

AGENDA

Inland Wetland Agency
Regular Meeting
Tuesday, July 6, 2010
Council Chambers, Audrey Beck Building

Call to Order: 7:00 PM

Review of Minutes of Previous Meetings and Action Thereon:

6.07.2010 - Regular Meeting
6.15.2010 - Field Trip

Communications:

Conservation Commission: W1455 - St.Jean, Hickory La
GM monthly business memorandum

Old Business:

W1455 - St.Jean - Hickory Lane - above ground pool in buffer

New Business:

Request for renewal:

W1457(1322) - Yankee - Hillyndale Rd

Request for Exemption:

W1458 - Town of Mansfield - Moss Sanctuary
4 Watercourse crossings and approach trail work within 150'

Reports of Officers and Committees:

Other Communications and Bills:

Adjournment:

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DRAFT MINUTES
MANSFIELD INLAND WETLANDS AGENCY
Regular Meeting
Monday, June 7, 2010
Council Chambers, Audrey P. Beck Municipal Building

Members present: R. Favretti (Chairman), M. Beal, R. Hall, K. Holt (arrived at 7:29), B. Pociask, P. Plante,
Members absent: J. Goodwin, G. Lewis, B. Ryan
Alternates present: F. Loxsom, K. Rawn
Alternates absent: V. Stearns
Staff present: G. Meitzler (Wetlands Agent)

Chairman Favretti called the meeting to order at 7:03 p.m. and appointed alternates Rawn and Loxsom to act in members' absence.

Minutes:

5-3-10 – Hall MOVED, Rawn seconded, to approve the 5-3-10 minutes as written. MOTION PASSED UNANIMOUSLY.

Communications:

The 5-19-10 draft Conservation Commission minutes and the 6-2-10 Wetlands Agent's Monthly Business report were noted.

Wetlands Agent Meitzler stated that he will be contacting Chernushek regarding the next steps for the site. Meitzler also stated that Mansfield Auto has been notified by CT DEP that they can only stock pile up to 10 cubic yards of used tires on site. Mansfield Auto is working to have them removed but anticipates approximately 3 months before the hauler can accommodate.

Old Business:

W1453 - Gottmann - Gurleyville R - deck in 150' area

Plante MOVED, Hall seconded, to grant an Inland Wetlands License pursuant to Section 5 of the Wetlands and Watercourses Regulations of the Town of Mansfield to Karen and Clifford Gottman (file no. W1453), for construction of a 324 square foot deck, on property owned by the applicants, located at 580 Gurleyville Road, as shown on a map dated 7/22/99 revised through 4/26/10, and as described in other application submissions.

This action is based on a finding of no anticipated significant impact on the wetlands, and is conditioned upon the following provision being met:

1. Appropriate erosion and sedimentation controls shall be in place prior to construction and maintained during construction and removed when disturbed areas are completely stabilized.

This approval is valid for a period of five years (until June 7, 2015), unless additional time is requested by the applicant and granted by the Inland Wetlands Agency. The applicant shall notify the Wetlands Agent before any work begins, and all work shall be completed within one year. Any extension of the activity period shall come before this Agency for further review and comment. MOTION PASSED UNANIMOUSLY.

New Business:

W1455 - St.Jean - Hickory Lane - above ground pool in buffer

Hall MOVED, Pociask seconded, to receive the application submitted by Mike St. Jean and Patty St. Jean (IWA file #1455) under Section 5 of the Wetlands and Watercourses Regulations of the Town of Mansfield for the installation of a 27' diameter above ground pool at 43 Hickory Lane, on property owned by the applicants, as shown on a map dated June 2, 2010 and as described in other application submissions and to refer the application to the staff and Conservation Commission for review and comment. MOTION PASSED UNANIMOUSLY.

W1456 - UConn - Notice of Utility work vic. building opposite Swan Lake

Meitzler summarized the work and the consensus of the Agency was that no action or communication was necessary.

Reports of Officers and Committees:

Chairman Favretti set a 6/15/10 Field Trip at 2pm.

Other Communications and Bills:

Noted.

**IWA recessed at 7:14 p.m. to open PZC Meeting.

**IWA reconvened at 7:36 p.m.

Public Hearing:

W1451 - Town of Mansfield - IWA Regulation revision per new statute

Chairman Favretti opened the Public Hearing at 7:37 p.m. Members present were Favretti, Beal, Hall, Pociask, Plante, and alternates Loxsom and Rawn, both were appointed to act. G. Meitzler, Wetland Agent, read the legal notice that appeared in the Chronicle on 5/25/10 and 6/2/10. Meitzler noted that the proposed change is a regulatory change made by DEP and needs to be reflected in the Town regulations. It has been referred to the Conservation Commission, Town Council, Town Attorney and CT DEP. He referenced a 6/1/10 memo from the Town Attorney who accepted the proposed revisions.

Chairman Favretti noted no public or Agency comments or questions. Hall MOVED, Holt seconded, to close the Public Hearing at 7:40 p.m. MOTION PASSED UNANIMOUSLY.

Hall MOVED, Pociask seconded, that the Mansfield Inland Wetlands Agency adopt the attached Mansfield Inland Wetlands Regulation revisions to Sections 7.9 and 11.7, pursuant to the Connecticut General Statutes and State regulations. The adopted regulation revisions were presented as a 4/16/2010 draft at the Agency's 6/07/2010 Public Hearing, and are to become effective on July 1, 2010.

The adopted regulation revisions have been referred to the Commissioner of the Department of Environmental Protection, the Mansfield Town Council, the Mansfield Conservation Commission, and Dennis O'Brien, Town Attorney.

These revised regulations have been drafted in the format of the Department of Environmental Protection Model Regulations which are widely used by towns throughout the state and maintain statutory requirements very closely.

Staff is further instructed to forward a copy of the regulations, as adopted by the Inland Wetlands Agency, to the Commissioner of the Department of Environmental Protection. MOTION PASSED UNANIMOUSLY.

Adjournment:

Favretti declared the meeting adjourned at 7:47 p.m.

Respectfully submitted,

Roswell Hall, Acting Secretary

MINUTES

MANSFIELD INLAND WETLAND AGENCY/PLANNING AND ZONING COMMISSION
FIELD TRIP
Special Meeting
Tuesday, June 15, 2010

Members present: R. Favretti (1-3), M. Beal, K. Rawn, K. Holt (2-4)
Staff present: G. Meitzler (Wetlands Agent, Assistant Town Engineer), C. Hirsch, (Zoning Agent)

The field trip began at 2:00 p.m.

