

SUTTON CONSERVATION COMMISSION

March 19, 2014

MINUTES

Approved: 

Present: Mark Briggs, Chairman, Joyce Smith, Co-Chair, Alyse Aubin, Daniel Moroney, Robert Tefft
Staff: Wanda M. Bien, Secretary
Brandon Faneuf, Consultant

Project Updates

7:00pm

Waters Farm Preservation, Inc., yearly report

Present: Ken Kelley President, Norma Bedrosian, Director

K. Kelley read and presented the yearly report for 2013 along with their yearly check, on what the Waters Farm Preservation Inc. has accomplished for the year, and what projects they are working on at the present time.

See Attachment #1

M. Briggs requested that the Waters Farm people keep the Commission updated with all the activities and the progress of the activities that go on at the Farm. The concern is with heavy equipment going in wetland areas, making a mess and leaving it. He then thanked Mr. Kelley with a job well done on the report and all the work they do with the farm itself.

NEW PUBLIC HEARING

187 W. Sutton Road/Dam Project at Adams Pond

DEP#303-0779

The Public Hearing was opened at 7:20pm. M. Briggs read the hearing notice as it appeared in the Millbury Sutton Chronicle.

The project consists of removal of vegetation along the dam embankment & crest, reconstruct eroded embankment adjacent to the spillway, replace riprap for stabilization/protection, remove debris from spillway.

Present: Katy Wilkins, and Dan Buttrick, Engineer, and Daniel Rukukoski, Tighe & Bond, Craig MacDonnell, Bill Davis, from MA Div. of Fisheries & Wildlife.

D. Buttrick told the Board that the Fisheries & Wildlife owns these Dams in Sutton. He explained what they were planning to do to fix and restore each Dam in time. However this particular Dam would be the first one to be repaired this year with the Grant received, as the funding comes available the other Dam would be addressed. He then went into details of how the repair would be done and what they would be doing by cutting trees and replacing trees, putting in riprap on the side where the earthen wall area has eroded, rebuilding the embankment even with the dam on both sides, and possibly using coffer dams to do the work around the spillway area. He said that there is no formal plan yet that includes the operations and maintenance on this particular Dam.

B. Davis explained they want to preserve these dams for maintenance of the habitat and wildlife, continue the recreational value, and address the Commission's concerns.

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B. Faneuf summarized his site visit report
See attachment #2 Ecosystem Solutions Report

M. Briggs questioned the access and parking improvements off the roadway.

K. Wilkins replied that with all the BVW area on both sides of the dam, they are not sure if the parking would be improved.

M. Briggs said when the project is completed, this plan can be used as an "As-Built" plan, if the area is build according to this original plan.

Motion: To close the Public Hearing, by J. Smith
2nd: A. Aubin
Vote: 5-0-0

Motion: To issue an Order of Conditions, noting the bylaw concern of recreation, and for Fisheries and Wildlife to notify the Conservation Commission which contractor will do the work, by J. Smith
2nd: A. Aubin
Vote: 5-0-0

Project Updates

8:15pm

114 Manchaug Road/Holbrook Campground

DEP#303-0768

Present: Paul Hutnak, Andrews Survey, Linda Nelson, owner

P. Hutnak reviewed the past plans and the revised plans showing the wall, stairs, and walkway at 5%. The maple tree would be preserved and they would work around it. The Chapter 91 license was not required as they were not going further out into the lake, just changing the materials used.

B. Faneuf suggested this plan could be considered just field change using the revision dates and the existing proposed grading, along with a summary and narrative to accompany the plan submitted to the Commission for the record.

CONTINUATIONS

44 Lackey Road

DEP#303-0778 from 02-19-14

The continuation was opened at 8:25pm. M. Briggs read the hearing notice as it appeared in the Millbury Sutton Chronicle.

The project consists of construction of a single family residence, asphalt driveway, septic system and related grading.

Present: Tim Callahan, Hawk Consulting, Michael & Cynthia Zilioli, owners

T. Callahan reviewed the revised plans from the last meeting.

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B. Faneuf suggested that if they are going to keep part of the area a hay field that they notify the Commission each time there is a cutting, and a check list should be created for the engineer.

Motion: To close the Public Hearing, by J. Smith

2nd: A. Aubin

Vote: 5-0-0

Motion: To issue an Order of Conditions, by J. Smith

2nd: A. Aubin

Vote: 5-0-0

Lot #3 Silver Ledge Drive

DEP#303-0774 from 02-05-14

The continuation was opened at 8:35pm. M. Briggs read the hearing notice as it appeared in the Millbury Sutton Chronicle.

The project consists of construction of a house, driveway, septic system and associated grading, some work is within the 100' buffer zone of a BVW.

Not Present: Steve O'Connell, or Mike Weaver, Guerriere & Halnon, Matthew DeNittis, owner

This was continued, with the applicant's permission, to April 16, 2014.

Motion: To continue, with the applicant's permission, to April 16, 2014, by J. Smith

2nd: A. Aubin

Vote: 5-0-0

39 W. Millbury Road

DEP#303-0776 from 02-19-14

The continuation was opened at 8:36pm. M. Briggs read the hearing notice as it appeared in the Millbury Sutton Chronicle.

The project consists of construction of a single family home with associated septic system, well, grading, driveway, and wetland crossing, a portion in the BVW and adjacent the Buffer Zone.

Not Present: Brian MacEwen, Graz Eng., Tamam & Zena Jaber, owners NOI filed

This has been continued, with the applicant's permission to April 2, 2014.

Motion: To continue, with the applicant's permission, to April 2, 2014, by J. Smith

2nd: A. Aubin

Vote: 5-0-0

33 W. Millbury Road

DEP#303-0777 from 2-19-14

The continuation was opened at 8:37pm. M. Briggs read the hearing notice as it appeared in the Millbury Sutton Chronicle.

