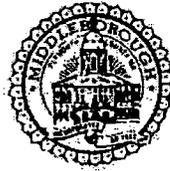


* Newest additional info for
3-23-15 meeting.



A hearing will be held in the Selectmen's Meeting Room at the Town Hall, 10 Nickerson Avenue, Middleborough, MA on Monday, February 23, 2015 at 7:40 PM, for the purpose of discussing an application filed by GAF Engineering, Inc. on behalf of Rocky Meadow Cranberry Bog for an Earth Removal Permit for property located at 290 Purchase Street, Middleborough, Assessors Map 063, Lot 2825. Anyone desiring to be heard on this matter should appear at the time and place designated.

Allin Frawley
Leilani Dalpe
John M. Knowlton
Diane Stewart
Stephen J. McKinnon
BOARD OF SELECTMEN

Publish: 2/12/15

Private party responsible for payment

Town responsible for payment

Please provide Selectmen's office with amount due.

Advertiser #300074

Continued to 3-23-15
(A) 8pm

Jacqueline Shanley

From: Patricia Cassady
Sent: Wednesday, March 18, 2015 3:01 PM
To: Jacqueline Shanley; Christopher Peck; Robert Whalen
Subject: RE: Rocky Meadow Cranberry Plans

Hi Jackie,

I spoke with Bill Madden on Monday about the changes etc.. and there is no increase in the project boundary so that will probably be ok with the Commission. The Commission issued a negative determination and it falls under one of the exemptions in the wetlands protection act. My only question would be if they need to file a permit application with the Army Corps of Engineers for excavation/dredging in what is considered a wetland area?

Thanks,
Tricia

From: Jacqueline Shanley
Sent: Wednesday, March 18, 2015 12:55 PM
To: Patricia Cassady; Christopher Peck; Robert Whalen
Subject: FW: Rocky Meadow Cranberry Plans

Hi All,

This just came in for Monday's hearing. I realize it's last minutes and difficult for you to comment on short notice. Maybe you can look over and if there is something concerning, just shoot me an email of comments?

Thank you!

Jackie,
Jackie Shanley
Executive Assistant to Board of Selectmen
Town of Middleborough
10 Nickerson Ave.
Middleborough, MA 02346
508 946-2405 Tel.
508 946-0058 Fax
jshanley@middleborough.com

From: Trevor Ellis [<mailto:tellis@gaf-eng.com>]
Sent: Wednesday, March 18, 2015 11:58 AM
To: Jacqueline Shanley; Rich Tabaczynski - Atlantic Design Group
Cc: wfmadden@gaf-eng.com
Subject: Rocky Meadow Cranberry Plans

Please find attached PDFs with minor revisions discussed with ADE.



March 18, 2015

Board of Selectmen
Town Hall Building
10 Nickerson Avenue
Middleborough, MA 02346

**Re: Final Engineering Review
Earth Removal Application
Rocky Meadow Cranberry Bog
ADE Project #2518.33**

Dear Board Members:

Atlantic Design Engineers, Inc. (ADE) has completed our final engineering review of the site plans and application materials for the above-referenced project relative to a request to construct a water supply/tailwater pond under the Earth Removal bylaw. The plans are revised dated 3/18/15 and are prepared by GAF Engineering, Inc. for Rocky Meadow Cranberry Bog.

The revised plans and the response letter from the engineer have addressed the comments from our previous review letter. We offer the following for the consideration of the Board:

1. A 100-foot buffer to the property lines has not been provided to the Wessen property or to the Blais Builders property at the southwest corner of the site. In addition, the remaining property line buffers, though 100 feet in width, are only partially treed. However, all proposed work is within the limits of existing bogs and surrounding cleared areas.
2. The Board should determine whether the pond should be fenced in for safety.
3. The SWPPP, if required for construction activities and compliance with the NPDES program, when finalized, should be made a part of the permit conditions and should be provided to the Town. Copies of all inspection/correction reports should also be provided to the Town.
4. The plans are labeled "Progress Set – Not For Construction". The final construction plans should be provided to Board prior to commencement of work to determine consistency with the approved progress set.

Please call if you have any questions or comments.

Sincerely,

ATLANTIC DESIGN ENGINEERS, INC.



Richard J. Tabaczynski, P.E.
Project Manager

CC: GAF Engineering

P.O. Box 1051
Sandwich, MA 02563
(508) 888-9282 · FAX 888-5859
email: ade@atlanticcompanies.com
www.atlanticcompanies.com

Jacqueline Shanley

From: Trevor Ellis <tellis@gaf-eng.com>
Sent: Wednesday, March 18, 2015 11:58 AM
To: Jacqueline Shanley; Rich Tabaczynski - Atlantic Design Group
Cc: wfmadden@gaf-eng.com
Subject: Rocky Meadow Cranberry Plans
Attachments: 8312 details rev 3-18-15.pdf; 8312 LAYOUT 3-18-15.pdf

Please find attached PDFs with minor revisions discussed with ADE.

