requiring a permit to undertake virtually any sort of renovation to the home or site improvements.

For the purposes of this application, none of the proposed improvements to the residence require a wetland permit; rather it is the construction of the site improvements such as a new deck and walk, as well as the stormwater mitigation system that are located within the regulated wetland setback.

No activities are proposed within Lake Mahopac.

Scope

Based upon a recent property survey the subject property is 18,100 square feet in area, with roadway frontage on Averill Drive; the rear of the site is on Lake Mahopac. At the present time development of the property consists of an approximately 2,663 square foot single family residence, an access driveway, patios, walks and a dock on the Lake; approximately 27% of the site is considered impervious. The property is serviced by a public water main; with an on-site sewage disposal system (septic) which is located in the entire front yard of the property.

592 Route 22 •Pawling, NY 12564 •PHONE: (914) 760-1800
540 N.W. University Boulevard, Suite 105 •Port Saint Lucie, FL 34986 •PHONE: (772) 204-9550 •FAX: (772) 204-9553

The new owners of the property intend to undertake a number of improvements and upgrades to the house and grounds, in general the foot print of the house will increase to approximately 3,591square feet (footprint), most of which entails the removal of existing impervious areas such as a terrace and patio. Other improvements to the residence include the replacement of an existing porch with a new deck that faces Lake Mahopac. As proposed, the improvements to the property will increase the impervious area to approximately 33% of the site.

To address the increase in runoff associated with the increase in impervious surfaces, the applicant will construct a Rain Garden of sufficient volume and in accordance with the NYSDEC Design Manual.

Proposed Construction Activities

As noted above, the improvements to the property are those associated with the renovation of the home and the construction of several site related upgrades. A description of each of those items are discussed below.

Proposed Renovations

For the purposes of this application, none of the proposed renovations to the residence require the issuance of a wetland permit as they all fall outside the regulated wetland buffer. However, the proposed construction of a new deck which will be connected to the rear of the home and would replace an existing smaller raised deck in the same location is within the setback.

The size of the proposed porch is approximately 380 square feet in area.

Proposed Site Improvements

With the exception of the construction of the proposed rain garden and the associated drainage pipe, there are only two site improvements which involve the construction of an impervious area. Those improvements include:

- the removal of 56 square feet of existing walk and construction of approximately 20 square feet of new walk
- the removal of approximately 100 square feet of steps from the existing terrace (also to be removed) and the construction of a new deck (235 square feet in the wetland buffer)

Stormwater Mitigation

At the present time, there is no stormwater system associated with the property, therefore all runoff flows directly into Lake Mahopac. As required by the Town of Carmel, the applicant is required to mitigate the stormwater runoff associated with the increase in impervious area such that the entire 25 year storm event is stormwater runoff is captured and treated.

As proposed, there will be an increase in impervious area totaling 1,014 sf. Analysis revealed that a rain garden with a total volume of 221cf will mitigate this increase in impervious area. The proposed rain garden consists of a volume equal to 224 cf. The roof gutter/leader system and driveway will be connected to the proposed drainage system; piping will carry these flows to the rain garden. For those instances when the storm event exceeds that of the capacity of the infiltration system each down spout is fitted with a "surcharge protector". The function of the surge protector is to allow water to by-pass the drainage system and spill out onto the ground where it can be infiltrated into the surface or filtered before reaching the lake.

In addition, pre-cast concrete drainage structures are placed in strategic locations. In all instances, the structures are a minimum of two feet square (inside dimensions) with deep sumps. A drain inlet is proposed at a low point in the driveway to collect runoff, while An "Inlet Sump" has been provided immediately up stream of the rain garden and will consist of a removable cover to promote inspection and removal of accumulated materials.

The intent of the sumps is to collect sediments associated with the driveway and other places before entering the rain garden.

Sediment and Erosion Control

Although there will be minimal re-grading of the property in conjunction with the proposed improvements (most of the excavation will be involved with the construction of the rain garden) a sediment and erosion control plan in conformance with "Best Management Practices" has been incorporated into the Site Development Plans. More importantly perhaps is that the extent of the disturbance on the property is confined to specific areas, the construction activities of which are not dependent upon one another.

Conclusion

Under the existing conditions, the 18,000 square foot property is 27% impervious and all stormwater runoff flows into Lake Mahopac uncontrolled and untreated. As planned all existing and proposed improvements will be intercepted and diverted into the rain garden for the most frequently occurring storms (up to and including the 25 year event). In addition, the drain inlets will also intercept silts and other materials associated with runoff thereby preventing the debris from reaching the lake. The end result is that the amount of untreated

runoff currently flowing into Lake Mahopac will be reduced along with those new impervious surfaces associated with the proposed plan.

Respectfully submitted,

Nathaniel J. Holt, P.E.

cc: Ned Kleinschmidt
Vlad Levin

F:\HEC-Projects_Docs\KLEINSCHMIDT\KLEINSCHMIDT.wetlandnarrative.2016.0323.wpd

NATHANIEL J. HOLT, PE

dan@holtengineering.net

March 23, 2016

Town of Carmel
Environmental Conservation Board
60 McAlpin Avenue
Mahopac, New York 10541

Attn: Robert Laga, Chairman

RE: Kleinschmidt Residence
41 Averill Drive

Dear Chairman Laga and Members of the Environmental Conservation Board:

Some members of the Board may recall that the referenced property , then owned by the Roa's, was under consideration by your Board for a wetland permit. Before a decision on the wetland permit was made, the Roa's entered into contract to sell their home and subsequently withdrew their application.

In contrast to the previous plans, the current application represents a marked reduction in scope and overall disturbance. Some of the significant changes consist of:

- A reduction in total site disturbance to less than 5,000 square feet
- The removal of the swimming pool and patio within the wetland buffer
- The total new impervious area within the wetland buffer has been reduced to 99 square feet.

Prior to the withdrawal of the application, Mr. Franzetti provided you with a review memorandum dated June 28, 2015, Mr. Franzetti; and although the current plan is substantially different, we have prepared a response which is attached. It is our intent to address similar comments which would in-turn reduce the review process for Mr. Franzetti.

Finally, at the time of this writing, the office of Michael Piccirillo, RA will soon be submitting an application to the Building Department on behalf of the Kleinschmidt's. In anticipation of that submission, please find the following materials:

- 6 Sets of Site Plans, Sheets 1-6, dated March 23, 2016
- 6 Copies of an updated Application for a Wetland Permit,
- 2 Copies of the "new"Short Environmental Assessment Form w/attachments
- 6 Copies of the Wetland Narrative
- 6 Copies of the Construction Sequence Narrative
- A "response memo" regarding Mr. Franzetti's memorandum of June 28, 2015

592 Route 22 •Pawling, NY 12564 •PHONE: (914) 760-1800
540 N.W. University Boulevard, Suite 105 •Port Saint Lucie, FL 34986 •PHONE: (772) 204-9550 •FAX: (772) 204-9553

In consideration of the above, kindly place this matter on your next available meeting agenda, which as we understand is either April 7th or 21st.

Should you require any additional copies of this material, or clarification on the information provided, please feel free to contact me directly.

Very truly yours

Nathaniel J. Holt, PE
Holt Engineering & Consulting, PA

encl
cc: Michael Piccirillo
Edward Kleinschmidt

NATHANIEL J. HOLT, PE

dan@holtengineering.net

Construction Sequencing Narrative
Kleinschmidt Property
41 Averill Drive
Map # 64.16-1-33

Week 1 through 4

Install erosion control measures

Initiate demolition

Strip and store topsoil for later use.

Utilize existing driveway for construction access.

Establish Staging Area

Construct stabilized construction access driveway.

Install construction fence around septic field

Week 5 through 9

Excavate for and construct footings

Initiate construction of foundation walls

Rough grade rain garden to create the temporary sediment trap

Week 10 and 12

Install footing drains, backfill foundation walls as soon as practical. Construct drainage system across the front of the residence

Week 13 through 19

Commence with construction of renovations to the residence

592 Route 22 •Pawling, NY 12564 •PHONE: (914) 760-1800
540 N.W. University Boulevard, Suite 105 •Port Saint Lucie, FL 34986 •PHONE: (772) 204-9550 •FAX: (772) 204-9553

Commence construction of rear deck

Extend drainage system into rear yard

Restore front yard lawn area, establish seed for stabilization.

Week 20 through 24

Deliver plant and landscaping for rain garden

Continue with building renovations

Complete deck construction

Remove accumulated silts and debris from temporary sediment trap

Week 25 - 30

Convert temporary sediment trap to rain garden

Connect drainage system to rain garden

Construct walks

Restore construction access driveway; topsoil and seed

Install plant material in rain garden

Week 31 - 36

Install roof gutters and leaders, connect to drainage system

Topsoil and seed all disturbed areas

Remove sediment and erosion controls

Pave and repair driveway

Site clean-up

ROBERT LAGA
Chairman

ANTHONY DUSOVIC
Vice Chair

ROSE TROMBETTA
Secretary

DAVID KLOTZLE
Wetland Inspector

TOWN OF CARMEL
ENVIRONMENTAL CONSERVATION BOARD

60 McAlpin Avenue
Mahopac, New York 10541
Tel. (845) 628-1500 - Ext. 190
www.ci.carmel.ny.us

BOARD MEMBERS

Edward Barnett
Marc Pekowsky
Vincent Turano
Nicholas Fannin
John Starace

APPLICATION FOR WETLAND PERMIT OR LETTER OF PERMISSION

Name of Applicant: LESLIE & NED KLEINSCHMIDT

Address of Applicant: 1943 BEEKMAN CT YORKTOWN HEIGHTS 10598 **Email:**

Telephone# **Name and Address of Owner if different from Applicant:**

Property Address: 41 AVERILL DRIVE **Tax Map #** 64.16-1-33

Agency Submitting Application if Applicable:

Location of Wetland: LAKE MAHOPAC

Size of Work Section & Specific Location:

Will Project Utilize State Owned Lands? If Yes, Specify: NO

Type and extent of work (feet of new channel, yards of material to be removed, draining, dredging, filling, etc). A brief description of the regulated activity (attach supporting details).

SEE ATTACHED NARRATIVE

Proposed Start Date: 05/01 **Anticipated Completion Date:** 12/01 **Fee Paid $** 225.00

****

CERTIFICATION

I hereby affirm under penalty of perjury that information provided on this form is true to the best of my knowledge and belief, false statements made herein are punishable as a Class A misdemeanor pursuant to Section 210.45 of the Penal Law. As a condition to the issuance of a permit, the applicant accepts full legal responsibility for all damage, direct or indirect, or whatever nature, and by whomever suffered, arising out of the project described here-in and agrees to indemnify and save harmless the Town of Carmel from suits, actions, damages and costs of every name and description resulting from the said project.

L. A. Kleinschmidt
SIGNATURE

4/4/2016
DATE

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:

Project Location (describe, and attach a location map):
41 AVERILL DRIVE
MAHOPAC NY

Brief Description of Proposed Action:
RENOVATIONS / REDEVELOPMENT OF AN EXISTING 2,360 SF RESIDENCE TO 3591 SF. PORTIONS OF THE PROPOSED IMPROVEMENTS TO OCCUR WITHIN 100 FEET OF LAKE MAHOPAC

Name of Applicant or Sponsor:	Telephone: 914 760 1800
NATHANIEL J. HOLT, PE	E-Mail: DANHOLTENGINEERING.NET

Address:
592 ROUTE 22 SUITE 6C

City/PO:	State:	Zip Code:
PAWLING	NY	12564

	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 governmental Agency? If Yes, list agency(s) name and permit or approval:	☑	☐

3.a. Total acreage of the site of the proposed action? 0.416 acres
b. Total acreage to be physically disturbed? 0.10 acres
c. Total acreage (project site and any contiguous properties) owned or controlled by the applicant or project sponsor? 0.416 acres

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

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

	NO	YES
6. Is the proposed action consistent with the predominant character of the existing built or natural landscape?	☐	☑
7. Is the site of the proposed action located in, or does it adjoin, a state listed Critical Environmental Area? If Yes, identify: _____	☑	☐
8. a. Will the proposed action result in a substantial increase in traffic above present levels?	☑	☐
b. Are public transportation service(s) available at or near the site of the proposed action?	☐	☑
c. Are any pedestrian accommodations or bicycle routes available on or near site of the proposed action?	☐	☑
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: _____	☐	☑
10. Will the proposed action connect to an existing public/private water supply? If No, describe method for providing potable water: _____	☐	☑
11. Will the proposed action connect to existing wastewater utilities? If No, describe method for providing wastewater treatment: ON-SITE SEPTIC	☑	☐
12. a. Does the site contain a structure that is listed on either the State or National Register of Historic Places?	☑	☐
b. Is the proposed action located in an archeological sensitive area?	☐	☑
13. a. Does any portion of the site of the proposed action, or lands adjoining the proposed action, contain wetlands or other waterbodies regulated by a federal, state or local agency?	☐	☑
b. Would the proposed action physically alter, or encroach into, any existing wetland or waterbody? If Yes, identify the wetland or waterbody and extent of alterations in square feet or acres: _____	☐	☐
14. Identify the typical habitat types that occur on, or are likely to be found on the project site. Check all that apply: ☑ Shoreline ☐ Forest ☐ Agricultural/grasslands ☐ Early mid-successional ☐ Wetland ☐ Urban ☑ Suburban		
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?	☐	☑
16. Is the project site located in the 100 year flood plain?	☐	☑
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? ☑ NO ☐ YES	☐	☑
b. Will storm water discharges be directed to established conveyance systems (runoff and storm drains)? If Yes, briefly describe: ☑ NO ☐ YES _____		

	NO	YES
18. Does the proposed action include construction or other activities that result in the impoundment of water or other liquids (e.g. retention pond, waste lagoon, dam)? If Yes, explain purpose and size:	☑	☐
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 AFFIRM THAT THE INFORMATION PROVIDED ABOVE IS TRUE AND ACCURATE TO THE BEST OF MY KNOWLEDGE

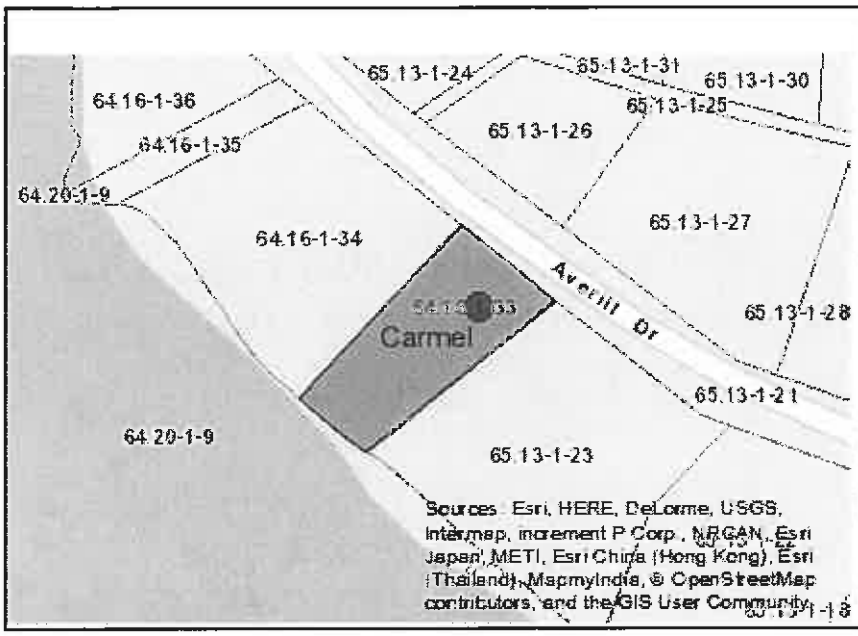
Applicant/sponsor name: NATHANIEL J HOLT Date: 3/23/16

Signature:

PRINT FORM

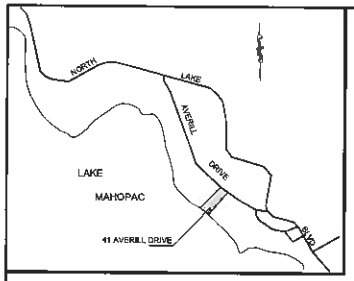
EAF Mapper Summary Report

Wednesday, March 23, 2016 12:29 PM



Disclaimer: The EAF Mapper is a screening tool intended to assist project sponsors and reviewing agencies in preparing an environmental assessment form (EAF). Not all questions asked in the EAF are answered by the EAF Mapper. Additional information on any EAF question can be obtained by consulting the EAF Workbooks. Although the EAF Mapper provides the most up-to-date digital data available to DEC, you may also need to contact local or other data sources in order to obtain data not provided by the Mapper. Digital data is not a substitute for agency determinations.