The project consists of construction of a single family home with associated septic system, well, grading, and driveway, a portion in the Buffer Zone to a BVW.

Not Present: Brian MacEwen, Graz Eng., Tamam & Zena Jaber, owners NOI filed

This has been continued, with the applicant's permission to April 2, 2014.

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Motion: To continue, with the applicant's permission, to April 2, 2014, by J. Smith
2nd: A. Aubin
Vote: 5-0-0

34 Bond Hollow Road

DEP#303-0769 from 10-02-13

The continuation was opened at 8:38pm. M. Briggs read the hearing notice as it appeared in the Millbury Sutton Chronicle.

The project consists of construction of a new single family home with private water and septic on site.

Present: Glenn Krevosky, EBT, Inc., David Marois, owner, Kevin Quinn, Quinn Engineering

G. Krevosky reviewed the information from the last meeting.

Joyce Smith stepped down as an abutter.

B. Faneuf read the email from Quinn Engineering, and suggested that they build the detention pond first and close off the driveway at the end of each day. He also suggested they use straw wattles.
See attachment #3 Email from Quinn Engineering and Ecosystem Report

Abutter:

Joyce Smith is concerned with the detention pond at the top of her driveway. Her concern is that it will cause an increase in the water that comes down her driveway.

K. Quinn replied it will not hold water and back up and will go down the town drain to the side of her property.

Another concern is the site lines on the corner where they intend to put the entrance.

G. Krevosky said they will put in the water lines before the basin, and do the swale and basin at the same time before to any other work.

Motion: To close the Public Hearing, by D. Moroney
2nd: A. Aubin
Vote: 4-0-0 J. Smith stepped down

Motion: To issue an Order of Conditions, by M. Briggs
2nd: A. Aubin
Vote: 4-0-0 J. Smith stepped down

BOARD BUSINESS

Wetland Concerns and Updates:

42 Bond Hollow Road - *this area is stable for the winter.*

The Board voted on the minutes of February 19, 2014 & March 5, 2014.

Motion: To accept the minutes of February 19, 2014 & March 5, 2014, by J. Smith
2nd: A. Aubin
Vote: 5-0-0

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The Board endorsed the Permits for 187 W. Sutton Road, 44 Lackey Road, and 34 Bond Hollow Road.

The Board signed Routing Slips for 34 Lackey Road/Retreat Lot, 25 Oakhurst Road, 62 Putnam Hill Road, for Planning Board, and 34 Bond Hollow Road - BOH.

A site visit would be done for 10 Point Way for their Certificate of Compliance, to be signed at the next meeting.

Discussions

78 Torrey Road – it was acknowledged that this was under appeal. **7 Point Way** – when it is time to replant the trees another notice will be sent for him to do the NOI. **Mumford River Low Flow Study** – a support letter would be mailed out to the Blackstone River Coalition.

The Board reviewed the Correspondence

Anyone interested in purchasing the DVD for any public hearing at this meeting, please contact Pam Nichols in the Cable office or you can view the minutes and video at www.suttonma.org.

Motion: To adjourn, by D. Moroney
2nd: J. Smith
Vote: 5-0-0

Adjourned at 9:35pm.

Attached #1



WATERS FARM PRESERVATION, INC.

Waters Road, West Sutton, Massachusetts

508-865-0101 www.watersfarm.com

Mail Correspondence to:

4 Uxbridge Road, Sutton, Massachusetts 01590

Waters Farm Preservation, Inc. 2013 Annual Report and Summary

As we close two thousand and thirteen and look towards the New Year, it is time for me to report to you our year on the Farm. Each year brings its own successes, surprises, challenges and, of course, some delays in reaching our goals and expectations. We are an organization run entirely by volunteers and as such are limited in what we can do. This is the time to recognize what we have accomplished and take pride in what you do to make it all possible.

The most important part of this report is to say thank you to the many volunteers, partners and supporters who have given so much of their time throughout the year. Taking on all sorts of tasks like yard work, cleaning, painting, repairing, planning events and serving on the different committees is greatly appreciated. I don't always have the chance to meet everyone or to say thank you as much as you deserve, but know you have my gratitude for the job you do. It is your dedication and actions that make it all possible.

Two thousand and thirteen proved to be more of a challenge than any other year. The bad weather is preventing us from doing some work around the farm and impacting our events. Our main Farm Days Fall Event was rained out on Sunday and our Donkey and Mule Show needed to be moved a day due to high heat which affects our fundraising abilities.

The Farm has had some TLC. More work was done in the gardens and a pumpkin patch was planted. The 4-H club planted their community garden again this year. Our Tractor Pull area had a great makeover thanks to the King Family and the generous support from tractor people and suppliers. The grounds require the normal upkeep of mowing and weeding which was a cooperative effort with our volunteers and Steve and Roberta Watson. The Watsons are funded in full by Lincoln and Virginia Bordeaux so that the Farm remains a frequently photographed and enjoyed venue. The trails were cleared by the members of Mass Quarter Horse and, for the most part, are clear; they are due for new trail markers soon.

The outbuildings are in good shape for the most part. One of our bigger projects will be sealing or painting the siding on the Blacksmith Shop and Shingle Mill and replacing some doors on the Shingle Mill. We do have some lumber to start on the doors. We will develop a

program to start this project. The Sheriff's department has invited us to send in a request for additional labor to work on our buildings. We made some repairs to the water system around the grounds and will add "how to shut down the system for the season" to our existing procedural documentation.

The main house will have the roof replaced. It was originally slated for the fall of 2013 but was delayed until spring, primarily due to the early winter weather. The painting and repairing of the house windows is about 50 % done. An assessment was made to prioritize based upon the greatest need. We will resume the window work when funds allow. The chimney and kitchen fireplace are showing some wear and will be checked out by professionals to determine what work will be needed.