1. GREEN PROPERTY, 1090 Stafford Rd., review of 2009 gravel removal site, PZC file #1258. Members observed the original excavation site noting the progress in full stabilization of the steep slope. The new area of proposed excavation was not observed since work has not yet started. Mr. DeSiato arrived as members were leaving. No decisions were made.
2. BANIS PROPERTY, Pleasant Valley Rd., review of 2009 rock removal site, PZC file #1164. Members were met on site by owner Steven Banis. Members observed site characteristics of the current activity in Phase 3 of the operation. No decisions were made.
3. HALL PROPERTY, 35 Mansfield Hollow Rd., review of 2009 gravel removal site, PZC file #910-2. Members were met on site by owner Edward Hall. Mr. Hall pointed out the area of current activity and members observed the site characteristics. No decisions were made.
4. ST. JEAN PROPERTY, 43 Hickory La., review of above-ground pool location, IWA file #W1455. Members were met by Mrs. St. Jean. The site characteristics with respect to the proximity to wetlands on the site were observed. No decisions were made.

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Town of Mansfield
CONSERVATION COMMISSION
Meeting of 16 June 2010
Conference B, Audrey P. Beck Building
(DRAFT) MINUTES

Members present: Quentin Kessel, John Silander, Frank Trainor. *Members absent:* Robert Dahn, Peter Drzewiecki, Scott Lehmann, Joan Stevenson. *Others present:* Grant Meitzler (Wetlands Agent), Neil Faccinetti.

1. The meeting was **called to order** at 7:35p by Chair Quentin Kessel.
2. The draft **minutes of the 19 May 2010** were tabled for lack of a quorum.
3. **IWA Referral W1455 – St. Jean – Hickory Lane.** This is an application for an above ground pool in the buffer without a permit. It appears to have been in place for some time, perhaps years. Meitzler indicated he had no problem with the location of the pool. The CC declined to comment on this referral. Silander noted that there seems to be no penalty for not obtaining a permit before executing a project such as this.
4. **IWA referral: (UConn DEP Application).** The CC reviewed the application for utility work between Lakeside apartments and the Towers dormitories. It was provided to the CC for informational purposes, and after review it was decided not to make any comments.
5. **New Appointments.** It was agreed to forward the names of Neil Faccinetti and Joan Buck to the Town Manager for consideration for appointments to the CC as alternate members. A poll of members at the last meeting and by email supported these appointments unanimously.
6. **UConn Agronomy Farm Irrigation Project.** Faccinetti and Kessel reported on the June Town/Gown meeting to which UConn's Eugene Roberts, Jason Coite and other representatives made a presentation on the project which was followed by a lengthy question and answer session. Within a short time various well monitors will be in place and a webpage showing the results will be established. UConn will also name a contact person for residents with additional questions. This exchange of information was felt to be very useful.
7. **PZC Proposed Zoning Regulation Revisions.** Lehman submitted the CC's comments on Invasive plant species, aquifer and public water supply well protection and the Pleasant Valley Rezoning to the hearing and Kessel attended to make certain they became part of the public hearing record.
8. **UConn drainage issues.** Kessel distributed copies of the CC letter to the DEP responding to Rich Miller's 4/20/10 letter to DEP's Denise Ruzicka which was reviewed at the May CC meeting. It was agreed, subject to editorial changes, to send it. The CEQ will be discussing this at their next meeting.
9. **Eagleville Brook TMDL.** A public information session on steps to reduce pollution and sedimentation in Eagleville Brook was held 6/4/10. Lehman attended this meeting and his report is attached, including a later email comment from UConn's Miller.

10. The meeting Was Adjourned at 9:00 P.M.

Quentin Kessel, Secretary *pro tem*.

ATTACHMENT.

From: Scott Lehmann

Re: Impervious Cover TMDL Project

Date: 04 June 2010

I attended the "Update and Discussion on the Impervious Cover TMDL Project" for Eagleville Brook at UConn this morning, hoping for some clarity on the role of the Swan Lake diversion. Here is what I learned.

DEP is using the percentage of impervious cover (%IC) in the watershed as a proxy for stream quality. Studies of aquatic life communities in various watersheds suggest that streams with %IC < 12 are sufficiently pollution-free {at the outlet, I guess}, so the DEP has adopted a target %IC of 11 for the Eagleville Brook watershed.

The alternative of setting TMDL for each of various pollutants is costly and inefficient, since many of these don't have easily identifiable sources, but find their way into streams in runoff from roads, parking lots, roofs, and the like during storms. The idea is that reducing %IC will reduce the volume of runoff and therefore its pollution load of whatever.

Study of the Eagleville Brook watershed revealed a %IC of 13.8. To reach the 11% target, 33 acres of IC must be "disconnected" from Eagleville Brook, so that runoff from it goes instead into groundwater or wetlands. Numerous small projects are underway to achieve this reduction (and more): permeable pavement in parking lots, green roofs, rain-gardens, artificial wetlands, etc.

The %IC proxy for stream quality is to be evaluated in the case of Eagleville Brook by studies of aquatic life as %IC reductions are achieved.

"Disconnecting" IC by exporting runoff to another drainage is *not* part of this project.

Responding to a question about the Swan Lake diversion from Denise Burchsted, the TMDL Project Team completely disowned reducing %IC by diverting runoff from the upper Eagleville Brook drainage to the Fenton River drainage.

According to Rich Miller, with whom I spoke after the session ended, UConn's Drainage Master Plan is a completely separate project, though it also aims to reduce the volume of stormwater runoff and consequent erosion and sedimentation. The Plan antedates the TMDL project, having been devised in 2003-04 (after prodding from DEP) to address increased runoff from UConn 2000 construction. The rationale for the Swan Lake diversion is not to improve water quality in Eagleville Brook, but to reduce the volume of runoff into it.

Miller indicated that water quality issues will be addressed before water is diverted to the Fenton watershed. It may be possible to avoid the Swan Lake diversion entirely by improving infiltration at W-lot, but this would require amending the MOA.

{Presumably, if DPH vetoes the discharge, the MOA would have to be amended.}

The northern part of W-lot now drains, via drains and pipes, to the Fenton watershed, although this lot is in the Eagleville Brook watershed. This portion of W-lot is not included in the %IC assessment of the Eagleville Brook watershed, because it has been engineered out of it.

Sent: Sunday, June 06, 2010 7:19 AM

To: Scott Lehmann [slehmann@snet.net]; Kessel, Quentin

Well done, Scott. This is not easy stuff to grasp, especially on your first pass.

I wonder if I could amend my comment (in your next to last bullet) to read "...this may require an addendum to the MOA..." instead of "...this would require an amendment to the MOA..." It's possible that DEP could significantly scale down the stormwater diversion project through the individual flood management certification (permitting) process, which we're still about 3 or 4 years away from commencing, based on significant changes to the actual drainage calculations. These calculations are the technical basis for an individual FMC. And, it's my understanding that these drainage calculations could be significantly changed by the TMDL projects, especially the proposed "W-Lot improvements project" that is already identified as one of our top 10 TMDL projects (I'll try to make it our highest priority). There was some discussion during the meeting about whether this would hold true for larger storm events (e.g., 50- and 100-year storms), which is part of the required FMC drainage analysis. For example, we now know that the area of stormwater to be diverted is actually 43 acres, not 55 acres, based on the finding described in your last bullet. So the MOA is already inaccurate in that respect.