Part 1 / Question 7 [Critical Environmental Area]	No
Part 1 / Question 12a [National Register of Historic Places]	No
Part 1 / Question 12b [Archeological Sites]	Yes
Part 1 / Question 13a [Wetlands or Other Regulated Waterbodies]	Yes - Digital mapping information on local and federal wetlands and waterbodies is known to be incomplete. Refer to EAF Workbook.
Part 1 / Question 15 [Threatened or Endangered Animal]	Yes
Part 1 / Question 16 [100 Year Flood Plain]	Yes
Part 1 / Question 20 [Remediation Site]	No

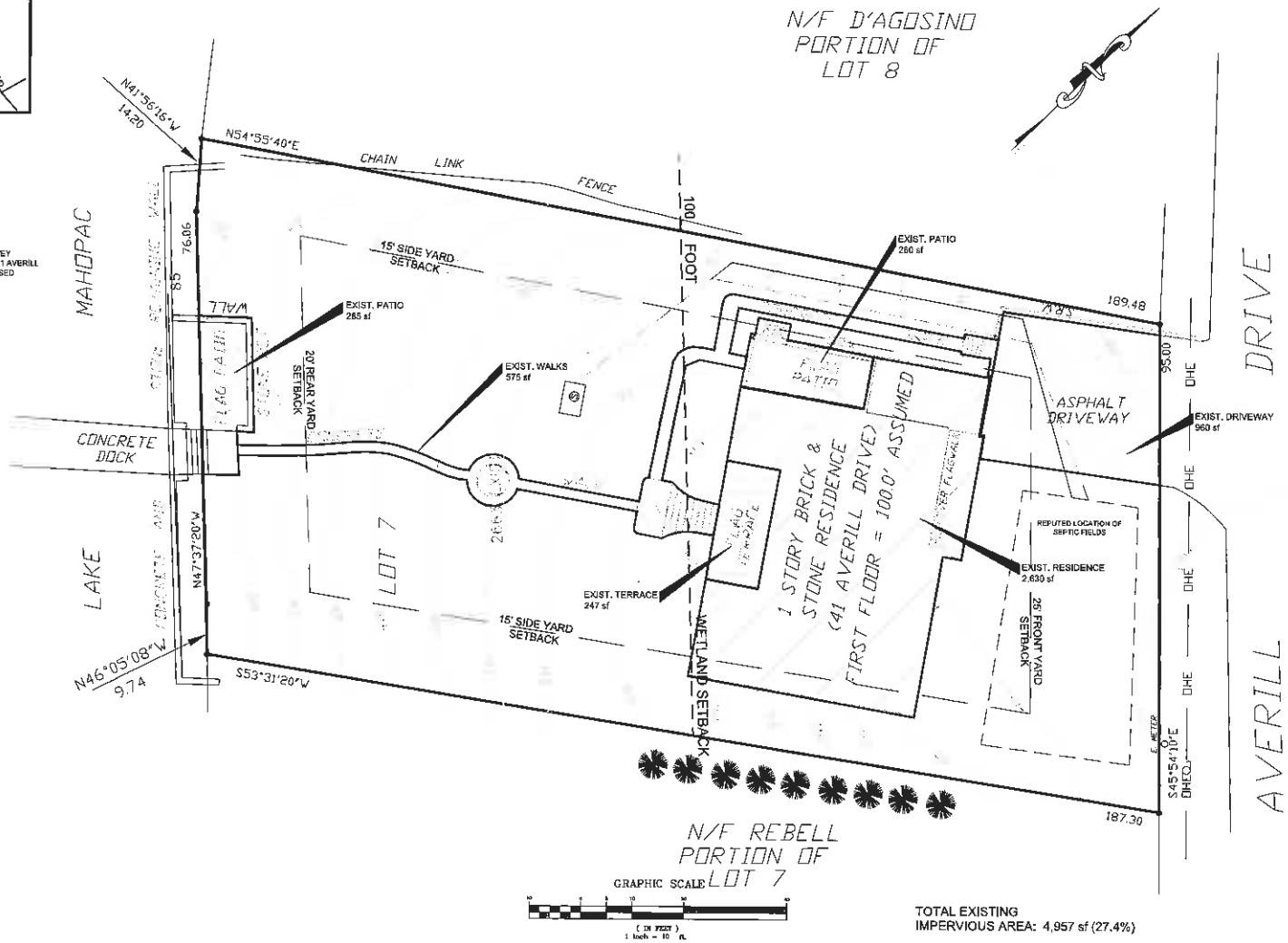


VICINITY PLAN

nts

GENERAL NOTES

1. SITE PLAN FROM A MAP PREPARED BY MICHAEL PICCIRILLO, RA
2. PROPERTY LINE AND TOPOGRAPHIC INFORMATION FROM A SURVEY ENTITLED "TOPOGRAPHIC SURVEY OF PROPERTY PREPARED FOR 41 AVERILL DRIVE" AND PREPARED BY JOHN J MULDOON, LS, DATED LAST REVISED MAY 5, 2015.



GRAPHIC SCALE

(IN FEET)
1 inch = 10 ft.

TOTAL EXISTING
IMPERVIOUS AREA: 4,957 sf (27.4%)

LEGEND

- EXISTING CONTOUR
- EXISTING "SPOT" GRADE
- OVERHEAD UTILITY LINES
- IR — IRON ROD
- IRC — IRON ROD & CAP
- EX. MANHOLE
- PROPERTY LINE
- PROP. FINISHED GRADE
- PROP. SPOT GRADE
- PROP. INLET PROTECTION
- PROP. SILT FENCE
- PROP. DRAIN INLET
- EXIST. IMPERVIOUS SURFACE

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SHEET: 1 of 6

Original Date: MARCH 23, 2016
PROJECT: PICKALE

Nathaniel J. Holt, P.E.
Date:

NATHANIEL J. HOLT, P.E.
592 ROUTE 22
PAWLING, NEW YORK 12564
(914) 760-1800

EXISTING CONDITIONS and COVERAGE PLAN

KLEINSCHMIDT RESIDENCE RENOVATIONS

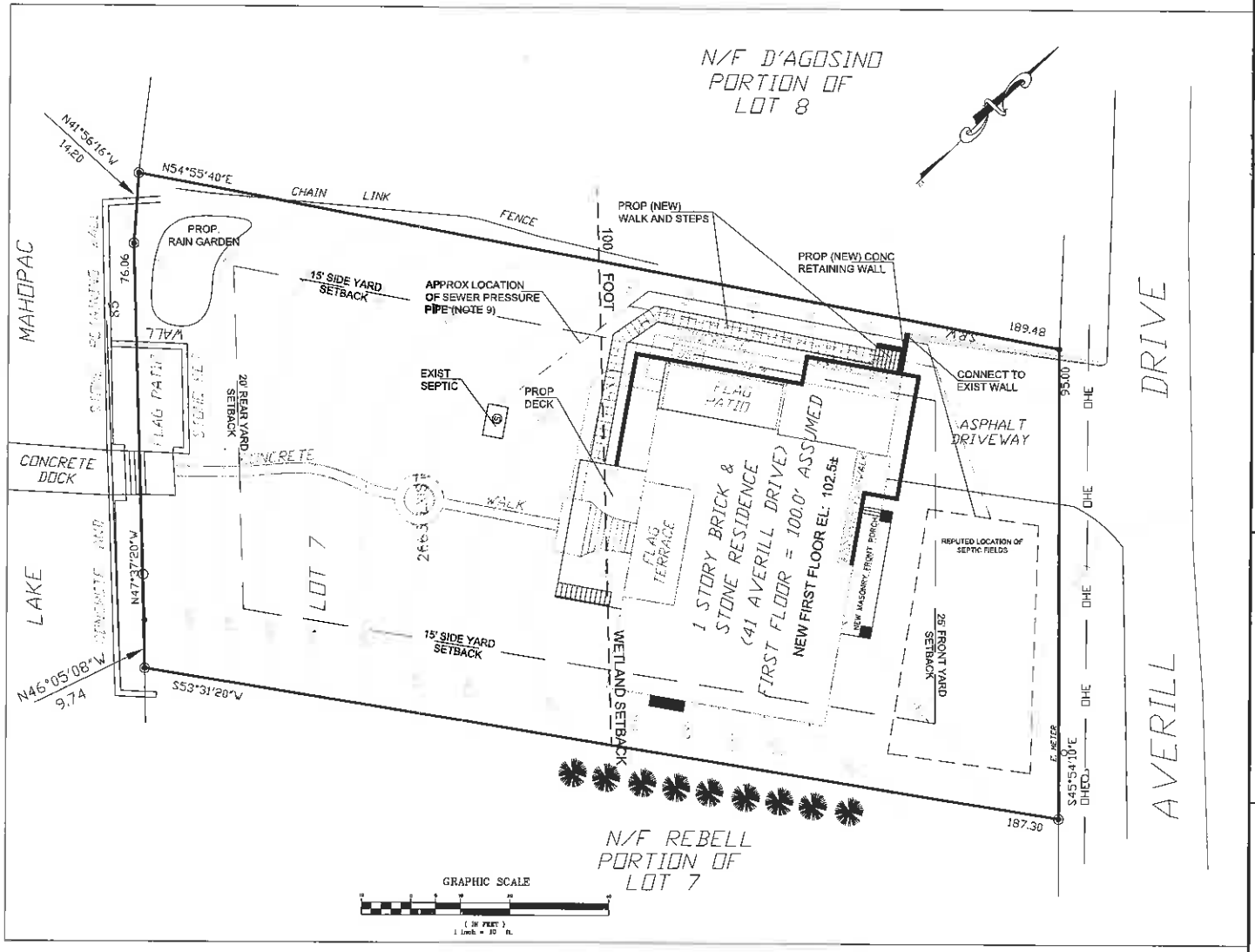
41 AVERILL ROAD MAHOPAC, N.Y. 10541

GENERAL NOTES

1. SITE PLAN FROM A MAP PREPARED BY MICHAEL PICCIRILLO, RA
2. PROPERTY LINE AND TOPOGRAPHIC INFORMATION FROM A SURVEY ENTITLED "TOPOGRAPHIC SURVEY OF PROPERTY PREPARED FOR 41 AVERILL DRIVE" AND PREPARED BY JOHN J MULDOON, LS, DATED LAST REVISED MAY 5, 2016.

NOTES

1. EROSION CONTROLS MUST BE PROPERLY INSTALLED, MAINTAINED AND INSPECTED AROUND THE WORK SITE.
2. CONSTRUCTION ENTRANCES MUST BE PROPERLY MAINTAINED SO THAT NO DEBRIS OR DIRT IS DEPOSITED ON THE STREET.
3. EXPOSED AREAS MUST BE STABILIZED AS SOON AS LAND ALTERATIONS ARE COMPLETED.
4. ANY UNDERGROUND PIPING OR STRUCTURES MUST BE INSPECTED PRIOR TO BACKFILLING: A MINIMUM OF 48 HOURS ADVANCE NOTICE SHALL BE GIVEN TO THE TOWN ENGINEER TO SCHEDULE ANY INSPECTION.
5. PRIOR TO THE START OF ANY EXCAVATION OPERATIONS THE CONTRACTOR SHALL CALL "DIG SAFELY NEW YORK" AT 1-800-962-7962 OR 811.
6. NO MATERIAL, FILL OR CONSTRUCTION EQUIPMENT IS TO BE STORED IN THE AREA RESERVED FOR ANY STORMWATER MITIGATION SYSTEM OR EXISTING SEWAGE DISPOSAL AREA.
7. PRIOR TO THE START OF ANY CONSTRUCTION ACTIVITIES, THE CONTRACTOR SHALL LOCATE THE LIMITS OF THE EXISTING SEWAGE DISPOSAL AREA AND INSTALL CONSTRUCTION FENCE AROUND THE ENTIRE AREA.
8. THE CONTRACTOR IS ADVISED THAT BASED UPON AVAILABLE INFORMATION THE EXISTING SEWAGE DISPOSAL AREA IS LOCATED IN THE FRONT YARD OF THE PROPERTY AND THEREFORE IS NOT AVAILABLE FOR THE STORAGE OF ANY MATERIALS OR EQUIPMENT. THE CONTRACTOR IS ALSO PROHIBITED FROM DRIVING ANY CONSTRUCTION VEHICLES - REGARDLESS OF DISPLACEMENT OVER THE ABSORPTION FIELDS.
9. CONTRACTOR TO LOCATE AND PROTECT EXISTING SEWAGE EJECTOR PIPE PRIOR TO THE START OF ANY DEMOLITION, EXCAVATION OR CONSTRUCTION.
10. WALLS AND WALKWAYS NOT DESIGNATED FOR DEMOLITION ARE TO BE REPAIRED AS DIRECTED BY THE OWNER.
11. CONTRACTOR TO HAVE A UNIVERSAL SPILL KIT ON SITE AT ALL TIMES. KIT TO BE AS MANUFACTURED BY PIG CORPORATION OR APPROVED EQUAL. THE SPILL KIT SHALL BE KEPT IN THE CONTRACTOR'S TRAILER (IF SO PROVIDED) OR IN THE BASEMENT OF THE RESIDENCE AT ALL TIMES.
12. THERE SHALL BE NO ON-SITE STORAGE OF FUEL FOR CONSTRUCTION EQUIPMENT.
13. CONTAINMENT BOOM TO BE "SIMPLEX BOOM" AS MANUFACTURED BY PIG CORP OR APPROVED EQUAL. BOOM TO BE SECURED TO THE EMBANKMENT AS INDICATED ON THE PLANS. PRIOR TO THE INSTALLATION OF THE BOOM, THE CONTRACTOR SHALL PROVIDE SHOP CUTS, MANUFACTURERS' BROCHURES AND INFORMATION RELATIVE TO THE INSTALLATION AND MAINTENANCE OF THE BOOM TO THE SATISFACTION OF THE TOWN ENGINEER AND THE ENGINEER OF RECORD.



LEGEND

	EXISTING CONTOUR
	EXISTING "SPOT" GRADE
OHE	OVERHEAD UTILITY LINES
IR	IRON ROD
IRC	IRON ROD & CAP
MH	EX. MANHOLE
S47°37'40"E 309.60'	PROPERTY LINE
FG	PROP. FINISHED GRADE
+ tc 22.50 bc 23.00	PROP. SPOT GRADE
sf	PROP. INLET PROTECTION
SF	PROP. SILT FENCE
	PROP. DWELLING

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7209(2) OF THE NEW YORK STATE EDUCATION LAW

SHEET: 2 of 6

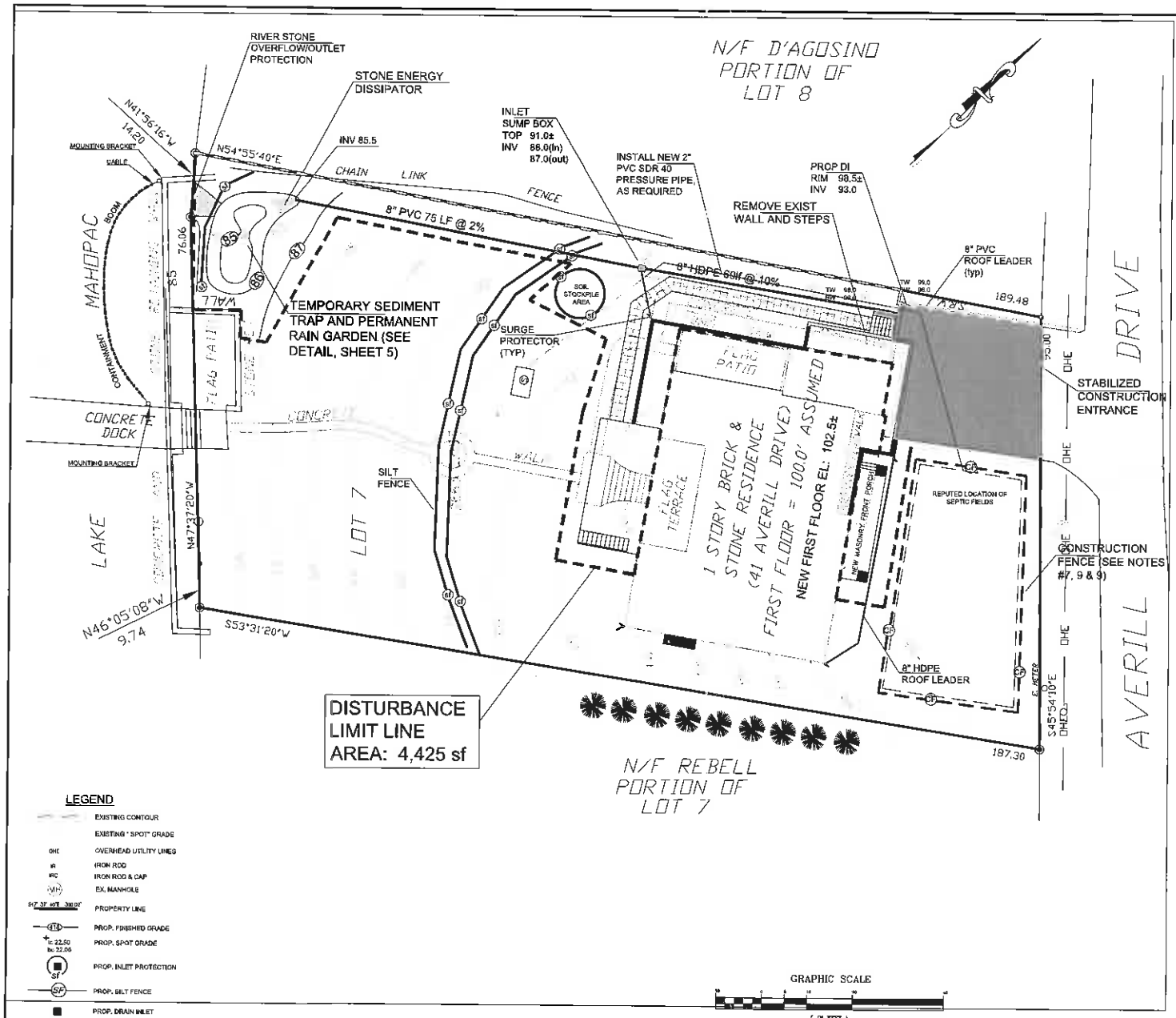
5	
4	
3	
2	
1	
Added Date: MARCH 23, 2016	
PROJECT: PICKLE	

Nathaniel J. Holt, P.E.
Date:

NATHANIEL J. HOLT, P.E.
592 ROUTE 22
PAWLING, NEW YORK 12564
(914) 760-1600

SITE PLAN

KLEINSCHMIDT RESIDENCE RENOVATIONS
41 AVERILL ROAD MAHOPAC, N.Y 10561



LEGEND

- EXISTING CONTOUR
- EXISTING "SPOT" GRADE
- OHE — OVERHEAD UTILITY LINES
- IR — IRON ROD
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- EX. MANHOLE
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- ± 22.50 / ± 22.00 — PROP. SPOT GRADE
- SF — PROP. INLET PROTECTION
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- PROP. DRAIN INLET

GRAPHIC SCALE

(IN FEET)
1 inch = 10 ft.