The new Nathan's Barn is in its second phase. Fund Raising during 2013 for the project included the sale of the Waters Farm apple cookbooks, a raffle of a cord of wood and a Pickers Paradise Barn Sale & Flea Market held in mid October. In 2014, we will undertake a larger fundraising project. The current estimate to build the barn structure is about \$100,000 including windows, doors, and utilities and kitchen.

As part of our Forest Management Plan, we signed a timber harvest agreement with Land Management Services. Mr. Mark Tremblay from Land Management Services will oversee the process for us from marking the timber, working with us to get the necessary paper work and permits required by law, overseeing the project, and putting out the bids to have the work done. Mark has estimated his service to be \$2,000 to \$2,400. This will be payable after the contract is approved and signed and the deposit collected based on the contract. It is estimated we have about 35 acres of forest with timber available. The conservative value of the timber is estimated to be about \$10,000 to \$12,000 in stumpage, depending on conditions, harvest methods, contract requirements, and market timing. We will have a better idea once Mark can access the site in the spring. Barring any issues, we will have the required approvals and contracts awarded, and harvesting starting by late 2014. Part of the timbering will be targeted for horses and could be an opportunity for filming.

Other items during the year to report: our Waters Farm "A Collection of Apple Recipes" cook book continues to sell and will need a second printing. Our "Whispers in the Past" education program is complete and recruiting volunteers for the active rolls and for support positions. Our annual spring plant sale offers a good selection of locally-grown flowers and vegetable plants and provides an opportunity to support the community garden as well.

Our efforts continue in finding ways to open the Farm more often to promote and show off this historic treasure. This year we hosted an open house one Sunday a month in June, July and August with different activities and tours of the property. In addition we had our Donkey and Mule Show and the Bob Anderson Car Show in July, and our Annual Farm Days Fall Festival in October. We held a new Barn Sale and Flea Market in October and ended the season with our Christmas Luncheon.

Our Donkey and Mule Show and Car Show remain a popular event and are growing each year. We are exploring ways to add other events and activities to broaden the appeal to more people and to increase attendance and revenue.

Our Farms Days Fall Festival, for the sixth year in a row, was impacted by bad weather. We managed to have a good day on Saturday. Sunday wasn't as nice as the rain once more fell upon us and most of the day was washed out, although many hearty souls put on their rain gear and participated in the events including the lumberjack show. This is our major fundraiser and a successful Farm Days is important. We have considered changing dates but this introduces new issues to deal with. We are still able to cover our costs but are investigating other funding sources including corporate sponsorships for our events.

The Barn Sale and Flea Market turned out much better than we could have hoped given that it was the first year and was organized in just a few weeks. This was held after Farm Days in the new Nathan's Barn area with hopes of showing off what we are doing and planting the seed for future donations for our Barn Raising Campaign. We received many donations of items to sell as well as offering spaces for rent. The weather cooperated and everyone that participated was interested in returning for our next one. Norma opened up the cook shack and sold our famous Waters Farm Apple Crisp.

The farm still continues to host local community groups, neighbors, and some private functions, mainly garden weddings. The lack of facilities and the logistics on and around the farm limit the number and type of functions that we can accommodate, which limits that potentially valuable source of revenue.

Our planning for two thousand and fourteen has started. In January we held our first offsite meeting to start planning our events and expect to have our calendar of events finalized by April. This was a perfect lead in to how to improve our advertising and promoting, which we will continue to discuss at our Farm Days Meetings. It was also suggested that we can take advantage of long advance-publishing deadlines by setting event dates earlier. Publications like Yankee Magazine require 6 months or more in order to be considered space allocation.

Fund raising is still a high priority for us. This year, we have established a committee to for our capital and building campaigns and will recruit people familiar with this process to help. Some of the other items on our to-do list are to review our maintenance needs, inventory, insurance coverage, and volunteer recruitment and participation.

As we close this year and start the next, you must look around and see all that we have accomplished. Our volunteers log over 20,000 hours each year and remain committed to our success. We cannot dwell on what we have not. We have survived the economic downturn in a time that has seen many nonprofit organizations dissolve or change radically. What we have done is still an awesome job. Together, one step at a time, we will carry on the mission of Waters Farm.

Thank You,

A handwritten signature in dark ink, appearing to read 'Ken', followed by a long horizontal flourish.

Ken Kelley

President

Waters Farm Preservation, Inc.

**Brandon B. Faneuf, Conservation Consultant
Sutton Conservation Commission**

Application Type: Notice of Intent
Project Location: 187 West Sutton Road (Adams Pond Dam)
Map 22, Lot 40
Applicant: Craig MacDonnell; MA Division of Fisheries & Wildlife
Owner: Same
Representative: Daniel Rukakoški; Tighe & Bond
Inspection Date: 02/28/14 (snow & frozen conds)
Memo Date: 3/10/14

Introduction

The location is 187 West Sutton Road and is the site of Adams and Schoolhouse Ponds. The entrance, marked by a gate, is across the street from 188 W. Sutton Road. A peninsula (isthmus if you include the structure itself) leads to the outlet structure between Adams and Schoolhouse ponds. The property is owned by the Massachusetts Division of Fisheries & Wildlife (F&W) and is part of the Merrill Pond Wildlife Management Area.

A site visit was made on the morning of February 28, 2014 with representatives from Tighe & Bond as well as F&W to discuss the proposed project. An on-site meeting prior to filing the NOI was expedited because of the timing involved with funding sources.