Regards,
Rich

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Memorandum:

June 24, 2010

To: Inland Wetland Agency
From: Grant Meitzler, Inland Wetland Agent
Re: Monthly Business

W1419 - Chernushek - hearing on Order

- 3.10.09: The hearing on the Order remains open and should continue until the permit application under consideration is acted upon.
(The Order was dropped on approval of the application required in the Order.)
- 4.30.09: Former rye grass seeding is beginning to show green. I spoke with Mr. Chernushek this afternoon who indicated health problems that delayed his starting but indicated he will be working this weekend. I will update on this Monday evening.
- 5.26.09: A light cover of grass growth has come in. Mr. Chernushek indicates health problems and two related deaths have delayed his start of work since the permit approval was granted. It appears that some light work has started. He has further indicated that he will start a vacation on June 22, 2009 to finish the work.
- 6.13.09: Work is underway.
- 6.21.09: Bulldozer work has been completed - finish work remains. The additional silt fencing has been placed along the northerly wetlands crossing, and the additional pipe under the southerly crossing has been installed. Remaining work includes finish grading along edges, spreading stockpiled topsoil, and establishing grass growth.
- 7.01.09: I spoke with Mr. Chernushek who indicated he expects work to be completed by September 1, 2009. (Site photo attached).
- 9.03.09: Mr. Chernushek has been working on levelling and grading. The formerly seeded areas have become fairly thick growth surrounding the central wet areas. He has further indicated that with the combination of weather and the slower moving of earth with the payloader compared to the earlier rented bulldozer has led him to contact contractors for earth moving estimates which have not yet been received. The site is not yet finished but has remained quite stable.
- 9.12.09: I met with Mr. Chernushek today and discussed again what his plans are for stabilizing this work site.
- 10.01.09: Mr. Chernushek indicated he has not heard back from the contractor he had spoken with about removing material, and is in progress of contacting others. In discussion is removal of material from the site either within the 100 cubic yard limit or obtaining a permit for such removal.
- 10.28.09: Mr. Chernushek has indicated he has made arrangements with DeSiato Sand & Gravel to remove 750 cubic yards of material. Staff is in the process of clarifying permit requirements.
- W1445 - Chernushek - application for gravel removal from site**
- 11.30.09: Packet of information representing submissions by Mr. Chernushek, Mr. DeSiato and myself is in this agenda packet as Mr. Chernushek's request for modification.
- 12.29.09: Preparation of required information for PZC special permit application is in progress. Tabling any action until the February 1, 2010 meeting is recommended.
- 1.12.10: 65 day extension of time received.

- 2.18.10: No new information has been received.
- 2.25.10: This application has been withdrawn.

Mansfield Auto Parts - Route 32

- 6.10.09: Inspection - no vehicles are within 25' of wetlands.
- 7.16.09: Inspection - no vehicles are within 25' of wetlands.
- 8.12.09: Inspection - no vehicles are within 25' of wetlands.
- 9.14.09: Inspection - no vehicles are within 25' of wetlands.
- 10.27.09: Inspection - no vehicles are within 25' of wetlands.
- 11.30.09: Inspection - no vehicles are within 25' of wetlands.
- 12.28.09: There are two cars that need to be moved. Mr. Bednarczyk indicates their payloader is down for repairs and the cars will be moved as soon as it is repaired.
- 1.27.10: No change - the payloader is apart with parts on order to complete repairs. It is of 1986 vintage and finding parts is a major proposition.
- 2.18.10: Same - they are in the process of rebuilding the engine on the payloader.
- 3.30.10: Same - Mr. Bednarczyk indicates a continuing problem finding engine parts.
- 4.13.10: Owner indicates the payloader is operating again.
- 4.15.10: Owner indicates he will have the cars moved this week.
- 4.23.10: No vehicles are within 25' of wetlands.**
- 5.17.10: Inspection - no vehicles are within 25' of wetlands.
- 6.02.10: Inspection - no vehicles are within 25' of wetlands.
- 6.23.10: Inspection - no vehicles are within 25' of wetlands.

Memorandum:

June 29, 2010

To: Inland Wetland Agency

From: Grant Meitzler, Inland Wetland Agent

Re: W1455 - St. Jean - Hickory lane - above ground pool in buffer

plan reference: dated 6.02.10

This application requests approval for an above ground pool. The applicant has been very straightforward about the pool having been installed already. The ground around the work area is well stabilized with grass growth and pea stone placed around the edge of the pool.

There are two wetland areas on the site. These are both typical upland maple swamps.

- (1) One on the easterly side of the lot,

This wetlands extends some two to three hundred feet in width as it drains downhill to eventually cross Brookside Lane to the Mount Hope River. Adjacent to this house and yard location, the significant drainage seems to come from the other side of Hickory Lane and areas east. The drainage area coming from this lot is small by comparison.

- (2) one to the rear (northwesterly).

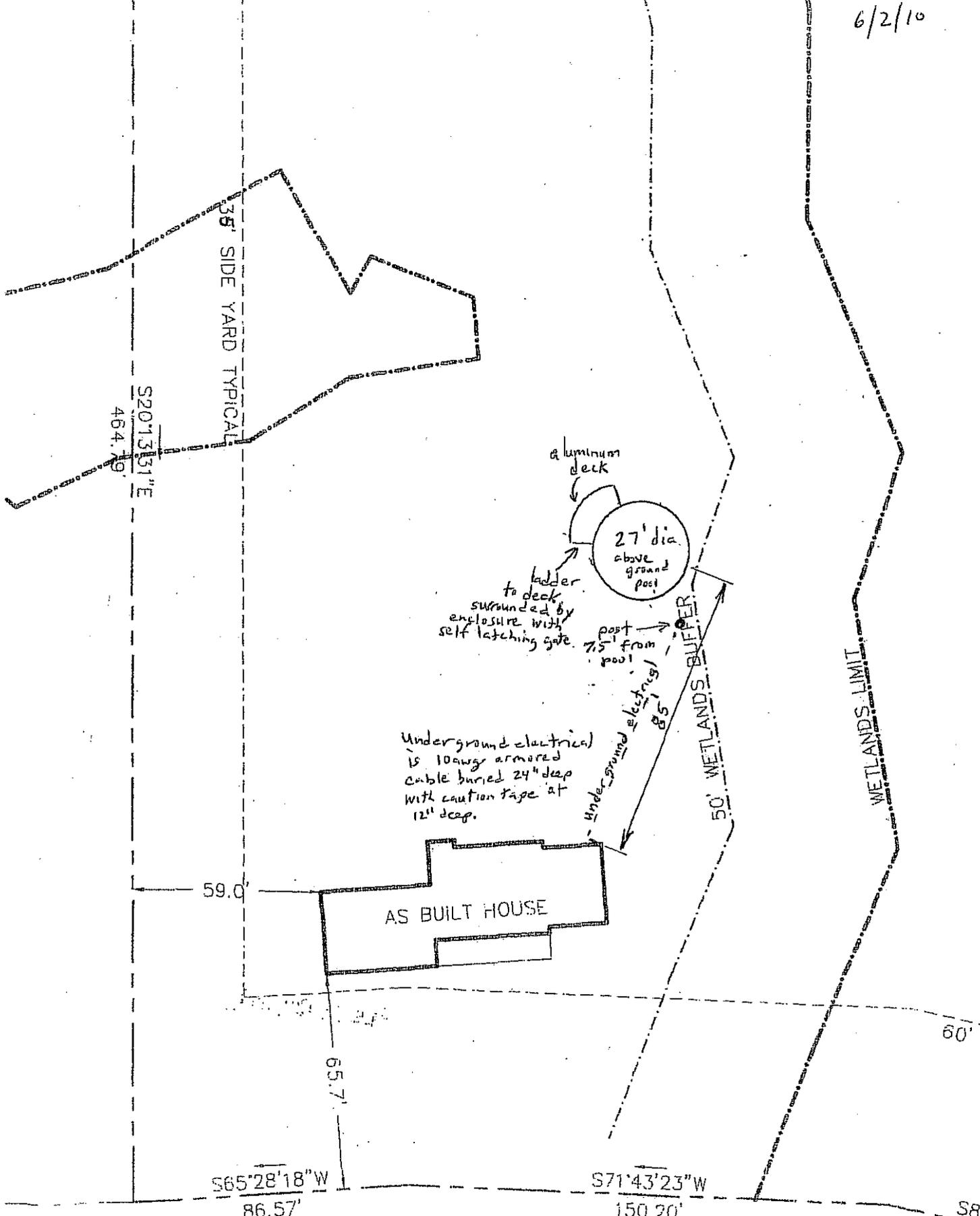
Wetland 2 is the lesser of the two in size. It drains towards Elizabeth Rd and eventually to the Mount Hope River crossing near the south end of Brookside Lane.