Thanks &
Best Regards,

Trevor Ellis
G.A.F Engineering, Inc.
266 Main Street
Wareham, MA 02571



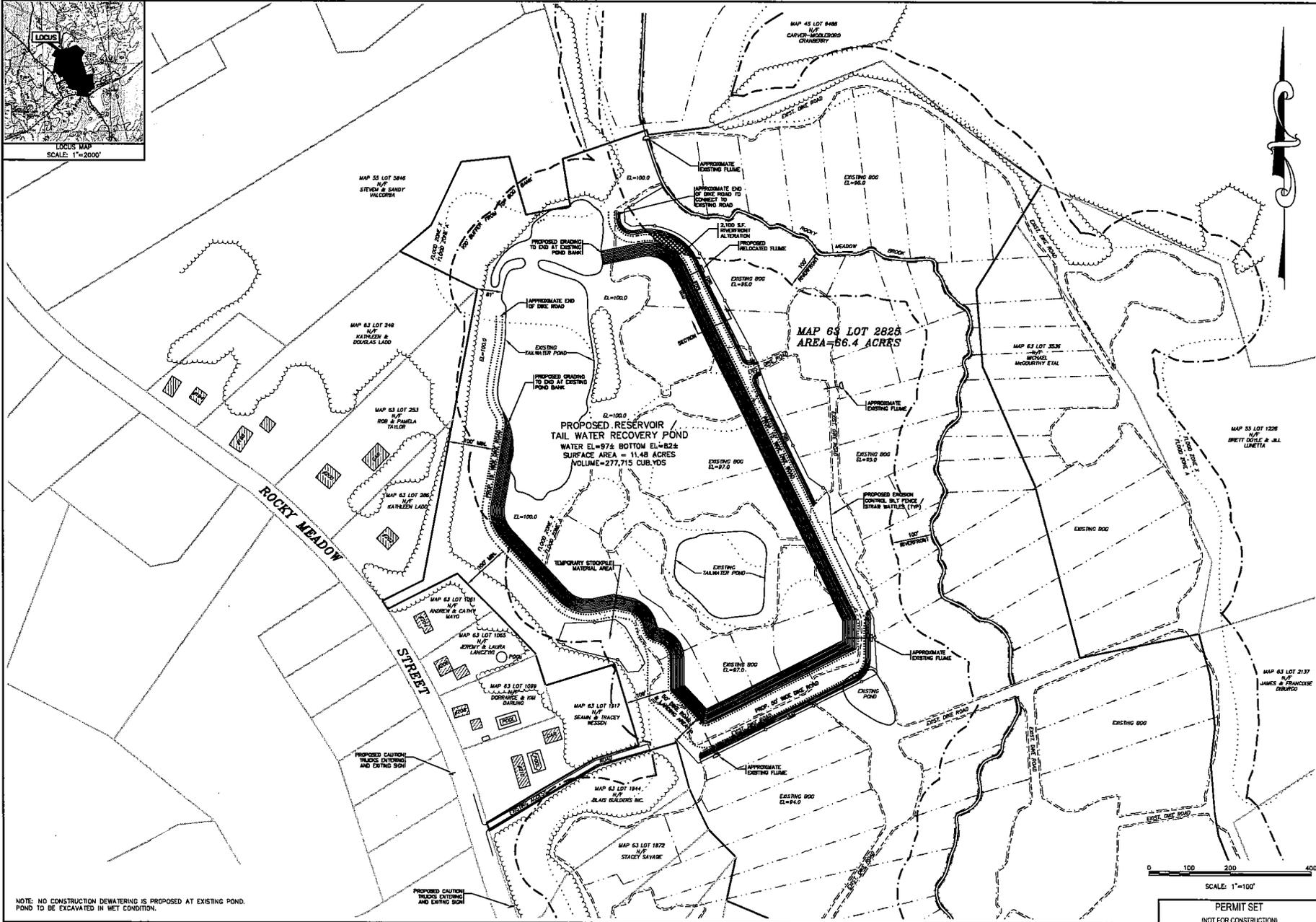
Office: 508.295.6600 | Fax: 508.295.6634
Email: tellis@gaf-eng.com

PRIVILEGE AND CONFIDENTIALITY NOTICE

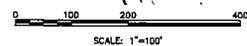
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LOCUS MAP
SCALE: 1"=2000'



NOTE: NO CONSTRUCTION DEWATERING IS PROPOSED AT EXISTING POND. POND TO BE EXCAVATED IN WET CONDITION.



SCALE: 1"=100'

PERMIT SET
(NOT FOR CONSTRUCTION)

C.A.F. ENGINEERING INC.
PROFESSIONAL ENGINEERS & LAND SURVEYORS
280 DUNBAR STREET WOODBRIDGE, VA 22191
P: (541) 339-1800 F: (541) 339-0634
E: JEFF@CAFENGINEERING.COM
CONSENT TO THIS PROFESSIONAL SERVICE OF ARCHITECTURE OR PROFESSIONAL ENGINEERING IS HEREBY GRANTED BY THE CLIENT TO THE UNDERSIGNED AND HIS ASSOCIATES, IN FULL KNOWLEDGE OF THE NATURE AND EXTENT OF THE SAME AND UNDERSTANDING THAT THE UNDERSIGNED AND HIS ASSOCIATES SHALL BE RESPONSIBLE FOR THE DESIGN AND CONSTRUCTION OF THE PROJECT DESCRIBED HEREIN.

PROPOSED TAILWATER POND & EARTH REMOVAL PERMIT PLAN
280 DUNBAR STREET WOODBRIDGE, VA 22191
ROCKY MEADOW CRANBERRY BOG
46 INGLE STANISHI DRIVE CLAYTON, VA 02330

DATE	NO.	BY	DESCRIPTION
14-03-12	1	THE WPM	PER CON COM REVIEW COMMENTS
14-03-12	2	THE WPM	PER CON COM REVIEW COMMENTS
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14-03-12	100	THE WPM	PER CON COM REVIEW COMMENTS



ENGINEERING,
INC.

ENGINEERS
SURVEYORS

266 MAIN ST.
WAREHAM, MA
02571
TEL 508.295.6600
FAX 508.295.6634

gef@gaf-eng.com

March 13, 2015

Board of Selectmen
Town Hall Building
10 Nickerson Avenue
Middleborough, MA 02346

RE: Engineering Review
Earth Removal Application
Rocky Meadow Cranberry Bog
G.A.F. Job No. 14-8312

Honorable Selectmen,

We are in receipt of the initial review of site plans and application material for the above referenced project as prepared by Atlantic Design Engineers, Inc., (ADE) dated February 18, 2015. We offer the following responses to their comments.

1. *Comment:* Please provide a copy of the Conservation Commission Order of Conditions, if issued for the project.

Response: The project has received a negative determination from the Middleborough Conservation Commission stating the project is exempt from the filing of a Notice of Intent. Refer to Determination of Applicability attached.

2. *Comment:* A 100-foot buffer to the property lines has not been provided to the Wessen property or to the Blais Builders property at the southwest corner of the site. In addition, the remaining property line buffers, though 100 feet in width, are only partially treed.