WPA Wetland Resource Areas On-Site

1. Inland Bank and associated 100' Buffer Zone (BZ)
2. Land Under Waterbodies & Waterways

Additional Resource Areas Under the Sutton Bylaw

1. Riverfront District
2. Adjacent Upland Resource Area

Additional Public Interests Protected Under the Sutton Bylaw

1. Erosion and Sedimentation Control
2. Aquatic Life Habitat
3. Recreation & Aesthetics

The edge of water (i.e. Bank) is the boundary of the Resource Areas, and is flagged as such. I have no comments on the wetland delineation as presented on the site plans.

Current Proposal

The purpose of this application is to make repairs to the existing dam between Adams Pond (upgradient side) and Schoolhouse Pond (downgradient side). This includes reconstructing an eroded section of dam adjacent to the spillway, cutting

woody vegetation on and within 20 ft. of the dam's embankments, removing stumps and installing slope protection on the upstream embankment face, and the removal of debris within the spillway, mostly consisting of beaver damming refuse. The Applicant expects the project will improve the condition of the dam and also preserve the wildlife conservation and passive recreational opportunities that Adams Pond and the Merrill Pond Wildlife Management Area provide.

It is important to note that the concrete dam structure itself will not be repaired at this time; only erosion and undercutting that has occurred around it, as well as removal of vegetation along the earthen dam, and repair of damage to the upgradient side of the earthen dam. Use of temporary coffer dams is required to work in the dry.

Comments

I have already made comments via email and received responses that the plan set submitted as part of the NOI was based on. In order to give the Commission an idea of what my main comments were, they are presented below:

1. Add snow fence with erosion controls and remove erosion controls and only install snow fence where erosion is not expected to be an issue:

Snow fence: we understand the reason for the snow fence and have added it to the plans.

2. Limit importation of topsoil due to the threat of invasive plant introduction.

*Topsoil: vegetation will be managed throughout the site and invasive species will be dealt with as needed, if they would arise on site.
Vegetation/long term maintenance is discussed in Section 4 of the NOI.*

3. What is the status of obtaining a dam safety permit?

Dam Safety Permit: DFW is in the process of obtaining one.

4. Is there a long term management plan in place for this site?

Long Term Management: A management scheme has been identified in Section 4 of the NOI and DFW supports continued maintenance of this site.

I will add that there is no specific schedule for maintenance of vegetation on the dam, nor is there a stated methodology as to how vegetation will be managed (e.g. herbicides?).

5. Is there a formalized O&M Plan for the dam's maintenance?

Formalized O&M Plan: As of right now a formalized O&M manual has not been created for this structure. The operation and maintenance measures described in the Notice of Intent describes the work that DFW anticipates performing following completion of construction

6. No stumping on the north side of the earthen dam? Will the voids left from stumping the south side be filled?

Stump and fill voids on the dam: You are correct, there are currently not adequate funds to remove stumps and roots from the dam and dike. In the proposed bid alternate 1, this work would be performed on the upstream face of the dam to allow for the installation of slope protection, but this alternate is unlikely to be affordable unless bids come in unexpectedly low.

7. Add LOW as specified on the red-lined plan.

Limits of work have been closed off and updated to include Temporary Limit of Work and Ongoing Limit of Work (descriptions of each are stated in Notes 10 & 11 on Sheet 3)

8. Are erosion controls necessary along the dike/earthen dam?

Erosion control will remain along the dike to protect the adjacent resource areas, the potential for erosion is likely to be limited, but we would rather be cautious.

9. Notes on plans state hydroseeding will be performed. I recommend using a tackifier on steep slopes.

Hydroseeding – See note 5 regarding tackifier on steep slopes.

10. Depict dedicated stockpile areas.

Stockpile material – addressed issue of E&S control around the stockpiles, noted on Sheet 5 under BMPs. The limited work area that is available will pose challenges to a contractor, so we did not define specific locations for stockpiles; instead, the plans just designate the work area and the protection measures that the contractor will need to implement.

11. In order to give options for dewatering, add notes saying that a silt bag may be used as a dewatering device.

Added silt bag & sediment trap to Construction Dewatering Note of Sheet

Otherwise, I have attached my red-lined copy of the site plan with all my comments.

Sincerely,
Ecosystem Solutions, Inc.
Brandon B. Faneuf, M.S., Principal
PWS, RPSS, CPESC, CWB



Extend to road

What is the chance? If not much, fence on it.

Equipment to be used in/around water must be cleaned to prohibit invasives

Limit importation of topsoil so as to prevent invasives, unless you want to put a guarantee on it. so re-use existing first. but 6" topsoil is excessive. I'd rather see no import of topsoil.

