

**AGENDA**  
Inland Wetland Agency  
Regular Meeting  
Monday, May 2, 2011  
Council Chambers, Audrey Beck Building

Call to Order:        7:00 PM

Review of Minutes of Previous Meetings and Action Thereon:

4.04.2011 - Regular Meeting

Communications:

Conservation Commission:                    No April referrals 4-20-11 Minutes

GM monthly business memorandum

7:15 p.m. Public Hearing

W1474 - Plimpton - Wormwood Hill/Gurleyville Rds - 4 lot subdivision

Old Business:

None

New Business:

Requests for Exemption:

W1475 - Town of Mansfield - Eagleville Preserve, footbridge over seasonal brook

W1476 - Town of Mansfield - Dorwart Preserve, footbridge over seasonal brook

W1478 - Town of Mansfield - Sawmill Brook Preserve, viewing platform

Application:

W1477 - Walker - Riverview Rd - Solar Energy Installation within 75' of river

Reports of Officers and Committees:

Other Communications and Bills:

Keystone Co. re: Northwood Rd monitoring wells

Adjournment:

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**DRAFT MINUTES**  
MANSFIELD INLAND WETLANDS AGENCY  
Regular Meeting  
Monday, April 4, 2011  
Council Chambers, Audrey P. Beck Municipal Building

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

Chairman Favretti called the meeting to order at 7:00 p.m. Alternates Loxsom and Rawn were appointed to act in the absence of Beal and Ryan.

**Minutes:**

3-7-11 – Hall MOVED, Plante seconded, to approve the 3-7-11 minutes as written. MOTION PASSED with all in favor except Loxsom who disqualified himself. Pociask noted that he had listened to the recording of the meeting.

3-15-11 Field Trip- Holt MOVED, Favretti seconded, to approve the 3-15-11 minutes as written. MOTION PASSED with Favretti, Holt and Rawn in favor and all others disqualified.

**Communications:**

The 3-22-11 Wetlands Agent's Monthly Business report and the 3-16-11 Conservation Commission Draft minutes were noted.

**Public Hearing:**

W1469 - Town of Mansfield - statutory regulation revisions from 2010

Chairman Favretti opened the Public Hearing at 7:18. Members present were R. Favretti, J. Goodwin, R. Hall, K. Holt G. Lewis, P. Plante, B. Pociask and alternates F. Loxsom and K. Rawn. Alternates Loxsom and Rawn were appointed to act in the absence of Beal and Ryan. Meitzler read the legal notice as it appeared in the Willimantic Chronicle on 3-22-11 and 3-30-11 and noted the following communications: a 3-31-11 report from D. O'Brien, Town Attorney; a 3-17-11 report from S. Tessitore, CT DEP; and a 2-1-11 report from G. Meitzler, Wetlands Agent. He briefly reviewed the proposed revisions and noted they were needed to address a change in state statutes.

After determining that there were no comments from the public or Agency members, Hall MOVED, Plante seconded, to close the Public Hearing at 7:24. MOTION PASSED UNANIMOUSLY.

After agreeing to consider action, Meitzler distributed a motion he prepared for the Agency's consideration. Goodwin MOVED, Holt seconded, that the Mansfield Inland Wetlands Agency adopt the attached Mansfield Inland Wetlands Regulation revisions, pursuant to the Connecticut General Statutes and State regulations, revising Section 7.10 C., Section 10.9, and Section 10.10, as presented to the Agency in a staff memorandum dated February 1, 2011 and which revisions were presented at the Agency's 4/04/2011 Public Hearing, and are to become effective May 1, 2011.

The proposed 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.

Staff is further instructed to forward a copy of the adopted regulations to the Commissioner of Environmental Protection. MOTION PASSED UNANIMOUSLY.

**Old Business:**

**W1474 - Plimpton - Wormwood Hill/Gurleyville Rds - 3 lot subdivision**

After a brief discussion, Holt MOVED, Pociask seconded, to set a public hearing on 5/2/11 to receive comments from the public, staff and committees on the application received at the 3/7/11 IWA meeting by Scott Plimpton (IWA File #1474) for a 4-lot subdivision at 627 Wormwood Hill Road, owned by the applicant and as shown on a map dated January 2011, revised through February 9, 2011, and as described in other application submissions. This action is deemed necessary because there is a chance that the proposed activity may have significant impact the adjacent wetlands.

The applicant shall consult with Wetlands Agent Meitzler to find out how much the fee is to be increased for a Public Hearing application. MOTION PASSED UNANIMOUSLY.

**New Business:**

**W1420 - Modification request: White Oak Condominiums - footing drains**

Project engineer, M. Peterson, briefly explained the proposed modification request and the need to construct an additional footing drain system for Building #7. He related that they would like to start the two footing drain projects in April.

After discussion, Holt MOVED, Pociask seconded, to modify the earlier approval for wetlands file W1420 for installation of building drains, yard grading, and outlet flow protection for Building #4, White Oak Condominiums, as outlined in application submissions including a map dated March 31, 2010 and revised through February 8, 2011, and also for installation of building drains, yard grading, and outlet flow protection for Building #7, as detailed on plans dated March 11, 2011.

This action is based on a finding of no significant impact, and is conditioned on the following provisions being met:

1. All erosion and sediment 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. Work is to be done between the dates of April 15 and October 15.

This modification is valid for the original period of five years approved for File W1420 (until January 20, 2014), 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.

**Reports of Officers and Committees:**

None.

