

ROBERT LAGA
Chairman

NICHOLAS FANNIN
Vice Chairman

RICHARD FRANZETTI, P.E.
Wetland Inspector

ROSE TROMBETTA
Secretary

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
Vincent Turano
Anthony Federice

ENVIRONMENTAL CONSERVATION BOARD AGENDA

NOVEMBER 19, 2020 – 7:30 P.M.

SUBMISSION OF AN APPLICATION OR LETTER OF PERMISSION

| <u>APPLICANT</u> | <u>ADDRESS</u> | <u>TAX MAP #</u> | <u>COMMENTS</u> |
|-------------------------|-----------------------|-------------------------|------------------------|
| 1. Harris, Paul | 15 Astor Drive | 75.16-1-59 | Retain Stonewall |
| 2. Old Forge Estates | Baldwin Place Rd | 75.15-1-19 | Cluster Subdivision |

MISCELLANEOUS

3. Minutes – 09/17/20 & 11/05/20

PROJECT DETAILS

Paul Harris

15 Astor Drive

Mahopac, NY 10541

Tax Map # 75.16-1-59

Project: Construction of Stone Wall

My yard has many boulders that are strewn about. I decided in June of 2020 to rent a mini excavator to try and move some of these boulders as a yard beautification project. I used the boulders that I displaced to form a 30 foot long, 1 foot high stone wall (please see included pictures). Below are some key points regarding the project.

- I was not aware that this project required ECB approval.**
- The mini excavator was primarily used to move the boulders. Much of the labor was done with hand tools.**
- No materials were brought in for the project.**
- The stone wall was constructed as a dry wall. No cement or binder was used in the construction process.**
- Any dirt that was displaced while leveling a base to build the wall was redistributed in my yard, primarily to fill in sinkholes.**

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Anthony Federice

APPLICATION FOR WETLAND PERMIT OR LETTER OF PERMISSION

Name of Applicant: Paul Harris

Address of Applicant: 15 Astor Drive
Mahopac, N.Y. 10541 Email: _____

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

Property Address: 15 Astor Drive, Mahopac, N.Y. Tax Map # 75.16-1-59

Agency Submitting Application if Applicable: N/A

Location of Wetland: Bloomer Pond

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).

Move existing boulders on my property and line
them up into a 30 foot long, 1 foot high wall.

Proposed Start Date: 06/24/20 Anticipated Completion Date: 06/26/20 Fee Paid \$ 225

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 Harris
SIGNATURE

09/28/2020
DATE

Short Environmental Assessment Form

Part 1 - Project Information

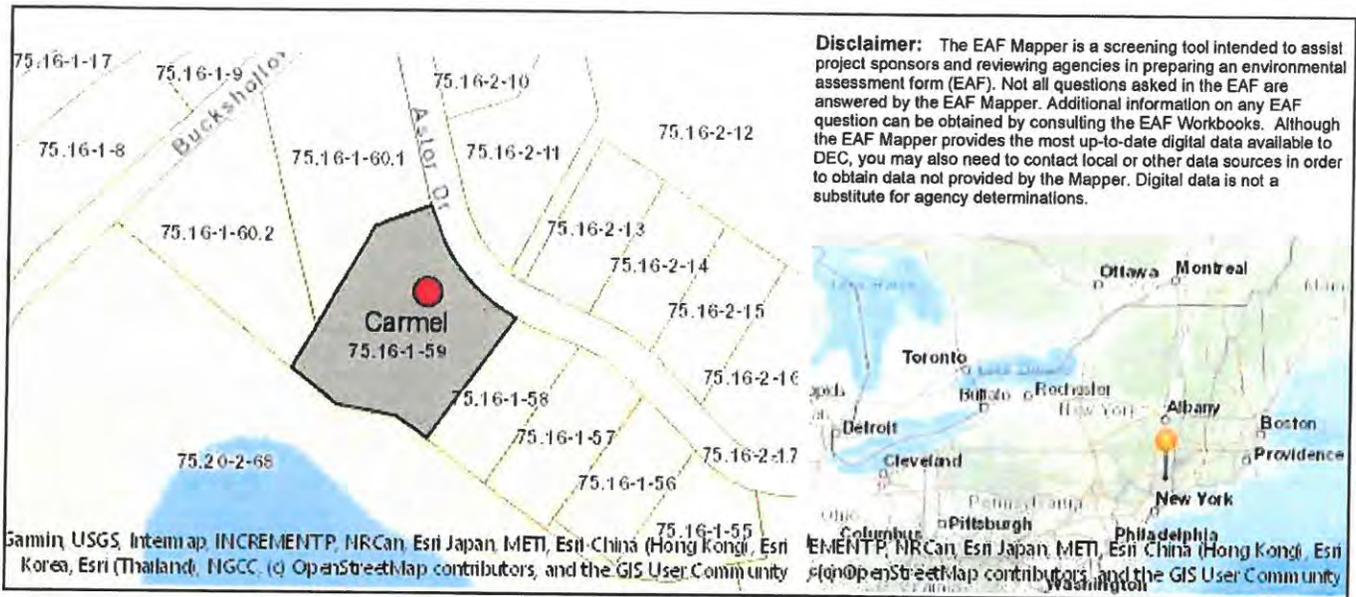
Instructions for Completing

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.

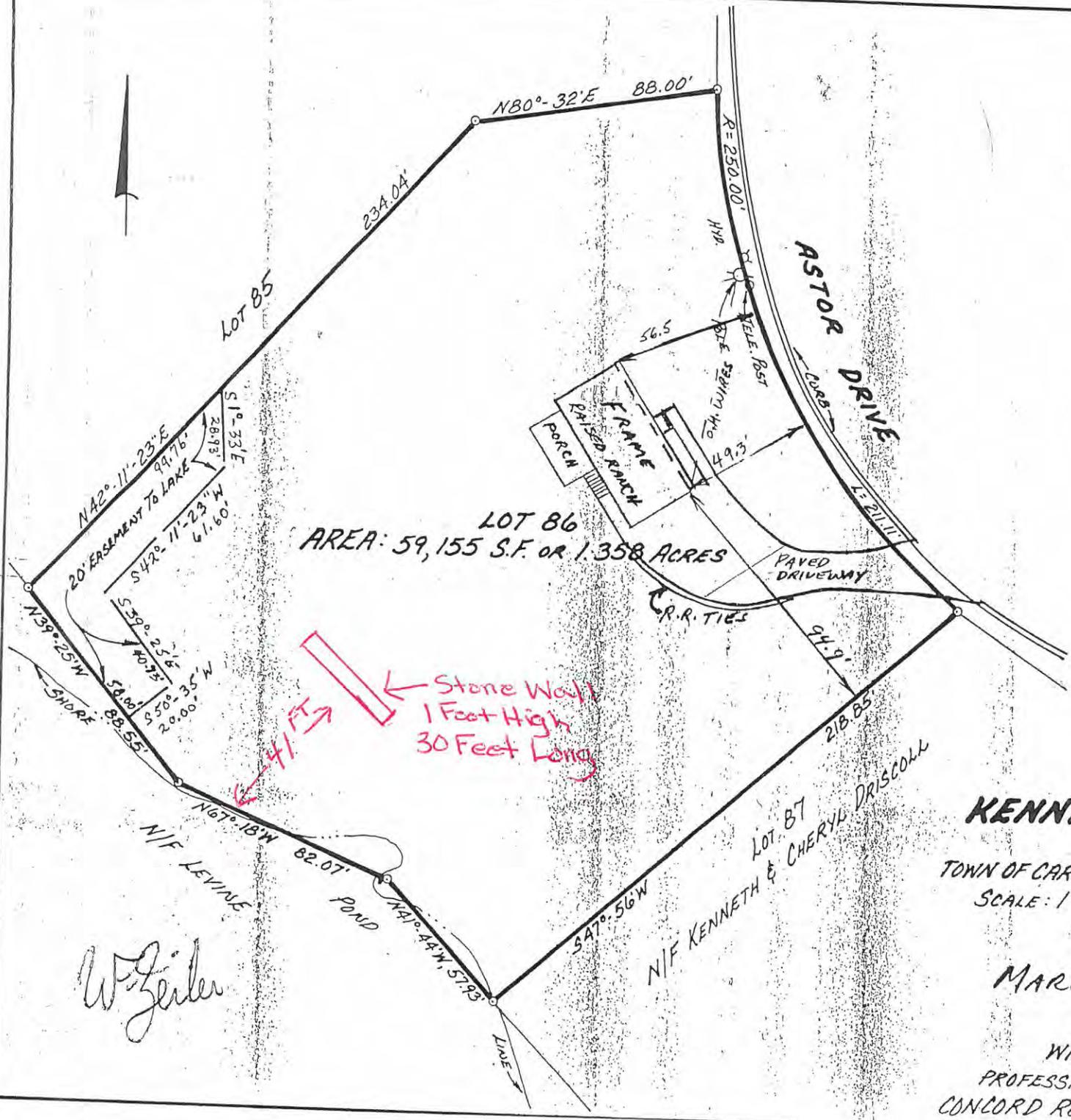
| Part 1 – Project and Sponsor Information | | | |
|--|--|--------------------|---|
| Name of Action or Project: Paul Harris | | | |
| Project Location (describe, and attach a location map): 15 Astor Drive, Mahopac, NY 10541 | | | |
| Brief Description of Proposed Action: Relocate existing boulders in yard to make a 30 foot long 1 foot stonewall. See attached pictures. | | | |
| Name of Applicant or Sponsor: Paul Harris | | Telephone: | |
| | | E-Mail: | |
| Address: 15 Astor Drive | | | |
| City/PO: Mahopac | | State: New York | Zip Code: 10541 |
| 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. | | | NO <input checked="" type="checkbox"/> |
| | | | YES <input type="checkbox"/> |
| 2. Does the proposed action require a permit, approval or funding from any other government Agency? If Yes, list agency(s) name and permit or approval: | | | NO <input checked="" type="checkbox"/> |
| | | | YES <input type="checkbox"/> |
| 3. a. Total acreage of the site of the proposed action? | | 1.358 acres | |
| b. Total acreage to be physically disturbed? | | 0 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, are adjoining or near the proposed action: | | | |
| 5. <input type="checkbox"/> Urban <input type="checkbox"/> Rural (non-agriculture) <input type="checkbox"/> Industrial <input type="checkbox"/> Commercial <input checked="" type="checkbox"/> Residential (suburban) | | | |
| <input type="checkbox"/> Forest <input type="checkbox"/> Agriculture <input type="checkbox"/> Aquatic <input type="checkbox"/> Other(Specify): | | | |
| <input type="checkbox"/> Parkland | | | |

| | | | |
|---|-------------------------------------|-------------------------------------|--------------------------|
| 5. Is the proposed action, a. A permitted use under the zoning regulations? | NO | YES | N/A |
| | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| b. Consistent with the adopted comprehensive plan? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| | | | |
| 6. Is the proposed action consistent with the predominant character of the existing built or natural landscape? | NO | YES | |
| | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| 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 | |
| | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 8. a. Will the proposed action result in a substantial increase in traffic above present levels? b. Are public transportation services available at or near the site of the proposed action? c. Are any pedestrian accommodations or bicycle routes available on or near the site of the proposed action? | NO | YES | |
| | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 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 | |
| | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 10. Will the proposed action connect to an existing public/private water supply? If No, describe method for providing potable water: _____ _____ | NO | YES | |
| | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 11. Will the proposed action connect to existing wastewater utilities? If No, describe method for providing wastewater treatment: _____ _____ | NO | YES | |
| | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 12. a. Does the project site contain, or is it substantially contiguous to, a building, archaeological site, or district which is listed on the National or State Register of Historic Places, or that has been determined by the Commissioner of the NYS Office of Parks, Recreation and Historic Preservation to be eligible for listing on the State Register of Historic Places? | NO | YES | |
| | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| b. Is the project site, or any portion of it, located in or adjacent to an area designated as sensitive for archaeological sites on the NY State Historic Preservation Office (SHPO) archaeological site inventory? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| | | | |
| 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 | YES | |
| | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| | | | |



| | |
|---|---|
| Part 1 / Question 7 [Critical Environmental Area] | No |
| Part 1 / Question 12a [National or State Register of Historic Places or State Eligible Sites] | 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 15 [Threatened or Endangered Animal - Name] | Northern Long-eared Bat |
| Part 1 / Question 16 [100 Year Flood Plain] | No |
| Part 1 / Question 20 [Remediation Site] | No |

CERTIFIED To:
 PAWLING SAVINGS BANK
 MARATHON ABSTRACT LTD
 MARIE J. SCHMELTZER



LOT 86
 AREA: 59,155 S.F. OR 1.358 ACRES

SURVEY MAP
 OF
 LOT 86
 OF

KENNICUT HILL ESTATES

SITUATE IN
 TOWN OF CARMEL - PUTNAM COUNTY - NEW YORK

SCALE: 1"=50' DATE: MAY 9, 1985
 UPDATE JAN 10, 1986
 PREPARED FOR UPDATE DEC 15, 1986

MARIE J. SCHMELTZER

PREPARED BY
 WILLIAM F. ZEILER
 PROFESSIONAL ENGINEER & LAND SURVEYOR
 CONCORD ROAD - MAHOPAC - NEW YORK 10541

W. Zeiler







November 16, 2020

Mr. Robert Laga, Chairman
Town of Carmel Environmental Conservation Board
60 McAlpin Avenue
Mahopac, NY 10541

Re: Old Forge Estates
Baldwin Place Road
T.M. 75.15-1-19

Dear Chairman Laga and Members of the Board,

The Old Forge Estates project was a conventional ten (10) lot subdivision that previously received E.C.B. wetland permits. The property owners and project developers decided in 2017 to change the project from a conventional subdivision to a clustered subdivision. As a result, the current project proposes fourteen lots and will disturb roughly 10.5 acres of land. Crossing of the wetland located in the middle of the property has been eliminated and the overall wetland buffer disturbance has been reduced. There will be no disturbance to the wetland proper with this proposed plan.

I look forward to appearing before the Board at their next meeting to show the changes that will be occurring as a result of this layout. The Board should be aware that the access road remains where it has always been shown as there are no viable alternatives.

Sincerely,

PUTNAM ENGINEERING, PLLC

A handwritten signature in black ink, appearing to read 'Paul M. Lynch', written over a horizontal line.

Paul M. Lynch, P.E.
PML/rmm

L1980

APPLICANT: Angelo Mastrantoni
PROPERTY ADDRESS: BALDWIN PLACE ROAD
TAX MAP#: 75.15-1-19

DESCRIPTION OF WORK FOR APPLICATION FOR A WETLAND PERMIT

1. The proposed subdivision road will encroach on the wetland buffer from road station 0+00 to station 2+53 +/- . Related drainage improvements include one set of catch basins that divert road drainage and portions of developed subdivision to our proposed wetland pond. There will be two sets of road catch basins that will collect runoff and divert to two rows of stormwater infiltrators. The first one hundred eight (108') feet of road will drain to and pass through a stormwater filter before entering the wetland.

A portion of the wetland pond will also be constructed in the wetland buffer along with its outlet structure and rip rap emerging spillway.

The Subsurface Sanitary Treatment System will be accessed from a maintenance road that will follow for the most part existing trails. The maintenance drive will consist of two rows of gravel that will be placed in geopave porous pavement system. The access drive will cross the intermittent stream and will have two concrete abutments with concrete slab.

Area of work in buffer: 1.278 acres.

2. Two culvert crossings located on Baldwin Place Road are propose to be replaced. The two existing CMP pipes located north of the proposed subdivision road will be replaced with two 24" x 44" concrete box culverts. The existing 18" x 36" concrete box culvert located south of the proposed subdivision road will be replaced with two 18" x 36" concrete box culverts.

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BOARD MEMBERS

Edward Barnett
Vincent Turano
Anthony Federice

APPLICATION FOR WETLAND PERMIT OR LETTER OF PERMISSION

Name of Applicant: ANGELO MASTRANTONI

Address of Applicant: 23 FRANCIS DRIVE Email: mastrantoni.brothers@gmail.com
KATONAH, NY 10536

Telephone# 914 755 0445 Name and Address of Owner if different from Applicant:

Property Address: BALDWIN PLACE ROAD Tax Map # 75.15-1-19

Agency Submitting Application if Applicable: NA.

Location of Wetland: BALDWIN PLACE ROAD ON EAST SIDE OF STREET JUST NORTH OF MUSCOOT N.

Size of Work Section & Specific Location: 1.2785 ACRES OF BUFFER DISTURBANCE 770 feet NORTH OF MUSCOOT N.

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

Proposed Start Date: - Anticipated Completion Date: - Fee Paid \$ 1,000.00-Pd

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.

Angelo Mastrotola
SIGNATURE

11/10/2020
DATE

Short Environmental Assessment Form

Part 1 - Project Information

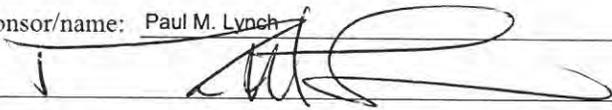
Instructions for Completing

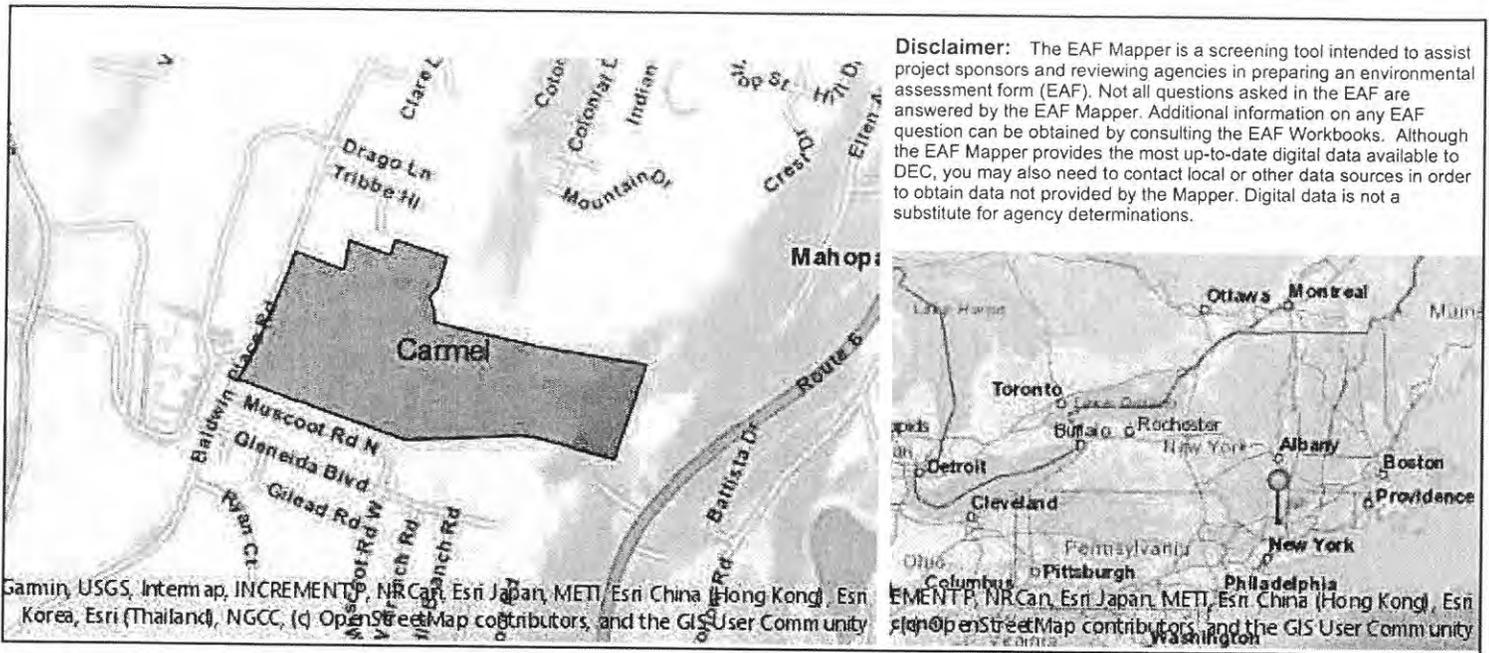
Part 1 – Project Information. The applicant or project sponsor is responsible for the completion of Part 1. Responses become part of the application for approval or funding, are subject to public review, and may be subject to further verification. Complete Part 1 based on information currently available. 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 | | | |
|---|--|---|---------------------------------|
| 14 Lot Clustered Subdivision | | | |
| Name of Action or Project: Old Forge Estates | | | |
| Project Location (describe, and attach a location map): Baldwin Place Road, Mahopac New York | | | |
| Brief Description of Proposed Action: The subdivision will contain 14 clustered lots with each lot averaging 0.42 acres in size. The developed footprint will be on approximately 7.60 acres of the 45.36 acre site. There is an existing Town of Carmel Water District 13 watermain supply pipe that crosses this parcel and will be tapped into to supply water to the 14 residences. There will be an on site community sewage treatment system that will be designed to infiltrate the sewage effluent for all 14 residences. The subdivision access will be located off Baldwin Place Road and occurs in-between town regulated wetlands. No disturbance to the wetlands will occur but there will be 1.2785 acres of wetland buffer disturbed. | | | |
| Name of Applicant or Sponsor: Angelo Mastrantoni | | Telephone: 914 755 0445 E-Mail: mastrantoni.brothers@gmail.com | |
| Address: 23 Francis Drive | | | |
| City/PO: Katonah | | State: New York | Zip Code: 10536 |
| 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. | | | NO <input type="checkbox"/> |
| | | | YES <input type="checkbox"/> |
| 2. Does the proposed action require a permit, approval or funding from any other government Agency? If Yes, list agency(s) name and permit or approval: | | | NO <input type="checkbox"/> |
| | | | YES <input type="checkbox"/> |
| 3. a. Total acreage of the site of the proposed action? | | 45.36 acres | |
| b. Total acreage to be physically disturbed? | | 10.5 acres | |
| c. Total acreage (project site and any contiguous properties) owned or controlled by the applicant or project sponsor? | | 45.36 acres | |
| 4. Check all land uses that occur on, are adjoining or near the proposed action: | | | |
| 5. <input type="checkbox"/> Urban <input type="checkbox"/> Rural (non-agriculture) <input type="checkbox"/> Industrial <input checked="" type="checkbox"/> Commercial <input checked="" type="checkbox"/> Residential (suburban) | | | |
| <input checked="" type="checkbox"/> Forest <input type="checkbox"/> Agriculture <input type="checkbox"/> Aquatic <input checked="" type="checkbox"/> Other(Specify): Mahopac Schools | | | |
| <input type="checkbox"/> Parkland | | | |