GENERAL NOTES

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NATHANIEL J. HOLT, P.E.
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STORMWATER MITIGATION PLAN

KLEINSCHMIDT RESIDENCE RENOVATIONS

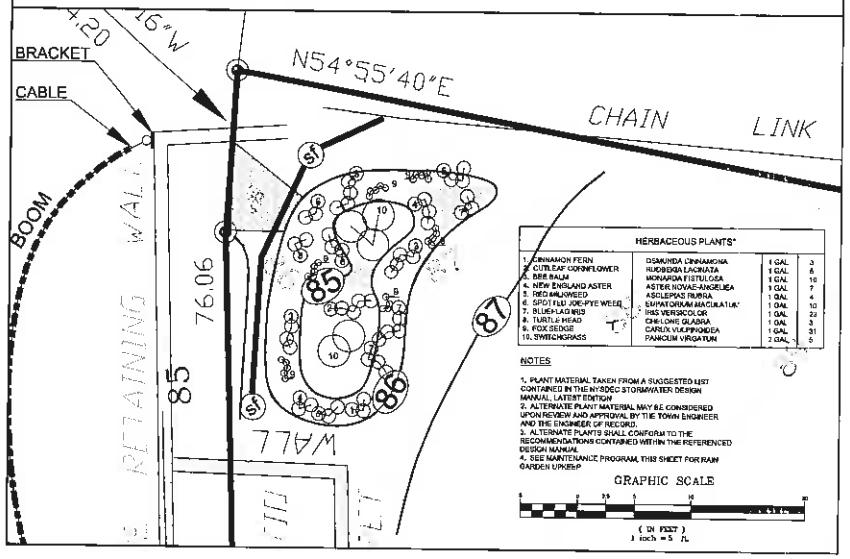
41 AVERILL ROAD MAHOPAC, N.Y 10561

SHEET: 3 of 6

Original Date: MARCH 23, 2015
PROJECT: PIC-41E

Date:

PLANTING PLAN



HERBACEOUS PLANTS*			
1. CINNAMON FERN	OSMUNDA CINNAMOMA	1 GAL	3
2. CUTLEAF CONNFLOWER	RUDBECKIA LACINIATA	1 GAL	6
3. BEE BALM	MONARDA FISTULOSA	1 GAL	16
4. NEW ENGLAND ASTER	ASTER NOVAE-ANGELIAE	1 GAL	7
5. RED MILKWEED	ASCLEPIAS RUBRA	1 GAL	4
6. SPOTTED JOE-PYE WEED	EUPATORIUM MACULATUM	1 GAL	10
7. BLUEFLAG IRIS	IRIS VERSICOLOR	1 GAL	22
8. TURTLE HEAD	CHELONE GLABRA	1 GAL	3
9. FOX SEDGE	CARUX VULPINOIDEA	1 GAL	31
10. SWITCHGRASS	PANICUM VIRGATUM	2 GAL	5

NOTES

1. PLANT MATERIAL TAKEN FROM A SUGGESTED LIST CONTAINED IN THE NYSDEC STORMWATER DESIGN MANUAL, LATEST EDITION
2. ALTERNATE PLANT MATERIAL MAY BE CONSIDERED UPON REVIEW AND APPROVAL BY THE TOWN ENGINEER AND THE ENGINEER OF RECORD.
3. ALTERNATE PLANTS SHALL CONFORM TO THE RECOMMENDATIONS CONTAINED WITHIN THE REFERENCED DESIGN MANUAL.
4. SEE MAINTENANCE PROGRAM, THIS SHEET FOR RAIN GARDEN UPKEEP

GRAPHIC SCALE

(IN FEET)
1 inch = 5 ft.

STORMWATER ANALYSIS

REQUIRED: MITIGATE THE 25 YR STORM EVENT OVER INCREASE IN IMPERVIOUS AREA

EXISTING CONDITIONS

AREA: 18,100 SF = 0.416 ac
SOIL TYPE: C

IMPERVIOUS AREAS*: RCN: 98 — 4,957 sf = 0.114 ac; 27%
OPEN SPACE LAWN ("C") RCN: 74 — 13,143 sf = 0.302 ac; 73%

TOTAL — 18,100 sf = 0.416 ac; 100%

0.114 x 98 = 11.17
0.302 x 74 = 22.35
0.416 33.52 = 80.58

RUNOFF DEPTH (RCN: 80.58) = 3.57"

RUNOFF DEPTHS INTERPOLATED FROM TABLE 2.1 OF THE SCS HANDBOOK

FUTURE CONDITIONS

IMPERVIOUS AREAS*: RCN: 98 — 5,971 sf = 0.137 ac; 33.0%
OPEN SPACE LAWN ("C") RCN 74 — 12,129 sf = 0.279 ac; 67.0%

TOTAL — 18,100 sf = 0.416 ac; 100%

0.137 x 98 = 13.43
0.279 x 74 = 20.65
0.416 34.08 = 81.92

RUNOFF DEPTH (RCN: 82.14) = 3.71"

INCREASE IN RUNOFF VOLUME

$\frac{(3.71" - 3.57")}{12"/ft} \times 18{,}109.87\ sf = 211.3\ cf$

*NOTE: IMPERVIOUS AREAS FOR THE EXISTING AND PROPOSED CONDITIONS ARE GRAPHICALLY DEPICTED ON SHEETS AND RESPECTIVELY

RAINGARDEN CALCULATIONS

PROPOSED MITIGATION: RAIN GARDEN, SIZED TO ACCOMMODATE THE VOLUME OF STORMWATER RUNOFF ASSOCIATED WITH THE INCREASE IN IMPERVIOUS AREA ASSOCIATED WITH THE NEW RENOVATIONS

VOLUME FROM ABOVE = 211 CF

DRAINAGE LAYER AND SOIL MEDIA STORAGE VOLUME

Vsm = Arg x Dsm x Psm
Vdl = Arg x Ddl x Pdl

WHERE:

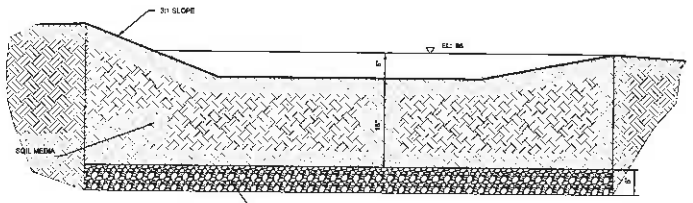
Arg = 280 sf
Dsm = 1ft
Ddl = 0.5ft
Psm = 0.20
Pdl = 0.40

Vsm = 280 sf x 1 ft x 0.20 = 56 cf
Vdl = 280 sf x 0.5 ft x 0.40 = 56 cf
Dp = 0.50 ft

Vt = 56 cf + 56 cf + (0.40ft x 280 sf) = 224 cf >211 cf ok

RAIN GARDEN

NTS

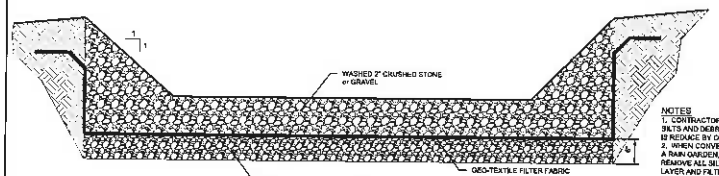


SOIL MEDIA

50-70% SAND
50-30% TOPSOIL (CONTAINING 5% COMPOST OR PEAT AND FREE OF STONES, ROOTS, WOODY DEBRIS AND ANIMAL WASTE
MATERIAL TO BE IN FULL COMPLIANCE WITH THE NYSDEC STORMWATER DESIGN MANUAL, LATEST EDITION

RAIN GARDEN AS A TEMPORARY SEDIMENT TRAP

NTS



NOTES

1. CONTRACTOR TO REMOVE ACCUMULATED SILTS AND DEBRIS WHEN EXCAVATED VOLUME IS REDUCE BY ONE HALF.
2. WHEN CONVERTING THE SEDIMENT TRAP TO A RAIN GARDEN, THE CONTRACTOR SHALL REMOVE ALL SILTS AND DEBRIS, THE 2" STONE LAYER AND FILTER FABRIC.
3. ALL MATERIAL REMOVED FROM THE TRAP SHALL BE TRUCKED OFF SITE AND PROPERLY DISPOSED OF.

RAIN GARDEN MAINTENANCE PROGRAM

GENERAL

THE MAINTENANCE PROGRAM PROVIDED BELOW IS TAKEN IN PART FROM THE NEW YORK STATE STORM WATER MANAGEMENT DESIGN MANUAL. THE OWNER MAY WISH TO CONSULT THIS DOCUMENT WHEN QUESTIONS ARISE ABOUT OTHER ASPECTS OF STORMWATER AND ITS AFFECT ON THE ENVIRONMENT.

MAINTENANCE

RAIN GARDENS ARE INTENDED TO BE RELATIVELY LOW MAINTENANCE. HOWEVER, THESE PRACTICES MAY BE SUBJECT TO SEDIMENTATION AND INVASIVE PLANT SPECIES WHICH COULD CREATE MAINTENANCE PROBLEMS. IF THE RECHARGE ABILITY IS LOST BY AN ACCUMULATION OF FINE SEDIMENTS, MOSQUITO BREEDING MAY OCCUR.

RAIN GARDENS SHOULD BE TREATED AS A COMPONENT OF THE LANDSCAPING, WITH ROUTINE MAINTENANCE. PLACING THE RAIN GARDEN MAINTENANCE ON THE SAME SCHEDULE AS THE REGULAR LANDSCAPE PRACTICE IS RECOMMENDED.

ROUTINE MAINTENANCE SHOULD INCLUDE THE OCCASIONAL REPLACEMENT OF PLANT MATERIAL, MULCHING, AND THINNING OF VEGETATION TO MAINTAIN THE DESIRED APPEARANCE. WEEDING AND WATERING ARE ESSENTIAL DURING THE FIRST YEAR, AND CAN BE MINIMIZED WITH THE USE OF A WEED FREE MULCH LAYER.

THE PLANT MATERIALS SPECIFIED WITHIN THESE PLANS ARE THOSE WHICH HAVE BEEN FOUND TO BE ABLE TO THRIVE WITHIN A RAIN GARDEN. HOWEVER, IF OVER TIME, ALTERNATE PLANT MATERIALS ARE CONSIDERED, THEY SHOULD BE LOWER GROWING SPECIES THAT STAY UPRIGHT.

NORMAL PRUNING WOULD BE SUCH THAT THE PLANTS ARE KEPT FROM BECOMING "LEGGY" AND FLOPPY (TOP HEAVY).

CUT OFF FLOWER HEADS AFTER THE PLANT BEGINS BLOOMING.

KEEP THE RAIN GARDEN WEEDED ESPECIALLY DURING THE FIRST COUPLE OF YEARS WHILE THE NATIVE PLANTS ARE ESTABLISHING THEIR ROOT SYSTEMS.

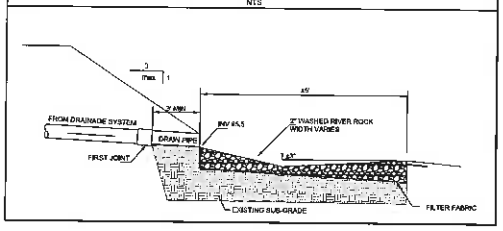
ONCE THE RAIN GARDEN HAS BECOME ESTABLISHED, THE AREA SHOULD BE FREE OF BARE SPOTS EXCEPT WHERE STEPPING STONES OR VELOCITY REDUCTION MEASURES ARE IMPLEMENTED.

INSPECT THE RAIN GARDEN FOR SEDIMENT ACCUMULATIONS OR HEAVY ORGANIC MATTER ESPECIALLY WHERE RUNOFF ENTERS THE RAIN GARDEN. REMOVE SUCH ACCUMULATIONS ON A REGULAR BASIS.

WHEN IT IS FOUND THAT WATER ACCUMULATES ON THE SURFACE OF THE RAIN GARDEN FOR A PERIOD OF MORE THAN 48 HOURS, THE UPPER LAYER OF SOIL SHOULD BE REMOVED AND REPLACED.

DRAIN LINE DISCHARGE AT RAIN GARDEN

NTS



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SHEET: 4 of 6

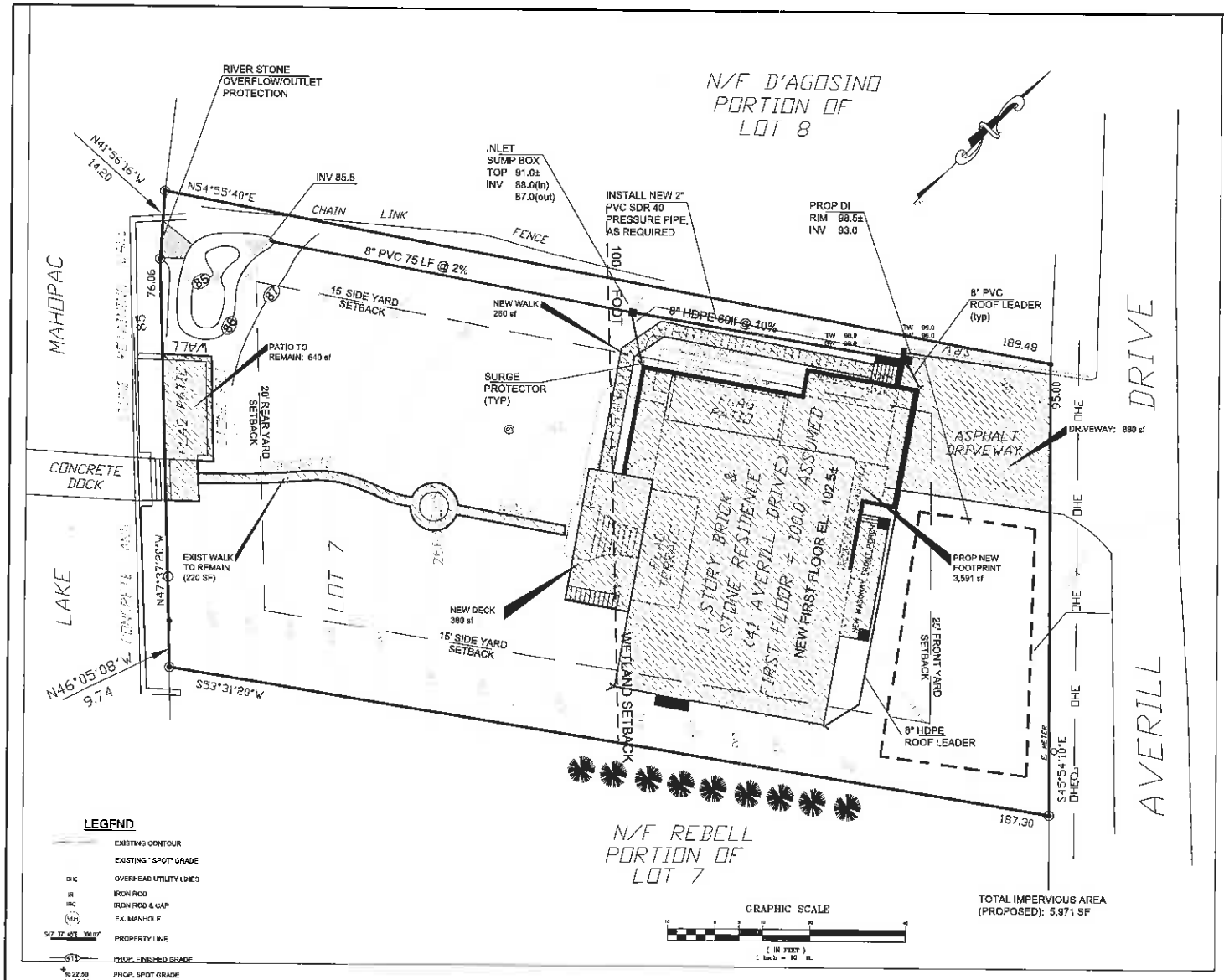
Original Date: March 20, 2015
PROJECT: PICHALE

Nathaniel J. Holt, P.E.
Date:

NATHANIEL J. HOLT, P.E.
592 ROUTE 22
PAWLING, NEW YORK 12564
(914) 760-1900

RAIN GARDEN

KLEINSCHMIDT RESIDENCE RENOVATIONS
41 AVERILL ROAD MAHOPAC, N.Y 10561



GENERAL NOTES

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SHEET: 5 of 6

D	
C	
B	
A	
Original Date: MARCH 22, 2016	
PROJECT: PIC-ALE	

Nathaniel J. Holt, P.E.
Date:

NATHANIEL J. HOLT, P.E.
562 ROUTE 22
PAWLING, NEW YORK 12564
(914) 760-1800

HYDROLOGY (FUTURE) PLAN

KLEINSCHMIDT RESIDENCE RENOVATIONS

41 AVERILL ROAD MAHOPAC, N.Y. 10561

SEQUENCE OF CONSTRUCTION

GENERAL

IT IS THE INTENT OF THIS NARRATIVE TO OUTLINE THE GENERAL STEPS ASSOCIATED WITH THE DEVELOPMENT OF THIS PROPERTY. IT MUST BE RECOGNIZED THAT EACH JOB HAS CONSIDERING WHICH MAY WARRANT SOME DEVIATION FROM THE STEPS OUTLINED HEREIN. TO THE EXTENT PRACTICAL, THE CONSTRUCTION DRAWINGS PROVIDE THE CONTRACTOR WITH AN UNDERSTANDING OF THE WORK NECESSARY AND THE LOGICAL STEPS WHICH ARE TO BE FOLLOWED THROUGH THE PROCESS. IN THOSE INSTANCES WHERE THE ACTUAL FIELD CONDITIONS DIFFER FROM WHAT IS EXPECTED ON THE DRAWINGS THE CONTRACTOR SHALL BE REQUIRED TO CONTACT THE OWNER OR THE OWNER'S REPRESENTATIVE BEFORE PROCEEDING FURTHER.