Because this location is in the upper reaches of the drainage areas, there has been little, if any, development of watercourse features. These begin to appear farther downhill.

The actual disturbance of the ground extends perhaps 18 inches outside the edge of the pool and exposed ground disturbance is limited to pea stone showing no signs of sediment movement. The pool itself covers the rest.

The pool has been placed approximately 55' away from the two wetlands on the site, and 10 feet away from the septic system. These were mapped on the subdivision plan when the lot was approved ca. January 2000.

6/2/10



1" = 40'



TOWN OF WINDHAM WATER WORKS

174 Storrs Road
Mansfield Center, CT 06250
Tel. 860-465-3075 • FAX 860-465-3085

- Inland Wetlands Commission
- Zoning Commission
- Planning & Zoning Commission
- Zoning Boards of Appeals

TOWN: Ashford Chaplin Eastford
 Hampton Mansfield Pomfret
 Union Willington Windham
 Woodstock

INSPECTED BY:



Troy Quick *W.W.W. Watershed Inspector*

DATE: June 8, 2010, WW File #M0210

The Windham Water Works has received notification of a proposed project per the requirements of Public Act 89-301.

PROJECT DESCRIPTION:

27' dia above ground pool installation 50-55' from wetlands

Applicant: Mike & Patty St. Jean

COMMENTS:

The Windham Water Works has reviewed the proposed project and with best management practices and we would have no objections, we will monitor accordingly.

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Memorandum:

June 30, 2010

To: Inland Wetland Agency
From: Grant Meitzler, Inland Wetland Agent
Re: New Business for the July 6, 2010 meeting

Each of these new business items can be acted on at this meeting if the Agency is so inclined.

Request for Renewal:

W1457 - Yankee - Hillyndale Rd - single family house in buffer

	yes	no
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fee paid	X	
certified receipts	n.a.	
map dated	8.19.2005	

This application requests renewal of the original approval which extended to October 4, 2010 "for a single family dwelling with septic system, driveway and well, Lot 4, Hillyndale Rd." This was wetlands file number W1322, and Mr. Yankee has indicated there is no change to the work proposed.

Section 7.9 of the wetlands regulations provides:

"Any application to renew a permit shall be granted upon request of the permit holder unless the Agency finds that there has been a substantial change in circumstances which requires a new permit application or an enforcement action has been undertaken with regard to the regulated activity for which the permit was issued. No permit may be valid, including renewal periods, for more than ten years."

This seems a straightforward renewal.

Request for Exemption:

W1458 - Town of Mansfield - 4 brook crossings and trail work in the Moss Sanctuary.

	yes	no
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fee paid	n.a.	
certified receipts	n.a.	
map dated	6.24.2010	

This has been submitted as a Request for Exemption under the provisions of Section 4.2 A. and Section 4.2 B., which provide:

"The following operations and uses shall be permitted, as non-regulated uses in wetlands and watercourses, provided they do not disturb the natural and indigenous character of the wetland or watercourse by removal or deposition of material, alteration or obstruction of water

flow or pollution of the wetland or watercourse:

- A. Conservation of soil, vegetation, water, fish, shellfish and wildlife. Such operation or use may include but is not limited to, minor work to control erosion or to encourage proper fish, wildlife and forestry management practices.
- B. Outdoor recreation including play and sporting areas, golf courses, field trials, nature study, hiking, horseback riding, swimming, skin diving, camping, boating, water skiing, trapping, hunting, fishing and shell fishing where otherwise legally permitted and regulated."

I suggest that placing a small bridge to replace foot traffic in a brook may be said to be minor work to control erosion. That applies to brook crossings 1, 2, & 3. Each of these bridges will be built using a support beam rested in place and pinned on which the beams across the brook will be placed. This will mean there is going to be a minimum of excavation - consistent with section 4.2 A. The crossing proposed at location 4 will have the numerous stones now present used to create a series of step stones for the crossing. This will involve moving and placing stones already in this waterway.

I think it appropriate to call this work a use involving outdoor recreation - as in Section 4.2 B,

We have approved exemptions for similar projects in the past. It is my understanding this work will be done with Conn. Park and Forest representatives and local volunteers.

To: Mr. Grant Meitzler, Wetlands Agent
Town of Mansfield – Inland Wetland Agency
Audrey P. Beck Building
4 South Eagleville Road
Storrs, CT 06268
Tel. 860-429-3334

From: James Yankee
70 Old Town Road, Unit 379 *JY*
Vernon, CT 06066
Tel. 860-871-7573

Date: June 14, 2010

Re: Request for Inland Wetland Permit Renewal (W1322) with No Changes

Enclosed, please find my \$100.00 check payable to Town of Mansfield, for a renewal of my permit, referenced as follows:

“Mansfield Wetlands License (W1322) for construction of single-family dwelling with septic system, driveway and well, lot 4, Hillyndale Rd., Mansfield”,

which was originally adopted by the Mansfield Inland Wetland Agency on October 4, 2005, as per the attached letter, dated October 13, 2005.

There are no changes to the plan, and no changes to the original map, dated August 19, 2005 and no changes to the soil scientist’s report, dated October 27, 2004.

Thank you for your consideration of this request.