Response: All work is being performed within the limits of the existing cranberry bogs. No expansion beyond these limits is proposed. The buffers are not decreased over that of existing conditions.

3. *Comment:* The following items were checked off in the submitted Checklist but could not be found in the information provided:

A.1 Water Resource Protection District – Not shown.

Response A.1: This information has been added to the plans.

*B.6 Treed buffer zone between edges of excavation and abutters –
The buffer zones provided are only partially treed.*

Response B.6: See response to comment 2. No trees are proposed to be removed.

B.8 Distance of reservoir or excavations from property line of abutters – Only shown in a few areas.

Response B.8: The distance(s) from the existing bog, which is now to be the reservoir, have been added.

*B.12 Site of proposed de-watering pond, discharge or overflow –
Not shown.*

Response B.12: No dewatering is proposed. The bog will be excavated and material will be directly loaded into trucks or stockpiled on a section of bog to be excavated, and then loaded into trucks.

B.23 Fencing – Not shown.

Response B.23: No fencing is proposed.

4. *Comment:* No information is provided on the plans for the existing access road. Are any improvements (safety or otherwise) needed to this road or at the site entrance at Rocky Meadow Street to accommodate the size and increased volume of trucks entering/exiting the site?

Response: The existing site access road was used for previously permitted earth removals and is paved approximately 300' to the entrance at Rocky Meadow Street. The access road is adequate to serve the project purpose.

5. *Comment:* De-watering plans, methodologies, details are not provided.

Response: See response to comment B.12. No dewatering is proposed.

6. *Comment:* A construction entrance tracking pad should be shown on the plans, including location and details.

Response: Refer to response to comment 4. The site access road is currently paved for about 300'.

7. *Comment:* It is recommended that slopes steeper than 3:1 should be stabilized with an erosion control blanket. Please amend the appropriate notes on the Site Plan and in the Project Plan.

Response: There are no exterior slopes other than dike slopes. All slopes are sloped to bogs or to the tailwater/irrigation pond. Slopes of 2H:1V are shown. We have added notation requiring erosion control blankets.

8. *Comment:* The SWPPP, if required for construction activities and compliance with the NPDES program, when finalized, should be made a part of the permit conditions and should be provided to the Town. Copies of all inspection/correction reports should also be provided to the Town.

Response: Informational, will provide if required.

9. *Comment:* Please address any potential impacts to adjacent private wells and septics due to the enlargement of the reservoir.

Response: No dewatering is proposed, making impacts to shallow wells unlikely. The vast majority of wells in the area are bedrock wells and do not intercept the overburden aquifer.

10. *Comment:* The water elevation and bottom elevation labels on sheet 1 are mixed up.

Response: The elevations have been revised as noted (corrected).

11. *Comment:* The proposed dike road is filling portions of the 100-year Flood Zone (A) to Rocky Meadow Brook. Has compensating storage been provided that has unrestricted hydraulic connection to Rocky Meadow Brook?

Response: FEMA mapping includes areas including upland areas and dike roads. These areas are proposed to be excavated (these areas are also included in the A Zone mapping). Hydraulic connection to the mapped A Zone as illustrated on the FEMA mapping is provided.

Please note that the FEMA A Zone has "no elevation determined".

12. *Comment:* The plans are labeled "Progress Set – Not For Construction". The final construction plans should be provided to Board prior to commencement of work to determine consistency with the approved progress set.

Response: Will comply. Drawing revised.

**Response to Comments From the Town Boards
Conservation Commission**

Comment: *There is currently an outstanding Order of Conditions for a past project on the property which involved the proposed expansion of a reservoir for existing active cranberry bogs under DEP File# SE220-970. This Order of Conditions was issued November 8, 2005 and expired on November 8, 2012 (this includes the added permit extension act). We have recently spoken to GAF Engineering about them requesting a Certificate of Compliance for this project. They need to record the Order of Conditions and submit an as-built plan. A site inspection will not be able to be done till the snow is gone.*

The Commission will want to know why this previous expansion of a reservoir was not enough for the current cranberry operation and will want to know why the proposed expansion before them right now is necessary.

Another question that has come up is that concerning the adjacent housing development to this cranberry bog property called Eastwood Estates. Currently there is an Order of Conditions for this project under DEP File # SE220-993. A replication area still needs to be created for the crossing of cranberry bogs at the entrance roadway for this project. The replication area would be a cranberry bog. There has been talk about putting the replication at the 290 Purchase Street property for this earth removal since the proposed location under the Order of Conditions at Eastwood Estates may not be logistically viable for the owner of the bogs. If a replication is proposed at 290 Purchase Street a new Notice of Intent will need to be filed with the Conservation Commission. If the replication is not completed and 75% successful after two growing seasons the project will be in violation of the Massachusetts Wetlands Protection Act. The Order of Conditions for Eastwood Estates will expire on June 1, 2016.

Response: **We will request a Certificate of Compliance for File No. SE220-970 and coordinate efforts to resolve the outstanding issues associated with SE220-993.**

Building Commissioner

Comment: *I have received the plans submitted by William F. Madden, P. E. of G.A.F. Engineering on behalf of Rocky Meadow Cranberry Bog for an earth removal permit for the above referenced property. This permit is for the enlargement and combine existing tailwater pond/water supply pond to provide adequate water supply for existing cranberry operations.*

Response: Informational, no response required.

Department of Public Works

1. *Comment:* The estimated number of cubic yards being removed stated in the "Earth Removal Application" is less than what is stated in the provided "Project Plan". Please clarify.

Response: The plans have been revised to include the correct volume of material to be removed, which is 277,715 cubic yards.

2. *Comment:* The Applicant should provide "Caution Trucks Entering and Exiting" signs along both sides of Rocky Meadow Street. The signs will help alert vehicles that trucks may be in the roadway.

Response: Will comply. The location of signage has been added to the plans. We will coordinate the final location of the signage placement with the DPW director.