**Other Communications and Bills:**

The agenda-listed communications were noted. Meitzler was asked to forward the D'Amato email communication to the State Dept of Health and the Ponde Place developer. It was agreed that notice of this communication forwarding action should be sent to J. D'Amato

**Adjournment:**

Favretti declared the meeting adjourned at 7:25 p.m.

Respectfully submitted,

Katherine Holt, Secretary

Town of Mansfield  
**CONSERVATION COMMISSION**  
Meeting of 20 April 2011  
Conference B, Audrey P. Beck Building  
**(draft) MINUTES**

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

1. The meeting was **called to order** at 7:38p by Chair Quentin Kessel.
2. The draft **minutes of the 16 March 2011 meeting** were approved as written.
3. A public hearing on **W1474 (Plimpton, Wormwood Hill & Gurleyville Rds)** has been scheduled for 2 May. The Commission sees no need to enlarge upon its previous comment (Minutes of 16 March 2011, item 3a).
4. UConn has released its **March 2011 Draft Water Supply Plan**, which (a) estimates the water needs of the University (and other users supplied by its system) through 2060 and (b) surveys and assesses various options for meeting this demand with a margin of safety of 1.15 (= ratio of supply to demand). Currently, the system's water is supplied by wells in aquifers along the Willimantic and Fenton Rivers. Low rainfall in late summer and early fall limits supply just when demand increases with the return of students; in fall 2010, the University operated under a water emergency as the system's margin of safety dropped below 1.0. Shortfalls of a few days duration can be covered by water stored in tanks; those of longer duration require reducing demand or increasing supply. In the short to medium term, the University proposes to reduce demand, mainly by reclaiming water (i.e., re-using treated water) for heating, cooling, and irrigation. In the longer term, additional supplies must be secured, perhaps by relocating wells in the Willimantic aquifer, more probably by importing water from elsewhere (e.g., Mansfield Hollow or Shenipsit Reservoirs).

Town comments on the Draft Plan are due by 26 April. After some discussion, the Commission agreed unanimously on the following motion (Buck, Silander):

The Commission authorizes its Chair to prepare a letter to the Mansfield Town Council covering the issues discussed, to be circulated by e-mail for editorial comments/changes before forwarding to the Town Planner for incorporation into the Town's comments on the Draft University of Connecticut Water Supply Plan.

The "issues discussed" include (a) concurrence with the Willimantic River Alliance's comment, (b) additional historical background on the water supply problem, (c) moving Fenton Well A farther from the river to limit 'induced infiltration,' as recommended in the University's Fenton River study, and (d) protecting water quality in Fenton Well D by avoiding diversion of storm runoff to Roberts Brook.

5. A public hearing on proposed **revisions to the Mansfield Zoning Regulations** will be held on 16 May. These are additions to or elaborations of existing regulations, and appear not to raise any significant issues of interest to the Commission. Kessel may offer an individual comment on lighting provisions (V.A.3.d.17, V.A.5.g, X.A.11.g), based on what he learned at the 28 February Green Valley Institute presentation on light pollution.

6. The wheel of fortune turns again for **Ponde Place**. According to Meitzler, 2 of 3 monitoring wells drilled near Meadowbrook Lane (to assess the impact on neighborhood wells of extracting water from a new well on the property) have struck water and appear capable of supplying 20 gpm each. The developers are now applying to have the two wells approved as production wells, enabling the project to be scaled back up in size. It is not yet clear whether substantial withdrawals would draw in contaminants from the old UConn chemical landfill.

7. A public hearing on a zoning permit for the proposed **Storrs Center parking garage/bus station** is scheduled for 4 May. The Commission has nothing – save perhaps a hope that this facility will permit people to park their cars and wait for a bus inside, out of the weather – to add to its 18 April 2007 comment on the proposed Storrs Center project (PZC 1256-57), regarding provisions for preserving open space and protecting water quality & wildlife.

8. The Town Council has agreed to the **Natchaug River Basin Conservation Compact**. Kessel plans to attend a signing ceremony in Chaplin on 29 April.

9. The Commission is pleased to learn from the Town Manager's recent report to the Town Council of "a strong group of finalists" for the **position of Director of Planning and Development** (aka "Town Planner"), to succeed Greg Padick, who is retiring in June. Inasmuch as the Town Planner influences the balance between conservation and development in Mansfield, the Commission observes that it would have been appropriate to include a representative from it on the interview panel.

10. **Adjourned at 8:47p.**

Scott Lehmann, Secretary, 21 April 2011

Memorandum:

April 25, 2011

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**.
- 6.30.10: As viewed from the adjacent property, the upstream and downstream areas have grown to a decent protected surface. I did not see indication of sediment movement.
- 10.26.10: A sale of the East portion of the Chernushek property has been in negotiation.
- 12.27.10: The property exchange has been completed. The owner is now the neighboring property owner Bernie Brodin. He has indicated his intention to stabilize the area as weather permits.
- 4.25.11: Mr. Brodin indicates he is starting with grading and spreading hay and seed to stabilize disturbed areas.