Please feel welcome to contact me at my home address, above, if additional information is needed.

Enclosed:
\$100.00 check
Mansfield Inland Wetland Agency Letter, dated October 13, 2005



TOWN OF MANSFIELD
INLAND WETLAND AGENCY

AUDREY P. BECK BUILDING
FOUR SOUTH EAGLEVILLE ROAD
STORRS, CONNECTICUT 06268
(203) 429-3334
October 13, 2005

Mr. James Yankee
101 South St., apt. 37
Vernon, CT 06066

Re: Mansfield Wetlands License (W1322) for construction of single-family dwelling with septic system, driveway and well, lot 4, Hillyndale Rd., Mansfield

Dear Mr. Yankee:

At a regular meeting held on October 4, 2005, the Mansfield Inland Wetland Agency adopted the following motion:

"to grant an Inland Wetlands License under Section 5 of the Wetlands and Watercourses Regulations of the Town of Mansfield to James Yankee (file W1322) for construction of a single-family house with septic system, driveway and well on property owned by the applicant located at lot 4, Hillyndale Road, as shown on a map dated 8/19/05 and a soil scientist's report dated 10/27/04, and as described in other application submissions. This action is based on a finding of no anticipated significant impact on the wetlands, and is conditioned upon the following provisions being met:

1. Appropriate erosion and sedimentation controls (as shown on the plans) shall be in place prior to construction, maintained during construction and removed when disturbed areas are completely stabilized;
2. This approval is valid for a period of five years (until 10/4/10), unless additional time is requested by the applicant and granted by the Inland Wetland Agency. The applicant shall notify the Wetlands Agent before any work begins, and all work shall be completed within one year. Any extension of the activity period shall come before this agency for further review and comment."

If you have any questions regarding this action, you may contact Wetlands Agent Grant Meitzler at 860-429-3334. This letter constitutes your License.

Very truly yours,

Katherine K. Holt, Secretary
Mansfield Inland Wetland Agency

cc: Filip Associates

**APPLICATION FOR PERMIT
 MANSFIELD INLAND WETLANDS AGENCY
 4 SOUTH EAGLEVILLE ROAD, STORRS, CT 06268
 TEL: 860-429-3334 OR 429-3331
 FAX: 860-429-6863**

FOR OFFICE USE ONLY
 File #
 W 1458
 Fee Paid P.O.
 Official Date of Receipt _____

Request for Exemption

Applicants are referred to the Mansfield Inland Wetlands and Watercourses Regulations for complete requirements, and are obligated to follow them. For assistance, please contact Grant Meitzler, Inland Wetlands Agent at the telephone numbers above.

Please print or type or use similar format for computer; attach additional pages as necessary.

Part A - Applicant

Name Town of Mansfield Parks and Recreation
 Mailing Address 10 S. Eagleville Rd
Storrs, CT Zip 06268
 Telephone-Home _____ Telephone-Business 860-429-3015 X 204

Title and Brief Description of Project

Install four water crossings
for recreational use

Location of Project Albert E. Moss Sanctuary

Intended Start Date ASAP

Part B - Property Owner (if applicant is the owner, just write "same")

Name same

Mailing Address _____

Zip _____

Telephone-Home _____ Telephone-Business _____

Owner's written consent to the filing of this application, if owner is not the applicant:

Signature _____ date _____

Applicant's interest in the land: (if other than owner) _____

Part C - Project Description (attach extra pages, if necessary)

- 1) Describe in detail the proposed activity here or on an attached page. (See guidelines at end of application – page 6.)

Please include a description of all activity or construction or disturbance:

- a) **in** the wetland/watercourse
 b) **in** the area **adjacent** to (within 150 feet from the edge of) the wetland/watercourse, even if wetland/watercourse is **off** your property

Four water crossings will be installed at the Albert E. Moss Sanctuary: Three bridges and one step stone crossing. The locations of each crossing are identified on the attached map.

Crossing (1) consists of a bridge with two boardwalk approaches to avoid wetland disturbance.

Crossings (2) and (3) consist of bridges at narrower brook locations. Crossing (4) consists of a step stone crossing.

Boardwalk and bridge schematics in addition to detailed construction instructions and a materials lists for crossings (1), (2) and (3) are attached.

- 2) Describe the amount or area of disturbance (in square feet or cubic yards or acres):

- a) **in** the wetland/watercourse
 b) **in** the area **adjacent** to (within 150 feet from the edge of) the wetland/watercourse, even if wetland/watercourse is **off** your property

For each bridge there will be an approximate site disturbance of 4ft^2 . For each boardwalk there will be an approximate site disturbance of 2ft^2 . Total site disturbance is estimated at 16ft^2 .

- 3) Describe the type of materials you are using for the project: Pressure treated lumber, timber lock screws, flat step stones (gathered from the site).

- a) include **type** of material used as fill or to be excavated: onsite material
 b) include **volume** of material to be filled or excavated: 16ft^2 plus a 20ft span where stepping stones will be placed.

- 4) Describe measures to be taken to minimize or avoid any adverse impacts on the wetlands and regulated areas (silt fence, staked hay bales or other Erosion and Sedimentation control measures).

For the bridges and boardwalks, no foundation excavations will be dug. Minimal foundation excavations will be dug for stepping stone crossing.

Part D - Site Description

Describe the general character of the land. (Hilly? Flat? Wooded? Well drained? etc.)

Albert E. Moss Sanctuary, recently purchased by the Town.

Part E - Alternatives

Have you considered any alternatives to your proposal that would meet your needs and might have less impact on the wetland/watercourse? Please list these alternatives.

Other alternatives were considered but they would require the use of heavy equipment. The present design has the least impact as it will be completed by hand by skilled Ct. Forest and Park volunteers.

Part F - Map/Site Plan (all applications)

1) Attach to the application a map or site plan showing **existing conditions** and the **proposed project** in relation to wetland/ watercourses. Scale of map or site plan should be 1" = 40'; if this is not possible, please indicate the scale that you are using. A sketch map may be sufficient for small, minor projects. **(See guidelines at end of application – page 6.)**

- 2) Applicant's map date and date of last revision June 24, 2010
- 3) Zone Classification RAR 90
- 4) Is your property in a flood zone? Yes No Don't Know

Part G - Major Applications Requiring Full Review and a Public Hearing

See Section 6 of the Mansfield Regulations for additional requirements.

Part H - Notice to Abutting Property Owners

1) List the names and addresses of abutting property owners

Name	Address
<u>Request for exemption</u>	

2) **Written Notice to Abutters** . You must notify abutting property owners by certified mail, return receipt requested, stating that a wetland application is in progress, and that abutters may contact the Mansfield Inland Wetlands Agent for more information. Include a brief description of your project. **Postal receipts of your notice to abutters must accompany your application.** (This is not needed for exemptions).