3. *Comment:* The Applicant should provide a construction entrance/crushed stone apron in the area of the proposed access driveway. The purpose of the construction entrance is to prevent sediment from being tracked from the proposed driveway onto Rocky Meadow Street during the earth removal project. The construction entrance should be maintained throughout the duration of the project. The apron should be a minimum 18 feet wide by 50 feet long and be comprised of 1 ½ inch crushed stone placed a minimum depth of 8 inches. The other acceptable option would be to pave the access driveway at the same length and width.

Response: The site access drive has been used for previous earth removals and is currently paved approximately 300' in length.

4. *Comment:* The proposed 2:1 slopes of the earth removal area may be subject to erosion during both on-going and post construction. The Applicant has provided a method of temporary stabilization under the seeding and mulching notes but additional measures such as stump grindings may be required if the provided methods are not sufficient.

Response: Erosion control blankets are specified and have been added to the plan.

Town Planner

1. *Comment:* There is no 100' buffer between the earth removal project and the abutting Blais Builders (40') and Wessen (60') residential properties.

Response: Refer to ADE comment No. 2 relative to setback issues.

2. *Comment:* *The issue of Earth Removal being accessory or incidental to a permitted agricultural use (cranberry bog construction) is covered under the Massachusetts Supreme Judicial Court case of Henry v. Board of Appeals of Dunstable which is explained in and attached to Town Counsel's 12/1/94 correspondence (see Attachment). The case, Old Colony Boy Scouts of Am v. Zoning Board of Appeals of Plymouth, 31 Mass. App. Ct. 46 (1991) is a second case that relates to Earth Removal for the purpose of constructing cranberry bogs.*

Response: **The information provided is relative to raw land to be used in agricultural use relative to Ch. 40A § 3. The land is currently Land In Agricultural Use (LIAU) and Land in Production. As such, this case law is not applicable. The Farm Plan prepared by Natural Resource Conservation Service (NRCS) states the existing water supply is unreliable during seasons of low flow. A properly sized reservoir implementing tailwater recovery practices will be employed to increase reliability of the water supply.**

3. *Comment:* *Evidence should be submitted that substantiates the need to excavate existing cranberry bogs and convert them through earth removal to a water supply/tailwater recovery reservoir.*

Response: **The design calls for 4.3 Ac-ft. of water per acre of bog. DEP permits as much as 10 Ac-ft. of water per acre of bog. This volume is within this parameter.**

We trust the foregoing adequately addresses issues raised. We have included two (2) copies of the revised plan, which illustrates these revisions.

Very truly yours,



William F. Madden, P.E.

WFM/jld

cc: Richard Tabaczynski, ADE
Rocky Meadow Cranberry Bog

Enc.

BAF



Massachusetts Department of Environmental Protection
 Bureau of Resource Protection - Wetlands
WPA Form 2 – Determination of Applicability
 Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

A. General Information

Important:
When filling out forms on the computer, use only the tab key to move your cursor - do not use the return key.



From:

Middleborough
Conservation Commission

To: Applicant

Rocky Meadow Cranberry Bog
Name
46 Myles Standish Avenue
Mailing Address
Carver MA 02330
City/Town State Zip Code

Property Owner (if different from applicant):

Steven F. & Pauline M. Ward
Name
46 Myles Standish Avenue
Mailing Address
Carver MA 02330
City/Town State Zip Code

1. Title and Date (or Revised Date if applicable) of Final Plans and Other Documents:

<u>Proposed Tailwater Pond & Earth Removal Permit Plan 290 Purchase</u>	<u>February 9, 2015</u>
<u>Street Middleborough, MA</u>	Date
<u>Figure 1 - Locus Map, Figure 2 - NHESP Estimated Habitat Map</u>	
Title	Date
<u>Figure 3 - NHESP Priority Habitat Map, Figure 4 - FIRM Map, Figure 5 -</u>	
<u>Truck Route</u>	Date

2. Date Request Filed:

January 15, 2015

B. Determination

Pursuant to the authority of M.G.L. c. 131, § 40, the Conservation Commission considered your Request for Determination of Applicability, with its supporting documentation, and made the following Determination.

Project Description (if applicable):

Construction and expansion of an existing water supply/tailwater pond on Land in Agricultural Use.

Project Location:

290 Purchase Street
Street Address
Map 63
Assessors Map/Plat Number

Middleborough
City/Town
Lot 2825
Parcel/Lot Number



Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands

WPA Form 2 – Determination of Applicability

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

B. Determination (cont.)

The following Determination(s) is/are applicable to the proposed site and/or project relative to the Wetlands Protection Act and regulations:

Positive Determination

Note: No work within the jurisdiction of the Wetlands Protection Act may proceed until a final Order of Conditions (issued following submittal of a Notice of Intent or Abbreviated Notice of Intent) or Order of Resource Area Delineation (issued following submittal of Simplified Review ANRAD) has been received from the issuing authority (i.e., Conservation Commission or the Department of Environmental Protection).

1. The area described on the referenced plan(s) is an area subject to protection under the Act. Removing, filling, dredging, or altering of the area requires the filing of a Notice of Intent.

2a. The boundary delineations of the following resource areas described on the referenced plan(s) are confirmed as accurate. Therefore, the resource area boundaries confirmed in this Determination are binding as to all decisions rendered pursuant to the Wetlands Protection Act and its regulations regarding such boundaries for as long as this Determination is valid.

2b. The boundaries of resource areas listed below are not confirmed by this Determination, regardless of whether such boundaries are contained on the plans attached to this Determination or to the Request for Determination.

3. The work described on referenced plan(s) and document(s) is within an area subject to protection under the Act and will remove, fill, dredge, or alter that area. Therefore, said work requires the filing of a Notice of Intent.

4. The work described on referenced plan(s) and document(s) is within the Buffer Zone and will alter an Area subject to protection under the Act. Therefore, said work requires the filing of a Notice of Intent or ANRAD Simplified Review (if work is limited to the Buffer Zone).