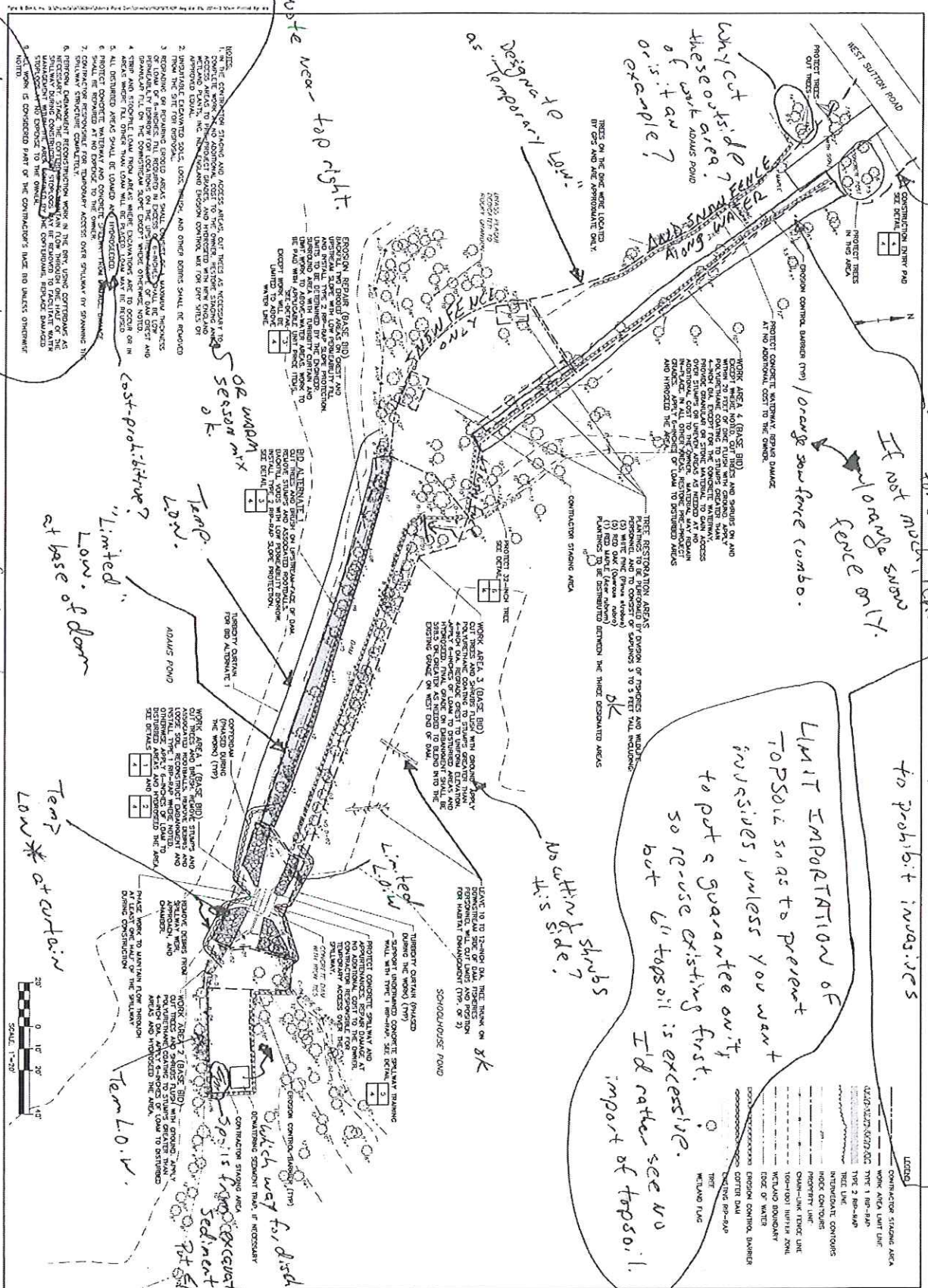
shrub active? it's side?

See note near top right.

Hydrated on steep slopes should have tackifier added. Slopes can't be CCA treated. At a natural ok.

Use of jute mesh 100% biodeg. is ok, if necessary.

* Limited low area is the area where long term, limited vegetative mgmt. will be allowed/maintenance of spillway. To going to need a long term veg. mgmt. plan for dam.



FOR PERMITTING ONLY
NOT FOR CONSTRUCTION

Tigre & Bond
Consulting Engineers
www.tigrebond.com

Massachusetts Division of Fisheries and Wildlife	Adams Pond Dam Repair Project	West Sutton Road Sutton, Massachusetts
PROJECT NO.	14-020	
DATE	11/10/14	
PROJECT NAME	Adams Pond Dam Repair Project	
PROJECT LOCATION	West Sutton Road, Sutton, MA	
PROJECT OWNER	Massachusetts Department of Transportation	
PROJECT MANAGER	John J. Bond	
PROJECT ENGINEER	John J. Bond	
PROJECT DRAFTER	John J. Bond	
PROJECT CHECKER	John J. Bond	
PROJECT APPROVER	John J. Bond	
PROJECT REVIEWER	John J. Bond	
PROJECT DATE	11/10/14	
PROJECT SCALE	1"=20'	
PROJECT SHEET	SHEET 3	

Brandon B. Faneuf, Conservation Consultant
Sutton Conservation Commission

Application Type: Request for Determination of Applicability
Project Location: 34 Bond Hollow Road / Map 23, Lot 103
Applicant: David Marois
Owner: Same (per Sutton CAI Query Manager Online)
Representative: Glenn Krevosky, EBT Environmental Consultants, Inc.
Memo Date: 3/10/14

Introduction

The location is 34 Bond Hollow Road. An RDA was submitted and the Commission required a Notice of Intent in the fall of 2013.

Wetland Resource Areas On-Site

1. Bordering Vegetated Wetland (BVW) & associated 100' Buffer Zone

Additional Resource Areas under the Bylaw

2. Isolated Vegetated Wetlands (IVW)
3. Adjacent Upland Resource Area (AURA) to all of the above.

Additional Public Interests Under the Bylaw

4. Erosion and Sediment Control

The applicant has flagged all Resource Areas on-site. I have no comments on the wetland delineation.

Current Proposal

To build a single family house with associated septic system, well, driveway and small recreational yard. Yard space is really limited to the area immediately behind the house, which is minimal, due to the moderate to steep topography of the site.

The application has been lingering while the Applicant was preparing HydroCAD calcs for bio-retention area design, and a 'Section 7' review to justify the permanent alteration of the IVW. To that effect, I will refer to a 9/19/13 memo I created for this project, as well as include new commentary below:

Comments

The following comments are from 9/19/13:

1. The applicant will provide engineering calculations regarding the proper sizing of the stormwater structure at the bottom of the hill that will capture runoff coming

from the site and prevent potential downhill flooding to the maximum extent practicable. Mr. Briggs mentioned that back-to-back 100 yr. storm analysis is the norm for these kinds of calculations. My commentary is that given the size of the area with which the applicant has to work with, this may not be practicable. However, the applicant should design the structure to handle as much runoff as possible. This includes the lower section of driveway, so as to prevent cumulative impact downhill, especially at the Smith property where channelization of the hillside has occurred, all the way down to Bond Hollow Swamp. The standard to be observed for compliance with the Bylaw here is no net increase in runoff. Ms. Smith also had concerns that the concentration of water in the stormwater structure would possibly affect groundwater breakout on her property should be investigated.