N/A

Part I - Additional Notices, if necessary

- 1) Notice to Windham Water Works is attached. If this application is in the public watershed for the Windham Water Works (WWW), you must notify the WWW of your project within 7 days of sending the application to Mansfield—sending it by certified mail, return receipt requested. Contact the Mansfield Inland Wetlands Agent to find out if you are in this watershed.
- 2) Notice to Adjoining Town. If your property is within 500 feet of an adjoining town, you must also send a copy of the application, on the same day you sent one to Mansfield, to

the Inland Wetlands Agency of the adjoining town, by certified mail, return receipt requested.

- 3) The Statewide Reporting Form (attached) shall be part of the application and specified parts must be completed and returned with this application.

Part J - Other Impacts To Adjoining Towns, if applicable

- 1) Will a significant portion of the traffic to the completed project on the site use streets within the adjoining municipality to enter or exit the site? Yes No Don't Know
- 2) Will sewer or water drainage from the project site flow through and impact the sewage or drainage system within the adjoining municipality? Yes No Don't Know
- 3) Will water run-off from the improved site impact streets or other municipal or private property within the adjoining municipality? Yes No Don't Know

Part K - Additional Information from the Applicant

Set forth (or attach) any other information which would assist the Agency in evaluating your application. *(Please provide extra copies of any lengthy documents or reports, and extra copies of maps larger than 8.5" x 11", which are not easily copied.)*

Part L - Filing Fee

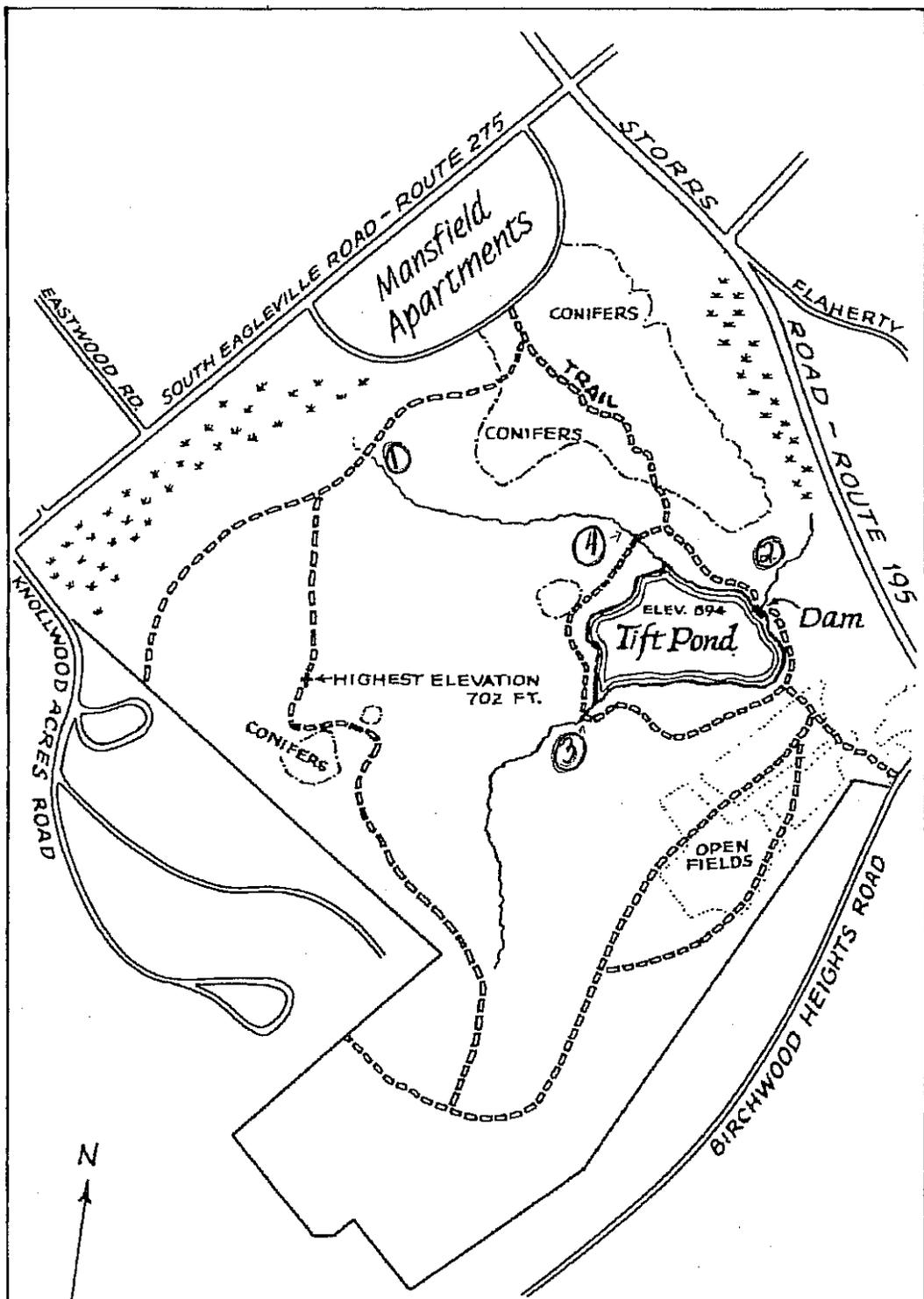
Submit the appropriate filing fee. (Consult Wetlands Agent for the fee schedule available in the Mansfield Inland Wetlands and Watercourses Regulations.)

\$365. \$110. \$60. \$25. *N/A*

Note: The Agency may require you to provide additional information about the regulated area which is the subject of the application, or about wetlands or watercourses affected by the regulated activity. If the Agency, upon review of your application, finds the activity proposed may involve a "significant activity" as defined in the Regulations, additional information and/or a public hearing may be required.

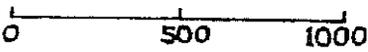
The undersigned applicant hereby consents to necessary and proper inspections of the above mentioned property by members and agents of the Inland Wetlands Agency, at reasonable times, both before and after the permit in question has been granted by the Agency.

Jennifer Kaufman _____ *6/24/2010* _____
 Applicant's Signature Date



*Albert E. Moss
Forest, Wildflower
and Wildlife Sanctuary*

SCALE IN FEET



Jan 24, 2010

MOSS PROPERTY
BRIDGE #1 ACROSS STREAM APPROX 1000 FT SW OF APARTMENTS

Note: This structure could be replaced with culverts. The trail would cross the culverts and adjacent wetlands on top of crushed stone encapsulated in filter fabric.

This bridge structure is constructed from pressure treated lumber and is 16 feet in length over the stream with an additional 8 ft of boardwalk on the north end of the bridge and 16 ft of boardwalk on the south end of the bridge.

BRIDGE

The bridge sill timbers on each bank are two 6"x6"x 4 ft long timbers parallel to the stream. They are encased in filter fabric stapled in place. Two channel irons are driven vertically into soil so that they are flush with the top of each sill assembly. Each sill assembly is anchored in place to the channel irons using 4" Timberlok screws.