5. The area and/or work described on referenced plan(s) and document(s) is subject to review and approval by:

Name of Municipality

Pursuant to the following municipal wetland ordinance or bylaw:

Name

Ordinance or Bylaw Citation



Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands

WPA Form 2 – Determination of Applicability

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

B. Determination (cont.)

6. The following area and/or work, if any, is subject to a municipal ordinance or bylaw but not subject to the Massachusetts Wetlands Protection Act:
-
-

7. If a Notice of Intent is filed for the work in the Riverfront Area described on referenced plan(s) and document(s), which includes all or part of the work described in the Request, the applicant must consider the following alternatives. (Refer to the wetland regulations at 10.58(4)c. for more information about the scope of alternatives requirements):

- Alternatives limited to the lot on which the project is located.
- Alternatives limited to the lot on which the project is located, the subdivided lots, and any adjacent lots formerly or presently owned by the same owner.
- Alternatives limited to the original parcel on which the project is located, the subdivided parcels, any adjacent parcels, and any other land which can reasonably be obtained within the municipality.
- Alternatives extend to any sites which can reasonably be obtained within the appropriate region of the state.

Negative Determination

Note: No further action under the Wetlands Protection Act is required by the applicant. However, if the Department is requested to issue a Superseding Determination of Applicability, work may not proceed on this project unless the Department fails to act on such request within 35 days of the date the request is post-marked for certified mail or hand delivered to the Department. Work may then proceed at the owner's risk only upon notice to the Department and to the Conservation Commission. Requirements for requests for Superseding Determinations are listed at the end of this document.

1. The area described in the Request is not an area subject to protection under the Act or the Buffer Zone.
2. The work described in the Request is within an area subject to protection under the Act, but will not remove, fill, dredge, or alter that area. Therefore, said work does not require the filing of a Notice of Intent.
3. The work described in the Request is within the Buffer Zone, as defined in the regulations, but will not alter an Area subject to protection under the Act. Therefore, said work does not require the filing of a Notice of Intent, subject to the following conditions (if any).
-
-

4. The work described in the Request is not within an Area subject to protection under the Act (including the Buffer Zone). Therefore, said work does not require the filing of a Notice of Intent, unless and until said work alters an Area subject to protection under the Act.



Massachusetts Department of Environmental Protection
 Bureau of Resource Protection - Wetlands
WPA Form 2 – Determination of Applicability
 Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

B. Determination (cont.)

5. The area described in the Request is subject to protection under the Act. Since the work described therein meets the requirements for the following exemption, as specified in the Act and the regulations, no Notice of Intent is required:

310 CMR 10.04 (Agriculture) (c)(g)
 Exempt Activity (site applicable statutory/regulatory provisions)

6. The area and/or work described in the Request is not subject to review and approval by:

Name of Municipality

Pursuant to a municipal wetlands ordinance or bylaw.

Name

Ordinance or Bylaw Citation

C. Authorization

This Determination is issued to the applicant and delivered as follows:

by hand delivery on

by certified mail, return receipt requested on

3/3/2015
 Date

 Date

This Determination is valid for **three years** from the date of issuance (except Determinations for Vegetation Management Plans which are valid for the duration of the Plan). This Determination does not relieve the applicant from complying with all other applicable federal, state, or local statutes, ordinances, bylaws, or regulations.

This Determination must be signed by a majority of the Conservation Commission. A copy must be sent to the appropriate DEP Regional Office (see <http://www.mass.gov/eea/agencies/massdep/about/contacts/find-the-massdep-regional-office-for-your-city-or-town.html>) and the property owner (if different from the applicant).

Signatures:

Steven Ventresca
Dee Jean
John J. Medeiros
Dell

Chad Kelly
Janet Miller

March 3, 2015
 Date



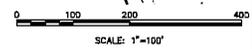
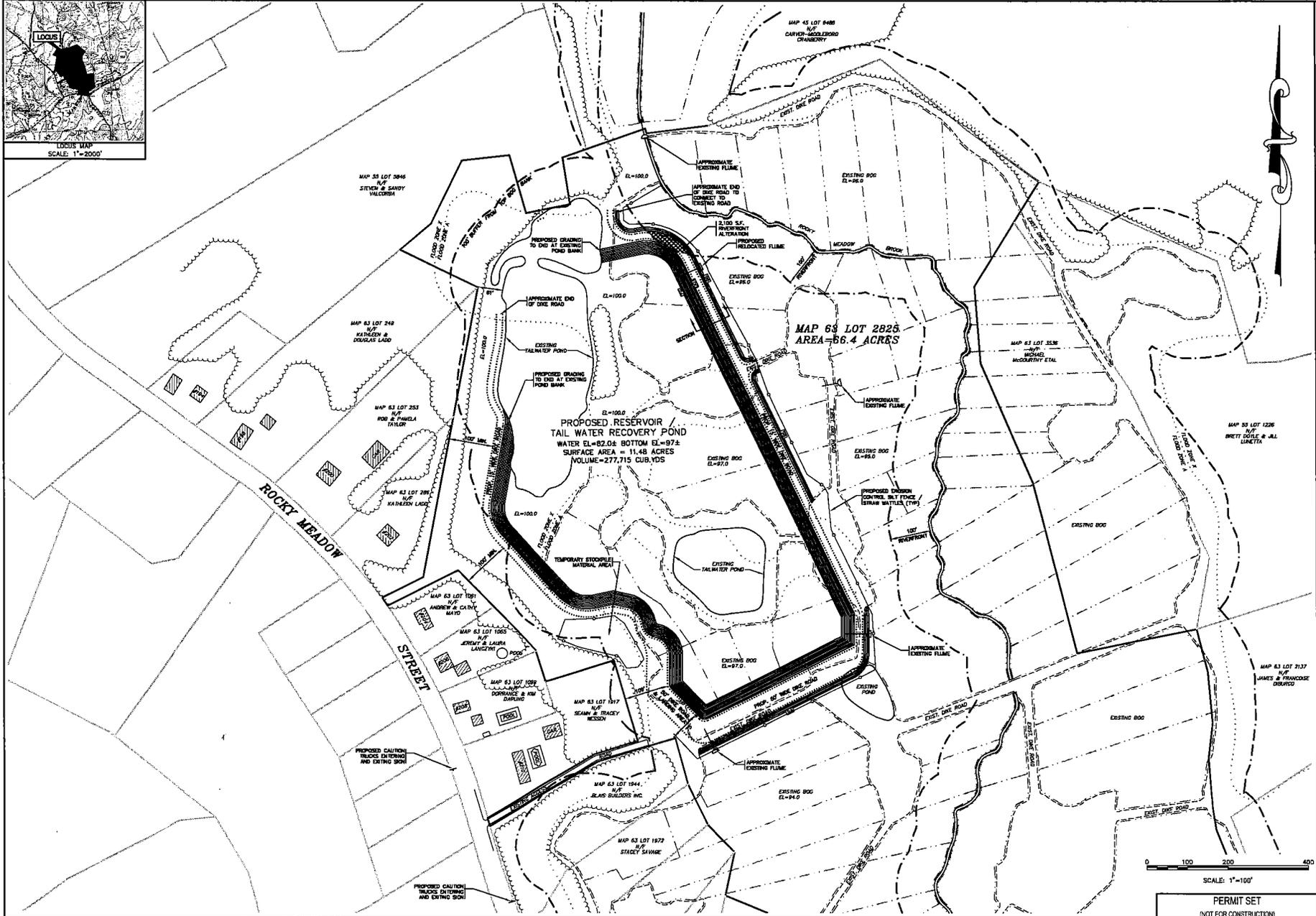
Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands

WPA Form 2 – Determination of Applicability

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

D. Appeals

The applicant, owner, any person aggrieved by this Determination, any owner of land abutting the land upon which the proposed work is to be done, or any ten residents of the city or town in which such land is located, are hereby notified of their right to request the appropriate Department of Environmental Protection Regional Office (see <http://www.mass.gov/eea/agencies/massdep/about/contacts/find-the-massdep-regional-office-for-your-city-or-town.html>) to issue a Superseding Determination of Applicability. The request must be made by certified mail or hand delivery to the Department, with the appropriate filing fee and Fee Transmittal Form (see Request for Departmental Action Fee Transmittal Form) as provided in 310 CMR 10.03(7) within ten business days from the date of issuance of this Determination. A copy of the request shall at the same time be sent by certified mail or hand delivery to the Conservation Commission and to the applicant if he/she is not the appellant. The request shall state clearly and concisely the objections to the Determination which is being appealed. To the extent that the Determination is based on a municipal ordinance or bylaw and not on the Massachusetts Wetlands Protection Act or regulations, the Department of Environmental Protection has no appellate jurisdiction.



PERMIT SET
(NOT FOR CONSTRUCTION)

DATE: NOV. 11, 2014		APPROVED BY:	
DRAWN BY: TME		APPROVED BY:	
CHECKED BY: NFM		APPROVED BY:	
JOB NO.: 14-0312		APPROVED BY:	
SCALE: 1"=100'		APPROVED BY:	
REV.	DATE	BY	APPROVED
A	3-4-15	TME	
B	2-9-15	NFM	
PER CON. CON. REVIEW COMMENTS			
DESCRIPTION			

G.A.F. ENGINEERING, INC.
 PROFESSIONAL ENGINEERS & LAND SURVEYORS
 288 MAIN STREET - WARREN, MA 02571
 TEL: (508) 295-8600 FAX: (508) 295-8634
 CONSENT TO PRINT AND REPRODUCE FOR THE PROJECT AND FOR THE PROJECT OWNER'S USE ONLY. ALL RIGHTS RESERVED. NO PART OF THIS DOCUMENT MAY BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, WITHOUT THE WRITTEN PERMISSION OF G.A.F. ENGINEERING, INC. THE PROJECT OWNER SHALL BE RESPONSIBLE FOR THE ACCURACY OF THE INFORMATION PROVIDED TO THE ENGINEER AND FOR THE DESIGN OF THE PROJECT. THE ENGINEER SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OF THE INFORMATION PROVIDED TO THE ENGINEER OR FOR THE DESIGN OF THE PROJECT.

PREPARED FOR:
ROCKY MEADOW CRANBERRY BOG
 48 WALKER STANBISH DRIVE
 CARVER, MA 02330

PROPOSED TAILWATER POND & EARTH REMOVAL PERMIT PLAN
 DWG. NO. 14-0312
 1 OF 2

EROSION CONTROL NOTES:

- THE SITE CONTRACTOR IS RESPONSIBLE FOR ESTABLISHING AND MAINTAINING SUITABLE EROSION AND SEDIMENTATION CONTROL DEVICES ON SITE DURING CONSTRUCTION AS REQUIRED TO PREVENT SILT FROM LEAVING THE SITE. SILT WILL NOT BE ALLOWED BEYOND CONSTRUCTION LIMITS. ADDITIONAL PROTECTION: ON-SITE PROTECTION MUST BE PROVIDED THAT WILL NOT PERMIT SILT TO LEAVE THE PROJECT CONFINED DUE TO UNFORSEEN CONDITIONS OR ACCIDENTS.
- EROSION CONTROL MEASURES SHALL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLANS DOES NOT PROVIDE SUFFICIENT EROSION AND SEDIMENT CONTROL, ADDITIONAL CONTROL MEASURES SHALL BE IMPLEMENTED. CONTRACTOR IS RESPONSIBLE FOR REPAIRING OR REPLACING EROSION CONTROL DEVICES WHICH BECOME INEFFECTIVE.
- CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS FOR ALL GRADING AND OTHER LAND DISTURBING ACTIVITIES PRIOR TO CONSTRUCTION.
- THE CONTRACTOR IS RESPONSIBLE FOR THE CLEANUP AND REMOVAL OF ANY BUILDUP OF SEDIMENT WHICH ESCAPES FROM THE SITE.
- CONTRACTOR IS RESPONSIBLE FOR CLEANING SILT AND DEBRIS OUT OF ALL STORM DRAINAGE STRUCTURES UPON THE COMPLETION OF CONSTRUCTION.
- THE CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL TEMPORARY EROSION CONTROL MEASURES AFTER CONSTRUCTION IS COMPLETE AND ALL DISTURBED AREAS HAVE BEEN STABILIZED.
- THE CONTRACTOR IS RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH ANY FINES LEVED AGAINST THE SITE FOR VIOLATIONS OF EROSION CONTROL REGULATIONS.
- CONTRACTOR SHALL PROVIDE TEMPORARY GROUND COVER FOR ALL AREAS WITH EXPOSED SOIL WHICH WILL NOT BE DISTURBED BY GRADING OPERATIONS FOR A PERIOD OF THIRTY DAYS OR MORE.
- IF WORK ON THIS PROJECT IS SUSPENDED FOR ANY REASON, THE CONTRACTOR SHALL MAINTAIN THE SOIL EROSION AND SEDIMENTATION CONTROL MEASURES IN GOOD CONDITION DURING THE SUSPENSION OF WORK.
- SPRINKLE OR APPLY DUST SUPPRESSORS TO KEEP DUST WITHIN TOLERABLE LIMITS AT THE CONSTRUCTION SITE.