| | | | |
|---|---|---|---|
| 5. Is the proposed action, a. A permitted use under the zoning regulations? b. Consistent with the adopted comprehensive plan? | NO <input type="checkbox"/> <input type="checkbox"/> | YES <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> | N/A <input type="checkbox"/> <input type="checkbox"/> |
| 6. Is the proposed action consistent with the predominant character of the existing built or natural landscape? | NO <input type="checkbox"/> | YES <input checked="" type="checkbox"/> | |
| 7. Is the site of the proposed action located in, or does it adjoin, a state listed Critical Environmental Area? If Yes, identify: _____ | NO <input checked="" type="checkbox"/> | YES <input type="checkbox"/> | |
| 8. a. Will the proposed action result in a substantial increase in traffic above present levels? b. Are public transportation services available at or near the site of the proposed action? c. Are any pedestrian accommodations or bicycle routes available on or near the site of the proposed action? | NO <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> | YES <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> | |
| 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 <input checked="" type="checkbox"/> | YES <input type="checkbox"/> | |
| 10. Will the proposed action connect to an existing public/private water supply? If No, describe method for providing potable water: _____ _____ | NO <input type="checkbox"/> | YES <input checked="" type="checkbox"/> | |
| 11. Will the proposed action connect to existing wastewater utilities? If No, describe method for providing wastewater treatment: _____ On site subsurface treatment system _____ | NO <input checked="" type="checkbox"/> | YES <input type="checkbox"/> | |
| 12. a. Does the project site contain, or is it substantially contiguous to, a building, archaeological site, or district which is listed on the National or State Register of Historic Places, or that has been determined by the Commissioner of the NYS Office of Parks, Recreation and Historic Preservation to be eligible for listing on the State Register of Historic Places? b. Is the project site, or any portion of it, located in or adjacent to an area designated as sensitive for archaeological sites on the NY State Historic Preservation Office (SHPO) archaeological site inventory? | NO <input checked="" type="checkbox"/> <input type="checkbox"/> | YES <input type="checkbox"/> <input checked="" type="checkbox"/> | |
| 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 <input type="checkbox"/> <input checked="" type="checkbox"/> | YES <input checked="" type="checkbox"/> <input type="checkbox"/> | |

| | | |
|---|--|--|
| 14. Identify the typical habitat types that occur on, or are likely to be found on the project site. Check all that apply: | | |
| <input type="checkbox"/> Shoreline | <input checked="" type="checkbox"/> Forest | <input type="checkbox"/> Agricultural/grasslands |
| <input checked="" type="checkbox"/> Wetland | <input type="checkbox"/> Urban | <input checked="" type="checkbox"/> 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? | | NO YES |
| Northern Long-eared Bat | | <input type="checkbox"/> <input checked="" type="checkbox"/> |
| 16. Is the project site located in the 100-year flood plan? | | NO YES |
| | | <input checked="" type="checkbox"/> <input type="checkbox"/> |
| 17. Will the proposed action create storm water discharge, either from point or non-point sources? | | NO YES |
| If Yes, | | <input type="checkbox"/> <input checked="" type="checkbox"/> |
| a. Will storm water discharges flow to adjacent properties? | | <input checked="" type="checkbox"/> <input type="checkbox"/> |
| b. Will storm water discharges be directed to established conveyance systems (runoff and storm drains)? | | <input type="checkbox"/> <input checked="" type="checkbox"/> |
| If Yes, briefly describe: | | |
| On site stormwater will be treated (infiltrated for 2 year storm) and attenuated in an on site created wetland pond before discharging to existing storm water conveyance system system owned and maintained by Putnam County Highway and Facilities. | | |
| 18. Does the proposed action include construction or other activities that would result in the impoundment of water or other liquids (e.g., retention pond, waste lagoon, dam)? | | NO YES |
| If Yes, explain the purpose and size of the impoundment: | | |
| There will be on site rain gardens and a created wetland pond that will attenuate storm water runoff in order to keep post drainage peak flows below the pre development flow rates. | | <input type="checkbox"/> <input checked="" type="checkbox"/> |
| 19. Has the site of the proposed action or an adjoining property been the location of an active or closed solid waste management facility? | | NO YES |
| If Yes, describe: | | <input checked="" type="checkbox"/> <input type="checkbox"/> |
| 20. Has the site of the proposed action or an adjoining property been the subject of remediation (ongoing or completed) for hazardous waste? | | NO YES |
| If Yes, describe: | | <input checked="" type="checkbox"/> <input type="checkbox"/> |
| I CERTIFY THAT THE INFORMATION PROVIDED ABOVE IS TRUE AND ACCURATE TO THE BEST OF MY KNOWLEDGE | | |
| Applicant/sponsor/name: Paul M. Lynch | | Date: 11/5/2020 |
| Signature:  | | Title: Principal Engineer |



| | |
|---|---|
| Part 1 / Question 7 [Critical Environmental Area] | No |
| Part 1 / Question 12a [National or State Register of Historic Places or State Eligible Sites] | 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 15 [Threatened or Endangered Animal - Name] | Northern Long-eared Bat |
| Part 1 / Question 16 [100 Year Flood Plain] | No |
| Part 1 / Question 20 [Remediation Site] | No |



July 27, 2017

Mr. Richard Franzetti, P.E.
Town of Carmel Engineer
Carmel Town Hall,
60 McAlpin Ave
Mahopac, NY 10541

Re: Old Forge Estates
Baldwin Place Road
Wetland Flagging

Dear Mr. Franzetti:

Tim Miller Associates have re-flagged the wetlands located on the property. We request that you field walk the property and confirm the flag placements. I have enclosed a copy of their sketch and numbering. Please note that they did not flag the back portion of the large wetland located in the center portion of the property as we are not proposing to develop in that area.

Sincerely,

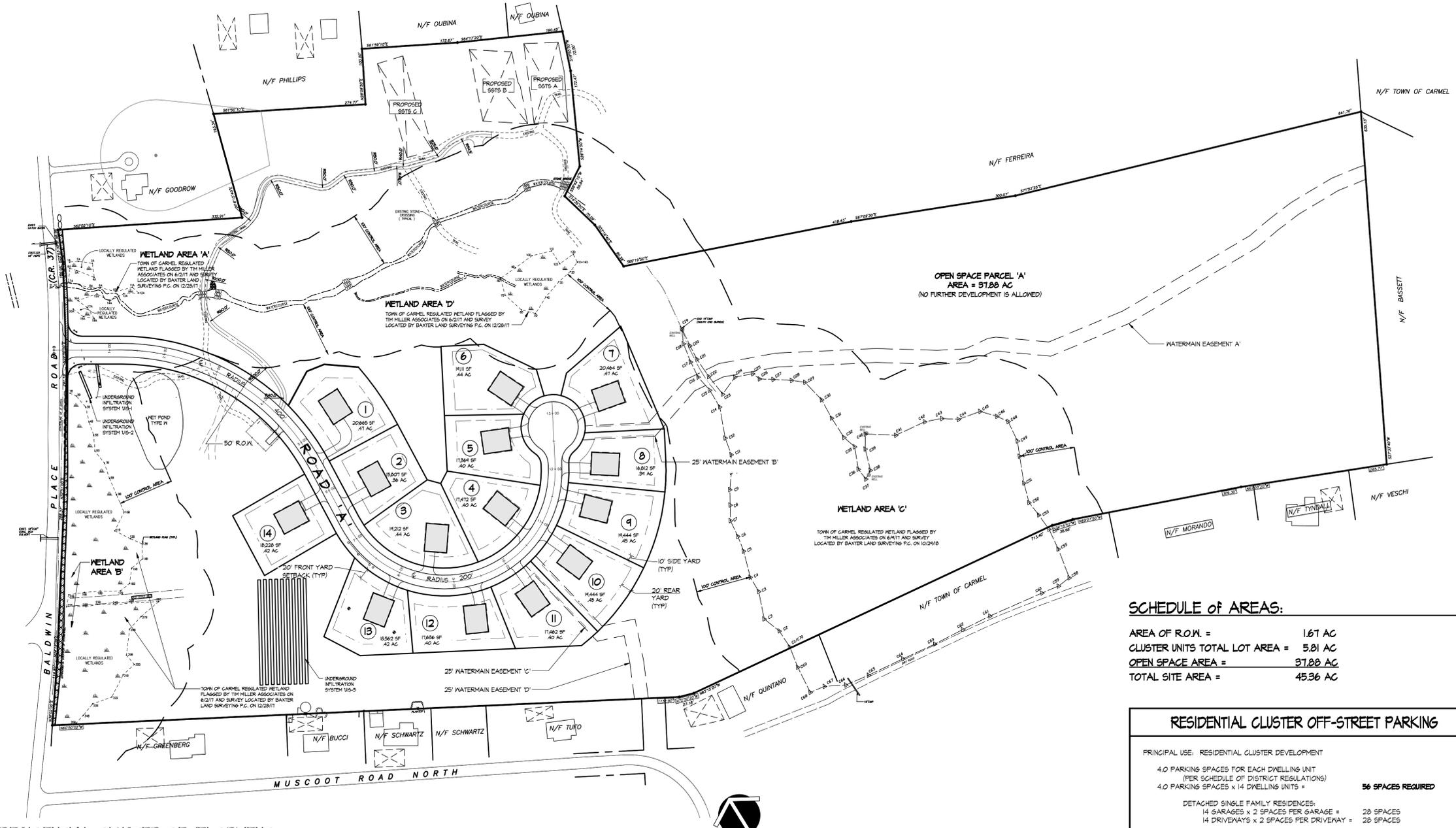
PUTNAM ENGINEERING, PLLC

A handwritten signature in black ink, appearing to read 'P. Lynch', written over a horizontal line.

Paul M. Lynch, P.E.

PML/tal
Enclosure

(L01745)



OPEN SPACE PARCEL 'A'
AREA = 31.88 AC
(NO FURTHER DEVELOPMENT IS ALLOWED)

WETLAND AREA 'C'
TOWN OF CARMEL REGULATED WETLAND FLAGGED BY THE MILLER ASSOCIATES ON 6/21/11 AND SURVEY LOCATED BY BAXTER LAND SURVEYING P.C. ON 12/28/11

WETLAND AREA 'D'
TOWN OF CARMEL REGULATED WETLAND FLAGGED BY THE MILLER ASSOCIATES ON 6/21/11 AND SURVEY LOCATED BY BAXTER LAND SURVEYING P.C. ON 12/28/11

WETLAND AREA 'A'
TOWN OF CARMEL REGULATED WETLAND FLAGGED BY THE MILLER ASSOCIATES ON 6/21/11 AND SURVEY LOCATED BY BAXTER LAND SURVEYING P.C. ON 12/28/11

WETLAND AREA 'B'
TOWN OF CARMEL REGULATED WETLAND FLAGGED BY THE MILLER ASSOCIATES ON 6/21/11 AND SURVEY LOCATED BY BAXTER LAND SURVEYING P.C. ON 12/28/11

RESIDENTIAL CLUSTER DEVELOPMENT:

- CONDITIONS PER CHAPTER 156-45 RESIDENTIAL CLUSTER DEVELOPMENT:
- PERMITTED USES:
 - DWELLING UNITS IN DETACHED, SEMIDETACHED, ATTACHED AND/OR GROUPS OF ATTACHED. DETACHED DWELLING UNITS ARE PROPOSED.
 - QUASI-PUBLIC SOCIAL, RECREATIONAL, AND CULTURAL FEATURES, SUCH AS NEIGHBORHOOD OR COMMUNITY CENTERS, GAME ROOMS, SWIMMING POOLS AND TENNIS COURTS. NO SUCH USES ARE PROPOSED.
 - AREA: A RESIDENTIAL CLUSTER DEVELOPMENT SHALL HAVE A TOTAL SITE AREA OF AT LEAST 20 ACRES IN ONE AGGREGATE OR CONTIGUOUS PARCELS. 49,355 ACRES IS PROVIDED.
 - OVERALL RESIDENTIAL DENSITY: (PER CHAPTER 156-8 DEFINITIONS) 'A' RESIDENTIAL CLUSTER DEVELOPMENT THAT OBTAINS A LOT COUNT THROUGH CONVENTIONAL SUBDIVISION APPROVAL, THEN DEVELOPS THE PARCEL AT THE SAME DENSITY THAT WOULD BE ALLOWED IN THE ZONING DISTRICT IN WHICH THE SITE IS LOCATED, PROVIDED THAT THE REMAINING UNDEVELOPED LAND SHALL BE RESERVED AND IMPROVED FOR PERMANENT OPEN SPACE USE. PROPOSED CLUSTER DEVELOPMENT INCLUDES 14 DETACHED DWELLING UNITS.
 - OPEN SPACE: THERE SHALL BE PROVIDED AT LEAST 35 PERCENT OF THE GROSS AREA OF A RESIDENTIAL CLUSTER DEVELOPMENT FOR OPEN SPACE, EXCLUSIVE OF STREETS OR OTHER PAVED SURFACES. 31.88 ACRES OR 83.5 PERCENT OPEN SPACE IS PROPOSED.
 - HEIGHTS, BULK COVERAGE, LOCATION AND LAND USES: IT IS REQUIRED THAT ALL STAGES OF A RESIDENTIAL CLUSTER DEVELOPMENT BE DEVELOPED ACCORDING TO A COMPREHENSIVE FINAL PLAN FOR THE OVERALL DEVELOPMENT, AS APPROVED BY THE PLANNING BOARD, WHICH SHALL CONFORM TO THE REQUIREMENTS OF THIS CHAPTER AND, IN ADDITION, SHALL BE COMPATIBLE WITH THE OTHER REQUIREMENTS OF THIS CHAPTER FOR RESIDENTIAL OR OTHER LAND USES CONTEMPLATED OR BY COMMON GOOD PRACTICE. REFER TO BULK SCHEDULE FOR PROPOSED REQUIREMENTS.

PRELIMINARY SUBDIVISION PLAN



RESIDENTIAL CLUSTER DENSITY CALCULATION IN ACCORDANCE WITH 156-45E:

THE ACREAGE OF THE PARCEL BEING DEVELOPED WILL BE REDUCED BY TEN (10) PERCENT TO ALLOW FOR ROADS AND UTILITIES. THE REMAINING ACREAGE SHALL THEN BE DIVIDED BY THE MINIMUM LOT AREA FOR THE ZONING DISTRICT IN WHICH THE PARCEL IS LOCATED, THEREFORE:

A. 49,355 ACRES LESS 10% (4,935 ACRES) = 44,420 ACRES

B. (44,420 ACRES x 49,360 SF/ACRE) / 20,000 SF = 14.82 LOTS

THE PROPOSAL IS FOR 14 LOTS WHICH IS EQUAL TO THE MAXIMUM OF 14 LOTS AS CALCULATED.

| TABLE OF EASEMENTS | | | |
|--------------------|-------|----------------|-----------------------------|
| EASEMENT | TYPE | GRANTEE | LOTS ENCUMBERED BY EASEMENT |
| A | WATER | TOWN OF CARMEL | OPEN SPACE PARCEL 'A' |
| B | WATER | TOWN OF CARMEL | LOTS 7 & 8 |
| C | WATER | TOWN OF CARMEL | LOTS 10 & 11 |
| D | WATER | TOWN OF CARMEL | OPEN SPACE PARCEL 'A' |

SCHEDULE OF AREAS:

AREA OF R.O.W. = 1.67 AC
 CLUSTER UNITS TOTAL LOT AREA = 5.81 AC
 OPEN SPACE AREA = 31.88 AC
 TOTAL SITE AREA = 43.36 AC

| RESIDENTIAL CLUSTER OFF-STREET PARKING | |
|--|---------------------------|
| PRINCIPAL USE: RESIDENTIAL CLUSTER DEVELOPMENT | |
| 4.0 PARKING SPACES FOR EACH DWELLING UNIT (PER SCHEDULE OF DISTRICT REGULATIONS) | |
| 4.0 PARKING SPACES x 14 DWELLING UNITS = | 56 SPACES REQUIRED |
| DETACHED SINGLE FAMILY RESIDENCES: | |
| 14 GARAGES x 2 SPACES PER GARAGE = | 28 SPACES |
| 14 DRIVEWAYS x 2 SPACES PER DRIVEWAY = | 28 SPACES |
| | 56 SPACES PROVIDED |

| RESIDENTIAL CLUSTER DEVELOPMENT BULK SCHEDULE | | |
|---|----------|----------------|
| RESIDENTIAL CLUSTER DEVELOPMENT | PROPOSED | PROVIDED (MIN) |
| MIN. LOT AREA (AC) | 0.35 | 0.36 |
| (S.F.) | 15,250 | 15,807 |
| MIN. LOT FRONTAGE (L.F.) | 50 | 51 |
| MIN. LOT WIDTH (FT.) | 90 | 100 |
| MIN. LOT DEPTH (FT.) | 90 | 100 |
| MINIMUM YARDS/SETBACKS | | |
| FRONT (FT.) | 20 | 22.5 |
| SIDE (FT.) | 10 | 12.5 |
| REAR (FT.) | 20 | 35 |
| MAX. BLDG. HEIGHT (FT.) | 35 | < 35 |
| MAX. LOT COVERAGE (%) | 35 | < 35 |
| POOL: | | |
| SIDE YARD SETBACK (FT.) | 10 | 10 |
| REAR YARD SETBACK (FT.) | 10 | 10 |
| DECK: | | |
| SIDE YARD SETBACK (FT.) | 10 | 10 |
| REAR YARD SETBACK (FT.) | 10 | 10 |
| SHED: | | |
| SIDE YARD SETBACK (FT.) | 10 | 10 |
| REAR YARD SETBACK (FT.) | 10 | 10 |
| POOLS AND SHEDS ARE NOT ALLOWED IN THE FRONT YARD | | |

RESIDENTIAL CLUSTER SUBDIVISION NOTES:

- PROJECT SITE TO BE DEVELOPED IN ACCORDANCE WITH CHAPTER 156-45 'RESIDENTIAL CLUSTER DEVELOPMENT' OF THE TOWN OF CARMEL ZONING CODE.
- BOUNDARY INFORMATION FROM SURVEY MAP OF PROPERTY, DATED NOVEMBER 14, 1985 AS PREPARED BY BURGESS & BEHR, L.S.
- TOPOGRAPHIC INFORMATION FROM A SURVEY MAP DATED JANUARY 28, 1986 AS PREPARED BY BURGESS & BEHR, L.S.
- WETLAND LOCATIONS SURVEY LOCATED BY BAXTER LAND SURVEYING, P.C. ON 12/28/11. WETLANDS FLAGGED BY THE MILLER ASSOCIATES ON 6/21/11 AND 6/9/11.
- EXISTING WATERLINE LOCATION BASED ON FIELD SURVEY ON MAY 12, 2007 BY BAXTER LAND SURVEYING, P.C.
- OWNER/APPLICANT: ANGELO MASTRANTONI
23 FRANCES DRIVE
KATONAH, NY 10526
PAUL MASTRANTONI
- CONTACT: (914) 755-0445
- SITE DATA: TOTAL LOT AREA = 1975,697 S.F. (45,355 AC.)
TAX MAP 75-15, BLOCK 1, LOT 19
- ZONING DISTRICT: R - RESIDENTIAL
- PROPOSED USE: RESIDENTIAL CLUSTER DEVELOPMENT - 14 LOTS
- ALL UTILITIES SHALL BE INSTALLED UNDERGROUND AND IN CONFORMANCE WITH LOCAL CODES AND UTILITY COMPANY REQUIREMENTS.
- SEWER SERVICE SHALL BE PROVIDED BY COMMUNITY SUBSURFACE SEWAGE TREATMENT SYSTEM LOCATED ON-SITE AND MAINTAINED AND SERVICED BY HOMEOWNER'S ASSOCIATION. WATER SERVICE SHALL BE PROVIDED BY CONNECTION TO CARMEL WATER DISTRICT #13.
- ALL ON-SITE TRAFFIC CIRCULATION IS TWO-WAY UNLESS NOTED OTHERWISE.
- ALL SIGNAGE SHALL CONFORM TO THE REQUIREMENTS OF CHAPTER 63-II OF THE ZONING CODE OF THE TOWN OF CARMEL.
- ALL EXTERIOR LIGHTING TO BE INSTALLED SHALL BE DOWNWARD DIRECTED AND SHALL NOT RESULT IN LIGHT SPILLING OFF THE SITE.
- THERE ARE NO AREAS PROPOSED TO BE USED FOR OUTDOOR SELLING, DISPLAY OR STORAGE.
- ALL ON-SITE DEBRIS AND GARBAGE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF.
- THE USE OF TOWN WATER FOR IRRIGATION PURPOSES IS PROHIBITED.
- PARCEL 'A' IS OPEN SPACE AND NO FURTHER DEVELOPMENT IS ALLOWED.



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 PUTNAM ENGINEERING PLLC 2018

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."