THE PRIMARY ASPECT OF THIS PROJECT IS THE CONSTRUCTION OF MODIFICATIONS TO THE RESIDENCE, INCLUDING A MINOR WIDENING OF THE GARAGE AND ACCESS DRIVEWAY. ANCILLARY TO THE WORK IS THE INSTALLATION OF DRAINAGE IMPROVEMENTS AND THE REPLACEMENT OF EXISTING WALKS WITH NEW. AS MUCH OF THE SITE LIES WITHIN ONE HUNDRED (100) FT OF THE EDGE OF LAKE MAHOPAC, THE IMPLEMENTATION OF THE SEDIMENT AND EROSION CONTROLS MUST RECEIVE CONSTANT ATTENTION AND MAINTENANCE UNTIL EACH TIME AS THE DISTURBED AREAS ARE STABILIZED.

THE INCLUDED SITE PLANS DEPICT THE DISTURBANCE LIMIT LINES ASSOCIATED WITH THE WORK AND REPRESENT THOSE AREAS WHERE THE CONTRACTOR SHALL LEAVE INTACT THROUGHOUT THE WORK. TO THAT END, THE CONTRACTOR MAY ESTABLISH HIS STAGING AREA AND (IF NEEDED) A CONSTRUCTION TRAILER WITHIN THE LIMIT OF DISTURBANCE.

CLEARING, GRUBBING AND DEMOLITION

PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL INSTALL ALL EROSION CONTROL MEASURES IN LOCATIONS INDICATED ON THE PLANS. THE CONTROLS SHALL BE INSTALLED IN ACCORDANCE WITH THE STANDARD DETAILS, OR AS RECOMMENDED BY THE MANUFACTURER. ONCE INSTALLED, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD AND/OR REPRESENTATIVES OF THE TOWN OF CARMEL TO INSPECT THE INSTALLATION OF THE EROSION CONTROL MEASURES AND CONSTRUCTION FENCE (SEE NOTES REGARDING THE SEPTIC SYSTEM).

UPON AUTHORIZATION TO PROCEED, THE CONTRACTOR MAY COMMENCE WITH THE CLEARING AND GRUBBING OPERATIONS (WITHIN THE LIMITS OF DISTURBANCE LINE). DUE TO THE LIMITED AREA IN WHICH TO WORK, IT MAY BE NECESSARY TO STORE ANY STRIPPED TOPSOIL AT AN OFF-SITE LOCATION. IF THE CONTRACTOR INTENDS TO STORE THE TOPSOIL ON SITE, IT SHALL BE LIMITED TO THE DISTURBANCE LIMIT LINE.

SEDIMENT AND EROSION CONTROL

ONCE INSTALLED, MAINTAINING THE SEDIMENT AND EROSION CONTROL MEASURES SHALL BE AN ON-GOING PROCESS THROUGHOUT CONSTRUCTION AND UNTIL STABILIZATION HAS BEEN ACHIEVED.

CONSTRUCTION SEQUENCING

WEEK 1 THROUGH 4

- INSTALL SEDIMENT EROSION CONTROLS
- INITIATE DEMOLITION
- STRIP AND STORE TOPSOIL FOR LATER USE
- UTILIZE EXISTING DRIVEWAY FOR INITIAL ACCESS
- ESTABLISH STAGING AREA
- CONSTRUCT STABILIZED CONSTRUCTION ACCESS DRIVE
- INSTALL CONSTRUCTION FENCE AROUND SEPTIC FIELD

WEEK 5 THROUGH 9

- EXCAVATE AND CONSTRUCT FOOTINGS
- INITIATE CONSTRUCTION OF FOUNDATION WALLS
- ROUGH GRADE RAIN GARDEN TO CREATE THE TEMPORARY SEDIMENT TRAP

WEEK 10 THROUGH 12

- INSTALL FOOTING DRAINS, BACKFILL FOUNDATION WALLS, INSTALL DRAINAGE ACROSS FRONT FOUNDATION WALL

WEEK 13 THROUGH 19

- COMMENCE WITH CONSTRUCTION AND RENOVATIONS TO RESIDENCE
- COMMENCE CONSTRUCTION OF REAR DECK
- EXTEND DRAINAGE TO REAR YARD AREA
- RESTORE FRONT YARD AREA, TOPSOIL AND SEED FOR STABILIZATION

WEEK 20 THROUGH 24

- DELINEAR PLANT AND LANDSCAPING (ON RAIN GARDEN
- CONTINUE WITH BUILDING RENOVATIONS
- COMPLETE RECIS CONSTRUCTION
- REMOVE ANY ACCUMULATED SILTS FROM THE TEMPORARY SEDIMENT TRAP

WEEK 25 - 30

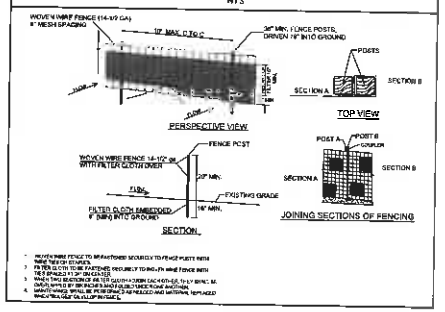
- CONVERT TEMPORARY SEDIMENT TRAP TO RAIN GARDEN
- CONNECT DRAINAGE SYSTEM TO RAIN GARDEN
- CONSTRUCT SIDEWALK
- RESTORE CONSTRUCTION ACCESS DRIVEWAY TOPSOIL AND SEED
- INSTALL PLANT MATERIAL IN RAIN GARDEN

WEEK 30 - 36

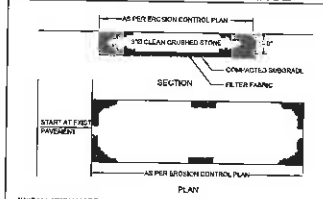
- INSTALL ROOF GUTTERS AND LEADERS, CONNECT TO DRAINAGE SYSTEM
- TOPSOIL AND SEED ALL DISTURBED AREAS
- REMOVE SEDIMENT AND EROSION CONTROLS
- COMPLETE HOUSE RENOVATIONS
- PAVE/REPAIR DRIVEWAY
- SITE CLEAN-UP

SILT FENCE

NTS



STABILIZED CONSTRUCTION ENTRANCE



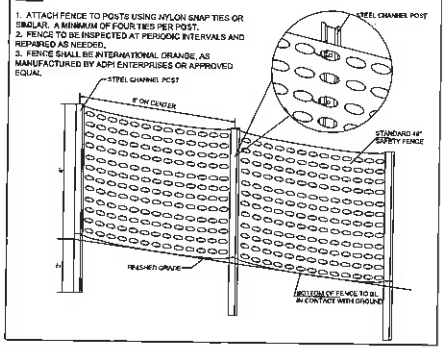
INSTALLATION NOTES

1. STONE SIZE - USE 3" CRUSHED STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
2. LENGTH - AS PER PLAN.
3. THICKNESS - NOT LESS THAN SIX (6) INCHES.
4. WIDTH - 12 FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH OF DRIVEWAY.
5. FILTER CLOTH - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
6. SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCE 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 TO QUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND. THE PLANS AND/OR PLUMBING OF ANY AND ALL S MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED ON TRACKED ONTO THE PUBLIC RIGHT OF WAY MUST BE REMOVED IMMEDIATELY.
8. WASHING - WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO THE PUBLIC RIGHT OF WAY. WHEN WASHING IS REQUIRED IT SHALL BE COMPLETED ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
9. PERIODIC INSPECTION AND NECESSARY MAINTENANCE SHALL BE COMPLETED AFTER EACH RAIN EVENT.

CONSTRUCTION FENCE DETAIL

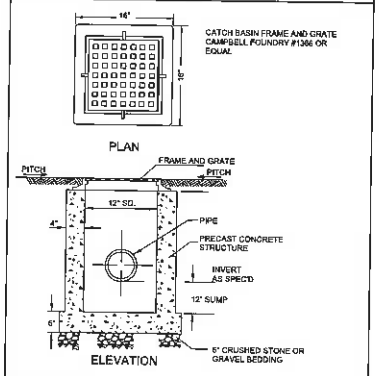
NOTES

1. ATTACH FENCE TO POSTS USING NYLON SNAP TIES OR SIMILAR. A MINIMUM OF FOUR TIES PER POST.
2. FENCE TO BE INSPECTED AT PERIODIC INTERVALS AND REPAIRED AS NEEDED.
3. FENCE SHALL BE INTERNATIONAL ORANGE, AS MANUFACTURED BY ADPI ENTERPRISES OR APPROVED EQUAL.



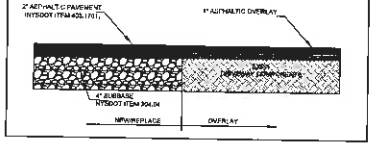
DRAIN INLET DETAIL

NTS



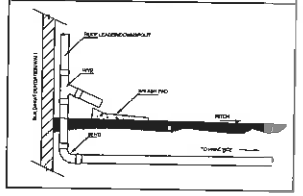
TYPICAL PAVEMENT SECTION

N.T.S.



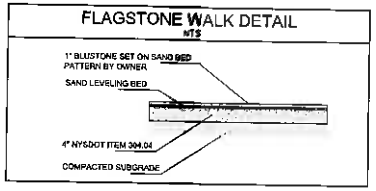
SURCHARGE PROTECTION

NTS



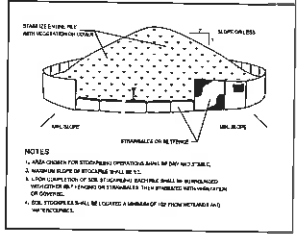
FLAGSTONE WALK DETAIL

NTS



SOIL STOCKPILING DETAIL

N.T.S.

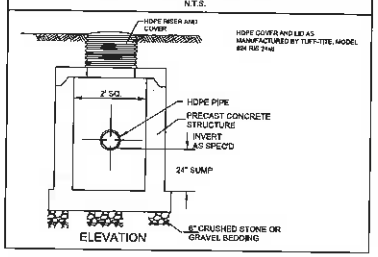


NOTES

1. AREA CHOSEN FOR STOCKPILING OPERATIONS SHALL BE DRY AND STABLE.
2. MAXIMUM SLOPE OF STOCKPILE SHALL BE 3:1.
3. UPON COMPLETION OF SOIL STOCKPILING EACH PILE SHALL BE SURROUNDED WITH SILT FENCING OR STRAWBALES THEN STABILIZED WITH VEGETATION OR COVERED.
4. SOIL STOCKPILES SHALL BE LOCATED A MINIMUM OF 100' FROM WETLANDS AND WATERWAYS.

INLET SUMP DETAIL

N.T.S.



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UNAUTHORIZED ADDITIONS, MODIFICATIONS AND OR ALTERATIONS TO THESE PLANS IS A VIOLATION SECTION 7209(2) OF THE NEW YORK STATE EDUCATION LAW

SHEET: 6 OF 6

Nathaniel J. Holt, P.E.

Date:

Original Date: MARCH 30, 2016
PROJECT: TRIGALE

NATHANIEL J. HOLT, P.E.
592 ROUTE 22
PAWLING, NEW YORK 12564
(914) 760-1800

DETAILS

KLEINSCHMIDT RESIDENCE RENOVATIONS
41 AVERILL ROAD MAHOPAC, N.Y. 10541

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

April 1, 2016

Town of Carmel Environmental Conservation Board
60 McAlpin Avenue
Mahopac, New York 10541

RE: Meadowland Extension Site Plan
1979 US Route 6
Tax Map No. 55.15-1-20

Dear Chairman Laga and Members of the Board:

Please find enclosed (3) copies of the following plans and documents submitted in support of a wetland permit application for the above referenced project:

- Five (5) sheet Site Plan Set, last revised April 1, 2016.
- Wetland Permit Application, dated April 1, 2016.
- Project Narrative, dated April 1, 2016.
- SEQR Short EAF, last revised April 1, 2016.
- Preliminary Stormwater Pollution Prevention Plan (SWPPP), dated April 1, 2016.
- NYSDEC Wetland Validation Map, dated December 11, 2015. (2 copies)
- A $4,600.00 check for the Wetland Permit Application Fee ($500.00 fee plus $100.00/1,000 s.f. of wetland buffer disturbance over 1,000 s.f. – 41,850 s.f. overall wetland buffer disturbance – 41x100=$4,100.00).
- A $1,000.00 check for the review escrow.

The subject project is currently under review by the Town of Carmel Planning Board for site plan approval and was referred to the ECB at their February 24, 2016 meeting to seek the required wetland permit. The applicant seeks a wetland permit for site grading within the Town and NYSDEC regulated 100' wetland adjacent area of NYSDEC LC-55 wetland and within the Town regulated 100' wetland buffer of a Town regulated wetland, for construction of a new, paved outdoor vehicle storage area and associated on-site stormwater management practices. Refer to the enclosed Project Narrative for more detailed information about the project.

Please place the project on the next available meeting agenda for a discussion of the project with the Board.

Very truly yours,

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

By: _____
John M. Watson, PE
Principal Engineer

JMW/dlm

Enclosures
cc: Kenn Volz, w/enclosure
Town of Carmel Town Clerk
Insite File No. 15244.100

CARL STONE
Chairman

ROBERT LAGA
Vice Chair

ROSE TROMBETTA
Secretary

DAVID KLOTZLE
Wetland Inspector

TOWN OF CARMEL
ENVIRONMENTAL CONSERVATION BOARD

60 McAlpin Avenue
Mahopac, New York 10541
Tel. (845) 628-1500 - Ext. 190
www.carmelny.org

BOARD MEMBERS

Edward Barnett
Anthony Dusovic
Marc Pekowsky
Vincent Turano
Nicholas Fannin

APPLICATION FOR WETLAND PERMIT OR LETTER OF PERMISSION

Project Name: Meadowland Extension Site Plan

Name of Applicant: 1976 Route 6 LLC c/o Volz Auto Group

Address of Applicant: 1952 Route 6, Carmel, NY 10512 **Email:** kenmax1225@aol.com

Telephone# 845-225-8468 **Name and Address of Owner if different from Applicant:**

Property Address: 1979 Route 6, Carmel, NY 10512 **Tax Map #** 55.15-1-20

Agency Submitting Application if Applicable: Insite Engineering, Surveying & Landscape Architecture, P.C.

Location of Wetland: NYSDEC LC-55 on west side of parcel; Town regulated wetland on south end of parcel

Size of Work Section & Specific Location: Approx. 5.5 acres of disturbance, along west side of property

Will Project Utilize State Owned Lands? If Yes, Specify: No - But driveway entrance will utilize NYSDOT highway right of way to access site from Route 6.

Type and extent of work (feet of new channel, yards of material to be removed, draining, dredging, filling, etc). A brief description of the regulated activity (attach supporting details).