**Mansfield Auto Parts - Route 32**

- 2.18.10: Same - they are in the process of rebuilding the engine on the payload.
- 3.30.10: Same - Mr. Bednarczyk indicates a continuing problem finding engine parts.
- 4.13.10: Owner indicates the payload 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.
- 7.15.10: Inspection - no vehicles are within 25' of wetlands.
- 9.01.10: Inspection - no vehicles are within 25' of wetlands.  
Mr. Bednarczyk has started removing tires from the westerly part of his site using roll-off containers. With this arrangement a moderately steady rate of removal of the tires should be possible to maintain until the tires are completely removed.
- 9.28.10: Inspection - no vehicles are within 25' of wetlands.  
Tire removal is continuing with 1 to 2 roll-off containers being removed per month.
- 10.07.10: Inspection - no vehicles are within 25' of wetlands.  
Tire removal has been continuing.
- 11.29.10: Inspection - no vehicles are within 25' of wetlands.  
Owner has been trucking cars for crushing with 6 tires per vehicle. He indicates 3 cars per day or 18 tires per day. The actual number is probably lower than 18.
- 12.23.10: Inspection - no vehicles are within 25' of wetlands.
- 1.07.11: Inspection - no vehicles are within 25' of wetlands.
- 1.20.11: Vehicle storage areas are snowed in and inaccessible.
- 1.26.11: Snows remain, although some clearing has been done I could not count on being able to get out.
- 2.24.11: Inspection - no vehicles are within 25' of wetlands.
- 3.09.11: Inspection - no vehicles are within 25' of wetlands.
- 3.22.11: Inspection - no vehicles are within 25' of wetlands.
- 4.25.11: Inspection - no vehicles are within 25' of wetlands.

Memorandum:

April 28, 2011

To: Inland Wetlands Agency  
From: Grant Meitzler, Inland Wetland Agent  
Re: W1474 - Plimpton - Gurleyville & Wormwood Hill Rds  
4 lot subdivision

plan reference: bearing latest revision date February 9, 2011, 21 sheets

Summary Recommendations from my previous review:

1. I recommend professional comment be sought from an appropriate expert to comment on the potential for significant impact on this pool.
2. I recommend placing a stone filled excavation on the west side of the drive near the edge of Gurleyville Rd and at stations 11+00 and 12+00 to limit outflow for the long term.
3. On Wormwood Hill Rd for the Lot 4 driveway, upgrading of the roadside drainage from the present 6" underdrains to 15" pipe is shown. Additional piping is needed to maintain the roadside flow coming from the uphill section of roadside swale.
4. Adding new water to the system carrying water across the Potz property and Lot 1 on the Plimpton property requires the acquisition of drainage rights in favor of lot 4 from each of these properties.
5. Silt fencing on Lots 2 and 3 should be extended to protect wetland areas located downhill to the rear of each lot.
6. The potential of significant impact triggers consideration of the holding of a public hearing - May 2, 2011 is an option. If more time is needed extension of time for up to 65 days is possible.

The applicant has indicated these modifications are in progress. Item 6 relates to comment being sought from a person qualified to provide comment on the potential vernal pool on Lot 2. Although in progress, this comment has not yet been submitted. This is very understandable with time being very short for such comments to be prepared and submitted, and the earliness of the season.

I recommend continuing this public hearing until June 6, 2011 to allow time for comment on the potential vernal pool on Lot 2 to be submitted and reviewed by staff.

Beyond June 6, 2011 we will need an extension of time to extend the public hearing any further.

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Mr. Scott Plimpton  
627 Wormwood Hill Rd.  
Mansfield Center, CT 06250

Dear Mr. Plimpton,

At your request, a vernal pool investigation was performed on the northern portion of the property located at 627 Wormwood Hill Rd., Mansfield Center, CT, 06250. It is my understanding that subdivision of the property is proposed, with the placement of a shared driveway in the vicinity of a wetland featuring characteristics of a vernal pool environment. Attachments to this letter report include a map identifying the wetland region of the property reviewed, and photo documentation of the site survey.

### **Vernal Pool Review**

On April 18, 2011, I conducted a vernal pool investigation on the wetland (see attached map). The average depth of the vernal pool was 14-17 inches, with a maximum depth of 32 inches. The soils to the south/southwest of the vernal pool are well drained, with moderately drained soils to the northwest of the vernal pool. Poorly drained soils are located directly west, and north/northeast of the vernal pool. Woodland surrounding the vernal pool provides good habitat for both wood frogs (*Rana sylvatica*), and salamanders. The following obligate species were observed in the vernal pool:

- Spotted salamander (*Ambystoma maculatum*) egg masses (approximately 60-75)
- Wood frog egg masses, common
- Wood frog tadpoles, common

Additionally, facultative vernal pool species, including Spring peeper frog (*Pseudacris crucifer*) egg masses and a northern water snake (*Nerodia s. sipedon*) was observed during the vernal pool survey.

### **Potential Mitigation Measures**

Management decisions and measures can be taken to mitigate the potential negative impacts on the vernal pool, that may result from development of the property. Calhoun and Klemens' (2002) Best Development Practices outlines planning practices that can be employed to assure appropriate measures are taken to with development in the vicinity of a vernal pool. Some recommendations for short-term construction impacts include:

- Use of erosion and sediment control best management practices to reduce erosion, such as staggered silt fencing, use of combinations of silt fencing and hay bales to reduce barrier affects, immediate re-seeding and permanent re-vegetation of native species with 85% cover, and prompt removal of silt fencing upon completion.

- Minimize disturbed areas to protect down gradient buffers, including a well established vegetated buffer to the vernal pools.

Some recommendations for long-term negative impact mitigation should include:

- Reduce the amount of roadway and impervious surfaces required for placement of residential properties, through the use of a shared drive-way and permeable material such as gravel.
- Do not clear regions and maintain a natural vegetative buffer within 100 ft of the vernal pool depression (envelope) and limit development to less than 25% of the critical terrestrial habitat located within 750 ft of the vernal pool.
- Stormwater best management practices must be applied, including detention and biofiltration ponds place appropriate distances from vernal pool habitat, treat stormwater using grassy swales less than 1:4 sloping edges, use of hydrodynamic barriers, avoidance of increase or decreases in wetland water levels, and limitation of impervious surfaces.
- Selection of a portion of the property as a conservation easement would establish a connection with adjacent open space parcels and provide a corridor for migration of wildlife species.