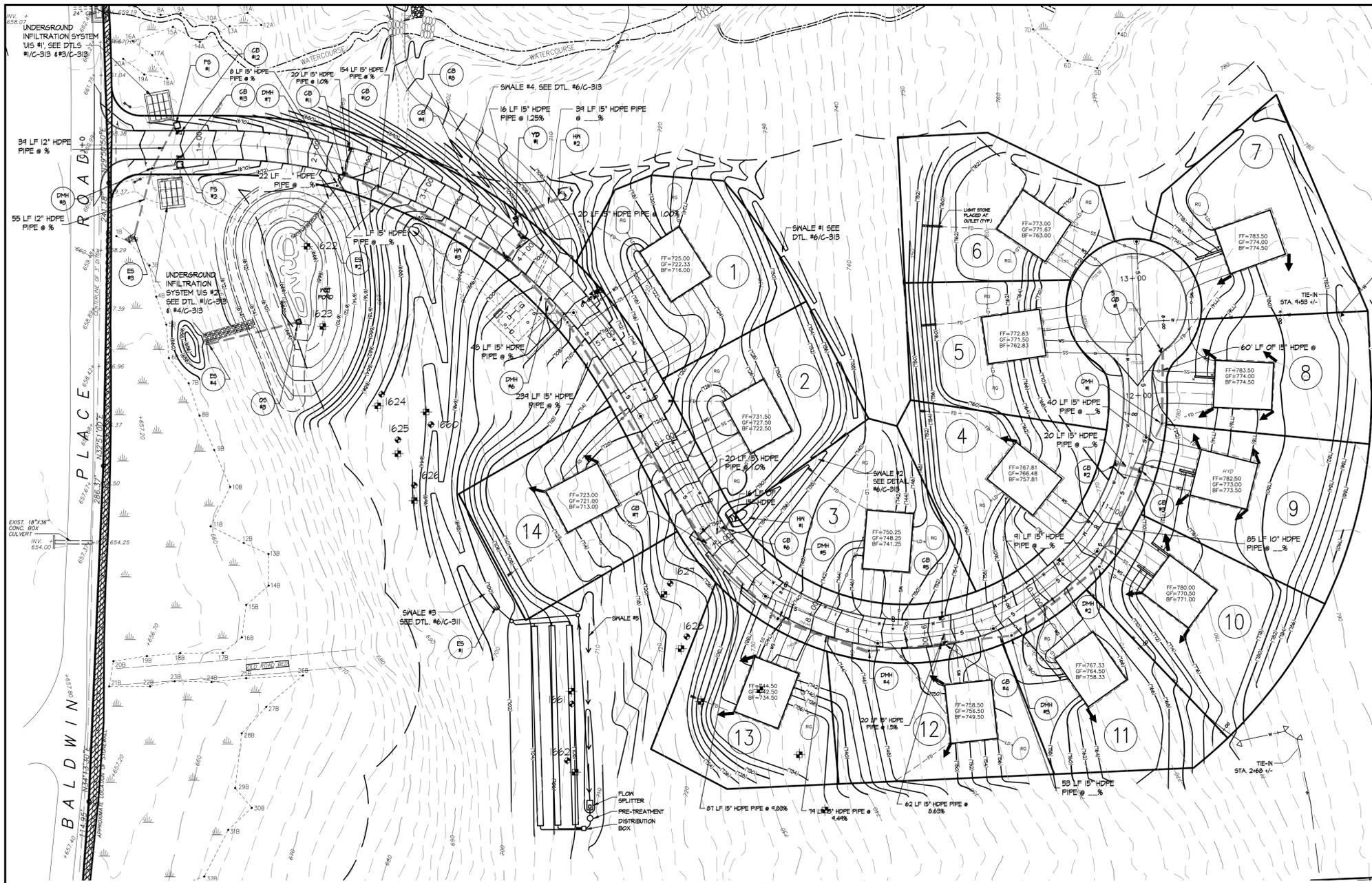
| REVISIONS | | PROJECT | | | |
|-----------|-----------|-----------------------------|-----|------|-------------|
| NO. | DATE | DESCRIPTION | NO. | DATE | DESCRIPTION |
| 1 | 04 NOV 18 | REV. PER B.L.E. TP COMMENTS | | | |
| 2 | 02 OCT 19 | REV. PER TE COMMENTS | | | |
| 3 | 1 MAY 20 | REV. PER TE COMMENTS | | | |
| 4 | 20 AUG 20 | REV. PER TE COMMENTS | | | |

PROPOSED SUBDIVISION PLAN PREPARED FOR:
OLD FORGE ESTATES
 BALDWIN PLACE ROAD
 TOWN OF CARMEL
 PUTNAM COUNTY, NEW YORK
 TAX MAP 75-15-1-19

DATE: 12 APR 18
 PROJECT MANAGER: F.M.L.
 DRAWN BY: B.K.
 CHECKED BY: F.M.L.
 SCALE: AS NOTED

SUBDIVISION PLAN

PROJECT NUMBER: 8286
 DRAWING NUMBER: **G-100**
 SHEET 9 OF 34



- GRADING NOTES:**
- BOUNDARY INFORMATION FROM SURVEY MAP OF PROPERTY, DATED NOVEMBER 14, 1925 AS PREPARED BY BURGESS & BEHR, L.S.
 - TOPOGRAPHIC INFORMATION FROM A SURVEY MAP DATED JANUARY 28, 1926 AS PREPARED BY BURGESS & BEHR, L.S.
 - WETLAND LOCATIONS SURVEY LOCATED BY BAXTER LAND SURVEYING, P.C. ON 12/28/17 AND WETLANDS FLAGGED BY TIM MILLER ASSOCIATES ON 6/2/17 AND 6/9/17.
 - EXISTING WATERLINE LOCATION BASED ON FIELD SURVEY ON MAY 12, 2007 BY BAXTER LAND SURVEYING, P.C.
 - PROVIDE 4 INCHES MINIMUM TOPSOIL, WITH SEED AND MULCH AT ALL DISTURBED AREAS.
 - CONTOUR INTERVAL = 2 FOOT. VERTICAL DATUM - NATIONAL GEODETIC SURVEY STANDARD VERTICAL DATUM OF 1929.
 - IF EXPLOSIVES ARE REQUIRED FOR BLASTING, THEY SHALL BE OF SUCH CHARACTER AND STRENGTH AND IN SUCH AMOUNT AS IS PERMITTED BY THE STATE AND LOCAL LAWS AND ORDINANCES AND ALL RESPECTIVE AGENCIES HAVING JURISDICTION OVER THEM A PERMIT WOULD BE REQUIRED FROM THE TOWN OF CARMEL.

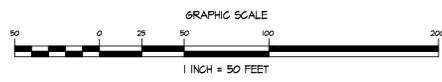
- CONTRACTOR INSTALLATION-SEWER/WATER & DRAINAGE NOTES:**
- THE CONTRACTOR IS TO SET ALL STRUCTURES THAT ARE IN ROAD "A" AT BINDER ELEVATION IN ORDER TO COMPLY WITH THE S/WPPP. ALL STRUCTURES- DMH SMH VALVE COVERS ARE TO BE RAISED USING RINGS WHEN TIME COMES FOR TOP COAT ASPHALT. CATCH BASIN FRAMES AND GRATES WILL HAVE TO BE MANUALLY RESET AT FINISHED GRADE.

| DRAIN NO. | CB #1 | DMH #1 | CB #2 | CB #3 | DMH #2 | DMH #3 | CB #5 | CB #4 | DMH #4 | DMH #5 |
|---------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|
| TYPE | CB | DMH | CB | DMH | DMH | DMH | CB | DMH | DMH | DMH |
| DOWN STREAM DR. NO. | DMH #1 | CB #3 | CB #3 | DMH #2 | DMH #3 | CB #4 | CB #4 | DMH #4 | DMH #5 | CB #1 |
| LENGTH (LF) | 60 | 40 | 20 | 85 | 110.17 | 166.80 | 759.17 | 62 | 74 | 81 |
| T.S. / RIM | T71.80 | T71.80 | T70.17 | T70.17 | T66.80 | T59.80 | T59.17 | T47.50 | T40.00 | T40.00 |
| INV. IN / DR# | N/A | N/A | N/A | 166.65/DMH #1 | 162.00/DMH #2 | 155.95/DMH #3 | N/A | 148.80 | 142.00/DMH #4 | 135.00/DMH #5 |
| INV. IN / DR# | N/A | 148.80 | N/A | N/A |
| INV. OUT / DR# | 168.10/DMH #1 | 161.40/DMH #2 | 166.85/DMH #3 | 165.50/DMH #4 | 161.00/DMH #5 | 155.25/DMH #6 | 150.30/DMH #7 | 141.25/DMH #8 | 144.25/DMH #9 | 134.40/DMH #10 |
| STATION | 12+57 | 11+94 | 11+94 | 10+56 | 9+68 | 4+17 | 4+17 | 8+55 | 1+75 | 1+75 |
| OFFSET | 23' R | 21' R | 12' L | 12' R | 20' R | 21' R | 12' L | 12' R | 17' R | 16.5' R |

| DRAIN NO. | ES #1 | CB #1 | DMH #1 | CB #2 | DMH #2 | CB #3 | DMH #3 | DMH #4 | DMH #5 | DMH #6 | DMH #7 |
|---------------------|--------|---------------|---------------|---------------|--------|----------------|---------------|---------------|----------------|----------------|----------------|
| TYPE | DMH | DMH | DMH | DMH | DMH | DMH | DMH | DMH | DMH | DMH | DMH |
| DOWN STREAM DR. NO. | N/A | DMH #6 | DMH #6 | DMH #6 | DMH #6 | DMH #6 | DMH #6 | DMH #6 | DMH #6 | DMH #6 | DMH #6 |
| LENGTH (LF) | N/A | 215 | 16 | 20 | 72 | 154 | 20 | 16 | 20 | 4 | 10 |
| T.S. / RIM | N/A | T30.61 | T30.50 | T30.61 | T07.00 | 647.51 | 708.0 | 645.50 | 647.51 | 671.25 | 640.00 |
| INV. IN / DR# | N/A | T21.00/DMH #6 | N/A | T21.40/DMH #1 | CB T | 642.25/DMH #2 | N/A | 644.25/DMH #3 | 642.25/DMH #4 | N/A | 674.25/DMH #5 |
| INV. IN / DR# | N/A | T24.50/DMH #6 | N/A | N/A | N/A | 643.25/DMH #6 | N/A | N/A | N/A | N/A | 674.25/DMH #10 |
| INV. OUT / DR# | 649.00 | T24.50/DMH #6 | T21.50/DMH #6 | T21.50/DMH #6 | 649.50 | 642.00/DMH #11 | T04.00/DMH #8 | 642.55/DMH #9 | 614.55/DMH #11 | 614.25/DMH #12 | 606.00/DMH #13 |
| STATION | --- | 6+42 | 6+43 | 6+42 | 4+70 | 3+42 | 3+43 | 3+43 | 3+42 | 2+28 | 2+28 |
| OFFSET | --- | 12' R | 27' L | 12' L | 16' R | 12' R | 59' L | 22' L | 12' L | 12' R | 59' R |

- GRADING & DRAINAGE LEGEND:**
- 534 --- EXISTING CONTOUR
 - 534 --- PROPOSED CONTOUR
 - 534.0+ PROPOSED SPOT ELEVATION
 - PROPOSED OUTLET STRUCTURE
 - PROPOSED CATCH BASIN
 - EXISTING CATCH BASIN
 - PROPOSED DRAINAGE MANHOLE
 - RAIN GARDEN
 - ↑ ROOF LEADER DRAIN DISCHARGE AT GRADE
 - PROPOSED DRAINAGE LINE
 - EXISTING DRAINAGE LINE
 - PROPOSED END SECTION
 - RIP RAP
 - WATER MAIN
 - CHECK DAM

GRADING & DRAINAGE PLAN



- DRAINAGE STRUCTURE SCHEDULE LEGEND:**
- CB - CATCH BASIN
 - CD - CURTAIN DRAIN
 - DMH - DRAINAGE MANHOLE
 - ES - END SECTION
 - FD - FOOTINGS DRAIN
 - HW - HEADWALL
 - OS - OUTLET OR OVERFLOW STRUCTURE
 - RD - ROOF DRAIN
 - YD - YARD DRAIN
 - WV - WATER QUALITY VAULT

| DRAIN NO. | DMH #1 | ES #2 | CB #2 | FS #1 | CB #3 | FS #2 | DMH #3 | ES #3 |
|---------------------|----------------|-------------|-------|---------------|-------|---------------|-------------|-------------|
| TYPE | DMH | END SECTION | CB | FLOW SPLITTER | CB | FLOW SPLITTER | DMH | END SECTION |
| DOWN STREAM DR. NO. | ES 2 | N/A | FS 1 | US/DMH #6 | FS 2 | US/DMH #6 | YD 1 | --- |
| LENGTH (LF) | 20 | N/A | 2 | 40 | 2 | 20 | 12 | --- |
| T.S. / RIM | 671.75 | N/A | --- | --- | --- | --- | 649.00/FS 1 | --- |
| INV. IN / DR# | 674.50/DMH #3 | N/A | --- | --- | --- | --- | N/A | --- |
| INV. IN / DR# | 674.00/DMH #11 | N/A | --- | --- | --- | --- | N/A | --- |
| INV. OUT / DR# | 673.40/ES 2 | 673.00 | FS 1 | 674.2 | FS 2 | 645 | 645.00/YD 1 | --- |
| STATION | 2+25 | 2+5 | 0+83 | 0+81 | 0+83 | 3+85 | 0+44 | --- |
| OFFSET | 22' R | 45' R | 12' R | 16.5' L | 12' L | 16.5' R | 36' L | 76' R |

| DRAIN NO. | CB #1 | ES #4 |
|---------------------|-------|-------|
| TYPE | --- | --- |
| DOWN STREAM DR. NO. | --- | --- |
| LENGTH (LF) | --- | --- |
| T.S. / RIM | --- | --- |
| INV. IN / DR# | --- | --- |
| INV. OUT / DR# | --- | --- |
| STATION | --- | --- |
| OFFSET | --- | --- |

- NOTES:**
- DMH STATIONING AND ELEVATION IS CENTER OF STRUCTURE AT FACE OF CURB.
 - DMH, YD, HW ARE CENTER OF STRUCTURE.

PUTNAM ENGINEERING, PLLC
ENGINEERS - ARCHITECTS

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(845) 274-6704 FAX (845) 274-6764
● PUTNAM ENGINEERING PLLC 2018

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| NO. | DATE | DESCRIPTION | NO. | DATE | DESCRIPTION |
|-----|-----------|------------------------------|-----|------|-------------|
| 1 | 01 NOV 18 | REV. PER BL, TE, TP COMMENTS | | | |
| 2 | 02 OCT 19 | REV. PER TE COMMENTS | | | |
| 3 | 11 MAY 20 | REV. PER TE COMMENTS | | | |

PROJECT: PROPOSED SUBDIVISION PLAN PREPARED FOR:
OLD FORGE ESTATES
BALDWIN PLACE ROAD
TOWN OF CARMEL
PUTNAM COUNTY, NEW YORK
TAX MAP T5.15-1-11

DATE: 12 APR 18
PROJECT MANAGER: [Signature]
DRAWN BY: BJK
CHECKED BY: PML
SCALE: AS NOTED

DRAWING: **GRADING and DRAINAGE PLAN**

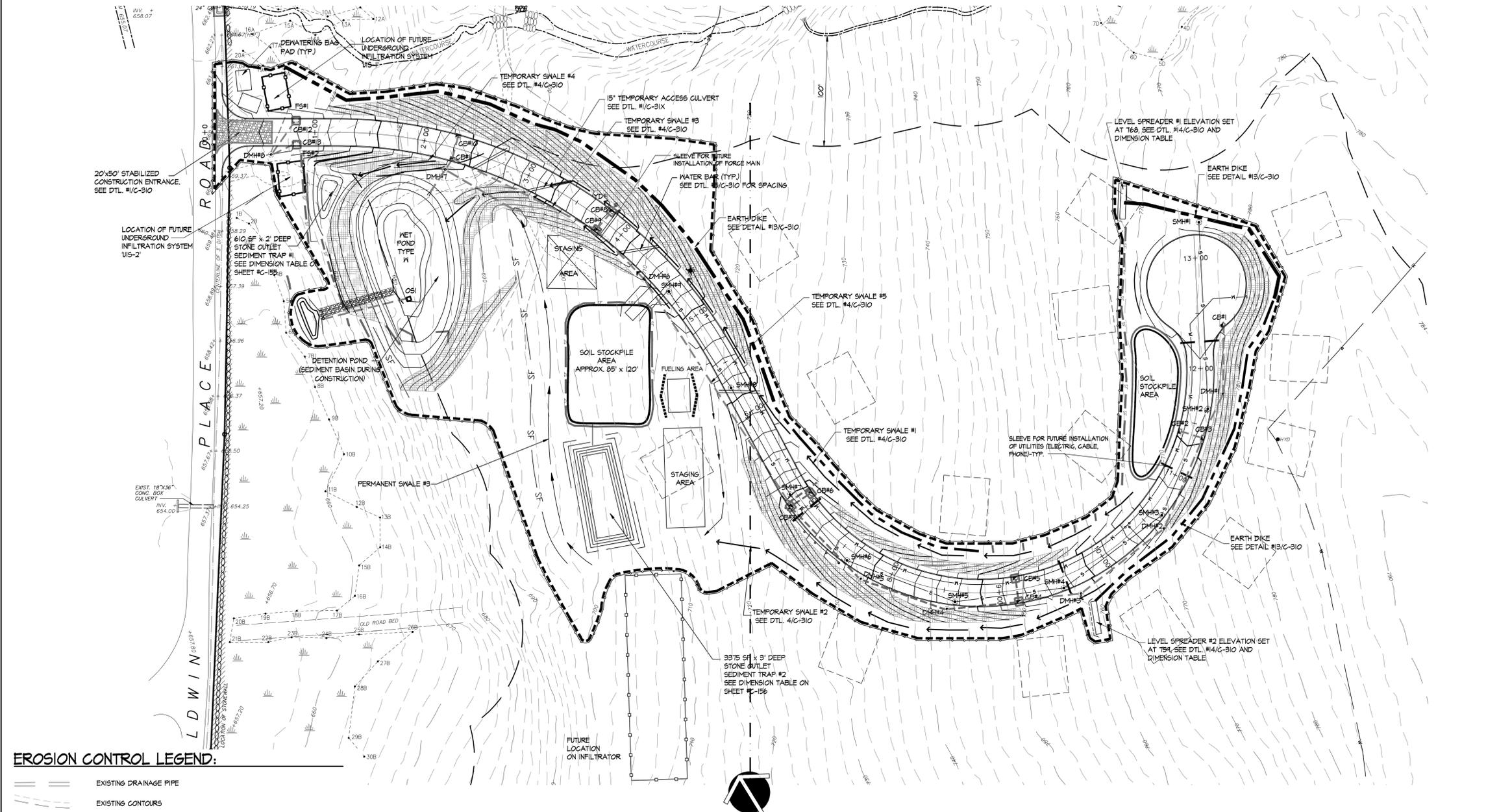
PROJECT NUMBER: 8286
DRAWING NUMBER: **C-120**
SHEET 6 OF 34

SEQUENCE OF CONSTRUCTION:

PHASE IA

ROAD CONSTRUCTION
DISTURBANCE AREA = 4.98 AC.