The stringers are 2"x 10" x 16 ft long boards placed on edge and spaced 24" apart. They span across the sills from bank to bank and the resulting unsupported span is about 14 ft. The stringers will be fastened to the ends of 6" x 6" x 24 "support blocks that are attached with 8 " Timberlok screws to and centered on the outside sill timber on each bank.

The deck is 2' x 6" x 3 ft boards spaced approx ½ inch apart and screwed on top of the stringers with four 3" deck screws. The boards will be placed with the "curl side" up.

Toe boards are used on each side of the deck to help prevent slipping by youngsters and skiers off the deck. They are 2" x 4" boards secured flat on top of short 2" x 4" blocks spaced every 2 to 3 ft.

NORTHERN BOARDWALK

One end of the 6" x 6" x 8 ft boardwalk stringers are attached on top of the bridge sill against the outside of the bridge stringers with the other end of the boardwalk stringers parallel and resting on grade – fasten with 8" Timberlok screws.

The deck is 2' x 6" x 3 ft boards spaced approx ½ inch apart and screwed on top of the stringers with four 3" deck screws. The boards will be placed with the "curl side" up.

Toe boards are used on each side of the deck to help prevent slipping by youngsters and skiers off the deck. They are 2" x 4" boards secured flat on top of short 2" x 4" blocks spaced every 2 to 3 ft.

MOSS PROPERTY
BRIDGE #2 ACROSS OUTFLOW STREAM BELOW DAM

The bridge is constructed from pressure treated lumber and is 16 feet in length.

The sill timbers on each bank are two 6"x6"x 4 ft long timbers fastened together with 8" Timberlok screws and are parallel to the stream. They are encased in filter fabric stapled into place. Two channel irons are driven vertically into soil on each bank so that they are flush with the top of each sill assembly. Each sill assembly is then anchored in place to the channel irons using 4" Timberlok screws.

The stringers are 2"x 10" x 16 ft long boards placed on edge and spaced 24" apart. They span across the sills from bank to bank and the resulting unsupported span is about 14 ft. The stringers will be fastened to the ends of 6" x 6" x 24 "support blocks that are attached with 8 " Timberlok screws and centered on the outside sill timber on each bank.

The deck is 2' x 6" x 3 ft boards spaced approx 1/2 inch apart and screwed on top of the stringers with four 3" deck screws. The boards will be placed with the "curl side" up.

Toe boards are used on each side of the deck to help prevent slipping by youngsters and skiers off the deck. They are 2" x 4" boards secured flat on top of short 2" x 4" blocks spaced every 2 to 3 ft.

Bill of Materials to purchase

Approx cost \$200

<u>Qty</u>	<u>Item</u>	<u>Description</u>
2	6"x6"x8ft	Cut to 4 pcs, ea 4 ft long for sills Note: two 6"x6"x2ft pcs from inventory
2	2"x10"x16ft	Stringers
8	2"x6"x12ft	Cut to 32 pcs, ea 3 ft long for deck boards
2	2"x4"x16ft	Toe boards
1	2"x4"x8ft	Cut to 12 pcs, ea about 8" long for toe supports
2	lbs, 3" screws	

Note: Eight 8" and four 4" Timberlok screws from **inventory**

Note: Filter fabric and staples from **inventory**

Note: Four channel iron pcs 3 ft long from **inventory**

40 year pressure treated
coated screws so they
don't
rot

MOSS PROPERTY
BRIDGE #3 ACROSS STREAM SOUTH OF TIFT POND

The bridge is constructed from pressure treated lumber and is 8 feet in length.

The sill timbers on each bank are one 6"x6"x 4 ft long timber parallel to the stream. They are encased in filter fabric stapled in place. Two channel irons are driven vertically into soil so that they are flush with the top of each sill assembly. Each sill assembly is anchored in place to the channel irons using 4" Timberlok screws.

The stringers are 2"x 6" x 8 ft long boards placed on edge and spaced 24" apart. They span across the sills from bank to bank and the resulting unsupported span is about 7 ft. The stringers will be fastened to the ends of 6" x 6" x 24 "support blocks that are attached with 8 " Timberlok screws and centered on the sill timber on each bank.

The deck is 2' x 6" x 3 ft boards spaced approx 1/2 inch apart and screwed on top of the stringers with four 3" deck screws. The boards will be placed with the "curl side" up.

Toe boards are used on each side of the deck to help prevent slipping by youngsters and skiers off the deck. They are 2" x 4" boards secured flat on top of short 2" x 4" blocks spaced every 2 to 3 ft.

Bill of Materials to purchase

Approx cost \$80

<u>Qty</u>	<u>Item</u>	<u>Description</u>
1	6"x6"x8ft	Cut to 2 pcs, ea 4 ft long for sills Note: two 6"x6"x2ft pcs from inventory
1	2"x6"x16ft	Cut to 2 pcs, ea 8 ft long for stringers
4	2"x6"x12ft	Cut to 16 pcs, ea 3 ft long for deck boards
1	2"x4"x12ft	Cut to 8ft toe board and 8 pcs about 6" for toe supports blocks
1	2"x4"x8ft	Second Toe board
1	lbs, 3" screws	Note: Four 8" and four 4" Timberlok screws from inventory Note: Filter fabric and staples from inventory Note: Four pcs of 3 ft channel iron from inventory

SOUTHERN BOARDWALK

One end of the 6" x 6" x 8 ft boardwalk stringers are attached on top of the bridge sill against the outside of the bridge stringers with the other end of the boardwalk stringers parallel and resting on grade – fasten with 8" Timberlok screws.

The deck is 2' x 6" x 3 ft boards spaced approx ½ inch apart and screwed on top of the stringers with four 3" deck screws. The boards will be placed with the "curl side" up.

Toe boards are used on each side of the deck to help prevent slipping by youngsters and skiers off the deck. They are 2" x 4" boards secured flat on top of short 2" x 4" blocks spaced every 2 to 3 ft.

A second set of parallel 6" x 6" x 8ft stringers are butted and in line with the above. Two channel irons are driven vertically into soil so that they are flush with the top of each stringer. Each stringer is anchored in place to the channel irons using 4" Timberlok screws.

The deck is 2' x 6" x 3 ft boards spaced approx ½ inch apart and screwed on top of the stringers with four 3" deck screws. The boards will be placed with the "curl side" up.

Toe boards are used on each side of the deck to help prevent slipping by youngsters and skiers off the deck. They are 2" x 4" boards secured flat on top of short 2" x 4" blocks spaced every 2 to 3 ft.