Please contact me if you have any questions or concerns with the completed study.

Sincerely,



Kimberly Bradley  
Project Scientist/Ecological Consultant  
GEI Consultants

## References

Calhoun, A. J. K. and M. W. Klemens. 2002. Best development practices: Conserving pool-breeding amphibians in residential and commercial developments in the northeastern United States. MCA Technical Paper No. 5, Cary Institute of Ecosystem Studies. Millbrook, NY.

CTDEP. October 1997. An Introduction to the Connecticut Inland Wetlands and Watercourses Act Prepared by the CT DEP Bureau of Water Management, Inland Water Resources Division, Wetlands Management Section.

Kenney, L.P. and M.R. Burne. 2001. A Field Guide to the Animals of Vernal Pools. Massachusetts Division of Fisheries and Wildlife and Natural Heritage and Endangered Species Program. Westborough, Massachusetts. 77p.

Klemens, M. W. 2000. Amphibians and Reptiles in Connecticut: A Checklist with Notes on Conservation Status and Distribution. Connecticut Department of Environmental Protection. Hartford, Connecticut Bulletin 32:1-90.



# Photographs

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Photo 1: Vernal pool habitat, center of the northeastern portion of the wetland view west.

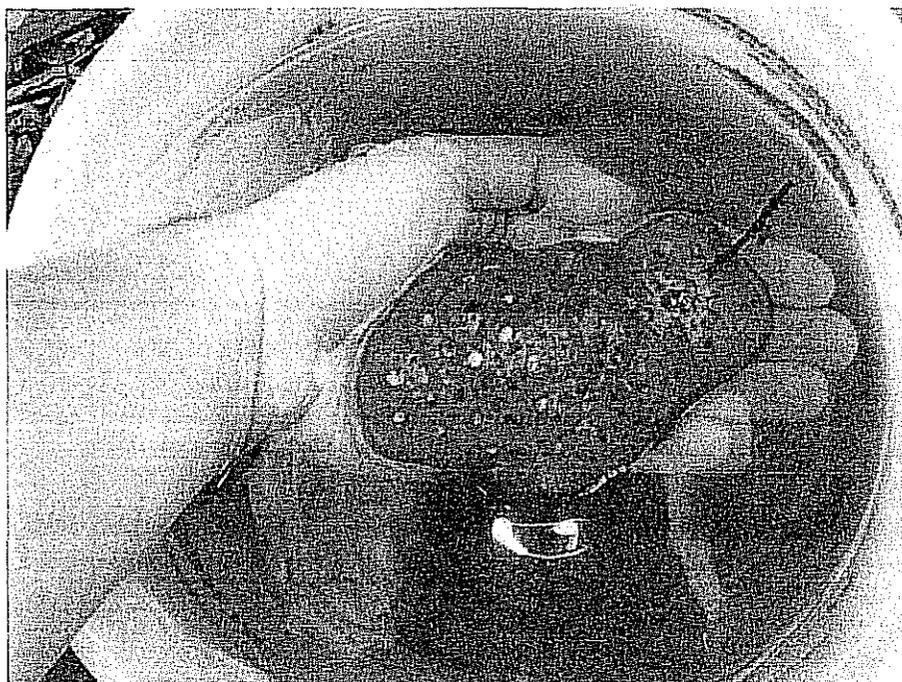


Photo 2: Spotted salamander egg mass collected along western edge of vernal pool.

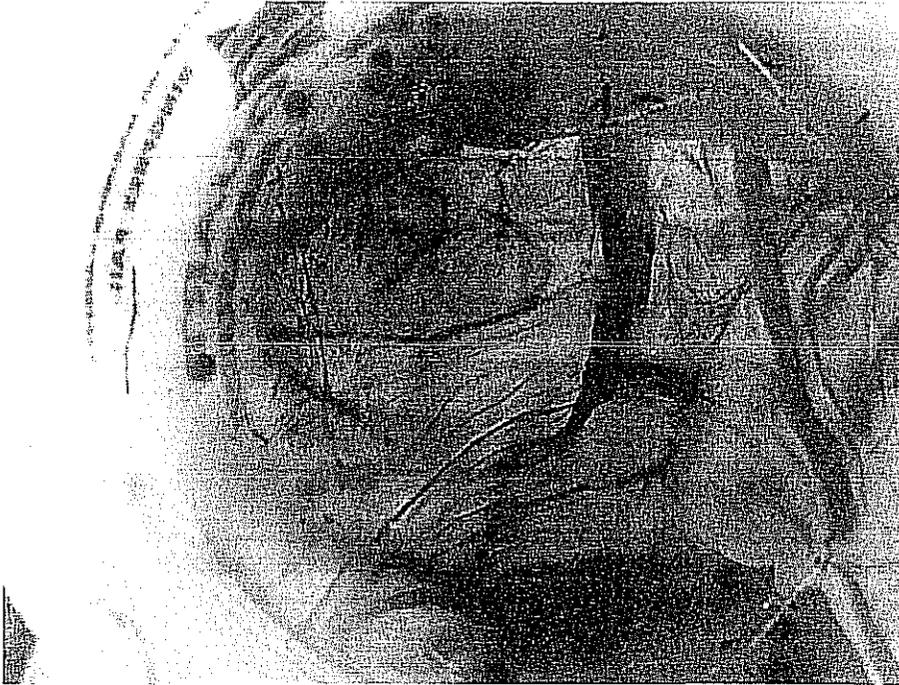


Photo 3: Remnant wood frog egg sack and wood frog tadpoles collected from the vernal pool.