The Applicant has provided for the design of a bio-retention area at the bottom of the hill that will receive excess surface water from the site and prevent downhill flooding and/or erosion. The Applicant has also proposed to re-grade the swale/ditch on the site of Bond Hollow road and lower (by 6") the inlet throat of the catch basin directly south of the driveway entrance, as well as replace the catch basin structure. This is expected to increase capture in the swale and surface of the road and direct it into the catch basin, reducing overland flow.

It is my opinion that a peer review of the Stormwater calcs is not necessary; the Applicant has fulfilled the intent of the need for stormwater review.

2. The applicant will flag the wetland at the top of the hill on-site, will be reviewed by the applicant's wetland scientist for accuracy and modified if necessary. Once complete, the applicant will contact myself for final verification.

I have been to the site at least two times since the fall of 2013 and did not see flags at the top of the hill. They are not depicted on the site plan. However, a Condition can be put in the Order that those flags were not verified, but it appears that the extent of the Buffer Zone/AURA associated with it is far enough away from the house site that it is insignificant to the proposed project.

3. The applicant will ask permission to enter the adjacent parcel of land where the "farm pond" exists, and flag the western boundary of that wetland as it exists all the way down the hill. This wetland shall be depicted on the site plan along with its 100ft. Buffer Zone and Adjacent Upland Resource Area (AURA) under the Bylaw. It will be field-reviewed by myself for accuracy.

Done and depicted on the site plan and is a BVW.

4. Regarding the isolated wetland that was altered, the applicant will flag the boundaries of this area in the field based on hydrology and hydric soils. It will be depicted on the site plan along with its 100ft. Buffer Zone and Adjacent Upland Resource Area (AURA) under the Bylaw. It will be field-reviewed by myself for accuracy.

Done and depicted on the site plan as an IVW.

5. Although the Commission appears to have come to a decision to allow mitigation for the isolated wetland (but has not definitely allowed at this time), it is again the responsibility of the applicant to demonstrate that the public interests stated in Section 1 of the Bylaw will not be adversely affected as a result of the proposed activities. These public interests, as outlined in Section 1 of the Bylaw, include Public or Private Water Supply, Groundwater, Flood Control, Erosion and Sedimentation Control, Storm Damage Prevention, Water Quality and Level Water Pollution Control, Fisheries, Wild and Aquatic Life Habitats, All Rare and Endangered Species Habitat, Agriculture, Aquaculture, and Recreation and Aesthetic values. The applicant *must* present information that the value of the isolated wetland area is low, and that it is either not providing, or under-providing the functions and values that act toward the public interests stated above. Again, the burden of proof is on the applicant. That being said, it is my reading of the Bylaw that the Commission *may* allow for alteration of a resource area protected under the Bylaw provided that adequate mitigation is proposed. This mitigation may or may not include replication of the altered wetland resource area. Therefore, other forms of mitigation may be proposed *as long* as the functions and values of the affected area are at least maintained, if not improved. Still, the applicant must provide an analysis, to be examined by the Commission, that the alteration is justifiable under the provisions of the Bylaw.

I recommend the analysis be done in writing and submitted with the Notice of Intent. This should be done in all cases in order to maintain consistency in review, not to mention the fact that the Commission must ultimately explain and justify in the Special Order of Conditions why certain alterations were allowed under the Bylaw. This kind of consistency in procedure is especially important when the next applicant comes forward to alter an area protected either under State statute or the local bylaw and the Commission decides that the area is too important to the public interests to allow alteration. It will stave off "arbitrary and capricious" lawsuits and/or appeals.

Done by Glenn Krevosky. The mitigation measures employed offset impacts that could be considered adverse otherwise.

New Comments

Sheet 1

6. Draw a "Permanent Limit of Work" along the edge of the 100' AURA associated with the portion of the BVW to the north and west of the site that is not depicted.

7. Draw at "Temporary LOW" around the two Buffer Zone Restoration Areas with a note "to become Permanent LOW upon completion of restoration work."

8. Remove the words "non-jurisdictional" from under 'Isolated Vegetated Wetland.' This is a jurisdictional area under the Sutton Wetlands and Riverfront District Administration Bylaw. Otherwise note that it is non-jurisdictional under MGL 131, §40 and 310CMR 10.00 but jurisdictional under the Sutton Bylaw.

9. Change "100' Wetlands" with "100' A.U.R.A" and remove the "50' Wetlands" notation and line.

10. Make sure that the extent of the 100' A.U.R.A. includes that associated with the IVW. The IVW may be permanently altered as a result of an Order of Conditions, but the plan must show the extent of the 100' A.U.R.A. as much as it must show the outline of the IVW itself.

11. Add "See Wetland Note #6 on Sheet 3 of 3" in association with the Buffer Zone Restoration (1,750 and 3,520) callouts.

Sheet 3

12. Under Erosion Control Notes, remove the word 'haybales.' Haybales are prohibited. They can be weed-free strawbales, straw wattles, or compost soxx.

13. Under Wetland Note 1, Delineation is misspelled. Please correct.

14. Under Wetland Note 8, remove the word non-jurisdictional or note that it is non-jurisdictional under MGL 131, §40 and 310CMR 10.00 but jurisdictional under the Sutton Bylaw.