GENERAL NOTES:

- ALL UNDERGROUND UTILITIES SHOWN OR NOT SHOWN WERE COMPILED ACCORDING TO AVAILABLE RECORD PLANS AND IN PART FROM FIELD SURVEY AND ARE APPROXIMATE ONLY. ACTUAL LOCATIONS MUST BE DETERMINED IN THE FIELD. BEFORE EXCAVATING, BLASTING, INSTALLING, BACKFILLING, BRACING, PAVEMENT RESTORATION, REPAIRS, REPAIRS, REPAIRS, PUBLIC AND PRIVATE, MUST BE CONTACTED INCLUDING THOSE IN CONTROL OF UTILITIES NOT SHOWN ON THIS PLAN. SEE MGL CHAPTER 370A, ACTS OF 1983. CONTRACTORS MUST CALL DIG-SAFE, C.A.F. ENGINEERING, INC. ASSUMES NO RESPONSIBILITY FOR DAMAGES INCURRED AS A RESULT OF UTILITIES OMITTED OR INACCURATELY SHOWN.
- IN GENERAL, THE PLANS ARE DIAGRAMMATIC AND ARE NOT INTENDED TO SHOW EVERY FITTING, CHANGE IN DIRECTION OR DETAIL OF CONSTRUCTION.
- EXISTING CONDITIONS SHOWN HEREON WAS COMPILED FROM AERIAL MAPPING AND GIS DATA.
- ELEVATIONS ARE ASSUMED AND SHOULD NOT BE USED FOR CONSTRUCTION.

SEEDING & MULCHING:

- PERMANENT SEEDED VEGETATED COVER SHALL BE ESTABLISHED ON ALL DISTURBED SOIL SURFACES WITHIN 48 HOURS AFTER FINAL CONSTRUCTION AND CLEANUP.
- SEED BED SHALL BE 4" OF SOIL WORKED INTO SUBBASE.
- SIDE SLOPES SHALL NOT EXCEED 2:1, EXCEPT FOR INTERIOR DIKES AND WHERE NOTED OTHERWISE.
- MAXIMUM SIDE SLOPES IN ALL CUTS & FILLS FACING DOWN SLOPE OFFSITE SHALL BE FINISHED GRADED TO SLOPES OF NOT MORE THAN 2:1.
- WHERE SIDE SLOPES EXCEED 3:1, PROVIDE AN EROSION CONTROL BLANKET OVER THE PLANTED SEED BED.
- PERMANENT SEEDING (BEFORE SEPTEMBER 15)
 - LIME TO PH OF 6.5 ACCORDING TO SOIL TEST OR APPLY RATE OF 100lb/a PER 1000 S.F.
 - APPLY 10-10-10 FERTILIZER AT 18lb/a PER 1000 S.F.
 - INCORPORATE LIME & FERTILIZER IN TOP 4" OF SOIL BY HARROW OR RAKE.
 - SEED 120lb/a PER ACRE OF THE FOLLOWING SEED MIX:
 - HALES SEED Co. CONSERVATION MIX. OR
 - DEP EROSION CONTROL BMP SEED MIX No. 1.
- MULCH DISTURBED SOIL AREAS WITH HAY OR STRAW, 1-2 TONS/ACRE ANCHORED BY A SYNTHETIC MULCH BINDER OR JUTE NETTING TACK TO SOIL OR A STRAW OR WOOD FIBRE MATRIX SANDWICH BETWEEN 2 LAYERS OF PLASTIC MESH ANCHORED TO GROUND MAY BE USED.
- HYDROSEEDING IS AN ALTERNATIVE FOR THIS APPLICATION.
- TEMPORARY SEEDING (AFTER SEPTEMBER 15 BEFORE OCTOBER 15)
 - SEED 120lb/a PER ACRE-100X PURE WINTER RYE.
 - AFTER OCTOBER 15, APPLY EXTRA HEAVY MULCH 150-200lb/a PER 1000 S.F. OVER TEMPORARY SEED PER MULCH SPEC. RESEED & REANCHOR IN THE SPRING.
- TEMPORARY MULCH (OCTOBER 1-MAY 1)
 - HAY OR STRAW, 150-200lb/a PER 1000 S.F., 4" DEEP ANCHOR WITH SYNTHETIC MULCH BINDER, JUTE NETTING OR TACK TO TOP SOIL.
 - BARK & COMPOST OR WOOD CHIPS: 500-900lb/a PER 1000 S.F. OF 12" DEEP, APPLIED WITH 10lb/a NITROGEN FERTILIZER PER TON OF MULCH USED.

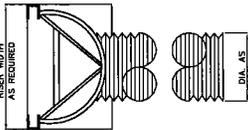
EROSION CONTROL BARRIER DETAIL

N.T.S.