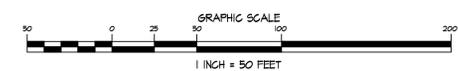
- SURVEY AND STAKE OUT THE ROAD WITH OFFSETS AND LOCATION OF THE PROPOSED DETENTION POND. ESTABLISH LIMITS OF DISTURBANCE AND MARK IN THE FIELD.
- INSTALL CONSTRUCTION FENCES ALONG LIMITS OF DISTURBANCE. VEHICLES TO BE INSPECTED AND LOGGED, IF REQUIRED, PRIOR TO ENTERING BALDWIN PLACE ROAD.
- MARK IN GROUND LOCATION OF FUTURE UNDERGROUND INFILTRATION SYSTEMS US-1 AND US-2. INSTALL ORANGE SAFETY FENCE AROUND PERIMETERS OF THESE PRACTICES. NO EQUIPMENT CAN BE DRIVEN OVER THESE AREAS.
- INSTALL STABILIZED CONSTRUCTION ENTRANCE AS SHOWN ON THE PLAN.
- INSTALL SILT FENCES IMMEDIATELY DOWNGRADE OF AREAS OF PROPOSED DISTURBANCE AS SHOWN ON THE PLAN.
- INSTALL SAND BEDS FOR PLACEMENT OF DENATERING BAGS. SEE DETAIL #10/C-310. THE DENATERING BAGS WOULD BE NEEDED IF THE CONTRACTOR HAS STANDING WATER AFTER RAIN EVENTS.
- CLEAR AREA OF PHASE I FROM STATION 0+00 TO STATION 13+50 AND GRUB TO STA. 10+00. TREE STUMPS SHALL BE FREE FROM ROOTS, VEGETATION AND OVERSIZED STONES. FILL TO BE PLACED IN 12 INCH LIFTS AND COMPACTED TO 95% DRY DENSITY BY MECHANICAL MEANS.
- BRING IN ALL EQUIPMENT AND MATERIALS NECESSARY TO PERFORM PHASE I OF CONSTRUCTION. ESTABLISH STAGING AREA AS SHOWN ON THE PLAN.
- EXCAVATE DETENTION POND TO ACT AS TEMPORARY SEDIMENT BASIN PER DETAIL #16-C-155. CONSTRUCT PERMANENT SWALE #3 LEADING INTO DETENTION POND.
- EXCAVATE ROAD BED FOR ADDITIONAL FILL NECESSARY TO CREATE POND EMBANKMENTS. FILL MATERIAL SHALL BE FREE FROM ROOTS, VEGETATION AND OVERSIZED STONES. FILL TO BE PLACED IN 12 INCH LIFTS AND COMPACTED TO 95% DRY DENSITY BY MECHANICAL MEANS.
- INSTALL OUTLET STRUCTURE #051 ALONG WITH DISCHARGE PIPE. PLUS OUTLET PIPE FROM THE TEMPORARY OUTLET STRUCTURE.
- EXCAVATE STONE OUTLET SEDIMENT TRAPS #1 & #2 WHERE SHOWN ON THE PLAN. REFER TO DIMENSIONAL TABLE ON SHEET #C-155 AND DETAIL #12/C-310.
- THE SEDIMENT BASIN, SEDIMENT TRAPS AND ALL DISTURBED AREAS MUST BE STABILIZED WITHIN ONE (1) WEEK FOLLOWING THE EARTHWORK. NO FURTHER CONSTRUCTION IS ALLOWED BEFORE THESE AREAS ARE STABILIZED.
- ONCE THE TEMPORARY SEDIMENT BASIN IS COMPLETED AND STABILIZED, PROCEED WITH WORK.
- INSTALL TEMPORARY OUTLET WITH TRASH RACK TO OS #1. REMOVE PLUS FROM THE OUTLET PIPE FROM THE OUTLET STRUCTURE OS1.
- INSTALL EARTH DIKE ALONG NORTHERN PERIMETERS OF THE DISTURBANCE FOR THAT PORTION OF THE ROAD LOCATED BETWEEN STA. 0+50 AND 2+75 TO DIVERT CLEAN STORMWATER FROM UNDISTURBED AREAS UPGRADE.
- EXCAVATE TEMPORARY SWALES #1 AND #2 BETWEEN STA. 6+00 AND 10+00 AS SHOWN ON THE PLAN.
- ROUGH GRADE THE ROAD BETWEEN STA. 0+00 AND 6+00. EXCAVATE TEMPORARY SWALES #1 AND #2 ALONG THE ROAD SHOULDERS AS EXCAVATION PROGRESSES AS SHOWN ON THE PLAN.
- INSTALL WATER BARS PER DETAIL #15/C-310.
- EXCAVATED SOIL TO BE DEPOSITED ON THAT PORTION OF THE ROAD WHERE FILL IS REQUIRED (BETWEEN STA. 6+00 AND 10+00). THE ADDITIONAL EXCAVATED SOIL SHALL BE STORED AT STOCKPILE WHERE SHOWN ON THE PLAN. THIS SOIL SHALL BE NEEDED TO CREATE BUILDING FILL PADS ON LOTS II THRU IV (PHASE 3 OF CONSTRUCTION).
- STABILIZE ALL DISTURBED AREAS WITHIN ONE (1) WEEK FOLLOWING THE EARTHWORK. NO FURTHER CONSTRUCTION IS ALLOWED BEFORE THESE AREAS ARE STABILIZED. PLACE 4 INCHES OF TOPSOIL ON EXPOSED SLOPE AND INSTALL EROSION CONTROL BLANKET AS SHOWN IN DETAIL #5/C-310.
- EXCAVATE TRENCHES FOR INSTALLATION OF WATER, STORMWATER AND SEWER PIPES ALONG THE ROAD TO STA. 6+00. INSTALL SEWER MANHOLES SM#4 & SM#1. INSTALL CATCH BASINS CB#1, CB#2, CB#3, CB#4 AND CB#5. MANHOLE DM#4, DM#1, DM#2, DM#3, DM#4, DM#5, DM#6, DM#7, DM#8, DM#9, DM#10, DM#11, DM#12, DM#13, DM#14, DM#15, DM#16, DM#17, DM#18, DM#19, DM#20, DM#21, DM#22, DM#23, DM#24, DM#25, DM#26, DM#27, DM#28, DM#29, DM#30, DM#31, DM#32, DM#33, DM#34, DM#35, DM#36, DM#37, DM#38, DM#39, DM#40, DM#41, DM#42, DM#43, DM#44, DM#45, DM#46, DM#47, DM#48, DM#49, DM#50, DM#51, DM#52, DM#53, DM#54, DM#55, DM#56, DM#57, DM#58, DM#59, DM#60, DM#61, DM#62, DM#63, DM#64, DM#65, DM#66, DM#67, DM#68, DM#69, DM#70, DM#71, DM#72, DM#73, DM#74, DM#75, DM#76, DM#77, DM#78, DM#79, DM#80, DM#81, DM#82, DM#83, DM#84, DM#85, DM#86, DM#87, DM#88, DM#89, DM#90, DM#91, DM#92, DM#93, DM#94, DM#95, DM#96, DM#97, DM#98, DM#99, DM#100. TRENCHES TO BE BACKFILLED IMMEDIATELY UPON COMPLETION OF INSTALLATION OF PIPES AND MANHOLES. EXPOSED SOIL TO BE STABILIZED IMMEDIATELY AFTER BACKFILL. INSTALLATION OF WATER, SEWER AND STORM PIPES SHALL BE PERFORMED CONCURRENTLY.
- RIMS OF STRUCTURES INSTALLED IN PAVED AREAS SHALL BE SET AT BINDER COURSE ELEVATION PER DETAIL #15/C-311. PROTECT CATCH BASIN PER CONSTRUCTION DETAIL. THE STRUCTURES ARE NOT TO RECEIVE ANY STORMWATER FLOW UNTIL ASPHALT BINDER COURSE IS PLACED.
- INSTALL SLEEVE UNDER THE ROAD NEAR STA. 4+20± FOR FUTURE INSTALLATION OF SEWER FORCE MAIN.
- AFTER THE TRENCH WORK IS COMPLETED, INSTALL CONCRETE CURBING FROM STA. 0+00 TO 6+00. INSTALL ITEM 4 AND PAVE WITH BINDER COURSE PER DETAIL #16-C-314 TO STA. 6+00.
- STABILIZE ALL DISTURBED AREAS WITHIN ONE (1) WEEK FOLLOWING THE EARTHWORK. NO FURTHER CONSTRUCTION IS ALLOWED BEFORE THESE AREAS ARE STABILIZED.
- PROCEED WITH GRUBBING/STUMPING THE ROAD FROM STA. 10+00 TO THE END (STA. 13+20).
- INSTALL ADDITIONAL SILT FENCES WHERE SHOWN ON THE PLAN.
- EXTEND TEMPORARY SWALES AS SHOWN ON THE PLAN.
- EXCAVATE LEVEL SPREADER #1 AND #2 WHERE SHOWN ON THE PLAN. INSTALL EARTH DIKE ALONG EASTERLY PERIMETERS OF THE DISTURBANCE FOR THAT PORTION OF THE ROAD LOCATED BETWEEN STA. 4+60 AND 9+20 TO DIVERT CLEAN STORMWATER FROM UNDISTURBED AREAS UPGRADE. FLOW FROM THE DIKES SHALL TERMINATE AT THE PROVIDED LEVEL SPREADERS.
- GRADE THE ROAD FROM STA. 6+00 TO 10+00. FILL TO BE PLACED IN 12 INCH LIFTS AND COMPACTED TO 95 PERCENT DRY DENSITY BY MECHANICAL MEANS.
- ROUGH GRADE ROAD AND CUL-DE-SAC TO STA. 13+20. TRUCK OUT THE EXCAVATED SOIL OFF THE SITE.
- CONTINUE WATER BAR INSTALLATION AS ROAD GRADING PROGRESSES.
- STABILIZE ALL DISTURBED AREAS WITHIN ONE (1) WEEK FOLLOWING THE EARTHWORK. NO FURTHER CONSTRUCTION IS ALLOWED BEFORE THESE AREAS ARE STABILIZED. PLACE 4 INCHES OF TOPSOIL ON EXPOSED SLOPES AND INSTALL EROSION CONTROL BLANKET AS SHOWN IN DETAIL #5/C-310.
- EXCAVATE TRENCHES FOR INSTALLATION OF WATER, STORMWATER AND SEWER PIPES ALONG THE ROAD FROM STA. 6+00 TO STA. 13+50. INSTALL SEWER MANHOLES SM#1 TO SM#7. INSTALL CATCH BASINS CB#1 TO CB#7. MANHOLES DM#1, DM#2, DM#3, DM#4, DM#5, DM#6, DM#7, DM#8, DM#9, DM#10, DM#11, DM#12, DM#13, DM#14, DM#15, DM#16, DM#17, DM#18, DM#19, DM#20, DM#21, DM#22, DM#23, DM#24, DM#25, DM#26, DM#27, DM#28, DM#29, DM#30, DM#31, DM#32, DM#33, DM#34, DM#35, DM#36, DM#37, DM#38, DM#39, DM#40, DM#41, DM#42, DM#43, DM#44, DM#45, DM#46, DM#47, DM#48, DM#49, DM#50, DM#51, DM#52, DM#53, DM#54, DM#55, DM#56, DM#57, DM#58, DM#59, DM#60, DM#61, DM#62, DM#63, DM#64, DM#65, DM#66, DM#67, DM#68, DM#69, DM#70, DM#71, DM#72, DM#73, DM#74, DM#75, DM#76, DM#77, DM#78, DM#79, DM#80, DM#81, DM#82, DM#83, DM#84, DM#85, DM#86, DM#87, DM#88, DM#89, DM#90, DM#91, DM#92, DM#93, DM#94, DM#95, DM#96, DM#97, DM#98, DM#99, DM#100. TRENCHES TO BE BACKFILLED IMMEDIATELY UPON COMPLETION OF INSTALLATION OF PIPES AND MANHOLES. EXPOSED SOIL TO BE STABILIZED IMMEDIATELY AFTER BACKFILL. TEST WATER MAIN. TO LIMIT WORK WITHIN ROAD ROW, INSTALLATION OF STORMWATER, WATER AND STORM PIPES SHALL BE PERFORMED CONCURRENTLY.
- RIMS OF STRUCTURES INSTALLED IN PAVED AREAS SHALL BE SET AT BINDER COURSE ELEVATION PER DETAIL #15/C-311. PROTECT CATCH BASIN PER CONSTRUCTION DETAIL. THE STRUCTURES ARE NOT TO RECEIVE ANY STORMWATER FLOW UNTIL ASPHALT BINDER COURSE IS PLACED.
- AFTER THE TRENCH WORK IS COMPLETED, INSTALL CONCRETE CURB AND ITEM 4. THE PROPOSED ROAD SHALL BE PAVED WITH BINDER COURSE PER DETAIL #16-C-314 TO STA. 13+20. TEST SEWER MAINS AND MANHOLES.
- NO FURTHER CONSTRUCTION IS ALLOWED BEFORE ALL DISTURBED AREAS AS DESCRIBED IN PHASE I OF SEQUENCE OF CONSTRUCTION ARE STABILIZED.



EROSION CONTROL LEGEND:

- EXISTING DRAINAGE PIPE
- EXISTING CONTOURS
- PROPOSED CONTOURS
- STABILIZED CONSTRUCTION ENTRANCE
- TEMPORARY STAGING AREA
- LIMITS OF DISTURBANCE
- EARTH DIKE
- TEMPORARY SOIL STOCKPILE
- INLET PROTECTION
- SILT FENCE
- EROSION CONTROL BLANKET
- CONSTRUCTION FENCE
- ORANGE SAFETY FENCE
- CHECK DAM
- LEVEL SPREADER
- TEMPORARY SWALE

EROSION & SEDIMENT CONTROL PLAN - PHASE IA



TEMPORARY SEDIMENT TRAP & BASIN VOLUMES

- SEDIMENT BASIN:
CONTRIBUTING AREA AT PHASE I- 1.05 AC
REQUIRED VOLUME (ALL PHASES) = 30380 CF
VOLUME PROVIDED-46354 CF
SEDIMENT REMOVAL ELEVATION- 674.24
- SEDIMENT TRAP #1:
CONTRIBUTING AREA- 0.22 AC
REQUIRED VOLUME- 3600 CF PER ACRE X 0.22 ACRES = 792 CF
PROVIDED- 795 CF
SEDIMENT REMOVAL ELEVATION- 643.20
- SEDIMENT TRAP #2:
CONTRIBUTING AREA- 0.71 AC
REQUIRED VOLUME- 3600 CF PER ACRE X 0.71 ACRES = 2556 CF
PROVIDED- 2610 CF
SEDIMENT REMOVAL ELEVATION- 642.67

TEMPORARY SWALE DIMENSIONAL CHART

REFER TO DETAIL #4/C-310

| SWALE # | BOTTOM WIDTH (FT) | DEPTH (FT) | SIDE SLOPE (FT/FT) | LENGTH (FT) | SLOPE (%) |
|---------|-------------------|------------|--------------------|-------------|-----------|
| 1 | 1.0 | 0.75 | 2:1 | 750 | 11.0 |
| 2 | 1.0 | 0.75 | 2:1 | 610 | 11.8 |
| 3 | 1.0 | 1.0 | 2:1 | 360 | 11.1 |
| 4 | 1.0 | 0.75 | 2:1 | 80 | 2.5 |
| 5 | 1.0 | 1.25 | 2:1 | 120 | 2.1 |

LEVEL SPREADER DIMENSIONS

REFER TO DETAIL #18/C-310

| LEVEL SPREADER # | G _s (CFS) | DEPTH (INCH) | WIDTH (FT) | LENGTH (FT) |
|------------------|----------------------|--------------|------------|-------------|
| 1 | 0.97 | 6 | 3 | 10 |
| 2 | 2.18 | 6 | 3 | 20 |

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ENGINEERS - ARCHITECTS
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● PUTNAM ENGINEERING PLLC 2018

PURSUANT TO NEW YORK STATE EDUCATION LAW, ARTICLE 145, SECTION 2209 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 | NO. | DATE | DESCRIPTION |
|-----|-----------|------------------------------|-----|------|-------------|
| 1 | 04 NOV 18 | REV. PER BI, TE, TP COMMENTS | | | |
| 2 | 02 OCT 18 | REV. PER TE COMMENTS | | | |
| 3 | 11 MAY 20 | REV. PER TE COMMENTS | | | |

PROJECT: PROPOSED SUBDIVISION PLAN PREPARED FOR:
OLD FORGE ESTATES
BALDWIN PLACE ROAD
TOWN OF CARMEL
PUTNAM COUNTY, NEW YORK
TAX MAP 75.15-1-14

DATE: 12 APR 18
PROJECT MANAGER: PML
DRAWN BY: BJK
CHECKED BY: PML
SCALE: AS NOTED

DRAWING: **EROSION and SEDIMENT CONTROL PLAN PHASE IA**
PROJECT NUMBER: 8286
DRAWING NUMBER: **C-150**
SHEET 18 OF 34

SEQUENCE OF CONSTRUCTION:

PHASE I B
DISTURBANCE AREA= 1.99 AC

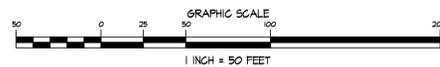
1. INSTALL CONSTRUCTION FENCING AND SILT FENCING IN THE LOCATIONS SHOWN ON THIS PLAN.
2. SURVEYOR TO FIELD STAKE PORTIONS OF MAINTENANCE DRIVE THAT NEEDS TO BE CONSTRUCTED.
3. CONTRACTOR TO CUT IN MAINTENANCE ACCESS DRIVE OFF SUBDIVISION ROAD AT STATION 4+95.1. INSTALL CONSTRUCTION ENTRANCE. EXTEND STONE DRIVING COURSE TO TOP OF EMBANKMENT PAST H.M. 2.
4. CONTRACTOR TO EXCAVATE FOR AND INSTALL ABUTMENTS FOR STREAM CROSSING AND INSTALL SLEEVES UNDER STREAMBED FOR FORCE MAINS TO BE PULLED THROUGH. IF THE STREAM AND STREAMBED IS DRY THE CONTRACTOR CAN EXCAVATE AND INSTALL SLEEVES FOR FUTURE FORCE MAIN. IF THERE IS WATER RUNNING THE CONTRACTOR WILL HAVE TO EXCAVATE 2 FITS ON BOTH SIDES OF STREAM TO HOE-RAM SLEEVES FROM ONE SIDE TO THE OTHER.
5. INSTALL PRE-FAB CONCRETE SLAB OVER ABUTMENTS.
6. CONTRACTOR TO CLEAR (CUT TREES, BRUSH) WHERE THE MAINTENANCE DRIVE WILL DEVIATE FROM THE EXISTING TRAVEL WAY.
7. CONTRACTOR TO CUT AND CLEAR FOR SEPTIC AREAS A, B AND C.
8. CONTRACTOR TO GRUB (STUMP) SYSTEM A AND B AND HAUL STUMPS OFF SITE. STORE TOPSOIL WHERE SHOWN.
9. CONTRACTOR TO HAUL 150 cu yd OF R.O.B. TO SYSTEM A AND B AND INSTALL FOR LEVELING PURPOSES.
10. CONTRACTOR TO INSTALL SYSTEM 'A' FIELDS FOLLOWED BY SYSTEM 'B' FIELDS, DISTRIBUTION BOXES AND FORCE MAINS.
11. HAVE SURVEYOR FIELD SURVEY FIELD INSTALLATIONS, DISTRIBUTION BOXES AND FORCE MAIN. PROVIDE PERMANENT TIES (MONUMENTS) FOR AS-BUILT.
12. HAVE P.C.H.D. INSPECT FIELD INSTALLATIONS, ONCE APPROVED, BACKFILL, TOPSOIL, SEED AND MULCH.
13. MOVE TO SYSTEM 'C' AND REPEAT STEPS 8-12.
14. CONTRACTOR TO INSTALL THE 3 FORCEMAINS AND PRESSURE GROUT SLEEVE IN WHICH FORCEMAIN IS INSTALLED UNDER STREAM, 35 L.F. MIN. WITH 10' BEYOND STREAM BANK MIN. IF FORCEMAIN WAS TRENCHED THEN ENCASE IN CONCRETE, SAME LENGTH. THERE ARE TO BE NO PIPE JOINTS 25 FEET FROM STREAM CENTER LINE IN BOTH DIRECTIONS.
15. CONTRACTOR TO EXCAVATE AND INSTALL GEOPAVE POROUS PAVEMENT SYSTEM (LARGE CELL) AS MANUFACTURED BY PRESTO GEOSYSTEMS OR APPROVED EQUAL.
16. SEED AND MULCH ALL DISTURBED AREAS.

EROSION CONTROL LEGEND:

- EXISTING DRAINAGE PIPE
- EXISTING CONTOURS
- PROPOSED CONTOURS
- STABILIZED CONSTRUCTION ENTRANCE
- TEMPORARY STAGING AREA
- LIMITS OF DISTURBANCE
- EARTH DIKE
- TEMPORARY SOIL STOCKPILE
- INLET PROTECTION
- SILT FENCE
- EROSION CONTROL BLANKET
- CONSTRUCTION FENCE
- ORANGE SAFETY FENCE
- CHECK DAM
- LEVEL SPREADER
- TEMPORARY STAKE



EROSION & SEDIMENT CONTROL PLAN - PHASE I B



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| REVISIONS | | PROJECT | | | |
|-----------|-----------|------------------------------|-----|------|-------------|
| NO. | DATE | DESCRIPTION | NO. | DATE | DESCRIPTION |
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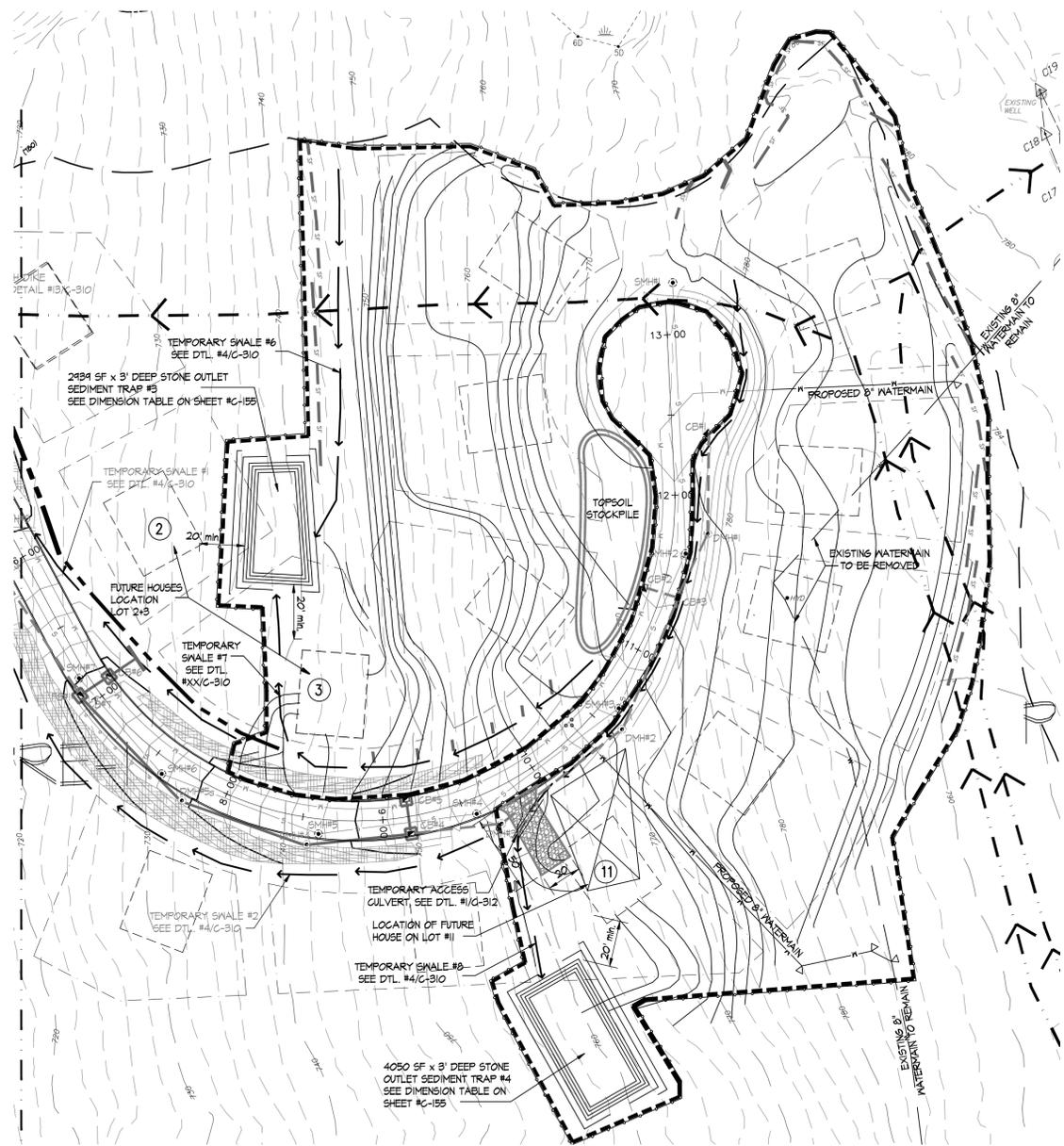
PROPOSED SUBDIVISION PLAN PREPARED FOR:
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BALDWIN PLACE ROAD
TOWN OF CARMEL
PUTNAM COUNTY, NEW YORK
TAX MAP 15.15-1-14