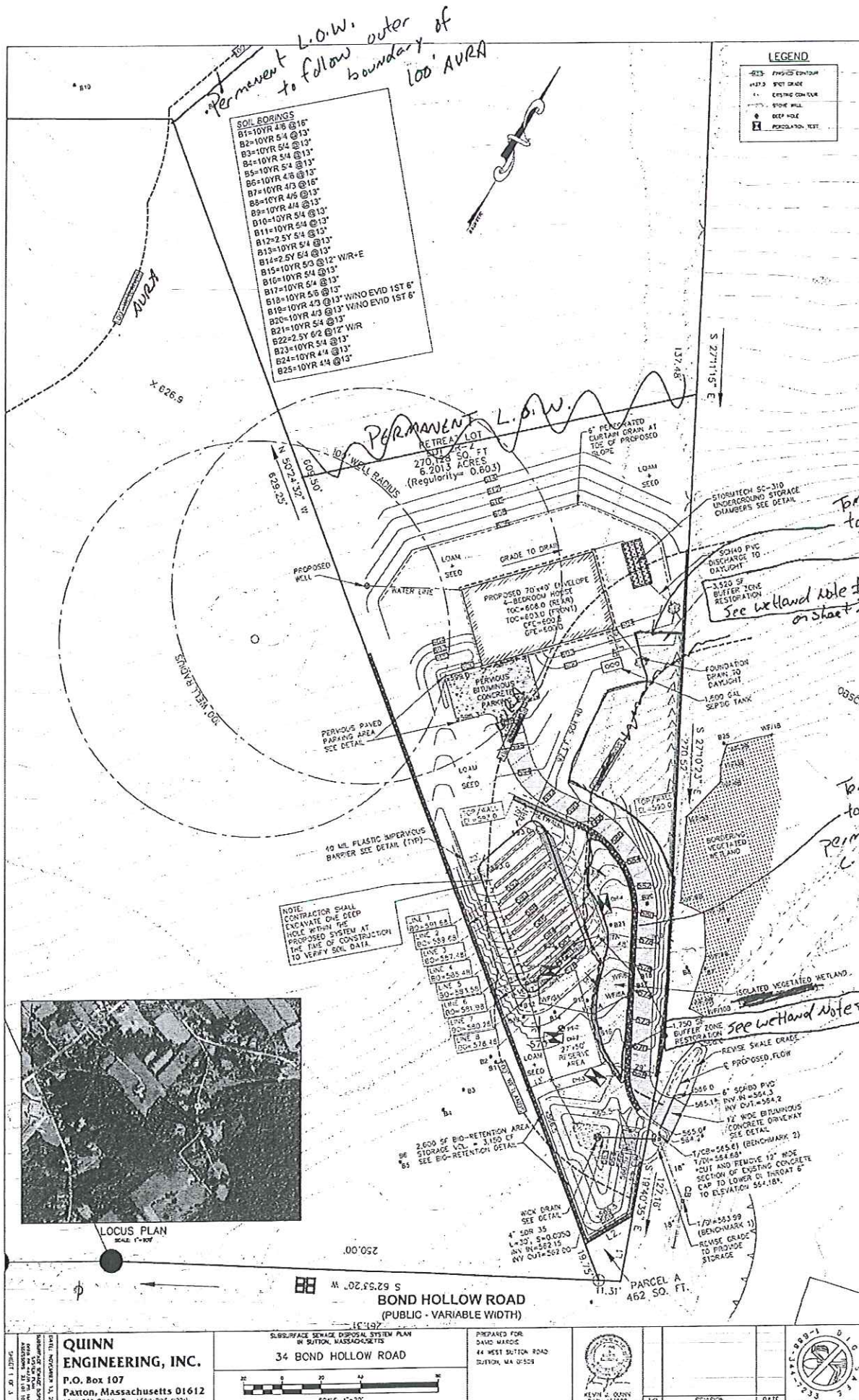
15. Add a Note 9 that addresses the invasive species eradication plan for the Buffer Zone Restoration areas presented by Glenn Krevosky in Note 5 of page 2 of his report dated February 28, 2014.

NHESP was contacted by the Applicant and they responded with a letter of "No Take," which is dated December 23, 2013.

If the above comments are addressed, I believe the proposed will not create adverse impact to the Public Interests protected by MGL 131, §40, 310CMR 10.00, and the Sutton Bylaw project can be conditioned for approval.

Sincerely,
Ecosystem Solutions, Inc.
Brandon B. Faneuf, M.S., Principal
PWS, RPSS, CPESC, CWB





EROSION CONTROL NOTES:

- [illegible]

LONG TERM POLLUTION PREVENTION PLAN MEASURES:

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POLLUTION CONTROL NOTES:

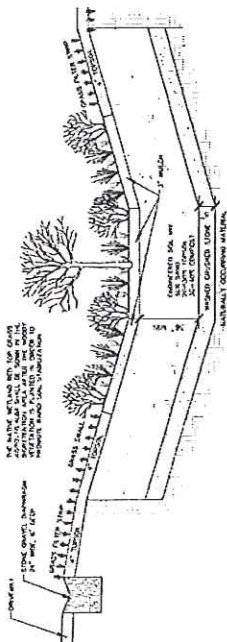
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- 2) THE REASON FOR THE MARKET FALL WAS THE OVERVALUATION OF THE MARKET. THE MARKET WAS OVERVALUED AND THE INVESTORS WERE NOT WILLING TO PAY THE OVERVALUED PRICE. THE MARKET WAS OVERVALUED AND THE INVESTORS WERE NOT WILLING TO PAY THE OVERVALUED PRICE.
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WETLAND NOTES - 11/25/51

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9. Invasive Plant removal notes
per Glenn K. report.