Refer to project narrative for wetland permitting

Proposed Start Date: Fall 2016 **Anticipated Completion Date:** Spring 2017 **Fee Paid $** 1,000.00

****

CERTIFICATION

I hereby affirm under penalty of perjury that information provided on this form is true to the best of my knowledge and belief, false statements made herein are punishable as a Class A misdemeanor pursuant to Section 210.45 of the Penal Law. As a condition to the issuance of a permit, the applicant accepts full legal responsibility for all damage, direct or indirect, or whatever nature, and by whomever suffered, arising out of the project described here-in and agrees to indemnify and save harmless the Town of Carmel from suits, actions, damages and costs of every name and description resulting from the said project.

SIGNATURE

3/29/16
DATE

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

PROJECT NARRATIVE

For

MEADOWLAND EXTENSION SITE PLAN

US ROUTE 6
TOWN OF CARMEL
TAX MAP NO. 55.15-1-20
April 1, 2016

The Meadowland Extension project is located on a 12.99-acre parcel on the south side of US Route 6 in the C/BP Commercial / Business Park zone. The parcel is also identified as Tax Map No. 55.15-1-20. The zoned use for the site is commercial service establishment and the current application includes the construction of outdoor vehicle storage areas for approximately 370 cars with associated on-site stormwater management.

Outdoor Vehicle Storage Areas

The site is intended to provide outdoor vehicle storage area for automobile inventory from the Meadowland auto dealership across Route 6. Parallel vehicle storage spaces (8'x20') are provided along the east side and the west side of the 24' wide entrance drive. The balance of the vehicle storage is provided in a pave area striped with 9'x18' spaces with 22' wide internal access drives. Some spaces are double stacked as is common in vehicle storage areas, but the majority of the spaces are accessible from either the main access drive or the internal access drive.

The first entrance on the east into the main storage area has been sized to allow a WB-50 tractor trailer (or possibly a firetruck) to turn around within the site.

It is intended that the site will not be utilized by customers. No sales, customer service or pickup / delivery of customer vehicles will be conducted on-site. All customer vehicles will be dropped off and picked up at the established areas at the Meadowland auto dealership across Route 6 and then shuttled to and from the site by Meadowland staff. A "No Public Access" sign will be posted at the entrance to the site. Should a salesman need to provide a customer with access to inventory at the project site, Meadowland staff will shuttle them to and from the site.

The outdoor vehicle storage area will be screened from adjacent residential uses by a combination of grading, preserving existing vegetation, the installation of a 210' section of 6 ft. high stockade fence and proposed landscaping.

Freshwater Wetlands Permitting

The applicant seeks a wetland permit for site grading within the Town and NYSDEC regulated 100' wetland adjacent area of New York State Department of Environmental Conservation (NYSDEC) Freshwater Wetland LC-55 and within the Town regulated 100' wetland buffer of a Town regulated wetland, for construction of the new, paved outdoor vehicle storage area and associated on-site stormwater management practices.

The site is constrained to the west by a portion of NYSDEC Freshwater Wetland LC-55 and its 100' adjacent area, which covers more than half of the subject property. The site is constrained to the south by a small portion of a Town regulated wetland and its associated 100' buffer.

No disturbance is proposed in either the NYSDEC wetland or the Town regulated wetland. No impervious cover is proposed within the wetland buffers.

Site grading for the project includes approximately 30,000 s.f. (0.69 acres +/-) of disturbance within the 100' adjacent area of the NYSDEC wetland for site grading associated with the construction of the paved parking area and access driveway and the on-site stormwater basins, and approximately 11,850 s.f. (0.27+/-) of disturbance from grading for construction of the on-site stormwater management basins within the 100' buffer of the Town wetland.

All disturbed areas within the wetland buffers will be topsoiled and seeded with a Native Steep Slope Seed Mix as specified on the site plans. Graded areas of 2H:1V will receive additional stabilization with the installation of erosion control fabric. The proposed stormwater management areas will also be seeded with a native seed mix. Native understory tree and shrub species will be planted in groupings along the edges of the disturbed areas within and adjacent to the wetland buffers as mitigation for buffer disturbance. Approximately 41,850 s.f. (0.96 ac. +/-) of wetland buffer area is proposed to be seeded or planted with native vegetation species and an additional area of approximately 24,000 s.f. adjacent to wetland buffers at the south end of the site will be revegetated with native species, including the new stormwater basins and the areas surrounding them and between the basins and the paved area. Also note that the significant amount of non-native, invasive plant species, such Japanese Barberry and multiflora rose, present in the upland portion of the site that was previously disturbed, will be removed during the earthwork for the project.

In addition, a complete Stormwater Pollution Prevention Plan (SWPPP) designed in accordance with requirements of the Town of Carmel, NYSDEC and the New York City Department of Environment Protection (NYCDEP) has been prepared for the project as depicted on the site plans and in the SWPPP report for the project.

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:
Meadowland Extension Site Plan

Project Location (describe, and attach a location map):
1979 Route 6, Town of Carmel

Brief Description of Proposed Action:
Construction of a new paved outdoor vehicle storage area with associated onsite stormwater management.

Name of Applicant or Sponsor:	Telephone: 845-225-8468
1976 Route 6 LLC	E-Mail: kenmax1225@aol.com

Address:
c/o Volz Automotive, 1952 Route 6

City/PO:	State:	Zip Code:
Carmel	New York	10512

	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 governmental Agency? If Yes, list agency(s) name and permit or approval: Town of Carmel ZBA: Area Variance; Town of Carmel ECB: Wetland Permit; NYSDOT: Highway Work Permit; NYSDEC: Wetland Permit; NYSDEC: GP-0-15-002 Coverage; NYCDEP: SWPPP Approval	☐	☑

3.a. Total acreage of the site of the proposed action? 12.99 acres
b. Total acreage to be physically disturbed? 6.0± acres
c. Total acreage (project site and any contiguous properties) owned or controlled by the applicant or project sponsor? 12.99 acres

4. Check all land uses that occur on, adjoining and near the proposed action.
☐ Urban ☐ Rural (non-agriculture) ☐ Industrial ☑ Commercial ☐ Residential (suburban)
☑ Forest ☐ Agriculture ☐ Aquatic ☑ Other (specify): Wetland
☐ 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?	☐	☑
7. Is the site of the proposed action located in, or does it adjoin, a state listed Critical Environmental Area? If Yes, identify:	☑	☐
8. a. Will the proposed action result in a substantial increase in traffic above present levels?	☑	☐
b. Are public transportation service(s) available at or near the site of the proposed action?	☑	☐
c. Are any pedestrian accommodations or bicycle routes available on or near site of the proposed action?	☑	☐
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:	☐	☑
10. Will the proposed action connect to an existing public/private water supply? If No, describe method for providing potable water: N/A	☑	☐
11. Will the proposed action connect to existing wastewater utilities? If No, describe method for providing wastewater treatment: N/A	☑	☐
12. a. Does the site contain a structure that is listed on either the State or National Register of Historic Places?	☑	☐
b. Is the proposed action located in an archeological sensitive area? Per EAF Mapper, portions of project area have been previously disturbed.	☐	☑
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: No wetland disturbance is proposed. 0.69± acre of disturbance is proposed in the NYSDEC Wetland LC-55 100' adjacent area. 0.27± acre of disturbance is proposed in the Town Regulated Wetland 100' buffer.	☑	☐
14. Identify the typical habitat types that occur on, or are likely to be found on the project site. Check all that apply: ☐ Shoreline ☑ Forest ☐ Agricultural/grasslands ☑ Early mid-successional ☑ Wetland ☐ Urban ☐ Suburban		
15. Does the site of the proposed action contain any species of animal, or associated habitats, listed by the State or Federal government as threatened or endangered? The NYSDEC online environmental resource mapper shows potential rare plant and/or animals in the area but does not provide a list.	☐	☑
16. Is the project site located in the 100 year flood plain?	☑	☐
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? ☐ NO ☑ YES	☐	☑
b. Will storm water discharges be directed to established conveyance systems (runoff and storm drains)? If Yes, briefly describe: ☑ NO ☐ YES A new onsite stormwater management system will be provided.		

	NO	YES
18. Does the proposed action include construction or other activities that result in the impoundment of water or other liquids (e.g. retention pond, waste lagoon, dam)? If Yes, explain purpose and size: Temporary impoundment of stormwater runoff will be provided in stormwater management basins.	☐	☑
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 AFFIRM THAT THE INFORMATION PROVIDED ABOVE IS TRUE AND ACCURATE TO THE BEST OF MY KNOWLEDGE

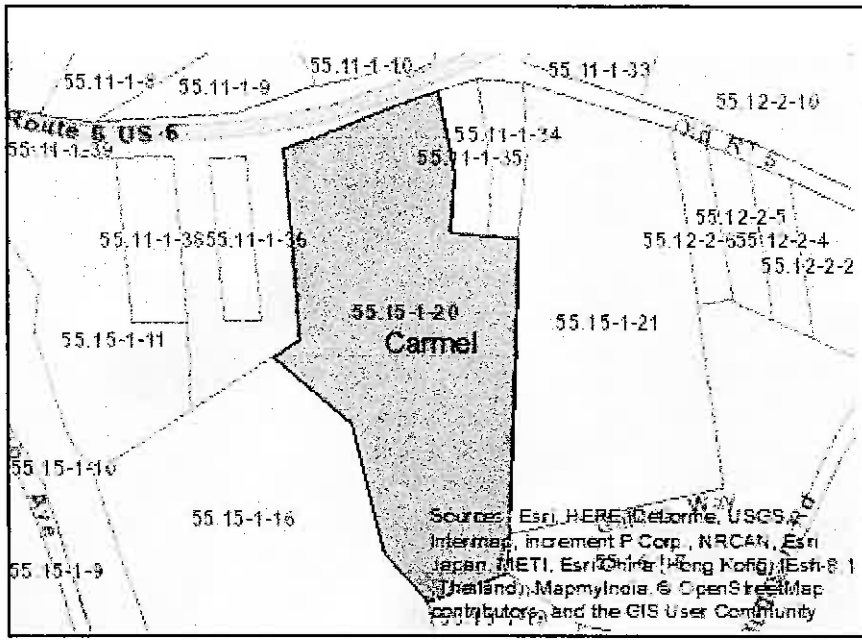
Applicant/sponsor name: Insite Engineering, Surveying & Landscape Architecture, P.C., John M. Watson, P.E. Date: Revised April 1, 2016

Signature: _____

PRINT FORM

EAF Mapper Summary Report

Friday, December 18, 2015 9:50 AM



Disclaimer: The EAF Mapper is a screening tool intended to assist project sponsors and reviewing agencies in preparing an environmental assessment form (EAF). Not all questions asked in the EAF are answered by the EAF Mapper. Additional information on any EAF question can be obtained by consulting the EAF Workbooks. Although the EAF Mapper provides the most up-to-date digital data available to DEC, you may also need to contact local or other data sources in order to obtain data not provided by the Mapper. Digital data is not a substitute for agency determinations.

Part 1 / Question 7 [Critical Environmental Area]	No
Part 1 / Question 12a [National Register of Historic Places]	No
Part 1 / Question 12b [Archeological Sites]	Yes
Part 1 / Question 13a [Wetlands or Other Regulated Waterbodies]	Yes - Digital mapping information on local and federal wetlands and waterbodies is known to be incomplete. Refer to EAF Workbook.
Part 1 / Question 15 [Threatened or Endangered Animal]	Yes
Part 1 / Question 16 [100 Year Flood Plain]	No
Part 1 / Question 20 [Remediation Site]	No

SIGN DATA TABLE

LOCATION NO.	TEXT	METER NUMBER	SIZE OF SIGN (ft.)	DESCRIPTION
1	IN PROGRESS	-	24" x 24"	Red on White
2	NO OUTLET	R14-2	24" x 24"	Black on Yellow
3	STOP	R1-1C	30" x 30"	White on Red

C/BP ZONE REQUIREMENTS

	REQUIRED	PROPOSED
Minimum Lot Area:	3 AC.	12.01 AC. ±
Minimum Lot Width:	200'	600' ±
Minimum Lot Depth:	200'	1,227' ±
Minimum Setbacks:		
Principal Bldg: Front Yard:	50'	N/A
Side Yard:	50'	N/A
Rear Yard:	50'	N/A
Maximum Building Height:	40'	N/A
Minimum Building Floor Area:	5,000 sf	0 sf *
Maximum Building Coverage:	ACE	0% *

* Area Variance sought from Town of Carmel Zoning Board of Appeals for zero (0) sf of building, to have no building at the site.

500' ADJOINERS:

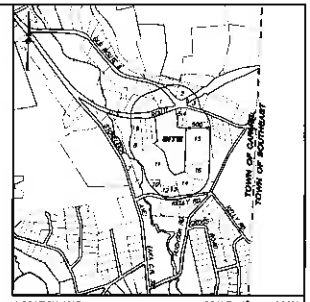
1. N/F Brewster Meadowland Capital LP
2. N/F Dutchess Water Realty LLC
3. N/F WSLD Realty
4. N/F 82 Old Route 6 LLC
5. N/F Nancy Du Mee, LLC
6. N/F Ralph Lidal
7. N/F Putnam City Not Bank of Carmel
8. N/F West Point Management Corp.
9. N/F Kenneth
10. N/F Eric Fenger
11. N/F West Point Management Corp.
12. N/F John J Dallas Irrevocable Trust
13. N/F Paul & Lynne Kraus
14. N/F Anthony C Maccarini
15. N/F County of Putnam
16. N/F NE Hughson Associates

VEHICLE STORAGE SPACES PROVIDED:

Outside Vehicle Storage Areas: = 370 spaces Provided

LOADING SPACES PROVIDED:

Loading Spaces: = 1 Space Provided



LOCATION MAP SCALE: 1" = 1,000'±

OWNER/APPLICANT:

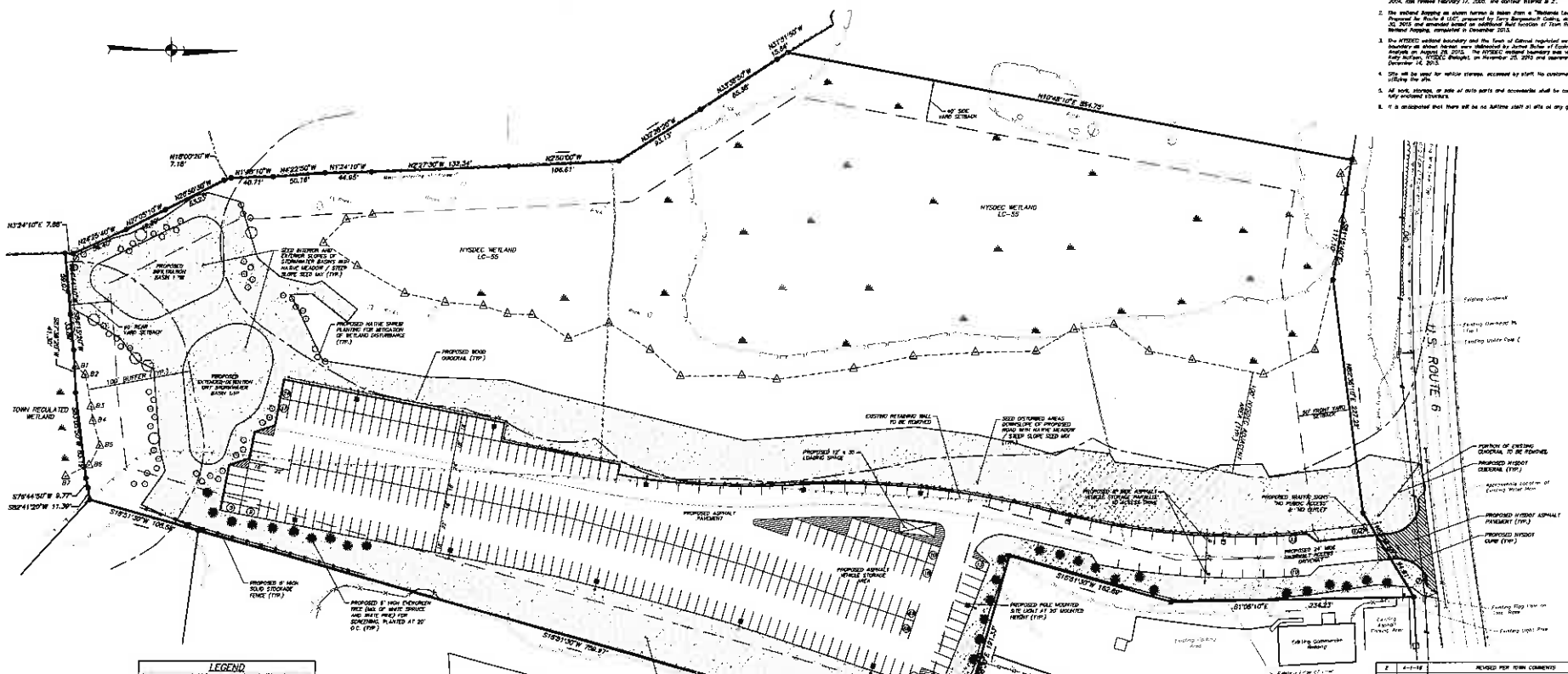
1979 Route 6 LLC
c/o Nick Aviti Group
1492 Route 9
Carmel, New York 10512

SITE DATA:

Zone: COMMERCIAL/BUSINESS PARK
Tax Map Acre: 12.01 ac.
Tax Map No.: 55.18-1-1.20
Proposed Use: Commercial Service Establishment

GENERAL NOTES:

1. Property line and topography as shown hereon based on "Survey of Property Prepared for BASL, INC." prepared by Terry Benjamin® Collins, dated August 26, 2004, last revised February 12, 2005. the contour interval is 2'.
2. The wetland mapping as shown hereon is taken from a "Wetlands Location Map Prepared for Route 6 LLC", prepared by Terry Benjamin® Collins, dated October 30, 2015 and amended based on additional field function of Town Regulated Wetland mapping, completed in December 2015.
3. The NYSDEC wetland bordered by the Town of Carmel regulated wetland boundary as shown hereon were delineated by James Baker of Ecological Analysis on August 28, 2015. the NYSDEC wetland boundary was verified by Ruby Hudson, NYSDEC Biologist, on November 25, 2015 and approved on December 14, 2015.
4. Site will be used for vehicle storage, accessed by staff. No customers will be utilizing the site.
5. All work, storage, or sale of auto parts and accessories shall be conducted in a fully enclosed structure.
6. It is anticipated that there will be no full-time staff at site at any given time.