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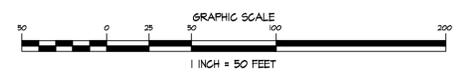
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PROJECT MANAGER: PML
DRAWN BY: BJK
CHECKED BY: PML
SCALE: AS NOTED

DRAWING:
EROSION and SEDIMENT CONTROL PLAN PHASE I B

PROJECT NUMBER: 8286
DRAWING NUMBER: **C-151**
SHEET 14 OF 34



EROSION & SEDIMENT CONTROL PLAN - PHASE 2



TEMPORARY SEDIMENT TRAP VOLUMES

1. SEDIMENT TRAP #3
CONTRIBUTING AREA- 1.4 AC
REQUIRED VOLUME- 3600 CF PER ACRE X 1.4 ACRES = 6840 CF
PROVIDED- 6881 CF
SEDIMENT REMOVAL ELEVATION- 136.65
2. SEDIMENT TRAP #4
CONTRIBUTING AREA- 2.5 AC
REQUIRED VOLUME- 3600 CF PER ACRE X 2.5 ACRES = 9000 CF
PROVIDED- 9263 CF
SEDIMENT REMOVAL ELEVATION- 154.65

SEQUENCE OF CONSTRUCTION:

- PHASE 2**
DISTURBANCE AREA = 4.56 AC.
1. ESTABLISH LIMITS OF DISTURBANCE AND MARK IN THE FIELD. INSTALL CONSTRUCTION FENCE ALONG LIMITS OF DISTURBANCE.
 2. INSTALL STABILIZED CONSTRUCTION ENTRANCE NEAR STA. 10+00 OF THE CONSTRUCTED ROAD. INSTALL TEMPORARY ACCESS CULVERT FOR FUTURE TEMPORARY SWALE #8 CROSSING THE STABILIZED CONSTRUCTION ENTRANCE. REFER TO DETAIL #1/G-310.
 3. INSTALL ADDITIONAL SILT FENCE IMMEDIATELY DOWNGRADE OF AREAS OF PROPOSED DISTURBANCE AS SHOWN ON THE PLAN.
 4. CLEAR AND GRUB AREA OF PHASE 2 TO THE LIMITS OF DISTURBANCE SHOWN ON THE PLAN.
 5. BRING IN ALL EQUIPMENT AND MATERIALS NECESSARY TO PERFORM PHASE 2 OF CONSTRUCTION. ESTABLISH STAGING AREA AS SHOWN ON THE PLAN. CONTRACTOR WILL CONTINUE TO USE YARD AREA AND FUELING AREA ESTABLISHED IN PHASE 1.
 6. CLEAR AND PREPARE AREA FOR THE PROPOSED CONSTRUCTION. STRIP TOPSOIL AND STORE USABLE ORGANIC MATERIAL AT STOCKPILE. PROVIDE STOCKPILE PROTECTION PER DETAIL #3/G-310.
 7. STAKE OUT CORNERS OF THE FUTURE HOUSES ON LOTS #2, 3, 4, 11 AS SHOWN ON THE PLAN. EXCAVATE SEDIMENT TRAPS #3 & 4. THE TRAPS SHALL NOT BE LOCATED CLOSER THAN 20 FEET FROM THE STAKED OUT BUILDING CORNERS.
 8. EXCAVATE TEMPORARY SWALES #6, 7 & 8.
 9. STABILIZE ALL DISTURBED AREAS AS DESCRIBED IN "STABILIZATION NOTES" WITHIN ONE (1) WEEK FOLLOWING THE EARTHWORK. NO FURTHER CONSTRUCTION IS ALLOWED BEFORE THESE AREAS ARE STABILIZED.
 10. CONTRACTOR TO START CUT/FILL OPERATIONS.
 11. EXCAVATE THE SITE EAST OF THE CONSTRUCTED ROAD. DEPOSIT EXCAVATED SOIL WEST OF THE PROPOSED ROAD. TRUCKS SHALL NOT CROSS THE ROAD. THE SOIL TRANSPORTATION SHALL BE DONE OVER LAND NORTH OF THE CUL-DE-SAC.
 12. INSTALL WATERMAIN SEGMENTS FROM ROAD TO THE EXISTING WATERMAIN AS OUTLINED IN "WATERMAIN INSTALLATION SEQUENCE OF CONSTRUCTION". PERFORM TESTING AND THEN TIE IN. AS EXCAVATION PROGRESSES, REMOVE ABANDONED SECTION OF WATERMAIN.
 13. CREATE YARDS AND BUILDING PADS FOR THE FUTURE HOUSE CONSTRUCTION. WHERE FILL IS NEEDED TO CREATE THE PADS IT SHOULD BE FREE FROM ROOTS, VEGETATION AND OVERSIZED STONES. FILL TO BE PLACED IN 12 INCH LIFTS AND COMPACTED TO 95 PERCENT DRY DENSITY BY MECHANICAL MEANS.
 14. STABILIZE ALL AREAS DISTURBED IN PHASE 2 OF CONSTRUCTION AS DESCRIBED IN "STABILIZATION NOTES" WITHIN ONE (1) WEEK FOLLOWING THE EARTHWORK. NO FURTHER CONSTRUCTION IS ALLOWED BEFORE THESE AREAS ARE STABILIZED.

ON-SITE POLLUTION CONTROL MEASURES:

1. THERE SHALL BE A RECEPTACLE PLACED ON THE SITE TO TEMPORARILY STORE GARBAGE, DEBRIS OR CONSTRUCTION WASTE MATERIAL. THE CONTAINER SHALL NOT BE USED TO TRANSFER ANY GARBAGE FROM ANY OTHER OFF-SITE ACTIVITY.
2. THE RECORD OWNER SHALL BE RESPONSIBLE FOR KEEPING THE SITE FREE OF LITTER AT ALL TIMES. DURING CONSTRUCTION ACTIVITIES THE OWNER MAY DESIGNATE A CONTRACTOR IN CHARGE AS A RESPONSIBLE PARTY.
3. THE SITE SHALL BE INSPECTED AT THE END OF EACH WORKDAY AND TRASH DEBRIS AND GARBAGE SHALL BE PICKED UP AND PLACED IN ON-SITE DUMPSTERS OR OTHERWISE REMOVED FROM THE SITE.
4. A PORTABLE TOILET FACILITY SHALL BE PROVIDED FOR CONSTRUCTION WORKERS AND AN ADDITIONAL FACILITY FOR EVERY 10 ON-SITE WORKERS.
5. CONSTRUCTION VEHICLES SHALL BE SERVICED OFF-SITE AT A PROPER FACILITY. LEAKING OR ILL REPAIRED VEHICLES SHALL NOT BE LOCATED ON SITE. NO OIL CHANGES ARE PERMITTED ON SITE. FUELING OF VEHICLES ON SITE SHALL BE CAREFULLY PERFORMED WITH AN APPROVED DISPENSER NOZZLE HOSE AND PUMP. SPILLS SHALL PROMPTLY BE REPORTED TO THE NYSDEC AND TOWN. OIL ABSORBENT PADS AND ROLLS SHALL BE USED TO TEMPORARILY CONTAIN ANY SPILLS.
6. CHEMICAL SOIL ADDITIVES OR HERBICIDES SHALL NOT BE USED ON SITE DURING CONSTRUCTION.
7. THE CONTAINERS SHALL BE OF SUFFICIENT SIZE FOR THE CONSTRUCTION ACTIVITY. CONTAINERS SHALL BE EMPLOYED BY AN APPROVED CARTER TO A PROPER FACILITY WHEN FULL. CONTAINERS SHALL BE COVERED TO PREVENT INFILTRATION OF RAIN AND TO PREVENT WIND BORNE DEBRIS REMOVAL.
8. PAINTS, CHEMICALS OR OTHER TOXIC SUBSTANCES SHALL NOT BE PLACED IN TRASH CONTAINERS. PAINTS, CHEMICALS OR TOXIC SUBSTANCES SHALL BE REMOVED FROM SITE BY AN APPROVED LICENSED CARTER.
9. THERE SHALL BE NO OPEN FIRES OR BARREL FIRES PERMITTED.
10. DEBRIS OR TRASH PILES ARE NOT PERMITTED. DEBRIS SHALL BE PLACED IN CONTAINERS. TEMPORARY PILES OF BRUSH OR STUMPS SHALL BE PROTECTED BY SILT FENCE SIMILAR TO TOPSOIL STOCKPILES.

TEMPORARY SWALE DIMENSIONAL CHART
REFER TO DETAIL #4/G-310

| SWALE # | BOTTOM WIDTH (FT) | DEPTH (FT) | SIDE SLOPE (FT/FT) | LENGTH (FT) | SLOPE (%) |
|---------|-------------------|------------|--------------------|-------------|-----------|
| 1 | 1.0 | 0.75 | 2:1 | 130 | 11.0 |
| 2 | 1.0 | 0.75 | 2:1 | 610 | 11.8 |
| 3 | 1.0 | 1.0 | 2:1 | 360 | 11.1 |
| 4 | 1.0 | 0.75 | 2:1 | 80 | 2.3 |
| 5 | 1.0 | 1.25 | 2:1 | 120 | 2.1 |
| 6 | 2.0 | 1.25 | 2:1 | 230 | 4.3 |
| 7 | 1.0 | 1.25 | 2:1 | 320 | 8.8 |
| 8 | 2.0 | 1.25 | 2:1 | 485 | 9.5 |

VEHICLE & EQUIPMENT FUELING and WET NOZZLE REPORT:

- DESCRIPTION AND PURPOSE**
VEHICLE EQUIPMENT FUELING PROCEDURES AND PRACTICES ARE DESIGNED TO PREVENT FUEL SPILLS AND LEAKS, AND REDUCE OR ELIMINATE CONTAMINATION OF STORMWATER. THIS CAN BE ACCOMPLISHED BY FUELING IN DESIGNATED AREAS ONLY, IMPLEMENTING SPILL CONTROLS, AND TRAINING EMPLOYEES AND SUBCONTRACTORS IN PROPER FUELING PROCEDURES.
- SUITABLE APPLICATIONS**
THESE PROCEDURES ARE SUITABLE ON ALL CONSTRUCTION SITES WHERE VEHICLE AND EQUIPMENT FUELING TAKES PLACE.
- LIMITATIONS**
ONSITE VEHICLE AND EQUIPMENT FUELING SHOULD ONLY BE USED WHERE IT IS IMPRACTICAL TO SEND VEHICLES AND EQUIPMENT OFFSITE FOR FUELING.
- IMPLEMENTATION**
- DISCOURAGE "TOPPING-OFF" OF FUEL TANKS.
 - ABSORBENT SPILL CLEANUP MATERIALS AND SPILL KITS SHALL BE AVAILABLE IN FUELING AREAS AND ON FUELING TRUCKS, AND SHOULD BE DISPOSED OF PROPERLY AFTER USE.
 - DRIP PANS OR ABSORBENT PADS SHOULD BE USED DURING VEHICLE AND EQUIPMENT FUELING, UNLESS THE FUELING IS PERFORMED OVER AN IMPERMEABLE SURFACE IN A DESIGNATED FUELING AREA.
 - USE ABSORBENT MATERIALS ON SMALL SPILLS. DO NOT HOSE DOWN OR BURY THE SPILL. REMOVE THE ADSORBENT MATERIALS PROMPTLY AND DISPOSE OF PROPERLY.
 - AVOID MOBILE FUELING OF MOBILE CONSTRUCTION EQUIPMENT AROUND THE SITE. RATHER, TRANSPORT THE EQUIPMENT TO DESIGNATED FUELING AREAS. WITH THE EXCEPTION OF TRACKED EQUIPMENT SUCH AS BULLDOZERS AND LARGE EXCAVATORS, MOST VEHICLES SHOULD BE ABLE TO TRAVEL TO A DESIGNATED AREA WITH LITTLE LOST TIME.
 - EMPLOYEES AND SUBCONTRACTORS SHALL BE TRAINED IN PROPER FUELING AND CLEANUP PROCEDURES.
 - WHEN FUELING MUST TAKE PLACE OUTSIDE, DESIGNATE AN AREA AWAY FROM DRAINAGE COURSES TO BE USED.
 - DEDICATED FUELING AREAS SHOULD BE PROTECTED FROM STORMWATER RUNOFF AND RAINFALL, AND SHOULD BE LOCATED AT LEAST 50 FEET AWAY FROM DRAINAGE FACILITIES AND WATERCOURSES. FUELING MUST BE PERFORMED ON LEVEL-GRADE AREAS.
 - PROTECT FUELING AREAS WITH BERMES AND DIKES TO PREVENT RUNOFF, AND TO CONTAIN SPILLS.
 - NOZZLE USED IN VEHICLE AND EQUIPMENT FUELING SHOULD BE EQUIPPED WITH AN AUTOMATIC SHUTOFF TO CONTROL DRIPS. FUELING OPERATIONS SHOULD NOT BE LEFT UNATTENDED.
 - FEDERAL, STATE AND LOCAL REQUIREMENTS SHOULD BE OBSERVED FOR ANY STATIONARY ABOVE GROUND STORAGE TANKS.
- INSPECTION AND MAINTENANCE**
- VEHICLES AND EQUIPMENT SHOULD BE INSPECTED EACH DAY OF USE FOR LEAKS. LEAKS SHOULD BE REPAIRED IMMEDIATELY OR PROBLEM VEHICLES OR EQUIPMENT SHOULD BE REMOVED FROM THE PROJECT SITE.
 - KEEP AMPLE SUPPLIES OF SPILL CLEANUP MATERIALS ON-SITE.
 - IMMEDIATELY CLEAN UP SPILLS AND PROPERLY DISPOSE OF CONTAMINATED SOIL AND CLEANUP MATERIALS.

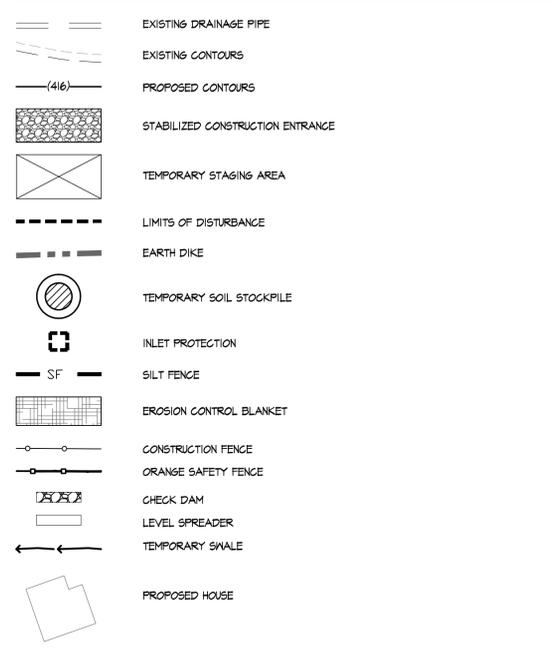
STABILIZATION NOTES:

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 200 LBS/AC.
 - D. INCORPORATE AMENDMENTS INTO SOIL WITH DISC HARROW.
 - E. SEED AS FOLLOWS:
SPRING/SUMMER/EARLY FALL PLANTING: ANNUAL RYEGRASS AND CEREAL OATS @ 80 LBS./AC.
LATE FALL/EARLY WINTER PLANTING: ARCTOSTOON WINTER RYE @ 100 LBS./AC.
2. PERMANENT VEGETATIVE COVER.
 - 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.
 - E. FERTILIZE WITH 10-6-4 AT RATE 200 LBS/AC.
 - F. SEED AS FOLLOWS:
TYPE I FOR USE ON MOVED AREAS (INCLUDING SWALES):
SEED LBS./AC.
KENTUCKY BLUE GRASS 20
CREEPING RED FESCUE 25
RED TOP OR RYE GRASS 5
TYPE II FOR USE ON BASIN SIDE SLOPES AND ON NON-MOVED AREAS- USE "ERINX-178" SEED MIX (ERINX CONSERVATION SEEDS, LLP) OR EQUIVALENT. SEEDS INCLUDED IN THE MIX ARE LISTED BELOW. APPLICATION RATE IS LBS/ACRE.
GOLDENROD INDIAN GRASS OX EYE SUNFLOWER
BIG BLUESTEM VIRGINIA WILD RYE BLACK EYED SUSAN
LITTLE BLUESTEM FOX SEDGE SOFT RUSH
BLUE INDIGO PARTRIDGE PEA RIVERBANK WILDRYE
SILKY DOGWOOD BLUE VERVAIN BLUE VERVAIN DEERTONGUE
3. WILDFLOWER AREAS TO BE MOVED ONCE PER YEAR IN LATE FALL.
4. MULCH SEED WITH 2 TONS OF STRAW PER ACRE. ANCHOR AS NEEDED.
5. 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.
6. DURING DRY WEATHER CONSTRUCTION, ALL SEEDED AREAS ARE TO BE ADEQUATELY WATERED TO ENSURE VEGETATED COVER.
7. FOR SEEDINGS AND PLANTING WITHIN THE MICROPOOL EXTENDED DETENTION POND, REFER TO DRAWING #C-161 (STORMWATER STRUCTURES LANDSCAPING PLAN).
8. AFTER ESTABLISHMENT OF DENSE, VIGOROUS VEGETATION, PHOSPHORUS BASED FERTILIZERS SHALL NOT BE USED. ONLY NON-PHOSPHORUS BASED FERTILIZER MAY BE APPLIED TO THE LAWNS AND GRASSSED AREAS.

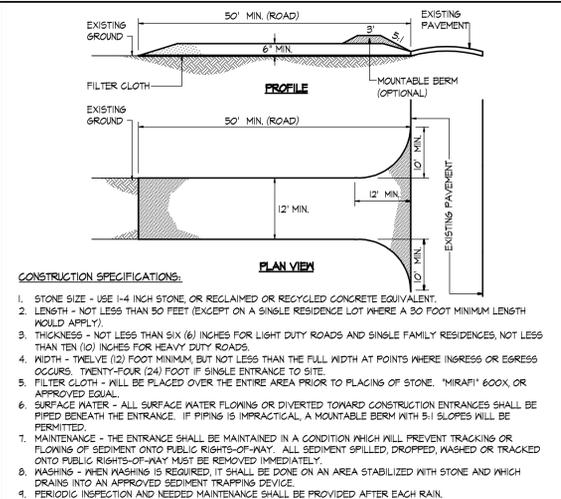
GENERAL NOTES:

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 BOX 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. AREAS UNDERGOING EARTHWORK, WHERE SOIL IS TO BE LEFT EXPOSED FOR MORE THAN FIFTEEN DAYS, SHALL BE STABILIZED WITH EITHER TEMPORARY OR PERMANENT VEGETATIVE COVER. TEMPORARY COVER SHALL BE USED WHEN THE PROJECT SCHEDULE DOES NOT COINCIDE WITH THE OPTIMUM PLANTING SEASON. IN GENERAL, OPTIMUM PLANTING TIMES FOR GRASSES ARE MARCH 15TH TO MAY 31ST AND SEPTEMBER 1ST TO NOVEMBER 15TH. DURING OPTIMUM PLANTING TIMES PERMANENT VEGETATIVE COVER WILL BE INSTALLED. SEE SPECIFICATIONS FOR FURTHER DETAILS.
4. THE PROJECT OWNER / DEVELOPER OR DESIGNATED REPRESENTATIVE SHALL ARRANGE A PRE-CONSTRUCTION MEETING INVITING ALL INVOLVED REVIEW AGENCIES AND ENGINEERS OF RECORD PRIOR TO START OF CONSTRUCTION ACTIVITIES.
5. TEMPORARY MEASURES SHALL BE MAINTAINED BY PROJECT OWNER / DEVELOPER OR A DESIGNATED REPRESENTATIVE (SUCH AS THE GENERAL CONTRACTOR) DURING THE ENTIRE CONSTRUCTION PERIOD AND UNTIL RESPONSIBILITIES ARE TRANSFERRED TO THE HOMEOWNERS ASSOCIATION (HOA). THE HOA WILL THEN TAKE CHARGE OF ALL MAINTENANCE ACTIVITIES OF THE PERMANENT STORMWATER MANAGEMENT/TREATMENT COMPONENTS AND STRUCTURES.
DEVELOPER/OWNER:
ANGELO MASTRANTONI
25 FRANCES DRIVE
KATONAH, NY 12526
CONTACT: PAUL MASTRANTONI
(914) 755-0445
6. THE PROJECT OWNER / DEVELOPER OR DESIGNATED REPRESENTATIVE SHALL RETAIN THE SERVICE OF QUALIFIED PERSONNEL (LICENSED PROFESSIONAL ENGINEER, CERTIFIED PROFESSIONAL IN EROSION & SEDIMENT CONTROL-CPECS OR SOIL SCIENTIST) TO PERFORM SITE INSPECTIONS DURING THE CONSTRUCTION PERIOD AND FINAL SITE INSPECTION AT PROJECT COMPLETION.
7. THE CONTRACTOR SHALL MAKE AVAILABLE ON SITE ALL EQUIPMENT, MATERIALS AND LABOR NECESSARY TO EFFECT EMERGENCY REPAIR AND REPLACEMENT OF THE EROSION CONTROL MEASURES.
8. 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.
9. THE CONTRACTOR IS RESPONSIBLE FOR CONTROLLING DUST BY SPRINKLING EXPOSED AREAS PERIODICALLY WITH WATER.
10. THE PROJECT OWNER / DEVELOPER OR DESIGNATED REPRESENTATIVE SHALL KEEP INSPECTION REPORTS AND LOSS AT THE SITE. A SUMMARY OF INSPECTION ACTIVITIES SHALL BE POSTED AT A PUBLICLY ACCESSIBLE AREA OF THE SITE ON A MONTHLY BASIS.
11. PRIOR TO START OF CONSTRUCTION ACTIVITIES, THE PROJECT OWNER / DEVELOPER OR DESIGNATED REPRESENTATIVE SHALL CERTIFY ON THE INSPECTION LOG THAT A SWPPP HAS PROPERLY PREPARED FOR THE PROJECT AND CONFORMS TO ALL FEDERAL, STATE AND LOCAL EROSION & SEDIMENT CONTROL REQUIREMENTS.
12. THE PROJECT OWNER / DEVELOPER OR DESIGNATED REPRESENTATIVE SHALL PROVIDE A PHONE NUMBER TO THE DIRECTOR OF CODE ENFORCEMENT FOR USE IN EMERGENCY SITUATIONS.
13. THE OWNER/DEVELOPER SHALL MAINTAIN THE CONSTRUCTION SITE FREE OF DEBRIS, LITTER AND CONSTRUCTION CHEMICALS. A DUMPSTER SHALL BE LOCATED ON THE SITE AND PICK UP ARRANGED WHEN IT IS FULL.