Photo 4 : Center of vernal pool, view south.



Photo 5: Center of vernal pool, view north.



Photo 6 : Northern region of the vernal pool, view east.



Photo 7 : Vernal pool from up gradient eastern portion of the property.

**Memorandum:**

**April 27, 2011**

To: Inland Wetland Agency  
From: Grant Meitzler, Inland Wetland Agent  
Re: New Business for 5.02.2011 meeting

**Requests for Exemption:**

These three requests for exemption - one for replacement of an existing footbridge in the Eagleville Preserve, one for a new footbridge on the Dorwart Preserve parcel, and one for a viewing platform in the Sawmill Brook preserve near a large marsh area. Each proposes light handwork without heavy equipment. The driven iron support for the two bridges will mean minimum ground disturbance and very low potential for adverse impact. The viewing platform will involve support posts on concrete requiring a modest amount of soil disturbance - less than one cubic yard.

Section 4.2 deals with non-regulated uses (as opposed to permitted uses of right which are in Section 4.1).

4.2 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.
- C. Testing and monitoring associated with and related to water quality and subsurface drainage and/or sewage disposal systems.

I( think both W1475, W1476 and W1478 can be considered subject to Section 4.2 A and 4.2 B which would allow them to proceed without seeking further approval.

W1475 - Town of Mansfield - Eagleville Preserve, footbridge replacement over seasonal brook

	yes	no
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fee paid .....	n.a.	
certified receipts .....	n.a.	
map dated .....	4.19.2011	

The project is to:

1. replace an existing deteriorated footbridge at the south end of the Eagleville Preserve property.

The existing bridge appears to be about 16' long. It is proposed to anchor the bridge with threaded iron rod in order to avoid the disturbance of excavation in wetlands for structural posts.

2. install replacement benches with new benches supplied by E.O.Smith Industrial Arts teacher Robert Veira.
3. remove trail debris and do trimming along the trail.

W1476 - Town of Mansfield - Dorwart Preserve, new footbridge over seasonal brook

	yes	no
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fee paid .....	n.a.	
certified receipts .....	n.a.	
map dated .....	4.27.2011	

The project is to:

1. install a new footbridge for a brook crossing on a trail being established on the recently acquired Dorwart Preserve land.

The location is near the south end of the Dorwart Preserve and the north end of the former Lion's Club property. The bridge will be approximately 24' long, anchored at each end in upland soils adjacent to the brook itself. A low existing stone wall located near the center of the bridge crossing is being used for central support. It is proposed to anchor the bridge ends with channel irons in order to avoid the disturbance of excavation for structural posts.

2. remove invasive barberry bushes from bridge downstream to property line
3. remove downed wood from the stream areas around the bridge location

W1478 - Town of Mansfield - Sawmill Brook Preserve, viewing platform over marsh area

	yes	no
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fee paid .....	n.a.	
certified receipts .....	n.a.	
map dated .....	4.27.2011	

The project is to:

1. install a viewing platform overlooking a marsh area along the Nipmuck Trail.

The location is at a scenic point along the Nipmuck Trail through the Sawmill Brook Preserve in the area of the recent Vernon property acquisitions and the Wolf Rock parcels. The combination of parcels belonging to both the Town of Mansfield and the Joshua's Tract make this an important town open space area. The viewing platform will be 8'x 8' having steps up to a slightly raised position and a safety rail on three sides. It is proposed to place the platform support posts on concrete filled sonotubes.

2. this installation will involve a minor area of clearing for the platform itself and a surrounding work area as needed.
3. the nature of this construction suggests a referral to the building department for review of their requirements.

**New Application:**

W1477 - Walker - 65 Riverview Rd - Solar Energy Installation  
within 75' of river

	yes	no
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fee paid .....	x	
certified receipts .....	x	
map dated .....	4.22.2011	

This application is for a solar panel array located approximately 50' away from the Natchaug River on a lot located at the end of Riverview Road.

The property straddles the Mansfield-Windham Town Line such that notice to the Windham Town Clerk has been required.

Receipt and referral to the Conservation Commission for their review and comment is appropriate.

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APPLICATION FOR PERMIT  
MANSFIELD INLAND WETLANDS AGENCY  
4 SOUTH EAGLEVILLE ROAD, STORRS, CT 06268  
TEL: 860-429-3334 OR 429-3330  
FAX: 860-429-6863

FOR OFFICE USE ONLY  
File # 1475  
W \_\_\_\_\_  
Fee Paid \_\_\_\_\_  
Official Date of Receipt 4-25-11

### 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 Road  
Storrs, CT Zip 06268  
Telephone-Home \_\_\_\_\_ Telephone-Business 860-429-0618x204

**Title and Brief Description of Project**

Install one bridge over  
seasonal brook

**Location of Project**

Eagleville Preserve

**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

1) Installation of a bridge (dimensions 8'x4')... across a seasonal brook at the southerly end of Eagleville Preserve

a) The bridge will be fastened to the ground through use of threaded rods (2' inserted into the wetland).

See attached project description and plan

- 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

There will be no soil excavated, thus no disturbance to the wetlands

- 3) Describe the type of materials you are using for the project: Pressure treated wood washers and lag bolts, deck screws, threaded rod

- a) include **type** of material used as fill or to be excavated none  
b) include **volume** of material to be filled or excavated none

- 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).

no soil disturbance, there fore none needed.