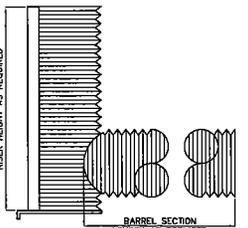
SITE DATA

ZONING DISTRICT: RURAL RESIDENTIAL
 ACCESS ROAD: OFF ROCKY MEADOW STREET
 ASSESSOR'S PARCEL NO.: 2825
 REQUIRED LOT AREA: 80,000 S.F.
 REQUIRED LOT FRONTAGE: 200'
 FRONT SETBACK: 50' REAR SETBACK: 10' SIDE SETBACK: 10'
 FLOOD INSURANCE RATE MAP: COMMUNITY PANEL #25023C0343J AND #25023C0339J (DATED, JULY 17, 2012) ZONE X AREAS OF 0.2% ANNUAL CHANCE FLOOD ZONE A AREAS IN THE 100 YEAR FLOOD (BASE ELEVATION NOT DETERMINED)
 ASSESSORS MAP: 63 PLOT: 2825
 LOCUS DEED BOOK 36462 PAGE 296-288
 OWNER OF RECORD: STEVEN AND PAULINE WARD
 ADDRESS: 47 MYLES STANDISH DRIVE, CARVER, MA 02330
 LOCUS PROPERTY IS SUBJECT TO THE WATER RESOURCE PROTECTION DISTRICT (WRP D 24)

EXISTING		DESC.		PROPOSED	
	CONTOURS		BOG DITCH		DITCH/SWALE
	BOG		BOG		100' BUFFER
	DIKE ROAD		TREXLINE		FLOOD ZONE



TDE VIEW STANDARD CONSTRUCTION



SIDE VIEW STANDARD CONSTRUCTION

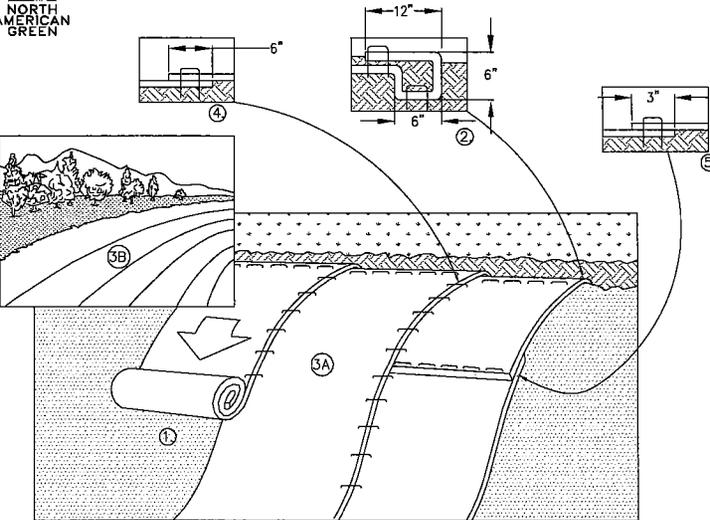
- NOTES:
- UNITS SHALL BE FELKER STANDARD ALUMINUM FOLW GATES OR APPROVED EQUAL.
 - ALL BARREL SECTIONS SHALL BE FITTED WITH ANTI-SEEP COLLARS, MADE AVAILABLE, WELDED OR BOLTED.

FLUME

N.T.S.

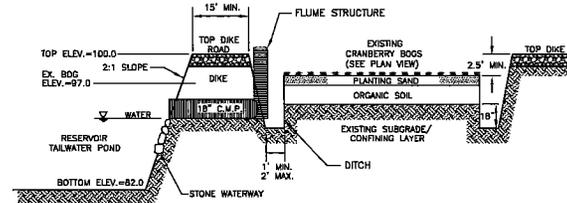


EROSION CONTROL PRODUCTS GUARANTEED SOLUTIONS 14649
 HIGHWAY 41 NORTH EVANSVILLE, IN 47725 800-772-2040
 www.nagreen.com



C125BN EROSION CONTROL BLANKET SLOPE DETAIL

- NOTES:
- PREPARE SOIL BEFORE INSTALLING ROLLED EROSION CONTROL PRODUCTS (RECP'S), 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 RECP'S IN A 6" DEEP X 8" WIDE TRENCH WITH APPROXIMATELY 12" OF RECP'S EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE RECP'S WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" PORTION OF RECP'S BACK OVER SEED AND COMPACTED SOIL. SECURE RECP'S OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" APART ACROSS THE WIDTH OF THE RECP'S.
 - ROLL THE RECP'S (A) DOWN OR (B) HORIZONTALLY ACROSS THE SLOPE. RECP'S WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL RECP'S MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING THE DOT SYSTEM, STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.
 - THE EDGES OF PARALLEL RECP'S MUST BE STAPLED WITH APPROXIMATELY 6" OVERLAP.
 - CONSECUTIVE RECP'S SPICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" APART ACROSS ENTIRE RECP'S WIDTH. NOTE: *N* LOOSE SOIL CONDITIONS, THE USE OF STAPLES OR STAKE LENGTHS GREATER THAN 6" MAY BE NECESSARY TO PROPERLY SECURE THE RECP'S.
 - REFER TO NORTH AMERICAN GREEN FOR INSTALLATION AND STAPLE CONFIGURATION FOR PRODUCT #C125BN.



SECTION THRU TAILWATER DIKE ROAD

N.T.S.

DATE, NOV. 11, 2014	APPROVED BY:	DESCRIPTION
DRAWN BY: THE		
CHECKED BY: MFM		PER REVIEW COMMENTS
LAB NO.: 14-012		WITH
SCALE: 1"=100'		PER CON. COM. REVIEWS
	REV.	DATE
	BY	APPROV.

PROPOSED TAILWATER POND & EARTH REMOVAL PERMIT PLAN	PREPARED FOR:	JOB NO. 14-012
280 PURCHASE STREET WILMINGTON, MA 01973	ROCKY MEADOW CRANBERRY BOG	DWG. 2 OF 2
TEL: (978) 295-6600 FAX: (978) 295-6934	48 MYLES STANDISH DRIVE CARVER, MA 02330	
PERMIT SET (NOT FOR CONSTRUCTION)		