EROSION CONTROL LEGEND:

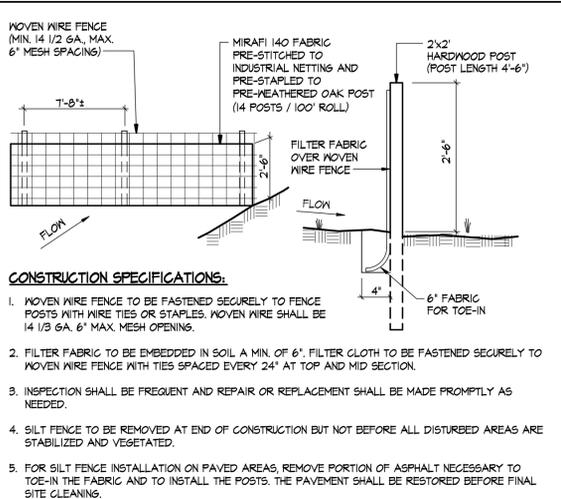


| <p>PUTNAM ENGINEERING, PLLC ENGINEERS - ARCHITECTS</p> <p>4 OLD ROUTE 6, BREWSTER, NEW YORK 10504 (845) 274-6189 FAX (845) 274-6164 ● PUTNAM ENGINEERING PLLC 2016</p> | <p>PURSUANT TO NEW YORK STATE EDUCATION LAW, ARTICLE 145, SECTION 7209 SUBDIVISION 2, "IT IS A VIOLATION OF THIS LAW FOR ANY PERSON 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."</p> | <p>REVISIONS</p> <table border="1"> <thead> <tr> <th>NO.</th> <th>DATE</th> <th>DESCRIPTION</th> <th>NO.</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>04 NOV 18</td> <td>REV. PER B.L. TR COMMENTS</td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>02 OCT 19</td> <td>REV. PER TE COMMENTS</td> <td></td> <td></td> <td></td> </tr> <tr> <td>3</td> <td>11 MAY 20</td> <td>REV. PER TE COMMENTS</td> <td></td> <td></td> <td></td> </tr> </tbody> </table> | NO. | DATE | DESCRIPTION | NO. | DATE | DESCRIPTION | 1 | 04 NOV 18 | REV. PER B.L. TR COMMENTS | | | | 2 | 02 OCT 19 | REV. PER TE COMMENTS | | | | 3 | 11 MAY 20 | REV. PER TE COMMENTS | | | | <p>PROJECT</p> <p>PROPOSED SUBDIVISION PLAN PREPARED FOR:</p> <p>OLD FORGE ESTATES</p> <p>BALDWIN PLACE ROAD TOWN OF CARMEL PUTNAM COUNTY, NEW YORK TAX MAP 75-15-1-19</p> | <p>DATE</p> <p>12 APR 18</p> <p>PROJECT MANAGER</p> <p>FML</p> <p>DRAWN BY</p> <p>B.K</p> <p>CHECKED BY</p> <p>FML</p> <p>SCALE</p> <p>AS NOTED</p> | <p>DRAWING</p> <p>EROSION and SEDIMENT CONTROL PLAN PHASE 2</p> | <p>PROJECT NUMBER</p> <p>8286</p> <p>DRAWING NUMBER</p> <p>C-152</p> <p>SHEET 15 OF 34</p> |
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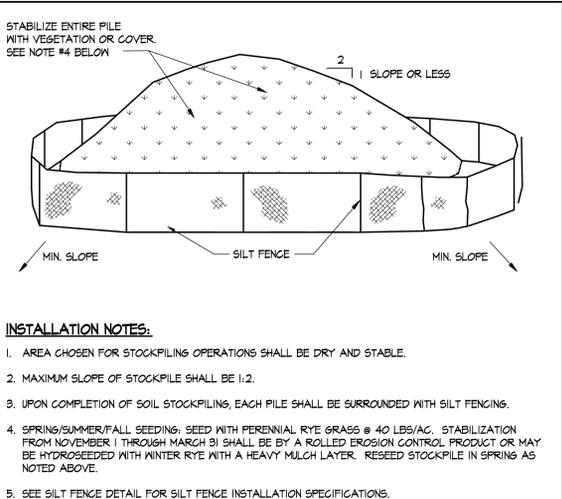
1 STABILIZED CONSTRUCTION ENTRANCE DTL.
C-310 N.T.S.

- CONSTRUCTION SPECIFICATIONS:**
- STONE SIZE - USE 1-4 INCH STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
 - LENGTH - NOT LESS THAN 50 FEET EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30 FOOT MINIMUM LENGTH WOULD APPLY.
 - THICKNESS - NOT LESS THAN SIX (6) INCHES FOR LIGHT DUTY ROADS AND SINGLE FAMILY RESIDENCES, NOT LESS THAN TEN (10) INCHES FOR HEAVY DUTY ROADS.
 - WIDTH - TWELVE (12) FOOT MINIMUM BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS. TWENTY-FOUR (24) FOOT IF SINGLE ENTRANCE TO SITE.
 - FILTER CLOTH - WILL BE PLACED OVER THE ENTIRE AREA ABOVE TO PLACINGS OF STONE, "MIRAFI" 600X, OR APPROVED EQUAL.
 - SURFACE WATER - ALL SURFACE WATER FLOWS OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED BENEATH THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
 - 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.
 - WASHING - WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
 - PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.



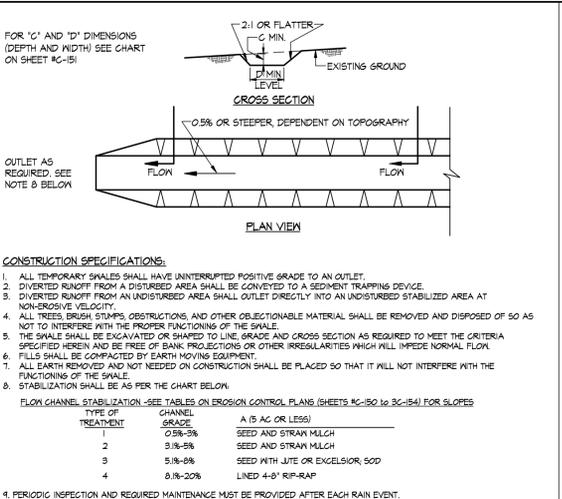
2 SILT FENCE DETAILS
C-310 N.T.S.

- CONSTRUCTION SPECIFICATIONS:**
- MOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES. MOVEN WIRE SHALL BE 14 1/2 GA. 6' MAX. MESH OPENINGS.
 - FILTER FABRIC TO BE EMBEDDED IN SOIL A MIN. OF 6". FILTER CLOTH TO BE FASTENED SECURELY TO MOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION.
 - INSPECTION SHALL BE FREQUENT AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
 - SILT FENCE TO BE REMOVED AT END OF CONSTRUCTION BUT NOT BEFORE ALL DISTURBED AREAS ARE STABILIZED AND VEGETATED.
 - 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.



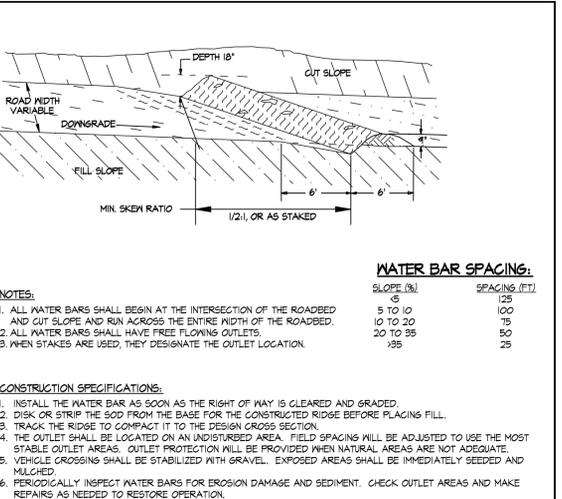
3 TOPSOIL STOCKPILE DETAIL
C-310 N.T.S.

- INSTALLATION NOTES:**
- AREA CHOSEN FOR STOCKPILE OPERATIONS SHALL BE DRY AND STABLE.
 - MAXIMUM SLOPE OF STOCKPILE SHALL BE 1:2.
 - UPON COMPLETION OF SOIL STOCKPILING, EACH PILE SHALL BE SURROUNDED WITH SILT FENCING.
 - SPRING/SUMMER/FALL SEEDING: SEED WITH PERENNIAL RYE GRASS @ 40 LBS./AC. STABILIZATION FROM NOVEMBER 1 THROUGH MARCH 31 SHALL BE BY A ROLLED EROSION CONTROL PRODUCT OR MAY BE HYDROSEEDING WITH WINTER RYE WITH A HEAVY MULCH LAYER. RESEED STOCKPILE IN SPRING AS NOTED ABOVE.
 - SEE SILT FENCE DETAIL FOR SILT FENCE INSTALLATION SPECIFICATIONS.



4 TEMPORARY SWALE DETAILS
C-310 N.T.S.

- CONSTRUCTION SPECIFICATIONS:**
- ALL TEMPORARY SWALES SHALL HAVE UNINTERRUPTED POSITIVE GRADE TO AN OUTLET.
 - DIVERTED RUNOFF FROM A DISTURBED AREA SHALL BE CONVEYED TO A SEDIMENT TRAPPING DEVICE.
 - DIVERTED RUNOFF FROM AN UNDISTURBED AREA SHALL OUTLET DIRECTLY INTO AN UNDISTURBED STABILIZED AREA AT NON-EROSIVE VELOCITY.
 - ALL TREES, BRUSH, STUMPS, OBSTRUCTIONS, AND OTHER OBJECTIONABLE MATERIAL SHALL BE REMOVED AND DISPOSED OF SO AS NOT TO INTERFERE WITH THE PROPER FUNCTIONING OF THE SWALE.
 - THE SWALE SHALL BE EXCAVATED OR SHAPED TO LINE, GRADE AND CROSS SECTION AS REQUIRED TO MEET THE CRITERIA SPECIFIED HEREIN AND BE FREE OF BANK PROJECTIONS OR OTHER IRREGULARITIES WHICH WILL IMPED EROSION.
 - FILLS SHALL BE COMPACTED BY EARTH MOVING EQUIPMENT.
 - ALL EARTH REMOVED AND NOT NEEDED ON CONSTRUCTION SHALL BE PLACED SO THAT IT WILL NOT INTERFERE WITH THE FUNCTIONING OF THE SWALE.
 - STABILIZATION SHALL BE AS PER THE CHART BELOW.
- | TYPE OF TREATMENT | CHANNEL GRADE | A (5 AC OR LESS) |
|-------------------|---------------|----------------------------------|
| 1 | 0.5%-2% | SEED AND STRAW MULCH |
| 2 | 3%-5% | SEED AND STRAW MULCH |
| 3 | 5%-8% | SEED WITH LITE OR EXCELISOR, SOD |
| 4 | 8%-20% | LINED 4'-8" RIP-RAP |
9. PERIODIC INSPECTION AND REQUIRED MAINTENANCE MUST BE PROVIDED AFTER EACH RAIN EVENT.

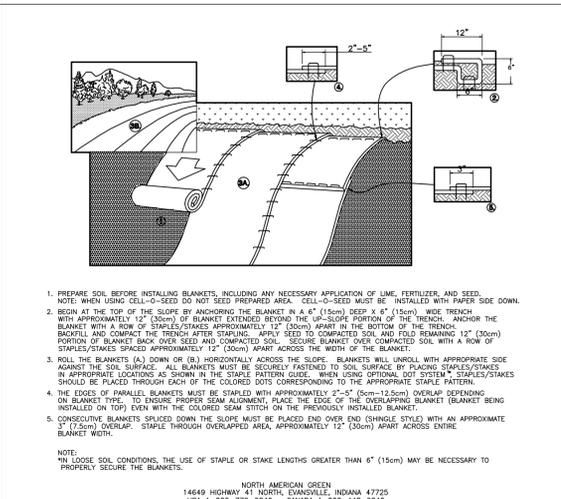


5 WATER BAR DETAIL
C-310 N.T.S.

- CONSTRUCTION SPECIFICATIONS:**
- INSTALL THE WATER BAR AS SOON AS THE RIGHT OF WAY IS CLEARED AND GRADED.
 - DISK OR STRIP THE SOIL FROM THE BASE OF THE CONSTRUCTED RIDGE BEFORE PLACING FILL.
 - TRACK THE RIDGE TO COMPACT IT TO THE DESIGN CROSS SECTION.
 - THE OUTLET SHALL BE LOCATED ON AN UNDISTURBED AREA. FIELD SPACING WILL BE ADJUSTED TO USE THE MOST STABLE OUTLET AREAS. OUTLET PROTECTION WILL BE PROVIDED WHEN NATURAL AREAS ARE NOT ADEQUATE.
 - VEHICLE CROSSINGS SHALL BE STABILIZED WITH GRAVEL. EXPOSED AREAS SHALL BE IMMEDIATELY SEEDED AND MULCHED.
 - PERIODICALLY INSPECT WATER BARS FOR EROSION DAMAGE AND SEDIMENT. CHECK OUTLET AREAS AND MAKE REPAIRS AS NEEDED TO RESTORE OPERATION.

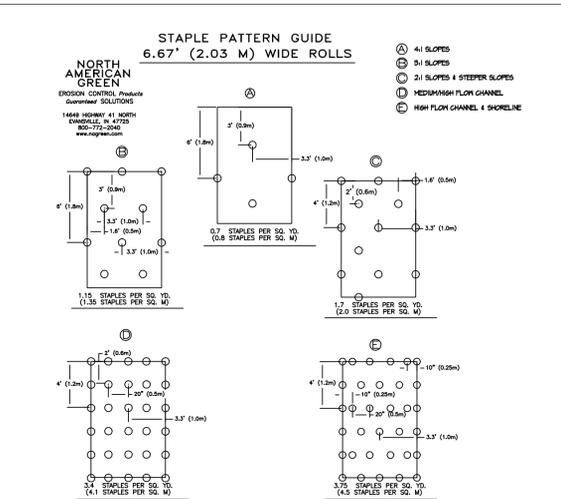
WATER BAR SPACING:

| SLOPE (%) | SPACING (FT) |
|-----------|--------------|
| 5 | 125 |
| 5 TO 10 | 100 |
| 10 TO 20 | 75 |
| 20 TO 35 | 50 |
| 35 | 25 |



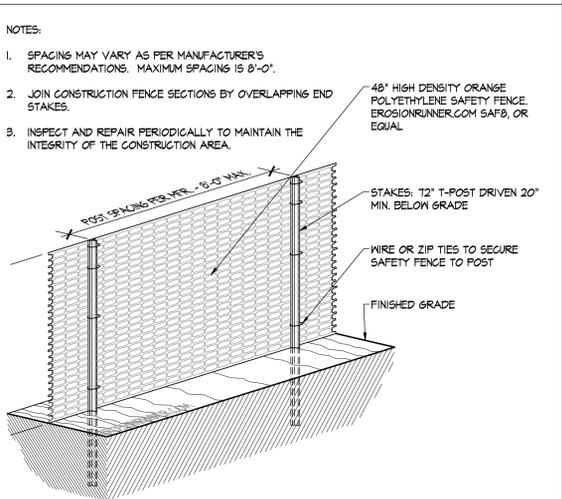
6 EROSION CONTROL BLANKET INSTAL. DTL.
C-310 N.T.S.

- CONSTRUCTION SPECIFICATIONS:**
- PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED. NOTE: WHEN USING CELL-O-SEED DO NOT SEED PREPARED AREA. CELL-O-SEED MUST BE INSTALLED WITH PAPER SIDE DOWN.
 - BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN A 6" (15cm) DEEP X 6" (15cm) WIDE TRENCH WITH APPROXIMATELY 12" (30cm) OF BLANKET EXTENDING BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE BLANKET WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30cm) APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH. AFTER SEEDING TO COMPLETION, SOIL AND FILL REMAINING 12" (30cm) PORTION OF BLANKET BACK OVER SEED AND COMPACTED SOIL. SECURE BLANKET OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAPLES SPACED APPROXIMATELY 12" (30cm) APART ACROSS THE WIDTH OF THE BLANKET.
 - ROLL THE BLANKETS (A) DOWN OR (B) HORIZONTALLY ACROSS THE SLOPE. BLANKETS WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL BLANKETS MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING OPTIONAL DOT SYSTEM, STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLOURED KNOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.
 - THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH APPROXIMATELY 2"-5" (5cm-12.5cm) OVERLAP DEPENDENT ON BLANKET TYPE. TO ENSURE PROPER SEAM ALIGNMENT, PLACE THE EDGE OF THE OVERLAPPING BLANKET BEING INSTALLED ON TOP EVEN WITH THE COLOURED SEAM STITCH ON THE PREVIOUSLY INSTALLED BLANKET.
 - CONSECUTIVE BLANKETS SPUN DOWN THE SLOPE MUST BE PLACED END OVER END (HORIZONTAL STITCH) WITH AN APPROXIMATE 3" (7.5cm) OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" (30cm) APART ACROSS ENTIRE BLANKET WIDTH.
- NOTE: IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" (15cm) MAY BE NECESSARY TO PROPERLY SECURE THE BLANKETS.



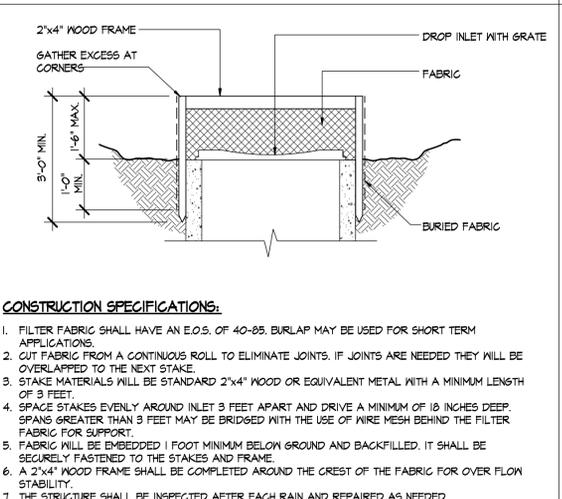
7 EROSION CONTROL BLANKET STAPLE PATTERNS
C-310 N.T.S.

- CONSTRUCTION SPECIFICATIONS:**
- 4:1 SLOPES
 - 3:1 SLOPES
 - 2:1 SLOPES & STEEPER SLOPES
 - MEDIUM-HIGH FLOW CHANNEL
 - HIGH FLOW CHANNEL & SHOULDERLINE



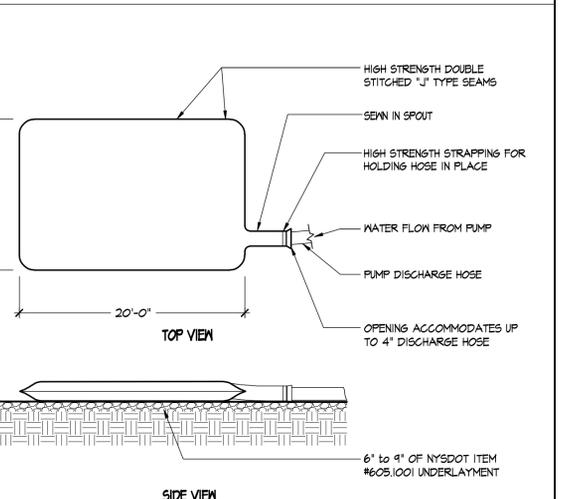
8 CONSTRUCTION SAFETY FENCE DTL.
C-310 N.T.S.