LEGEND

- Existing Property Line
- Existing Utility Pole With Overhead Wire
- Existing Stonewall
- Existing NYSDEC Wetland Line
- 100' NYSDEC Wetland Adjacent Area
- Existing Fence
- Proposed Guiderail
- Proposed Fence
- Proposed Landscaping
- Proposed Pole Mounted Site Lighting

GRAPHIC SCALE

(IN FEET)
1 inch = 40 ft

NO.	DATE	REVISION	BY
2	4-4-16	REVISED PER TOWN COMMENTS	MEV
1	2-17-16	ADDED SITE LIGHTING & LANDSCAPING	SJC

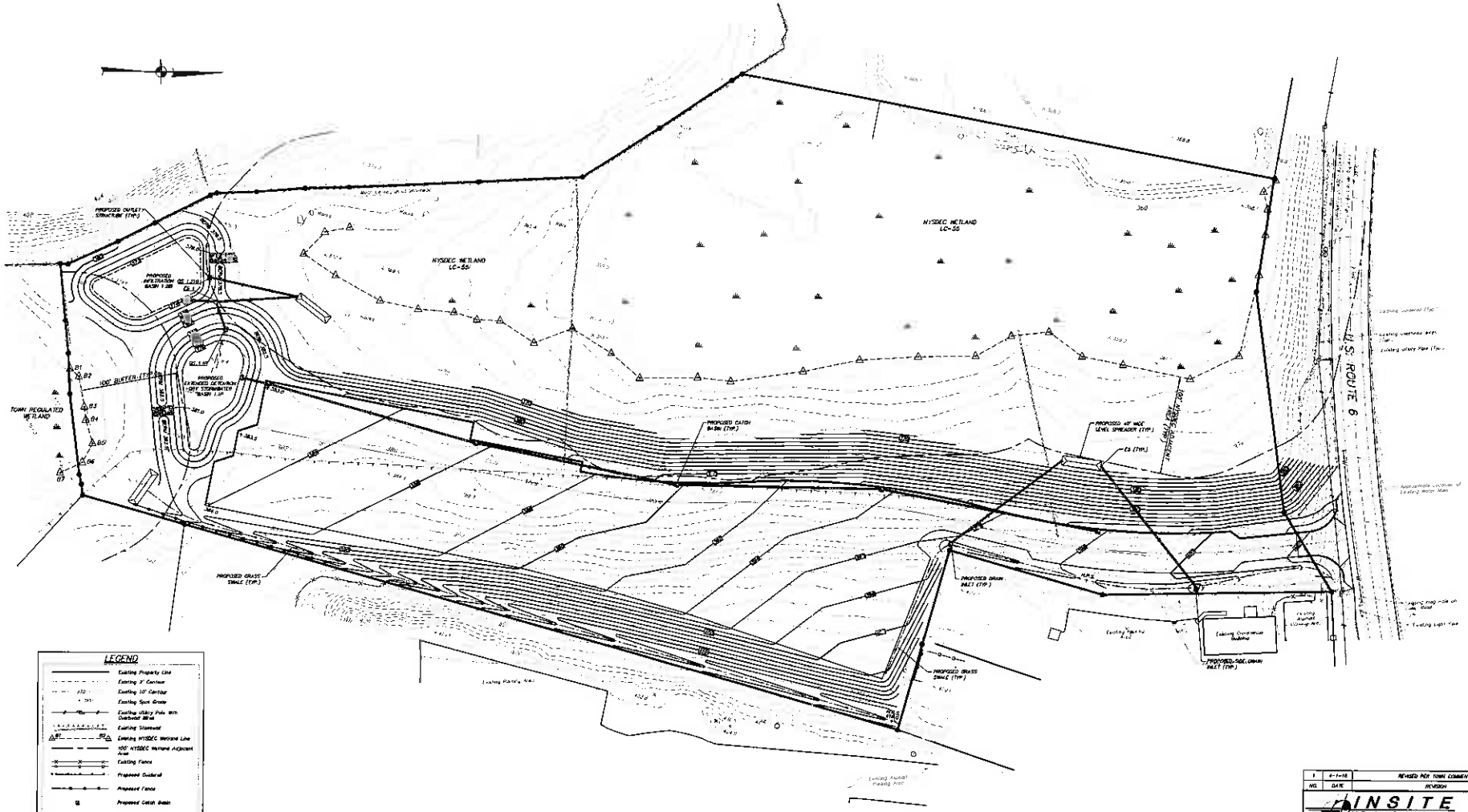
INSITE ENGINEERING, SURVEYING & LANDSCAPE ARCHITECTURE, P.C.
3 Garrett Place
Carmel, NY 10512
(845) 225-1690
(845) 225-1772 fax
www.insite-eng.com

PROJECT:
MEADOWLAND EXTENSION
1979 U.S. ROUTE 6, TOWN OF CARMEL, PUTNAM COUNTY, NEW YORK

DRAWING:
LAYOUT PLAN

PROJECT NUMBER	15244.100	PROJECT MANAGER	J.M.W.
DATE	2-10-16	DRAWN BY	C.T.G.
SCALE	1" = 40'	CHECKED BY	D.L.W.

DRAWING NO. SP-1 SHEET 1 / 6



LEGEND

- Existing Property Line
- Existing 2' Contour
- Existing 10' Contour
- Existing Spot Grade
- Existing Utility Pole with Guyline Wire
- Existing Stonewall
- Existing NYSDEC Wetland Line
- 100' NYSDEC Wetland Adjacent Area
- Existing Fence
- Proposed Guiderail
- Proposed Fence
- Proposed Catch Basin
- Proposed Drainage Pipe with End Section
- Proposed Flow Splitter
- Proposed Outlet Control
- Proposed Level Spreader
- Proposed Grass Swale

GRAPHIC SCALE

(IN FEET)
1 inch = 40 ft.

NO.	DATE	REVISION	BY
1	4-1-16	REVISED PER TOWN COMMENTS	MCV

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3 Gorrell Place
Carmel, NY 10512
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(845) 225-7117 fax
www.insite-eng.com

PROJECT:
MEADOWLAND EXTENSION
1179 U.S. ROUTE 6, TOWN OF CARMEL, Putnam County, New York

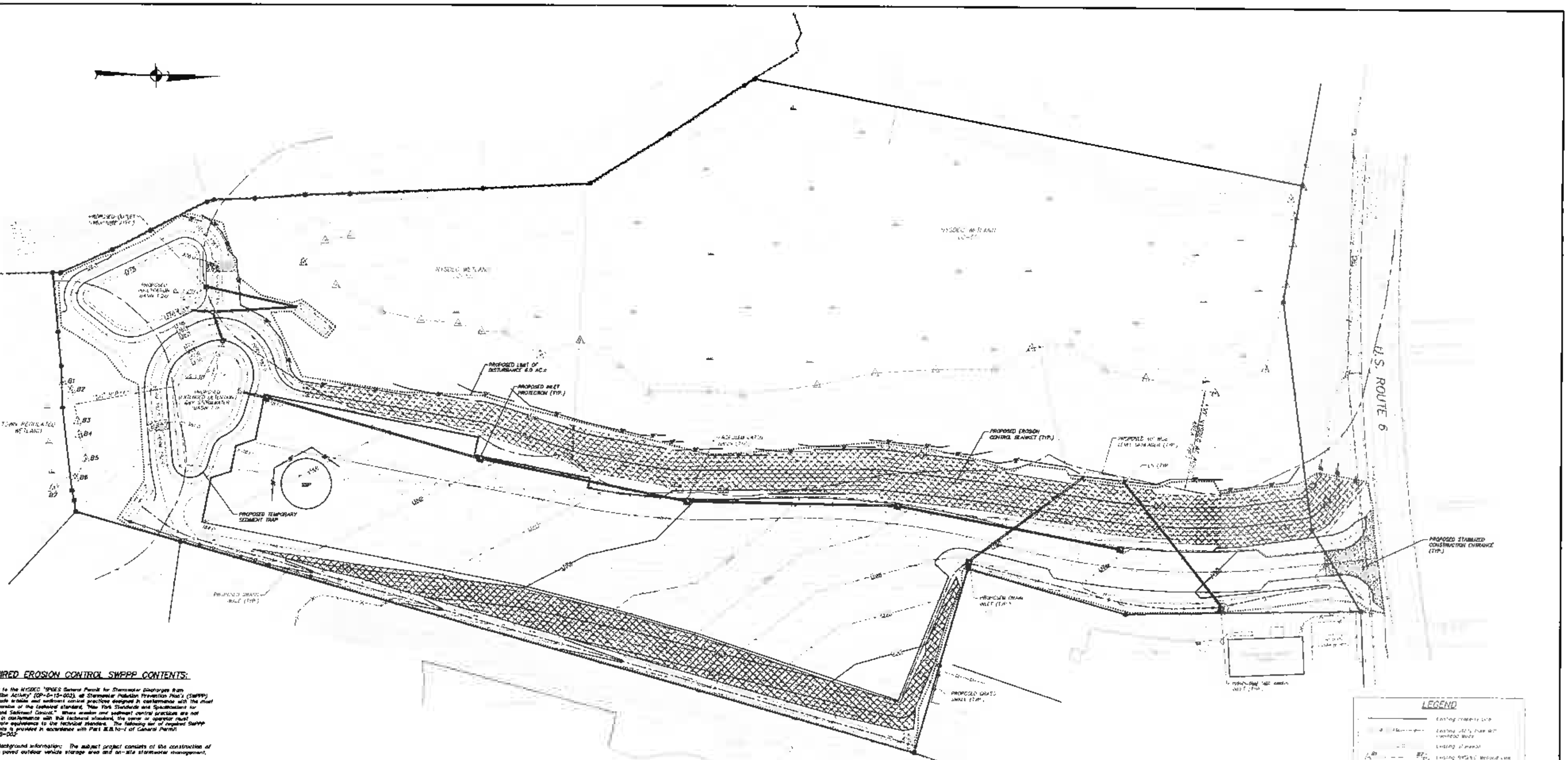
DRAWING:
GRADING & DRAINAGE PLAN

PROJECT NUMBER	15244.100	PROJECT MANAGER	J.M.W.
DATE	2-10-16	DRAWN BY	C.T.G.
SCALE	1" = 40'	CHECKED BY	D.L.M.

DRAWING NO. SP-2

SHEET 2 / 6

ALTERATION OF THIS DOCUMENT, UNLESS UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, IS A VIOLATION OF SECTION 7209 OF ARTICLE 145 OF THE EDUCATION LAW



REQUIRED EROSION CONTROL SWPPP CONTENTS:

Pursuant to the NYSDEC "SPDES General Permit for Stormwater Discharges from Construction Activity" (GP-0-15-002), 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-0-15-002.

a. Background information: The subject project consists of the construction of a paved outdoor vehicle storage area and on-site stormwater management.

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

c. Description of the soils present at the site. Onsite soils consist of Carlisle muck (Ce), Charlton loam (ChB, ChC & ClB), Chatfield-Hollis Rock (CsD), Leicester loam (LeB), Paxton fine sandy loam (PnB and PnC), Udorthents (Ub) & Woodbridge loam (WdB), as identified on the Soil Conservation Service Web Soil Survey. These soil types belong to the Hydrologic Soil Group "A/D", "B", "C", "B/D" AND "C/D."

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 Sedimentation and Erosion Control Notes contained herein 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 hereon 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-0-15-002. 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 dumpsters 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."

ALTERATION OF THIS DOCUMENT, UNLESS UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, IS A VIOLATION OF SECTION 7209 OF ARTICLE 145 OF THE EDUCATION LAW.

EROSION & SEDIMENT CONTROL NOTES:

1. The Erosion and Sediment Control Plan is only to be referred to for the installation of erosion and sediment control measures. For all other construction related activities, including, but not limited to, grading and utilities, refer to the appropriate drawings.
2. Each contractor or subcontractor responsible for soil disturbance shall have a NYSDEC trained contractor onsite during soil disturbing activities. The NYSDEC trained contractor will be responsible to comply with the stormwater pollution prevention plan and for the implementation and maintenance of erosion and sediment control measures on this site prior to and during construction. The NYSDEC trained contractor shall sign a certification statement required by GP-0-15-002.
3. 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.
4. 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.
5. When land is exposed during development, the exposure shall be kept to the shortest practical period of time, but in no case more than 7 days after the construction activity in that portion of the site has ceased. Disturbance shall be minimized in the areas required to perform construction.
6. All construction vehicles shall be kept clear of the watercourses and wetland control areas outside the areas of proposed development. Silt fence and orange construction fence shall be installed in the areas where the grading is in close proximity of the watercourses or wetland control areas.
7. The stabilized construction entrance, silt fence, and orange construction fence shall be installed as shown on the plans prior to beginning any clearing, grubbing or earthwork.
8. All topsoil to be stripped from the area being developed shall be stockpiled and immediately seeded with Annual, Perennial or Winter Rye for temporary stabilization. Winter Rye (Grain Rye) shall be used for winter seeding and Annual or Perennial Rye shall be used for spring and summer seeding.
9. Any graded areas not subject to further disturbance or construction traffic shall, within 7 days of final grading, receive permanent vegetation cover in combination with a suitable mulch. All seeded areas to receive a minimum 4" topsoil (from stockpile area) and be seeded and mulched between March 21 and May 20 or between August 15 and October 15 or as directed by project representative, with specified seed mixes as shown in the General Site Seeding Notes.
   - 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.
10. Grass seed mix may be applied by either mechanical or hydroseeding methods.
10. Cut or fill slopes steeper than 3H:1V shall be stabilized immediately after grading with Curlex I Single Net Erosion Control Blanket, or approved equal.
11. Paved roadways shall be kept clean at all times.
12. The site shall at all times be graded and maintained such that all stormwater runoff is diverted to soil erosion and sediment control facilities.
13. All storm drainage outlets shall be stabilized, as required, before the discharge points become operational.
14. Stormwater from disturbed areas must be passed through erosion control barriers before discharge beyond disturbed areas or discharged into other drainage systems.
15. Erosion and sediment control measures shall be inspected and maintained on a daily basis by the NYSDEC Trained Contractor, 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 site engineer.
16. Dust shall be controlled by sprinkling or other approved methods as necessary, or as directed by the trained contractor or site engineer.
17. Cut and fills shall not endanger adjoining property, nor divert water onto the property of others.
18. All fills shall be placed and compacted in 6" lifts to provide stability of material and to prevent settlement.
19. The NYSDEC Trained Contractor shall inspect downstream conditions for evidence of sedimentation on a weekly basis and after rainstorms.
20. As warranted by field conditions, special additional erosion and sediment control measures, as specified by the site engineer, the wetlands inspector, the Town Engineer and/or NYCDEP shall be installed by the contractor.
21. Erosion and sediment control measures shall remain in place until all disturbed areas are suitably stabilized.
22. After completion of the site improvements, the owner will assume responsibility for maintenance of the roads, parking lots, drainage systems and stormwater facilities. Each spring the paved areas shall be cleaned to remove the winter accumulation of traction sand. After this is completed all drain inlet and catch basin sumps should be cleaned. All pipes should be checked for debris and blockage and cleaned as required. During the cleaning process, the drain inlets, catch basins and pipes should be inspected for structural integrity and overall condition. Repairs and/or replacements should be made as required.
23. Inspection of the underground infiltration systems should be performed every 6 months and after large storm events.
24. Refer to the Stormwater Pollution Prevention Plan for additional details regarding long-term maintenance of the storm drainage facilities.