SYMBOL	QUANTITY	COMMON NAME		GENUS & SPECIES	SIZE
		RED NAME	ALB. NAME		
TREES	10				2' CALIPER
SHRUBS	15	WICH BUSH	BUDDLEIA	VACCINIUM COMPLANATUM	3-5' TALL
	10	NORTHERN ARNOLDWOOD		VACCINIUM OCCIDENTALE	3-5' TALL
	15	SLAVY CORONADO		CONIUS ANTONI	4-5' TALL
	15	COMMON WINTERBERRY		ILEX VERTICILLATA	3-5' TALL
GRASSES	5000			ACROSTICHUM ALBA	8-10"



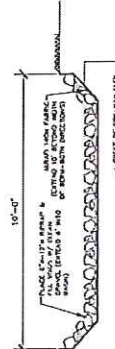
BIO-RETENTION AREA DETAIL



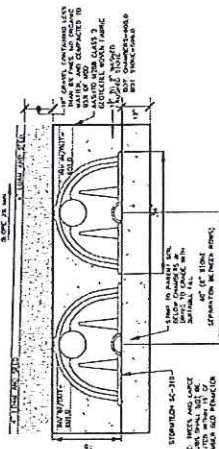
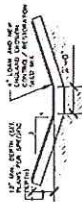
PERVIOUS PAVEMENT DETAIL



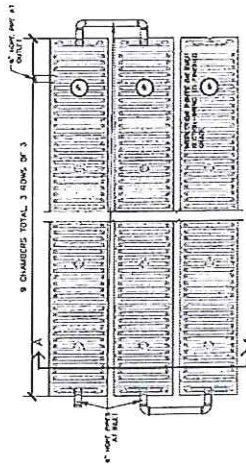
WICK DETAIL



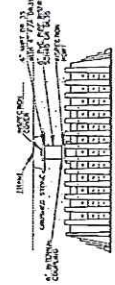
GRASS SWALE DETAIL



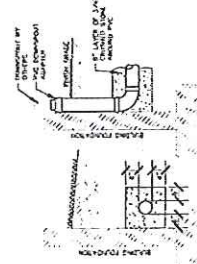
STORMTECH SC-310 CHAMBER SECTION A-A



STORMTECH SC-310 DETAIL



INSPECTION PORT DETAIL



ROOF DRAIN DETAILS



Wanda Bien

From: Chris Keenan
Sent: Tuesday, March 18, 2014 11:02 AM
To: 'Glenn E. Krevosky'; 'Dave Marois'
Cc: 'Brandon Faneuf'; 'Wanda Bien'
Subject: RE: David Marois
Attachments: IMG_0004.JPG

Just a quick follow up with a photograph of the inside of the existing catch basin structure. Holler with questions.

Chris

-----Original Message-----

From: Chris Keenan [mailto:ckeenan@qeicivil.com]
Sent: Tuesday, March 18, 2014 9:14 AM
To: 'Glenn E. Krevosky'; 'Dave Marois'
Cc: 'Brandon Faneuf'; 'Wanda Bien'
Subject: RE: David Marois

Brandon,

At the request of the highway department, Quinn Engineering investigated the possibility of lowering the inlet of the existing catch basin to allow more stormwater to enter the catch basin adjacent to the proposed driveway for Mr. Marois' parcel. By modifying the cap of the structure, 6" of elevation could be gained. Mr. Marois agreed to replace the concrete cap to the structure (in the right of way), allowing for a lower elevation inlet which captures more stormwater runoff coming down Bond Hollow Road. The plans prepared by Quinn Engineering also show a minor area of grading around the catch basin (and again in the right of way), to allow for a small area of storage around the existing catch basin, to help prevent stormwater from crossing Bond Hollow Road.

The catch basin has a 2' sump with 1' of sediment in it. The catch basin is constructed of concrete blocks and is not a solid wall structure. To add depth to the sump, the entire catch basin would need to be replaced. The outlet pipe sits at the very top of the structure, with the new cap directly on top of the crown of the pipe. To install a hood over the pipe, the cap would need to be raised to allow the connection of the hood to the sidewall of the catch basin structure. As the applicant is lowering the structure by having a new cap installed, it's not possible to install a hood over the existing pipe.

The bioretention area proposed on Mr. Marois' property has a subgrade connection to the existing catch basin in the form of a 6" pvc pipe connected to a gravel wick system. The area also has a 10' wide overflow spillway at the property line, which flows directly toward the existing catch basin. This spillway is not intended to carry water under routine storm events, however, should an event cause water to flow through the spillway, the area in the right of way around the catch basin is proposed to be regraded to allow for water to collect around the basin (approximately 1' of depth). This will direct any water into the catch basin inlet, and prevent it from crossing Bond Hollow Road. The swale on the high side of the proposed driveway (within the right of way) is also proposed for a grading revision, again to allow for a small amount of increased storage capacity on the north side of Bond Hollow Road and to prevent surface runoff from crossing the roadway.

Please contact my office with any further questions.

Chris

Date: 3-19-14

Name	Address	Agenda Item
Ken Kellogg	14 HIGHLAND VIEW IRIDE SUTTON	WATERS FARM
BILL DAVIS	MA FISH + WILDLIFE	ADAMS POND DAM
Dan Buttrick	Tighe St Sand	Adams Pond Dam
Tim Callahan	30 Horne Drive	Zilich Con Corp
Chris Keenan	Quinn Engineering, Paxton, MA	34 Bowdoin Rd.
Dave Marois	44 W. Sutton Rd Sutton	" " "
John Gertman	42 Windsor St Wore	
Rosbiee Eastman	80 Town Farm Rd Sutton	
David Gibson	114 Marchway Rd.	Old Hildbrook Bend
Glenn Kewsey	601 Main St Weymouth	Marvia