- CONSTRUCTION SPECIFICATIONS:**
- SPACING MAY VARY AS PER MANUFACTURER'S RECOMMENDATIONS. MAXIMUM SPACING IS 8'-0".
 - JOIN CONSTRUCTION FENCE SECTIONS BY OVERLAPPING END STAKES.
 - INSPECT AND REPAIR PERIODICALLY TO MAINTAIN THE INTEGRITY OF THE CONSTRUCTION AREA.



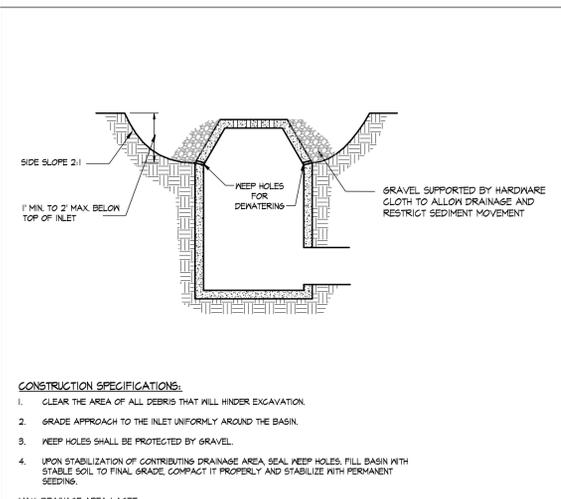
9 CURB INLET PROTECTION
C-310 N.T.S.

- CONSTRUCTION SPECIFICATIONS:**
- FILTER FABRIC SHALL HAVE AN E.O.S. OF 40-85. BURLAP MAY BE USED FOR SHORT TERM APPLICATIONS.
 - CUT FABRIC FROM A CONTINUOUS ROLL TO ELIMINATE JOINTS. IF JOINTS ARE NEEDED THEY WILL BE OVERLAPPED TO THE NEXT STAKE.
 - STAKE MATERIALS WILL BE STANDARD 2'x4" OR EQUIVALENT METAL WITH A MINIMUM LENGTH OF 3 FEET.
 - SPACE STAKES EVENLY AROUND INLET 3 FEET APART AND DRIVE A MINIMUM OF 18 INCHES DEEP. SPACING GREATER THAN 3 FEET MAY BE BRIDGED WITH THE USE OF WIRE MESH BEHIND THE FILTER FABRIC FOR SUPPORT.
 - FABRIC WILL BE EMBEDDED 1 FOOT MINIMUM BELOW GROUND AND BACKFILLED. IT SHALL BE SECURELY FASTENED TO THE STAKES AND FRAME.
 - A 2'x4" WOOD FRAME SHALL BE COMPLETED AROUND THE CREST OF THE FABRIC FOR OVER FLOW STABILITY.
 - THE STRUCTURE SHALL BE INSPECTED AFTER EACH RAIN AND REPAIRED AS NEEDED.



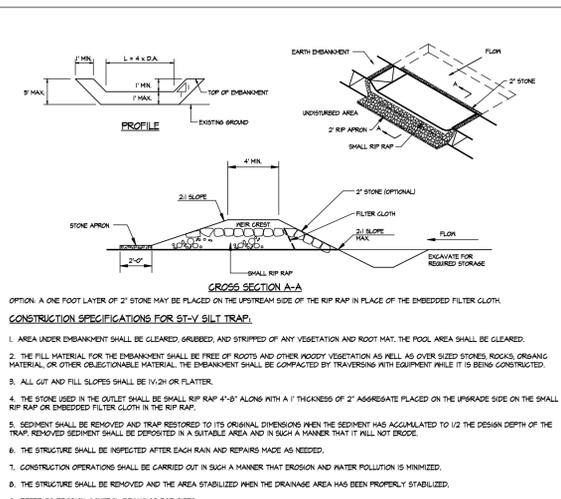
10 DEWATERING BAG DETAIL
C-310 N.T.S.

- CONSTRUCTION SPECIFICATIONS:**
- 15'-0" x 20'-0"
 - HIGH STRENGTH DOUBLE STITCHED "J" TYPE SEAMS
 - SEAM IN SPOUT
 - HIGH STRENGTH STRAPPING FOR HOLDING HOSE IN PLACE
 - WATER FLOW FROM PUMP
 - PUMP DISCHARGE HOSE
 - OPENING ACCOMMODATES UP TO 4" DISCHARGE HOSE
 - 6" to 9" OF NYSDOT ITEM #603.1001 UNDERLAYMENT



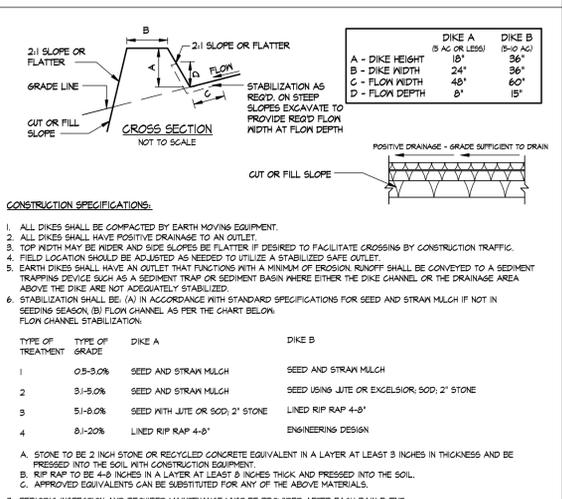
11 INLET PROTECTION DETAIL
C-310 N.T.S.

- CONSTRUCTION SPECIFICATIONS:**
- CLEAR THE AREA OF ALL DEBRIS THAT WILL HINDER EXCAVATION.
 - GRADE APPROACH TO THE INLET UNIFORMLY AROUND THE BASIN.
 - KEEP HOLES SHALL BE PROTECTED BY GRAVEL.
 - UPON STABILIZATION OF CONTRIBUTING DRAINAGE AREA, SEAL KEEP HOLES, FILL BASIN WITH STABLE SOIL TO FINAL GRADE, COMPACT IF PROPERLY, AND STABILIZE WITH PERMANENT SEEDING.



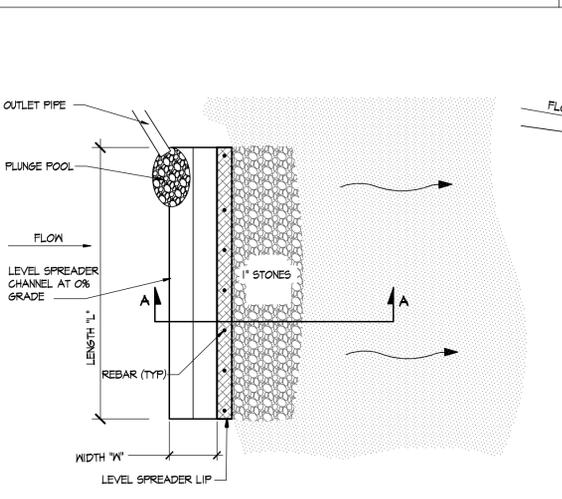
12 STONE OUTLET SEDIMENT TRAP DTL.
C-310 N.T.S.

- CONSTRUCTION SPECIFICATIONS FOR ST-Y SILT TRAP:**
- AREA UNDER UNDERBANK SHALL BE CLEARED, GRUBBED, AND STRIPPED OF ANY VEGETATION AND ROOT MAT. THE POOL AREA SHALL BE CLEARED.
 - THE FILL MATERIAL FOR THE UNDERBANK SHALL BE FREE OF ROOTS AND OTHER PROXY VEGETATION AS WELL AS OVER SIZED STONES, ROCKS, ORGANIC MATERIAL, OR OTHER OBJECTIONABLE MATERIAL. THE UNDERBANK SHALL BE COMPLETED BY TRAVELING WITH EQUIPMENT WHILE IT IS BEING CONSTRUCTED.
 - ALL CUT AND FILL SLOPES SHALL BE 1:2H OR FLATTER.
 - THE STONE USED IN THE OUTLET SHALL BE SMALL RIP RAP 4"-8" ALONG WITH A 1" THICKNESS OF 2" AGGREGATE PLACED ON THE UPSHADE SIDE ON THE SMALL RIP RAP OR EMBEDDED FILTER CLOTH IN THE RIP RAP.
 - SEDIMENT SHALL BE REMOVED AND TRAP RESPONDED 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 STABLE AREA AND IN SUCH A MANNER THAT IT WILL NOT ERODE.
 - THE STRUCTURE SHALL BE INSPECTED AFTER EACH RAIN AND REPAIRS MADE AS NEEDED.
 - CONSTRUCTION OPERATIONS SHALL BE CARRIED OUT IN SUCH A MANNER THAT EROSION AND WATER POLLUTION IS MINIMIZED.
 - THE STRUCTURE SHALL BE REMOVED AND THE AREA STABILIZED WHEN THE DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.
 - REFER TO EROSION CONTROL DRAWINGS FOR SIZES.



13 EARTH DIKE DETAILS
C-310 N.T.S.

- CONSTRUCTION SPECIFICATIONS:**
- ALL DIKES SHALL BE COMPACTED BY EARTH MOVING EQUIPMENT.
 - ALL DIKES SHALL HAVE POSITIVE DRAINAGE TO AN OUTLET.
 - TOP WIDTH MAY BE WIDER AND SIDE SLOPES BE FLATTER IF DESIRED TO FACILITATE CROSSING BY CONSTRUCTION TRAFFIC.
 - FIELD LOCATION SHOULD BE ADJUSTED AS NEEDED TO UTILIZE A STABILIZED SAFE OUTLET.
 - EARTH DIKES SHALL HAVE AN OUTLET THAT FUNCTIONS WITH A MINIMUM OF EROSION. RUNOFF SHALL BE CONVEYED TO A SEDIMENT TRAPPING DEVICE SUCH AS A SEDIMENT TRAP OR SEDIMENT BASIN WHERE EITHER THE DIKE CHANNEL OR THE DRAINAGE AREA ABOVE THE DIKE ARE NOT ADEQUATELY STABILIZED.
 - STABILIZATION SHALL BE (A) IN ACCORDANCE WITH STANDARD SPECIFICATIONS FOR SEED AND STRAW MULCH IF NOT IN SEEDING SEASON, (B) FLOW CHANNEL AS PER THE CHART BELOW.
- | TYPE OF TREATMENT | TYPE OF GRADE | DIKE A | DIKE B |
|-------------------|---------------|---------------------------------|---|
| 1 | 0.5-3.0% | SEED AND STRAW MULCH | SEED AND STRAW MULCH |
| 2 | 3.1-5.0% | SEED AND STRAW MULCH | SEED USING JUTE OR EXCELISOR, SOD, 2" STONE |
| 3 | 5.1-8.0% | SEED WITH JUTE OR SOD, 2" STONE | LINED RIP RAP 4'-8" |
| 4 | 8.1-20% | LINED RIP RAP 4'-8" | ENGINEERING DESIGN |
1. PERIODIC INSPECTION AND REQUIRED MAINTENANCE MUST BE PROVIDED AFTER EACH RAIN EVENT.



14 LEVEL SPREADER DETAILS
C-310 N.T.S.

- CONSTRUCTION SPECIFICATIONS:**
- STONE TO BE 2 INCH STONE OR RECYCLED CONCRETE EQUIVALENT IN A LAYER AT LEAST 3 INCHES IN THICKNESS AND BE PRESSED INTO THE SOIL WITH CONSTRUCTION EQUIPMENT.
 - RIP RAP TO BE 4-8 INCHES IN A LAYER AT LEAST 3 INCHES THICK AND PRESSED INTO THE SOIL.
 - APPROVED EQUIVALENTS CAN BE SUBSTITUTED FOR ANY OF THE ABOVE MATERIALS.
 - PERIODIC INSPECTION AND REQUIRED MAINTENANCE MUST BE PROVIDED AFTER EACH RAIN EVENT.

LEVEL SPREADER DIMENSIONS
REFER TO DETAIL #10/C-310

| LEVEL SPREADER # | Ø ₉ (CFS) | DEPTH (INCH) | WIDTH (FT) | LENGTH (FT) |
|------------------|----------------------|--------------|------------|-------------|
| 1 | 21.52 | 4 | 5 | 30 |
| 2 | 25.55 | 4 | 5 | 30 |
| 3 | 13.66 | 4 | 5 | 20 |
| 4 | 21.52 | 4 | 5 | 30 |

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● PUTNAM ENGINEERS PLLC 2018

REVISIONS

| NO. | DATE | DESCRIPTION | NO. | DATE | DESCRIPTION |
|-----|-----------|------------------------------|-----|------|-------------|
| 1 | 04 NOV 18 | REV. PER BI, TE, TP COMMENTS | | | |
| 2 | 02 OCT 18 | REV. PER TE COMMENTS | | | |
| 3 | 11 MAY 20 | REV. PER TE COMMENTS | | | |

PROJECT

PROPOSED SUBDIVISION PLAN PREPARED FOR:
OLD FORGE ESTATES

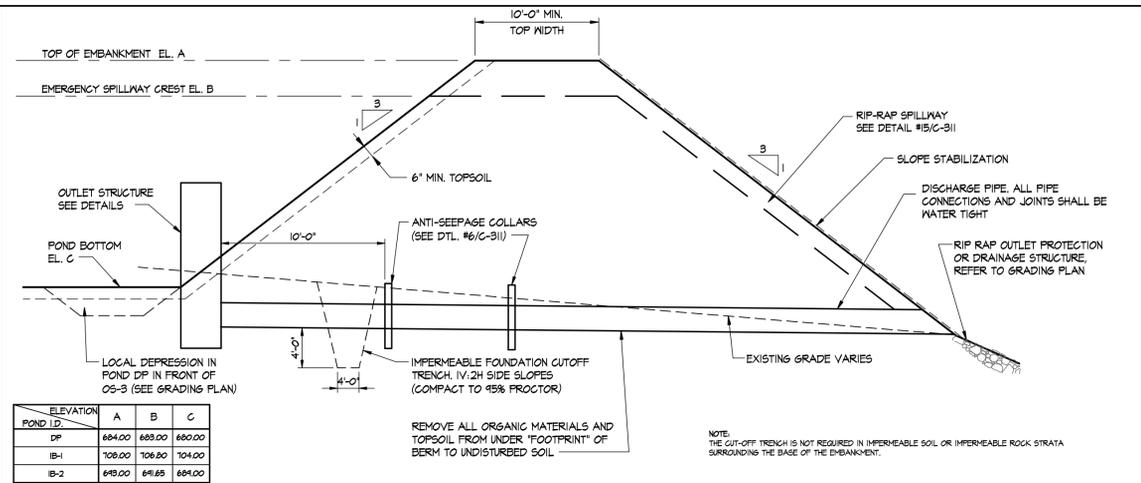
BALDWIN PLACE ROAD
TOWN OF CARMEL
PUTNAM COUNTY, NEW YORK
TAX MAP 15.15-1-14

DRAWING

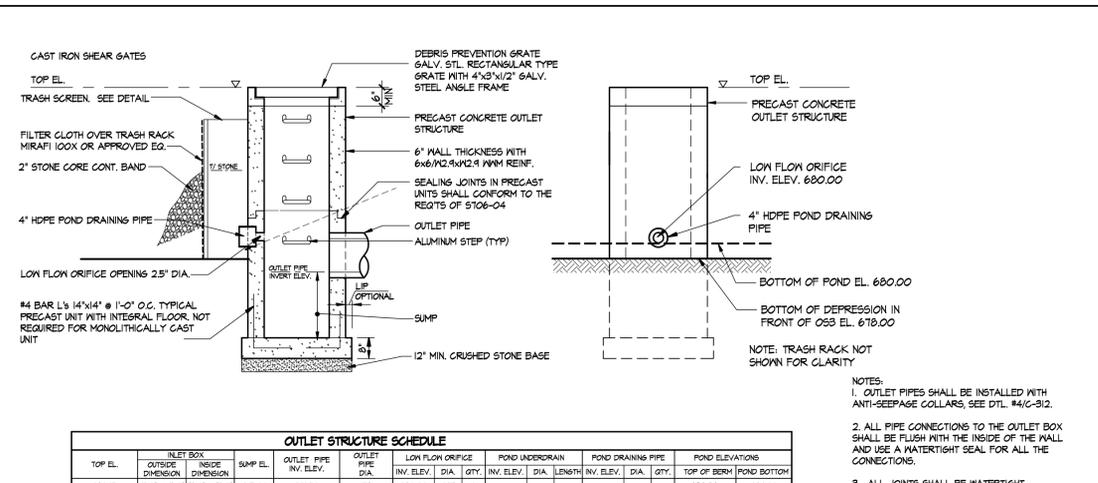
DATE: 12 APR 18
PROJECT MANAGER: PML
DRAWN BY: BJK
CHECKED BY: PML
SCALE: AS NOTED

DRAWING

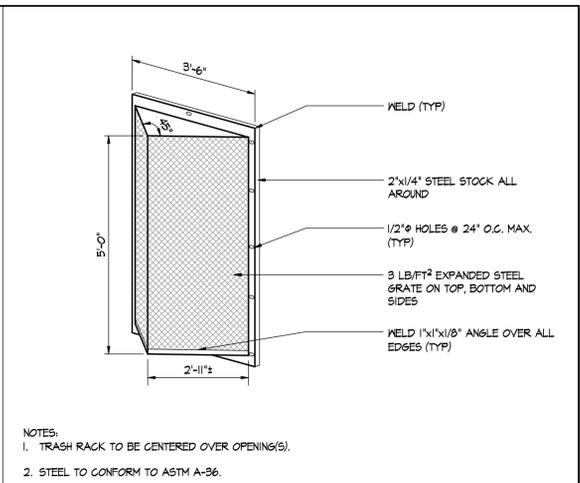
PROJECT NUMBER: 8286
DRAWING NUMBER: C-310
SHEET 25 OF 34



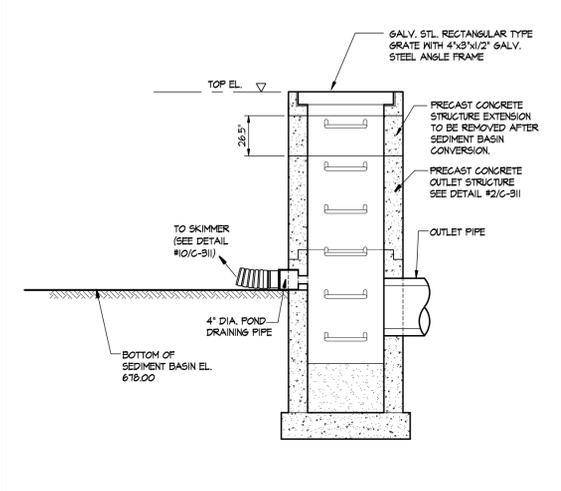
1 TYPICAL STORMWATER POND BERM SECTION
C-311 N.T.S.



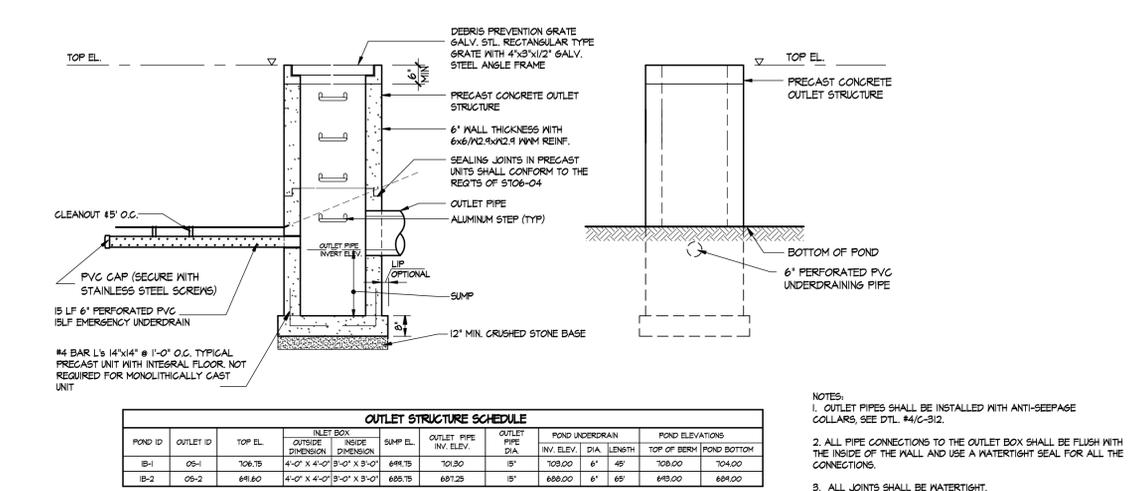
2 PERMANENT OUTLET STRUCTURE OS3 DETAILS
C-311 N.T.S.



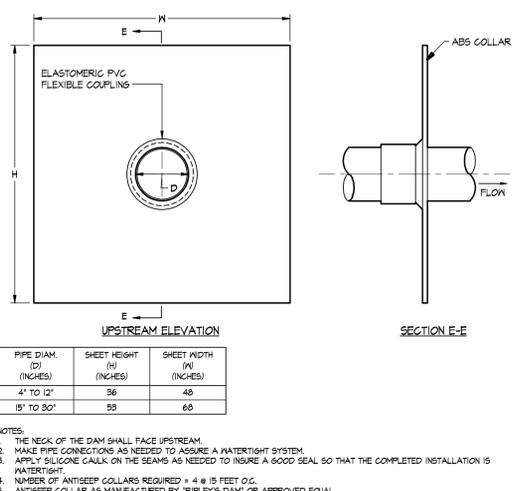
3 PERMANENT TRASH RACK PROTECTION DTL.
C-311 N.T.S.