**Part D - Site Description**

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

Flat wooded natural area in the southerly portion of Eagleville Preserve.

**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 use of heavy equipment. The current design has the least impact on the wetlands as it will be executed by hand by skilled Eagle Scout candidate and troop leaders

**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 April 19, 2011
- 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).

**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.)

\_\_\_ \$1,000. \_\_\_ \$750. \_\_\_ \$500. \_\_\_ \$250. \_\_\_ \$125. \_\_\_ \$100. \_\_\_ \$50. \_\_\_ \$25.

\_\_\_ \$30 State DEP Fee

NA

*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.**

Applicant's Signature

*Jennifer Kaufman*

Date

*April 19, 2010*

# PROJECT DESCRIPTION

Daniel Vitullo

Project name Eagleville Preserve Project

Describe the project you plan to do.

My Eagle Project is composed of three parts: rehabilitate a trail, replace a foot bridge and install and refurbish benches.

I intend to rehabilitate a trail which will include replacing a wetlands bridge found in the Eagleville Preserve located on Route 32 in Mansfield, Connecticut. Eagleville Preserve is an 11-acre wooded area along the Willimantic River. The Preserve is on a level terrace of sand and gravel that was deposited by a mountain glacier about 15,000 years ago. Replacing the wetlands bridge and fixing the trail will benefit hikers, naturalists and other local residents. In mid-Spring, I will gather fellow Scouts and community members to help reconstruct the bridge. Mr. Robert Veira an industrial arts teacher at E.O. Smith High School in Mansfield will donate benches to be transported and installed at the Eagleville Preserve. I will coordinate placing and installing the benches on the trail in the Eagleville Preserve. In addition, I will coordinate and organize my troop to assist me in clearing the hiking path (which is highlighted on my map) which will include cutting back overhanging branches, picking up litter including small sticks. I will move the brush and sticks off the trail and place them in areas where they can be used as a natural habitat. Before starting this project I must complete a wetlands application. In the town of Mansfield, it is required to have a wetlands permit and to notify the Wetlands Commission to begin any work on this land. There are several caged off plants in the Preserve. Our town is trying to plant more native plants. I will put pictures on a laminated card to recognize Swamp Azalea, Northern Arrowwood and Serviceberry Allegheny. These plants were planted through a cost share program with a Wildlife Habitat Incentive Program. I must also attend the Wetlands Commission meeting to present my project for their approval. The State of Connecticut Wetlands Regulations require the following, "The State of Connecticut wants to preserve the wetlands and water courses as much as possible. The state does not want random unnecessary destruction of the wetlands...the state thinks that the wetlands are an indispensable and irreplaceable but fragile natural resource with which the citizens of the state have been endowed. The Wetlands Commission prevents misuse of the wetlands area, minimizing disturbances and pollution, maintaining and improving water quality in accordance with the highest standards set by federal, state and local authorities." The Wetlands Commission for the Town of Mansfield meets the first Wednesday of each month. I will be working with Mrs. Jennifer Kaufman from the Town of Mansfield as my advisor for this project. Mrs. Kaufman, is the Parks Coordinator for the Town of Mansfield.

What group will benefit from the project?

Town of Mansfield Parks and Recreation Dept.

860-429-3015 Ext. 204

Name of religious institution, school, or community

Telephone No.

10 Eagleville Road

Mansfield

CT

06268

Street address

City

State

Zip code

My project will be of benefit to the group because:

My project will allow hikers and naturalists to explore the Eagleville Preserve area in a safer manner. Currently, the bridge has rotten boards and someone could easily fall and get hurt. The new benches will allow visitors in the area to rest and to watch wildlife. I have walked the hiking path which is one mile. This path is overgrown and I know that clearing the brush on the hiking paths will improve residents hiking experiences.

This concept was discussed with my unit leader on

11/29/10  
Date

The project concept was discussed with the following representative of the group that will benefit from the project.

Jennifer Kaufman

12/5/2010

Representative's name

Date of meeting

Parks Coordinator, Town of Mansfield

860-429-3015

Representative's title

Phone No.



PAGE  
BREAK

# Eagleville Preserve Project

My Eagle Scout project is to refurbish a walking trail at the Eagleville Preserve. This will include rebuilding a foot bridge, replacing, restoring and installing benches and improving the path for hikers and naturalists.

The preserve is off of route 32 by the Willimantic River. The Preserve is an 11 acre wooded area.

My project will include three parts.



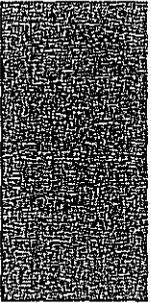
Fallen Debris

Some of the debris is from fallen trees, leaves and sticks.



Trail in Baboits (Continued)

This is an example of the trail and the work that needs to be done.