REQUIRED POST-CONSTRUCTION STORMWATER MANAGEMENT PRACTICE COMPONENTS:

1. Pursuant to the NYSDEC "SPDES General Permit for Stormwater Discharges from Construction Activity" (GP-0-15-002), all construction projects needing post-construction stormwater management practices shall prepare a SWPPP that also includes practices designed in conformance with the most current version of the technical standard, New York State Stormwater Management Design Manual ("Design Manual"). Where post-construction stormwater management 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 SWPPP components is provided in accordance with Part III.B.2a–f and III.B.3.
   a. Identification of all post-construction stormwater management practices to be constructed as part of the project; This plan, and details/notes shown hereon serve to satisfy this SWPPP requirement.
   b. A site map/construction drawing(s) showing the specific location and size of each post-construction stormwater management practice; This plan, and details/notes shown hereon serve to satisfy this SWPPP requirement.
   c. A Stormwater Modeling and Analysis Report including pre-development conditions, post-development conditions, the results of the stormwater modeling, a summary table demonstrating that each practice has been designed in conformance with the sizing criteria, identification of and justification for any deviations from the Design Manual, and identification of any design criteria that are not required. The required analysis is provided in the report titled Preliminary Stormwater Pollution Prevention Plan for Meadowland Extension.
   d. Soil testing results and locations. This SWPPP requirement is provided in the report titled Preliminary Stormwater Pollution Prevention Plan for Meadowland Extension.
   e. Infiltration testing results. This SWPPP requirement is provided in the report titled Stormwater Pollution Prevention Plan for Meadowland Extension.
   f. An operations and maintenance plan that includes inspection and maintenance schedules and actions to ensure continuous and effective operation of each post-construction stormwater management practice. The plan shall identify the entity that will be responsible for the long term operation and maintenance of each practice. The Permanent Stormwater Facilities Maintenance Schedule provided on these plans serves to satisfy this requirement.
2. Enhanced Phosphorus Removal Standards – Beginning on September 30, 2008, all construction projects identified in Table 2 of Appendix B that are located in the watersheds identified in Appendix C shall prepare a SWPPP that includes post-construction stormwater management practices designed in conformance with the Enhanced Phosphorus Removal Standards included in the most current version of the technical standard, New York Stormwater Management Design Manual. At a minimum, the post-construction stormwater management practice component of the SWPPP shall include items 2.a – 2.f above. The permanent stormwater practices for this project have been sized according to chapter 10 of the Design Manual Enhanced Phosphorus Removal Standards. Please see 2.a – 2.f above.

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
DUST CONTROL	Inspect	–	Inspect	Mulching/Spraying Water	N/A
*VEGETATIVE ESTABLISHMENT	–	Inspect	Inspect	Water/Reseed/Remulch	Reseed to 80% Coverage
INLET PROTECTION	–	Inspect	Inspect	Clean/Repair/Replace	Remove
SOIL STOCKPILES	–	Inspect	Inspect	Mulching/Silt Fence Repair	Remove
SWALES	–	Inspect	Inspect	Clean/Mulch/Repair	New Permanent Grass/Replace/Repair Rip Rap
CHECK DAMS	–	Inspect	Inspect	Clean/Replace Stones/Repair	Clean/Replace Stones/Repair
CONCRETE DRAINAGE STRUCTURES	–	Inspect	Inspect	Clean Sumps/Remove Debris/Repair/Replace	Clean Sumps/Remove Debris/Repair/Replace
DRAINAGE PIPES	–	Inspect	Inspect	Clean/Repair	Clean/Repair
ROAD & PAVEMENT	–	Inspect	Inspect	Clean	Clean

* 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:

1978 Route 6 LLC
c/o Valz Auto Group
1952 Route 6
Carmel, NY 10512

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

GRAPHIC SCALE

0 20 40 80
(IN FEET)

NO.	DATE	REVISION	BY

INSITE ENGINEERING, SURVEYING & LANDSCAPE ARCHITECTURE, P.C.
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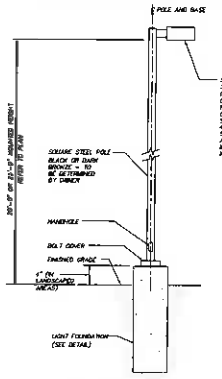
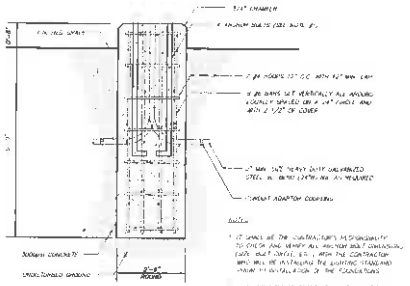
PROJECT:
MEADOWLAND EXTENSION
1978 U.S. ROUTE 6, TOWN OF CARMEL, PUTNAM COUNTY, NEW YORK

DRAWING:
EROSION & SEDIMENT CONTROL PLAN

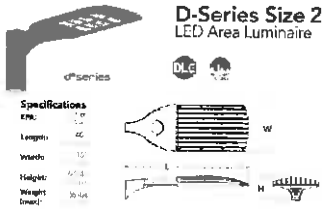
PROJECT NUMBER	15244.100	PROJECT MANAGER	S.W.B.	DRAWING NO.	SHEET
DATE	4-1-16	DRAWN BY	C.T.O.	SP-3	3/8
SCALE	1" = 40'	CHECKED BY	D.L.M.		



POLE-MOUNTED LIGHTING DETAIL
(N.T.S.)



LIGHTING FOUNDATION DETAIL



POLE-MOUNTED AREA LIGHT
(N.T.S.)

Introduction

The outstanding quality of the D-Series is evident in every aspect of its design, from its sleek, low profile to its performance. The D-Series is an ideal performer, high efficacy, long life luminaire. The outstanding photometric performance results in fewer and lower poles, and lower lumen ratings while still achieving the same or better illumination levels. The D-Series is ideal for replacement of 400-1500W metal halide area lights and is applicable in areas where uniformity is critical, or where security is a concern. Available in 3000K, 4000K or 5000K color temperatures between 65 and over 100 CRI options.

LUMINAIRE SCHEDULE

Symbol	Qty	Catalog Number	Description	Lamp
	3	DSX1 LED 1000 350 NW T5W WHXX HS	SINGLE – URBANA D SERIES LED POLE-MOUNTED, NIGHT-TIME FRIENDLY, FULL CUTOFF, WITH PHOTOCELL (P) 30 LED LIGHT ENGINES, TYPE 5W OPTICS, SQUARE WITH HOUSE SIDE SHIELDS AT 20'-0" MOUNTED HEIGHT	1 LED-320 WATT
	11	DSX1 LED 1000 350 NW T5W WHXX HS	SINGLE – URBANA D SERIES LED POLE-MOUNTED, NIGHT-TIME FRIENDLY, FULL CUTOFF, WITH PHOTOCELL (P) 30 LED LIGHT ENGINES, TYPE 5W OPTICS, 4000K AT 20'-0" MOUNTED HEIGHT	1 LED-320 WATT

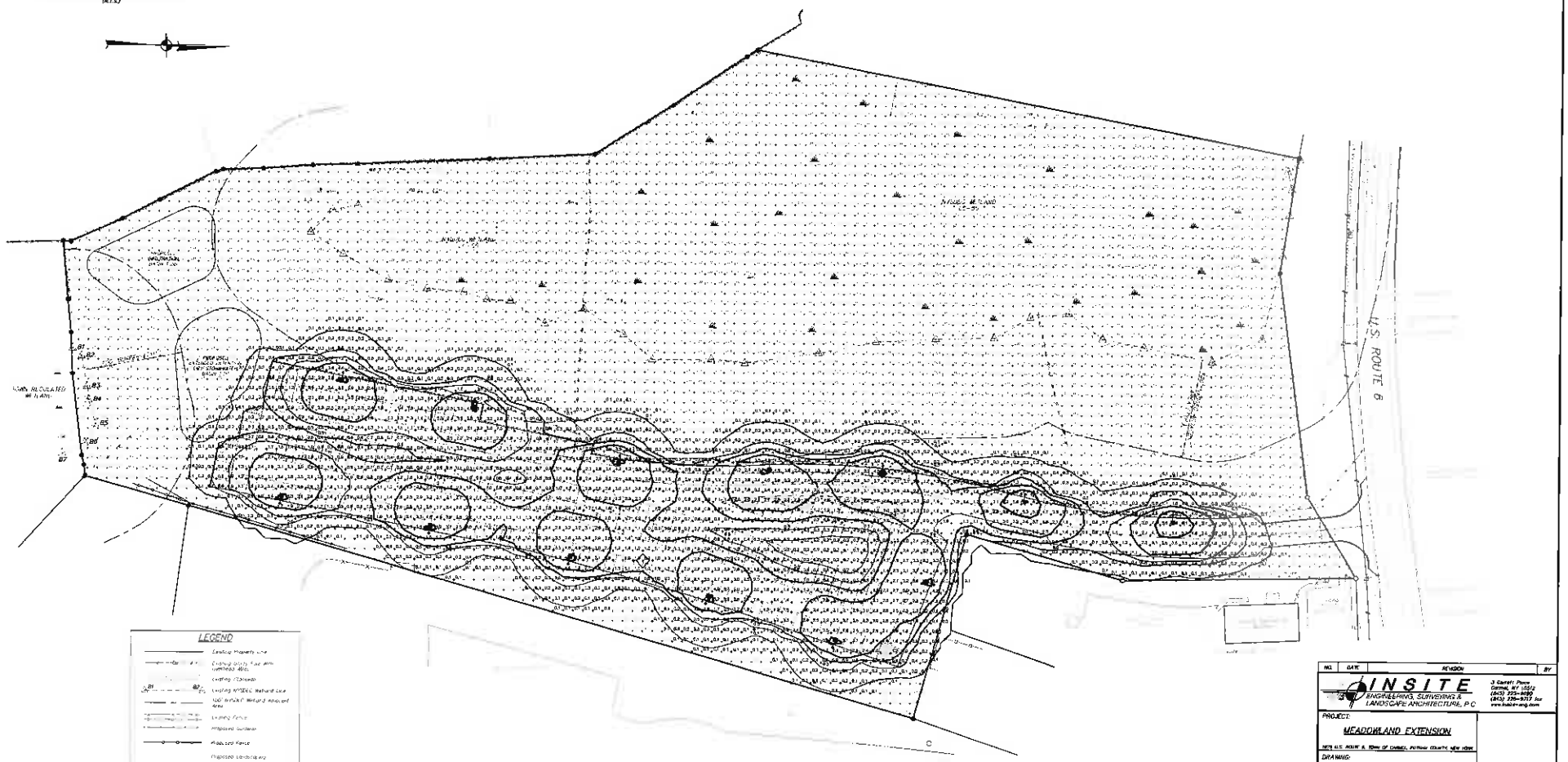
LIGHT CONTOUR LEGEND

0.10	0.10 Foot Candles
0.50	0.50 Foot Candles
1.00	1.00 Foot Candles
2.00	2.00 Foot Candles
5.00	5.00 Foot Candles

* Photometric calculations shown on plan are in foot candles.

LIGHTING NOTES:

1. Refer to Drawing SP-1 for General Notes.
2. Two (2) proposed pole mounted area luminaires along entrance driveway are Type 3 distribution, with houseside shields at 20'-0" mounted height. Eleven (11) proposed pole mounted area luminaires for outdoor parking areas are Type 4 distribution, with houseside shields at 20'-0" mounted height.
3. All lighting must be as noted on the plan or approved equal.
4. Style and finish of all luminaires and poles to be selected by owner.
5. All proposed site lighting shall be on photocells.
6. Computation values shown in this plan are taken on a horizontal plane at ground level using a 0.85 light loss factor. Topographical information and landscaping have not been accounted for in these calculations.



NO.	DATE	REVISION	BY

INSITE ENGINEERING, SURVEYING & LANDSCAPE ARCHITECTURE, P.C.
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Carmel, NY 10512
(845) 225-8080
(845) 279-9217 fax
www.insite-eng.com

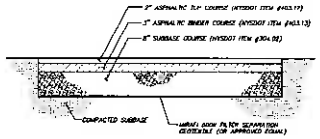
PROJECT:
MEADOWLAND EXTENSION
NYS U.S. ROUTE 6, TOWN OF CARMEL, PUTNAM COUNTY, NEW YORK

DRAWING:
LIGHTING PLAN

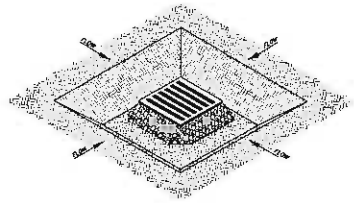
PROJECT NUMBER	15244.100	PROJECT MANAGER	J.M.W.
DATE	4-1-16	DRAWN BY	C.T.Q.
SCALE	1" = 40'	CHECKED BY	D.L.M.

DRAWING NO. LP-1 SHEET 1 of 5

ALTERATION OF THIS DOCUMENT, UNLESS UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, IS A VIOLATION OF SECTION 7209 OF ARTICLE 145 OF THE EDUCATION LAW

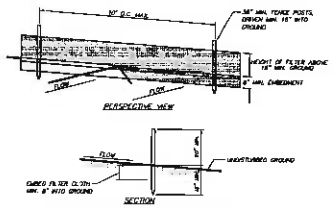


ASPHALT PAVEMENT DETAIL
(N.T.S.)



1. CLEAR THE AREA OF ALL DEBRIS THAT WILL HINDER EXCAVATION
2. GRADE APPROACH TO THE INLET UNIFORMLY AROUND THE BASIN
3. WEEP HOLES SHALL BE PROTECTED BY GRAVEL
4. UPON STABILIZATION OF CONTRIBUTING DRAINAGE AREA, SEAL WEEP HOLES, FILL EXCAVATION WITH STABLE SOIL TO FINAL GRADE, COMPACT IT PROPERLY, AND STABILIZE WITH PERMANENT SEEDING
5. MAXIMUM DRAINAGE AREA = 1 ACRE

EXCAVATED DROP INLET PROTECTION DETAIL
(N.T.S.)

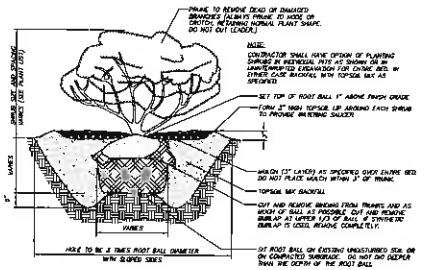


CONSTRUCTION NOTES FOR FABRICATED SILT FENCE

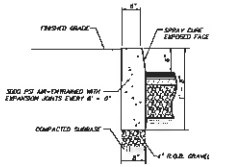
1. FILTER CLOTH TO BE FASTENED SECURELY TO POSTS AT TOP AND MID SECTION.
2. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY SIX INCHES AND FOLDED.
3. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.

POSTS: STEEL EITHER T OR U TYPE OR 2" HARDWOOD.
FILTER CLOTH: FILTER X, MIRAFI 1000, STABINFORM TN700, OR APPROVED EQUAL.
PRE-FABRICATED UNIT: GEOFAB, ENVIROFENCE, OR APPROVED EQUAL.

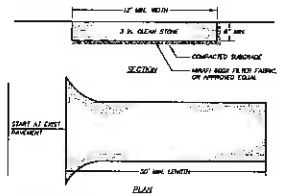
SILT FENCE DETAIL
(N.T.S.)



SHRUB PLANTING DETAIL
(N.T.S.)



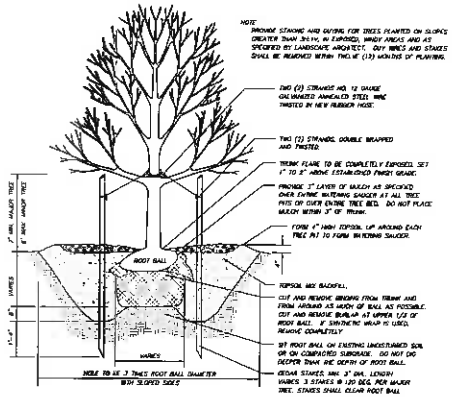
CONCRETE CURB DETAIL
(N.T.S.)



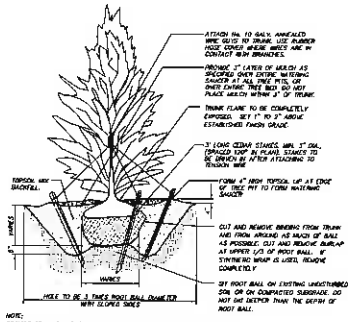
INSTALLATION NOTES

1. STONE SIZE – USE 2" STONE
2. LENGTH – AS REQUIRED (BUT NOT LESS THAN 50 FEET (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30 FOOT MINIMUM LENGTH WOULD APPLY.)
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 MINIMUM 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 RIGHTS OF WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANING OF ANY PAVEMENT FILTERS USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR WHEELED ONTO PUBLIC RIGHTS OF WAY MUST BE REMOVED IMMEDIATELY.
8. WASHING – WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHTS 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.

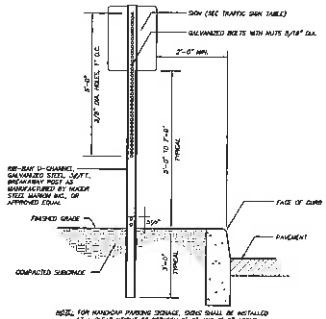
STABILIZED CONSTRUCTION ENTRANCE DETAIL
(N.T.S.)



TREE PLANTING DETAIL
(N.T.S.)

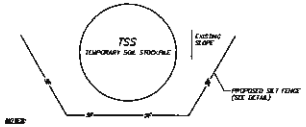


EVERGREEN TREE PLANTING DETAIL
(N.T.S.)