Bill of Materials to purchase

Approx cost \$500

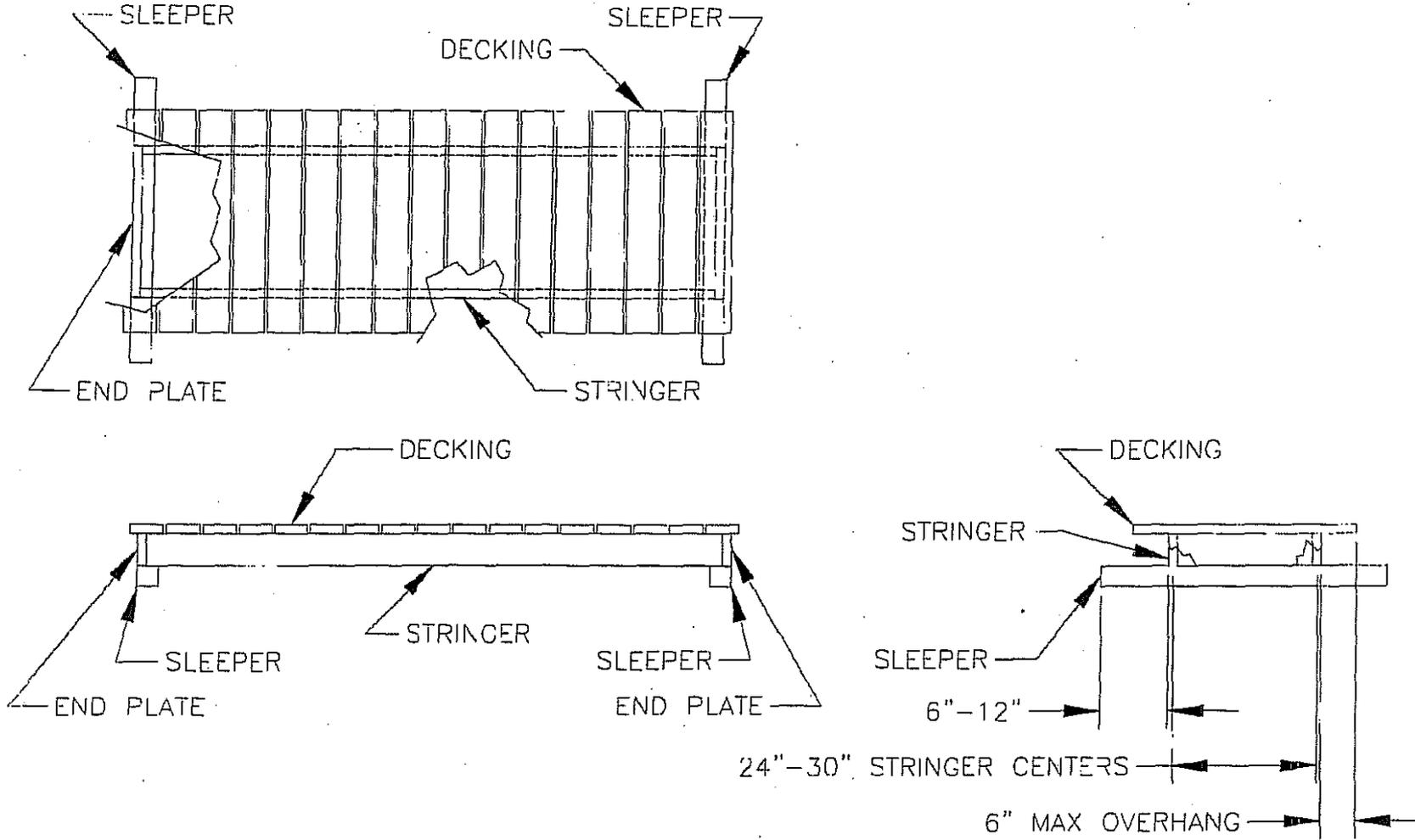
<u>Qty</u>	<u>Item</u>	<u>Description</u>
8	6"x6"x8ft	Two bridge sills and 6 boardwalk stringers
2	2"x10"x16ft	Bridge stringers
20	2"x6"x12ft	Cut to 80 pcs, ea 3 ft long for deck boards
2	2"x4"x16ft	Bridge toe boards
8	2"x4"x8ft	Six boardwalk toe boards and cut two into 30 support
		blocks
5	lbs, 3" screws	

Note: Four 8" and six 4" Timberlok screws from **inventory**

Note: Filter fabric and staples from **inventory**

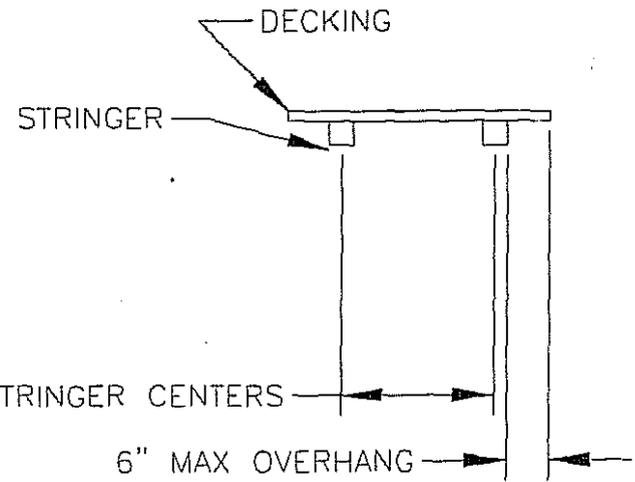
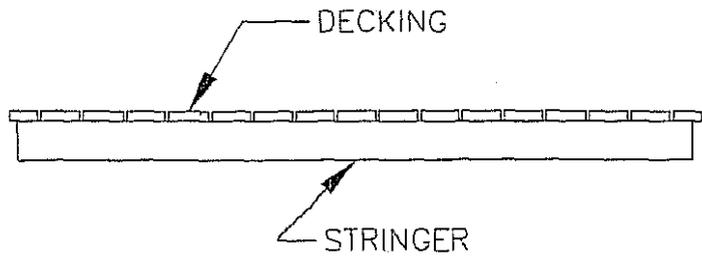
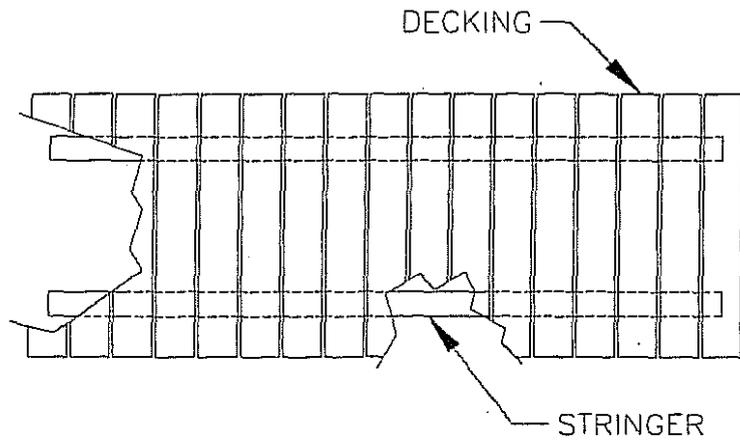
Note: Six pcs of 3 ft channel iron from **inventory**

Bridge Schematic



SIMPLE SINGLE STRINGER DRESSED LUMBER BRIDGE

Boardwalk Schematic



SIMPLE DRESSED LUMBER BOARDWALK SECTION

PAGE
BREAK