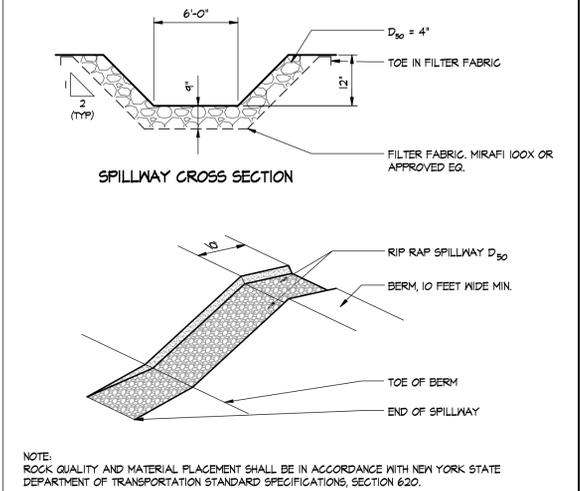
5 TEMPORARY OUTLET STRUCTURE DTL.
C-311 N.T.S.



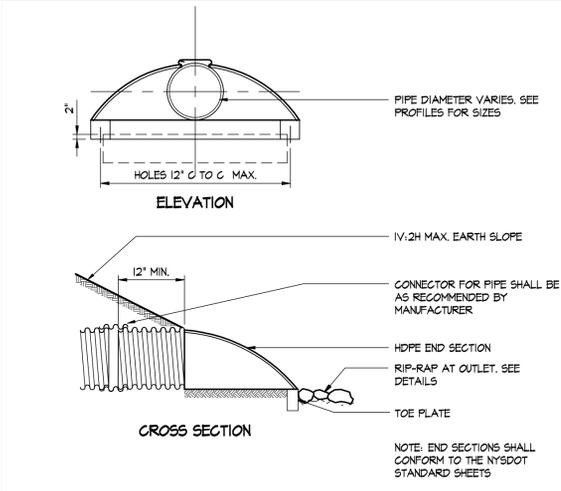
3 PERMANENT OUTLET STRUCTURE OS1 & OS2 DETAILS
C-312 N.T.S.



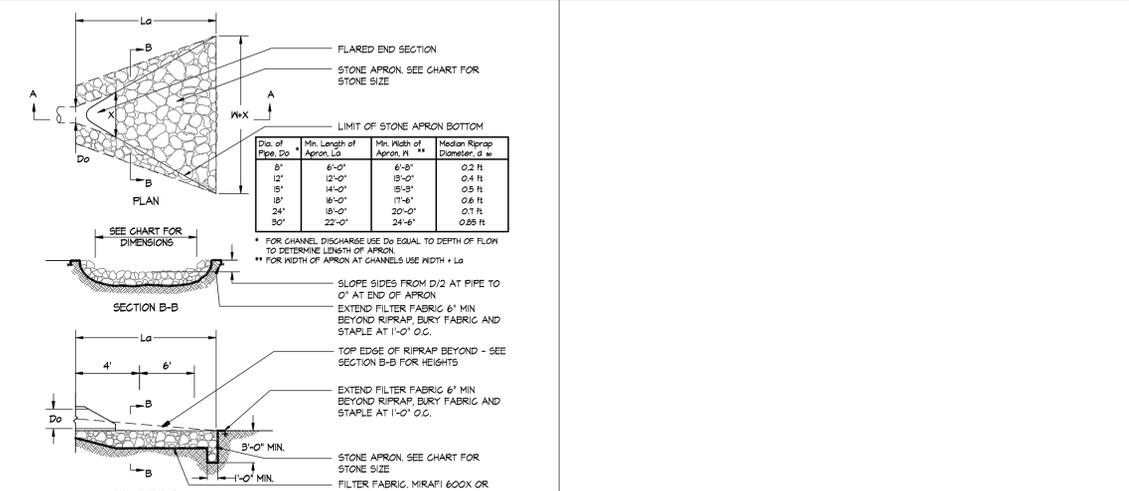
7 ABS ANTISEEP COLLAR for 4"-24" DIA. PIPE
C-311 N.T.S.



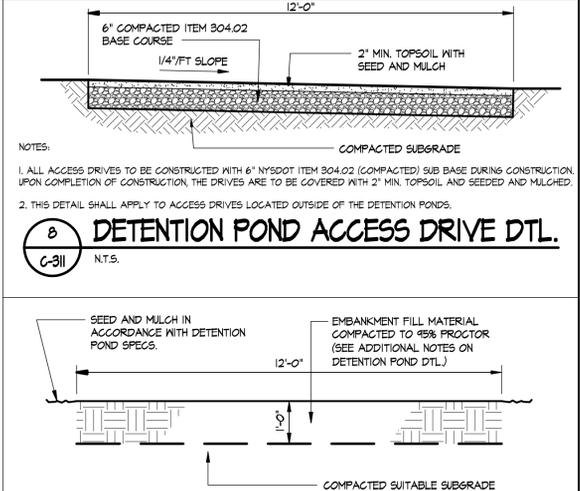
4 RIP-RAP SPILLWAY DETAILS
C-311 N.T.S.



10 END SECTION DETAILS
C-311 N.T.S.



11 RIP-RAP OUTLET PROTECTION DTLs.
C-311 N.T.S.



8 DETENTION POND ACCESS DRIVE DTL.
C-311 N.T.S.

9 DETENTION POND MAINTENANCE ACCESS DETAIL
C-311 N.T.S.

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PURSUANT TO NEW YORK STATE EDUCATION LAW, ARTICLE 145, SECTION 2209 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.

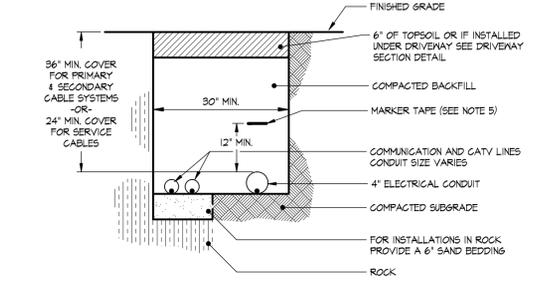
| REVISIONS | | PROJECT | | | |
|-----------|-----------|------------------------------|-----|------|-------------|
| NO. | DATE | DESCRIPTION | NO. | DATE | DESCRIPTION |
| 1 | 04 NOV 18 | REV. PER BI, TE, TP COMMENTS | | | |
| 2 | 02 OCT 18 | REV. PER TE COMMENTS | | | |
| 3 | 11 MAY 20 | REV. PER TE COMMENTS | | | |

PROPOSED SUBDIVISION PLAN PREPARED FOR:
OLD FORGE ESTATES
BALDWIN PLACE ROAD
TOWN OF CARMEL
PUTNAM COUNTY, NEW YORK
TAX MAP 15.15-1-14

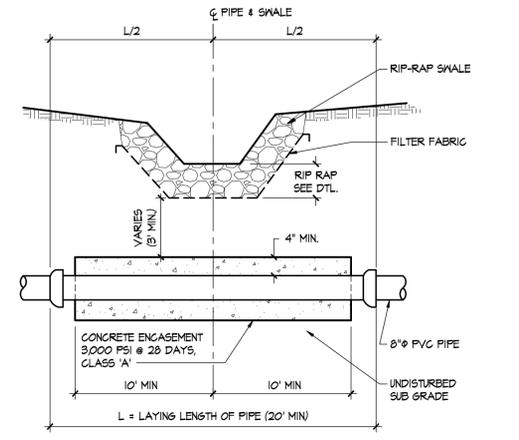
DATE: 12 APR 18
PROJECT MANAGER: PML
DRAWN BY: BJK
CHECKED BY: PML
SCALE: AS NOTED

DRAWING: DETAILS
PROJECT NUMBER: 8286
DRAWING NUMBER: C-311
SHEET 26 OF 34

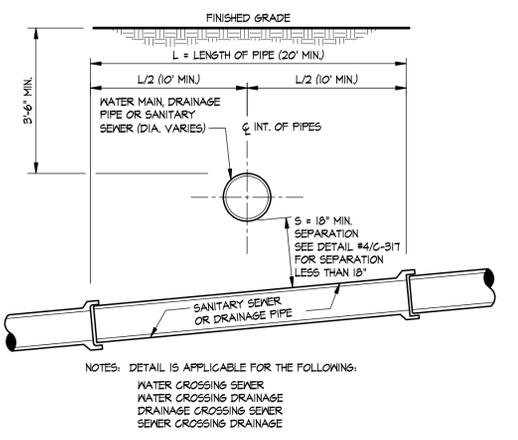
- NOTES:
- PER NEW YORK STATE LAW, THE CONTRACTOR SHALL CALL THE UNDERGROUND FACILITIES PROTECTIVE ORGANIZATION (UFGO) AT 1-800-462-1462, TWO (2) FULL DAYS PRIOR TO PERFORMING ANY EXCAVATION WORK.
 - PROVIDE P.V.C. CONDUIT WITH NYLON FULL CORD AS REQUIRED FOR EACH INDIVIDUAL UTILITY LINE. CONTRACTOR TO COORDINATE WITH INDIVIDUAL UTILITY COMPANIES THE DIAMETER OF CONDUIT REQUIRED.
 - CONTRACTOR TO COORDINATE WITH EACH INDIVIDUAL UTILITY COMPANY AND THE DESIGN ENGINEER, ALL REQUIRED INSPECTIONS.
 - MACHINE DIGGING SHALL STOP NOT LESS THAN 18 INCHES FROM VAULTS, FOUNDATIONS, EQUIPMENT, CABLES AND POLES. TRENCHING SHALL BE COMPLETED BY HAND THEREAFTER.
 - ALL ELECTRICAL BURIED CONDUITS SHALL BE IDENTIFIED BY A RED PLASTIC FILM MARKER TAPE, AS SPECIFIED BY THE UTILITY COMPANY. THE MARKER TAPE SHALL RUN DIRECTLY ABOVE THE ENTIRE LENGTH OF EACH CONDUIT SECTION AND SHALL HAVE A MINIMUM VERTICAL SEPARATION OF 12 INCHES.
 - A MINIMUM SEPARATION OF 30 INCHES SHALL BE MAINTAINED BETWEEN ELECTRICAL CONDUIT AND WATER SERVICE LINES. SEPARATION BETWEEN ELECTRICAL CONDUIT AND WATER MAIN SHALL BE 36 INCHES.
 - A MINIMUM SEPARATION OF 30 INCHES SHALL BE MAINTAINED BETWEEN ELECTRICAL CONDUIT AND GAS SERVICE LINES. JOINT TRENCHING IS NOT PERMITTED FOR MAIN GAS LINES.



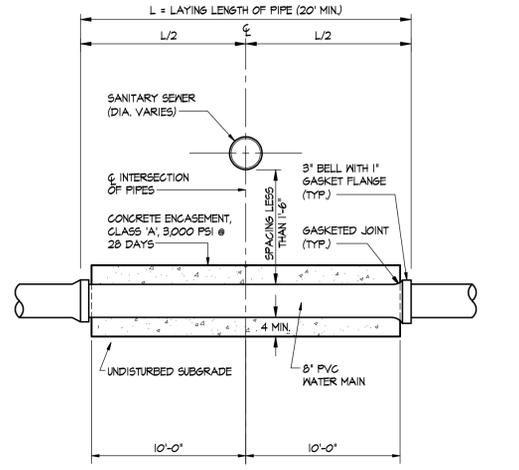
1 ELECTRIC/CABLE/TELCO TRENCH DTL. (C-317) N.T.S.



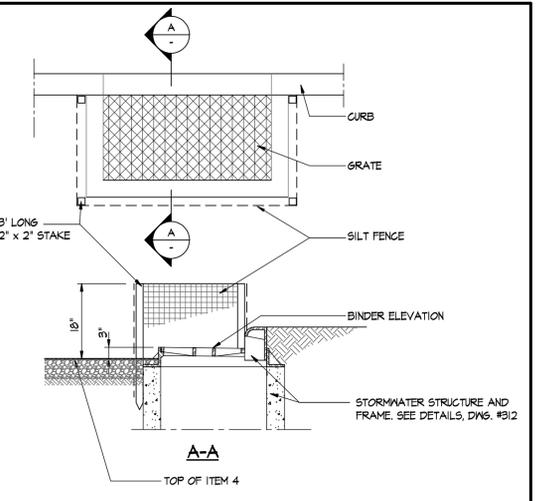
2 SWALE CROSSING SEWER PIPE DETAIL (C-317) N.T.S.



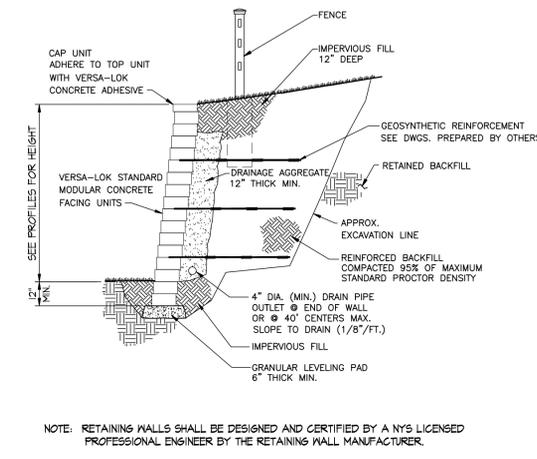
3 UTILITY PIPE CROSSING DETAIL (C-317) N.T.S. SEPARATION GREATER THAN OR EQUAL TO 18"



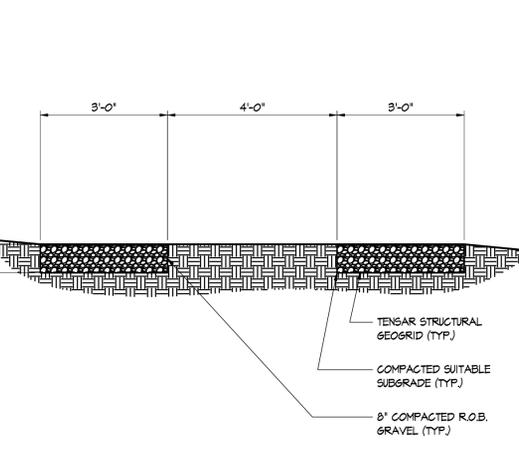
4 UTILITY CROSSING DETAIL (C-317) N.T.S. SEPARATION LESS THAN 18"



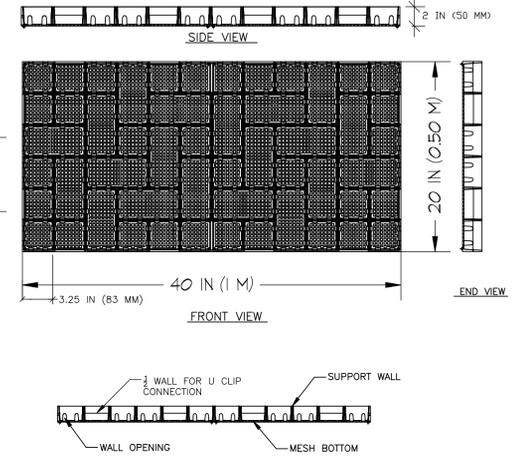
5 INSTALLATION OF STORMWATER STRUCTURES IN PAVEMENT DETAIL (C-317) N.T.S.



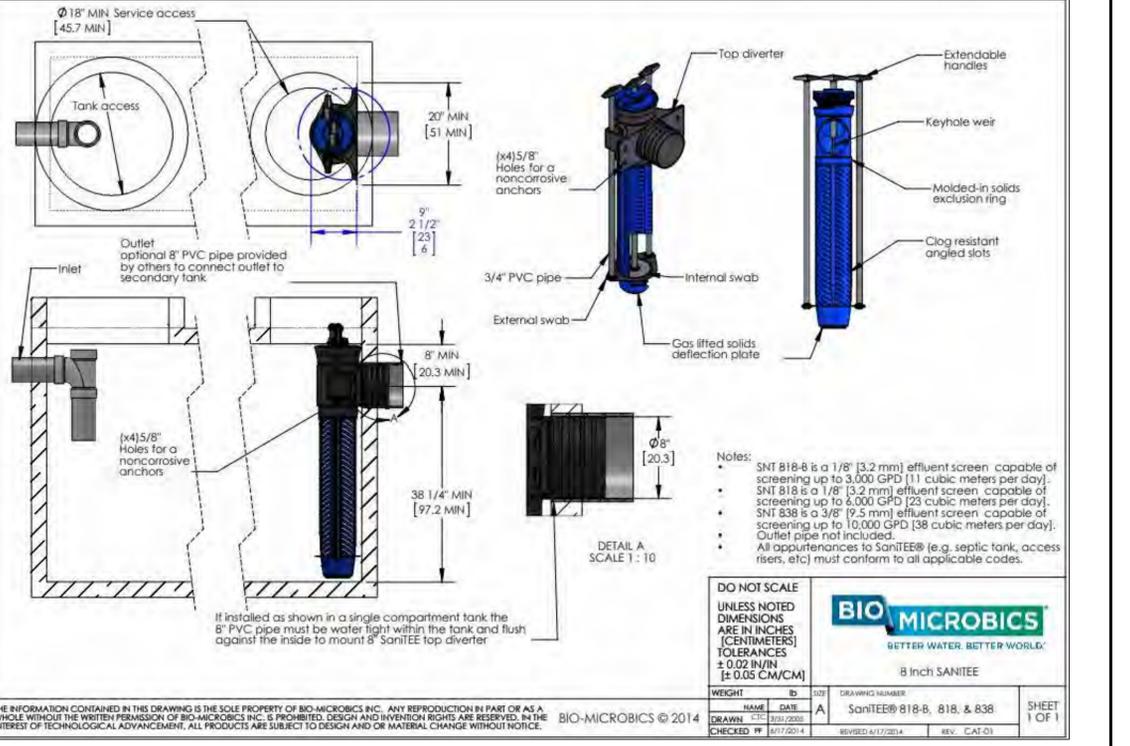
6 TYP. REINF. RETAINING WALL SECTION (C-317) N.T.S.



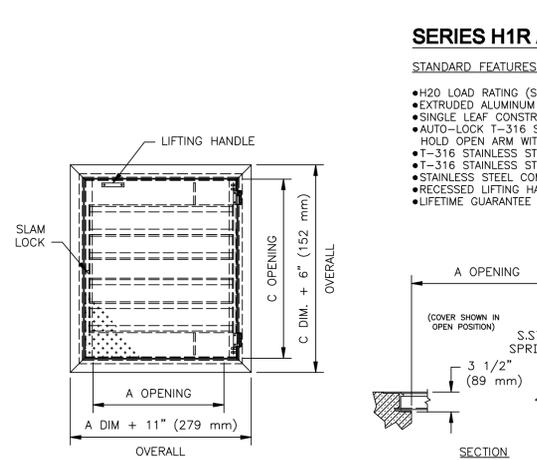
7 10' WIDE SSDS MAINTENANCE TRAIL DTL. (C-317) N.T.S.



8 GEOPAVE POROUS PAVEMENT SYSTEM (C-317) N.T.S.



9 EFFLUENT FILTER (C-317) N.T.S.



10 LOCKABLE ACCESS DOOR (C-317) N.T.S.

HP HALLIDAY PRODUCTS www.HallidayProducts.com Phone 800-298-1027 Fax 407-298-4534 Sales@HallidayProducts.com

SERIES H1R ACCESS DOOR

STANDARD FEATURES:

- H2O LOAD RATING (SEE NOTES)
- EXTRUDED ALUMINUM ANGLE FRAME
- SINGLE LEAF CONSTRUCTION
- AUTO-LOCK T-316 STAINLESS STEEL HOLD OPEN ARM WITH RELEASE HANDLE
- T-316 STAINLESS STEEL HINGES AND ATTACHING HARDWARE
- T-316 STAINLESS STEEL SLAM LOCK WITH REMOVABLE KEY
- STAINLESS STEEL COMPRESSION SPRING ASSIST
- RECESSED LIFTING HANDLE
- LIFETIME GUARANTEE

| QTY. | MODEL NO. | A DIM. INCHES (mm) | C DIM. INCHES (mm) | UNIT WT. LBS. (kg) |
|------|-----------|--------------------|--------------------|--------------------|
| | HIR2424 | 24 (610) | 24 (610) | 60 (27) |
| | HIR2430 | 24 (610) | 30 (762) | 75 (34) |
| | HIR2436 | 24 (610) | 36 (914) | 90 (41) |
| | HIR2442 | 24 (610) | 42 (1067) | 105 (48) |
| | HIR3030 | 30 (762) | 30 (762) | 94 (43) |
| | HIR3036 | 30 (762) | 36 (914) | 113 (51) |
| | HIR3042 | 30 (762) | 42 (1067) | 131 (59) |
| | HIR3048 | 30 (762) | 48 (1219) | 150 (68) |
| | HIR3636 | 36 (914) | 36 (914) | 135 (61) |
| | HIR3642 | 36 (914) | 42 (1067) | 158 (72) |
| | HIR3648 | 36 (914) | 48 (1219) | 180 (82) |

NOTES:

- SUITABLE FOR USE IN OFF STREET LOCATION WHERE NOT SUBJECTED TO HIGH DENSITY TRAFFIC.
- PROVIDE A FULL BED OF CLASS "A" CONCRETE UNDER FRAME AND SUPPORT ANGLES.

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|-----|-----------|------------------------------|-----|------|-------------|
| 1 | 01 NOV 18 | REV. PER BL, TE, TP COMMENTS | | | |
| 2 | 02 OCT 19 | REV. PER TE COMMENTS | | | |
| 3 | 11 MAY 20 | REV. PER TE COMMENTS | | | |

PROJECT

PROPOSED SUBDIVISION PLAN PREPARED FOR:

OLD FORGE ESTATES

BALDWIN PLACE ROAD
TOWN OF CARMEL
PUTNAM COUNTY, NEW YORK
TAX MAP 75.15-1-11

DATE: 12 APR 18

PROJECT MANAGER: P.M.

DRAWN BY: B.J.K.

CHECKED BY: P.M.

SCALE: AS NOTED

DRAWING: DETAILS

PROJECT NUMBER: 8286

DRAWING NUMBER: C-317

SHEET 32 OF 34