NOTE: FOR HANDICAP PARKING SIGNAGE, SIGNS SHALL BE INSTALLED AT A CLEAR HEIGHT OF BETWEEN 5'-0" AND 7'-0" ABOVE GRADE OF PARKING SPACE, AND SUCH THAT SIGNS SHALL NOT BE OBSCURED BY A VEHICLE PARKED IN THE SPACE.

TRAFFIC SIGN 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 NYS PERENNIAL RYE FLORAL
4. ALL STOCKPILES SHALL BE PROTECTED WITH SILT FENCING INSTALLED ON THE DOWNGRADIENT SIDE

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

NO.	DATE	REVISION	BY

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(845) 225-8692 fax
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PROJECT:
MEADOWLAND EXTENSION
1878 U.S. ROUTE 9, TOWN OF CARMEL, PUTNAM COUNTY, NEW YORK

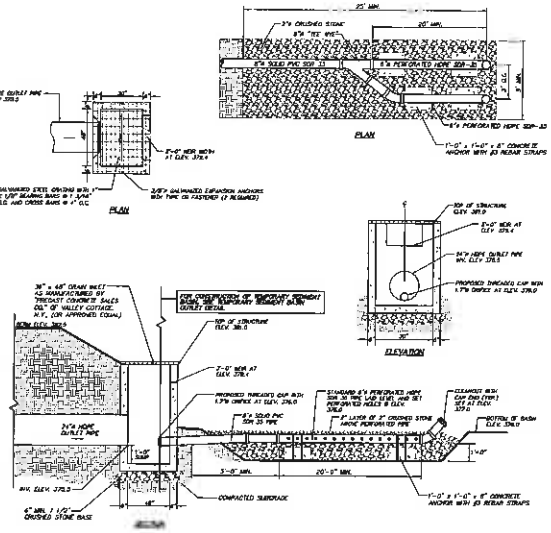
DRAWING:
SITE DETAILS

PROJECT NUMBER	15244.100	PROJECT MANAGER	S.W.B.
DATE	4-1-16	DRAWN BY	C.T.O.
SCALE	AS SHOWN	CHECKED BY	D.L.M.

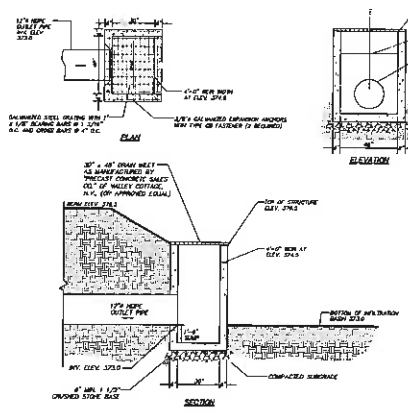
DRAWING NO. D-1

SHEET 5 / 6

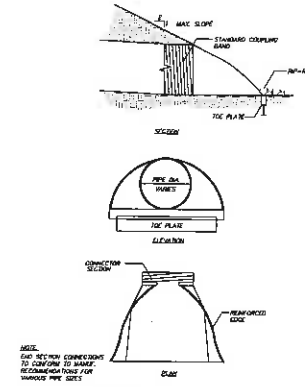
ALTERATION OF THIS DOCUMENT, UNLESS UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, IS A VIOLATION OF SECTION 7209 OF ARTICLE 145 OF THE EDUCATION LAW.



EXTENDED DETENTION DRY PRETREATMENT BASIN 1.1P OUTLET STRUCTURE DETAIL



INFILTRATION BASIN 1.2 IB OUTLET STRUCTURE DETAIL
(N.T.S.)



HDPE END SECTION DETAIL
(N.T.S.)

EXTENDED DETENTION DRY PRETREATMENT BASIN & INFILTRATION BASIN OUTLET NOTES

1. THE BASINS ARE PROPOSED TO BE UTILIZED AS TEMPORARY SEDIMENT BASINS DURING CONSTRUCTION.
2. AFTER THE CONTRIBUTING AREAS TO THE BASINS HAVE BEEN PERMANENTLY STABILIZED, THE FOLLOWING SHALL BE ACCOMPLISHED:

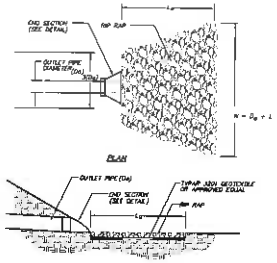
FOR EXTENDED DETENTION DRY PRETREATMENT BASINS 1.1P/1.2 & 2.1P/2P

A. CLEAN BASIN AND OUTLET STRUCTURE AND REMOVE 6"ø PERFORATED VERTICAL RISER PIPE, CRUSHED STONE AND FILTER FABRIC.
B. ADD THREADED CAP WITH ORIFICE AT DISCHARGE END OF 6"ø SOLID PVC SDR 35 PIPES PER DETAIL.
C. REPLACE THE PERFORATED PIPE AND CRUSHED STONE, DO NOT REPLACE FILTER FABRIC.
D. ESTABLISH THE FINAL VEGETATION IN THE BASIN IN ACCORDANCE WITH THE TYPICAL DRY STORMWATER / INFILTRATION BASIN PLANTING DETAIL.

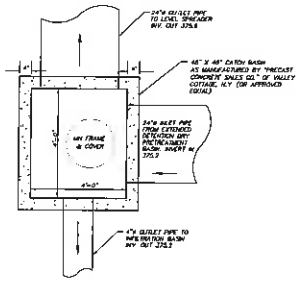
FOR INFILTRATION BASINS 1.2 & 2.2IB

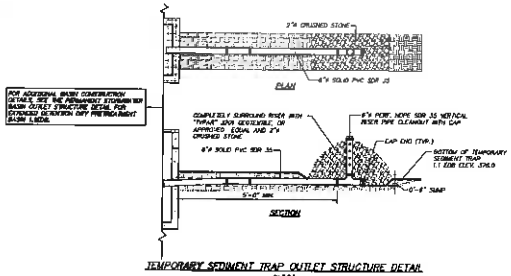
A. INFILTRATION BASIN CONSTRUCTED IN ITS FINAL CONDITION FOR THE DETAILS SHOWN HEREON DURING INITIAL PHASES OF CONSTRUCTION AND STABILIZED.
B. ALL FLOW SHALL BE DIVERTED AWAY FROM THE BASIN UNTIL ALL CONTRIBUTING AREAS HAVE BEEN STABILIZED IN ACCORDANCE WITH THE SWPPP AND SEDIMENT CONTROL NOTES.
C. UPON COMPLETION OF STABILIZATION OF ALL CONTRIBUTING AREAS AND CONVERSION OF THE TEMPORARY SEDIMENT TRAP TO THE PERMANENT EXTENDED DETENTION DRY PRETREATMENT STORMWATER BASIN, DIRECT ALL TO INFILTRATION BASIN.

3. FOLLOWS: • WHEN INITIALLY USED AS THE TEMPORARY SEDIMENT BASIN DEWATERING DEVICE, THE RISER SHALL BE WRAPPED WITH TYPAR 3301 GEOTEXTILE OR APPROVED EQUAL AND SURROUNDED WITH 3"ø STONE. THE TOP OF THE RISER SHALL BE SET AT THE SAME ELEVATION AS THE WEIRS AS SHOWN IN THE STORMWATER BASIN OUTLET STRUCTURE DETAILS.

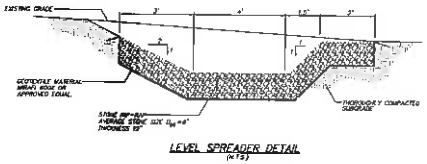


VELOCITY DISSIPATOR DETAIL
(N.T.S.)

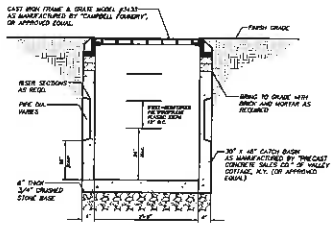




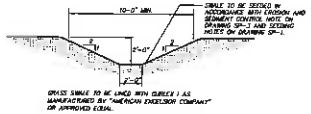
TEMPORARY SEDIMENT TRAP OUTLET STRUCTURE DETAIL
(N.T.S.)



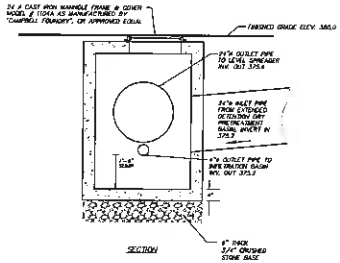
LEVEL SPREADER DETAIL
(N.T.S.)



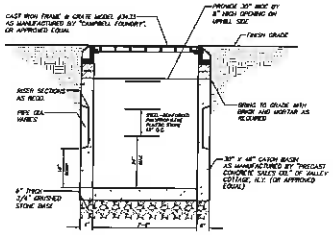
DRAIN INLET DETAIL
(N.T.S.)
(STRUCTURE AND GRATE TO BE DESIGNED FOR H-20 LOADING)



GRASS SWALE DETAIL
(N.T.S.)



FLOW SPLITTER FS-1 DETAIL
(N.T.S.)



SIDE DRAIN INLET DETAIL
(N.T.S.)
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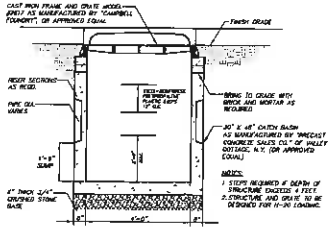
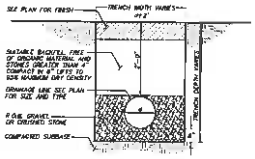


CATCH BASIN DETAIL
(N.T.S.)



DRAINAGE LINE TRENCH DETAIL
(N.T.S.)

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PROJECT: MEADOWLAND EXTENSION

PITR U.S. ROUTE 6, TOWN OF CARMEL, PUTNAM COUNTY, NEW YORK

DRAWING: SITE DETAILS

PROJECT NUMBER	15244.100	PROJECT MANAGER	S.W.B.
DATE	4-1-18	DRAWN BY	C.T.G.
SCALE	AS SHOWN	CHECKED BY	D.L.M.

DRAWING NO. D-2 SHEET 6 / 6

NYSDEC FRESHWATER WETLAND BOUNDARY VALIDATION

The freshwater wetland boundary as represented on these plans accurately depicts the extent of the freshwater wetland LC-58 as verified by Kelly Mallows, Wetland Specialist on November 2014.

DEC Staff: Kelly Mallows
Date: 12/14/2015
Exp 12/14/2020.

Engineer: [illegible]
SEAL

Wetland boundary delineations as validated by the New York State Department of Environmental Conservation remain valid for 3 years unless existing exempt activities, area hydrology, or land use practices change (e.g., agricultural to residential). After 5 years the boundary must be re-validated by DEC staff. Re-validation may include a new delineation and survey of the wetland boundary.

Any proposed construction, grading, filling, excavating, clearing or other regulated activity to the freshwater wetland or adjacent 100 feet as depicted on this plan requires a permit from the New York State Department of Environmental Conservation under Article 24 of the Environmental Conservation Law (Freshwater Wetland Act) prior to commencement of work.

LEGEND

- Existing Property Line
- Existing 2' Contour
- Existing 10' Contour
- Existing Spot Grade
- Existing Utility Pole With Overhead Wires
- Existing Stonewall
- Existing NYSDEC and/or Town Regulated Wetland Line and Flag Location
- 100' NYSDEC Wetland Adjacent Area and/or Town Regulated Wetland Buffer
- Existing Tree Line
- Existing Fence

OWNER/APPLICANT:

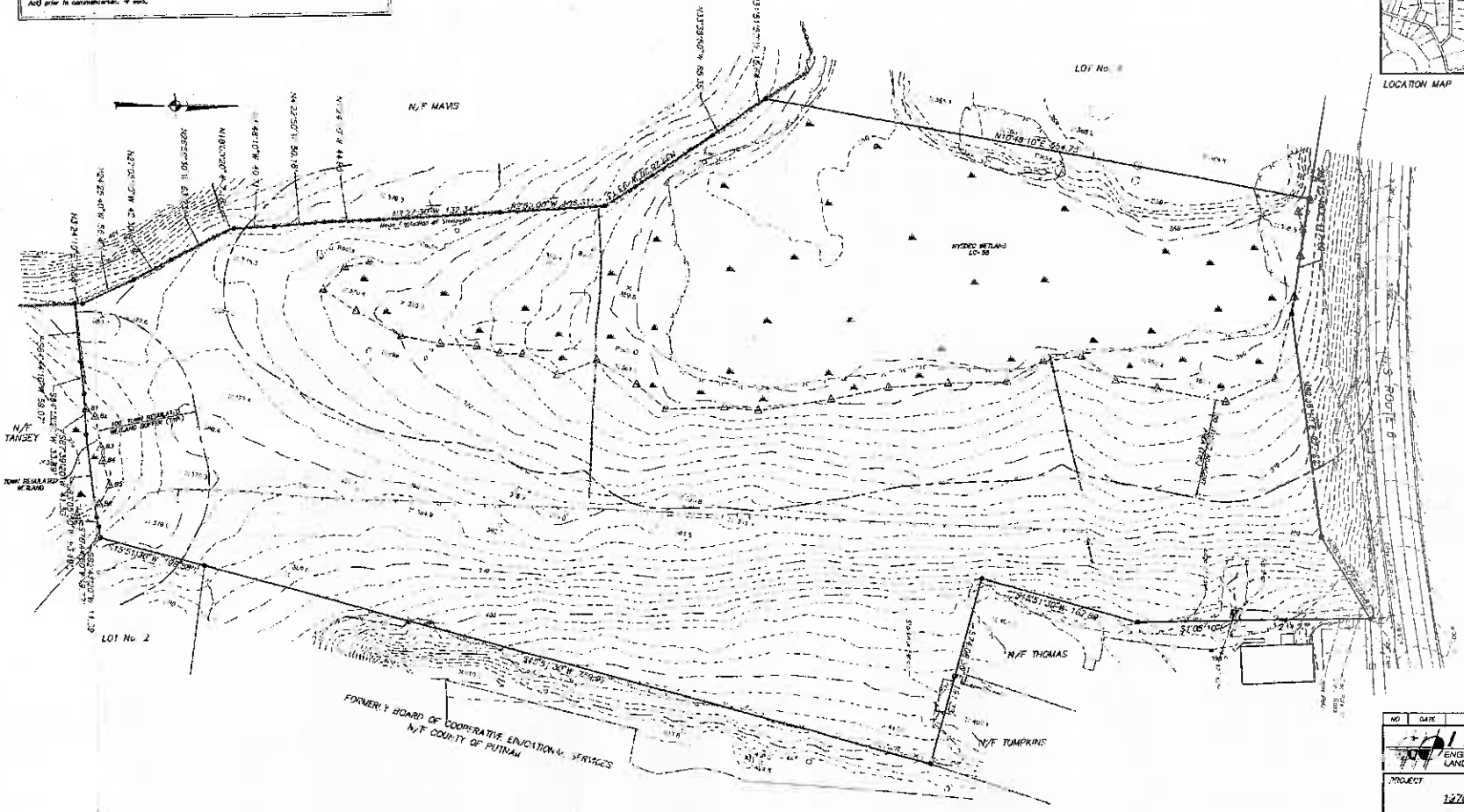
1276 Route 6 LLC
c/o Matt Arte Group
1552 Route 6
Carmel, New York 10512

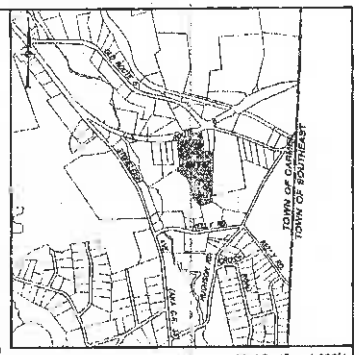
SITE DATA:

Zone: COMMERCIAL/BUSINESS PARK
Total Acreage: 12.16 AC
Tax Map No.: 65.15-1-20

GENERAL NOTES:

1. Property line and topography as shown hereon based on "Survey of Property Prepared for SMIC, INC." prepared by Terry Bergendorff Collins, dated August 19, 2004, last revised February 17, 2005.
2. The wetland mapping as shown hereon is taken from a "Wetlands Location Map Prepared for Route 6 LLC", prepared by Terry Bergendorff Collins, dated October 30, 2015 and updated based on additional field location of Town Regulated Wetland Mapping, completed in December 2015.
3. Town and NYSDEC wetlands were delineated by Jim Bates of Ecological Analysis, completed August 2015.





LOCATION MAP — SCALE: 1" = 1,000'±

GRAPHIC SCALE
(IN FEET)
1 inch = 30 ft.

ALTERATION OF THIS DRAWING, UNLESS UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, IS A VIOLATION OF SECTION 7209 OF ARTICLE 145 OF THE EDUCATION LAW

NO	DATE	REVISION	BY

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PROJECT: 1276 ROUTE 6
19.9 U.S. ROUTE 6, TOWN OF CARMEL, PUTNAM COUNTY, NEW YORK

DRAWING: NYSDEC WETLAND VALIDATION MAP

PROJECT NUMBER	15244.100	PROJECT MANAGER	S.W.B.	DRAWING NO.	SHEET
DATE	11-11-15	DRAWN BY	M.E.D.	WV-1	1/1
SCALE	1" = 30'	CHECKED BY	D.J.M.		