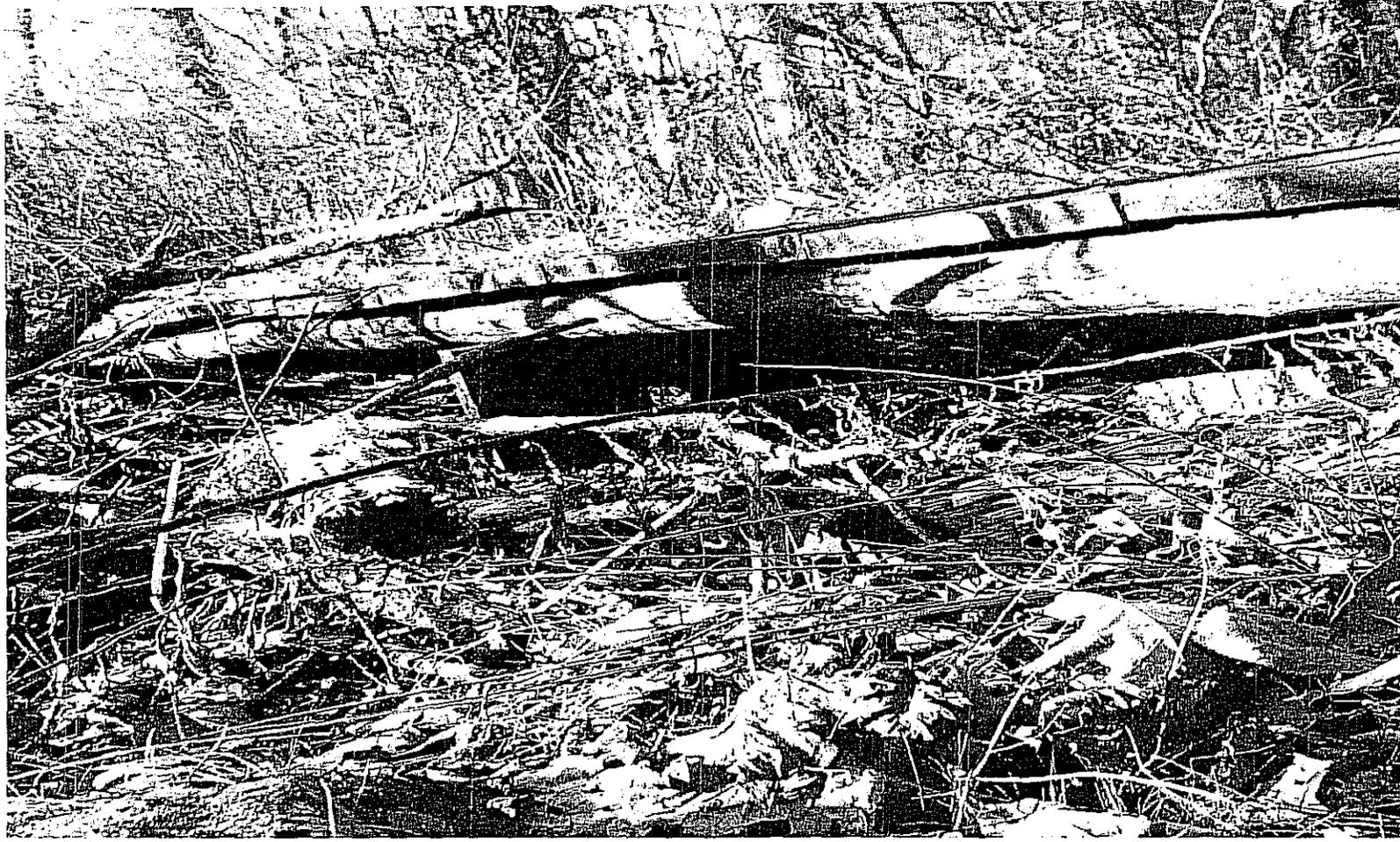
## Flooded Trail

This part of the trail has been flooded, which means this spring and early summer there could be mosquitoes.

## Part II: The Foot Bridge

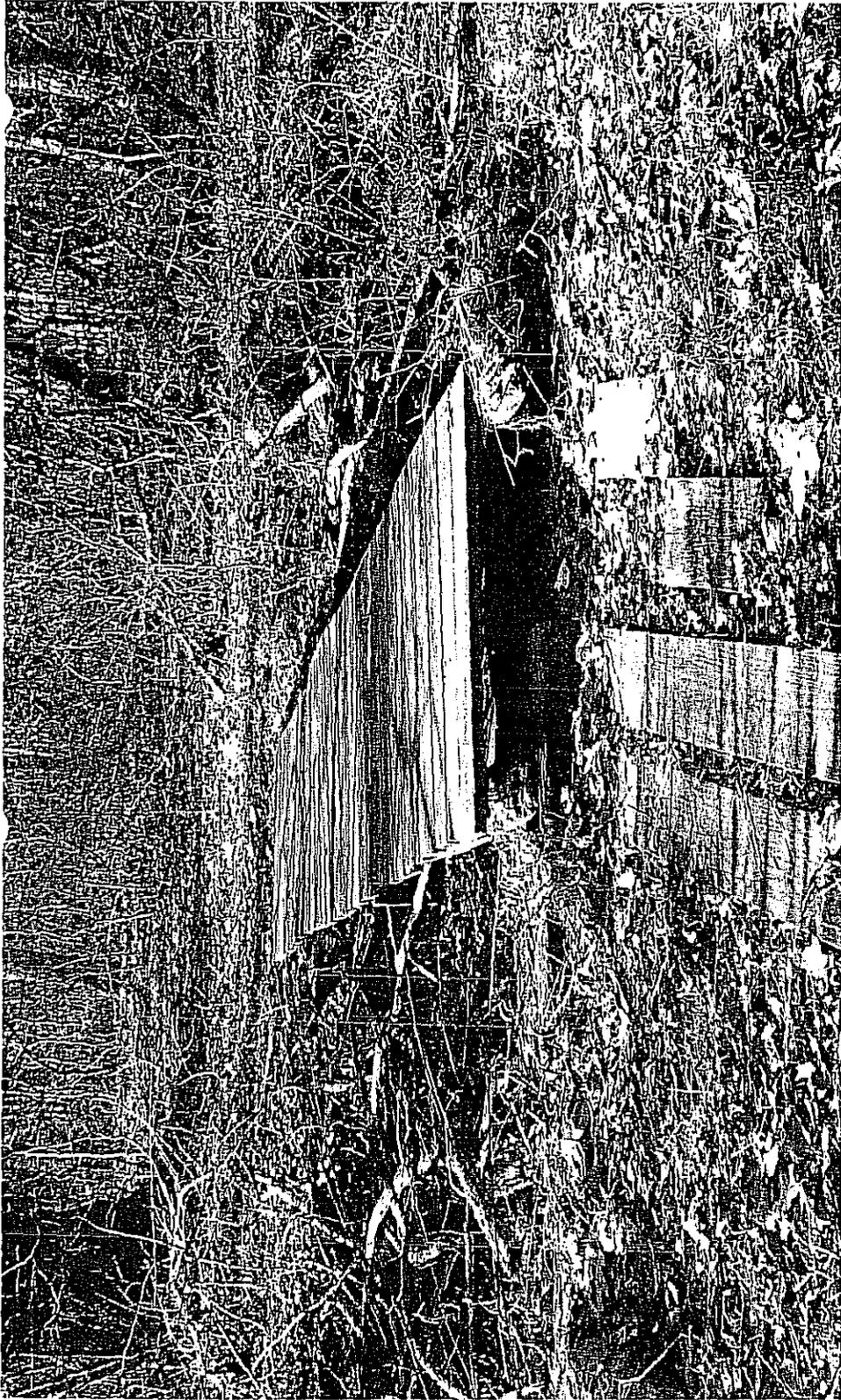
### **Part II: Rebuilding and replacing a foot bridge**

The bridge will be constructed out of pressure treated wood. Currently debris, leaves and branches collect under the bridge. My design will prevent this from happening.



## The Foot Bridge

This is a picture of the bridge now. Please notice how sticks and debris get stuck under the bridge.



The Four Bridge (Continued)



## Preliminary Work

Once approved by Council, I will work on the Wetlands Commission application and present my ideas at the monthly Commission meeting.

Discussed with Commission and they do not see any problems with this project.

## Advising and Volunteers

I will be working closely with Ms. Jennifer Kaufman (the Parks Coordinator) from the Town of Mansfield, the Wetlands Commission of Mansfield, Boy Scout Troop 61, friends and family.

## Finances

The Town of Mansfield will supply the financing for the materials necessary for this project. I must provide a detailed list of supplies to Ms. Kaufman, once she has approved it I will take the purchase order to Willard's Hardware Store. The materials will then be delivered to our Scout Hall to complete the project.

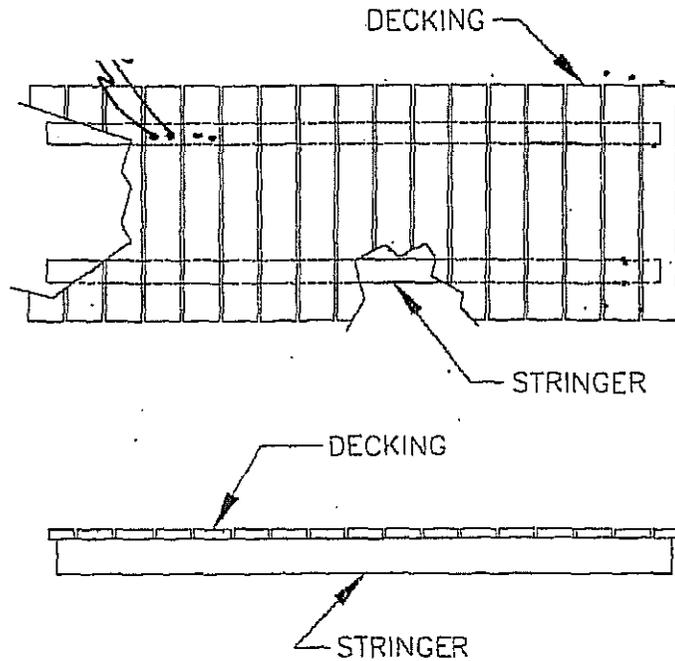
Materials	Quantity	Estimated Cost
4x4x8 pressure treated planks	7	\$76.93
5 lb box of Deck Screws	N/A	\$23.95
6x1x10 pressure treated planks	6	\$75.24
1-2 ft Threaded rod (.5cm)	4	\$13.96
Washers and lag bolts 3/8 x 4cm/washers	16	\$14.40
		Est. Total: \$204.50

## Supplies

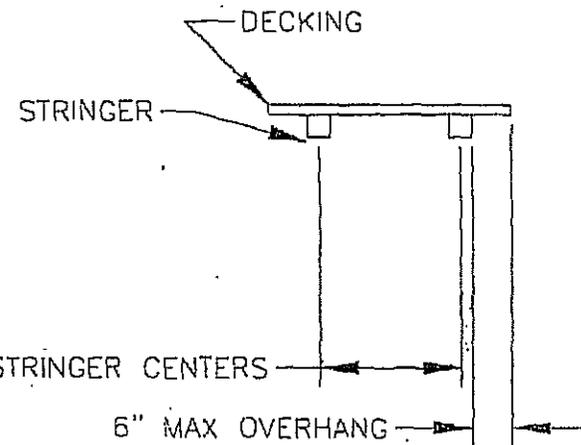
The project will require the following tools. I will borrow the tools from Troop 61.

- Power Drill w/ drill bits
- Rakes, Safety Goggles
- Loppers, Garbage bags
- Shears, Tape measure
- Post digger, Level
- A small hand saw, Gloves
- Cordless Drill (reassemble the bridge)
- Wrenches
- Hammers

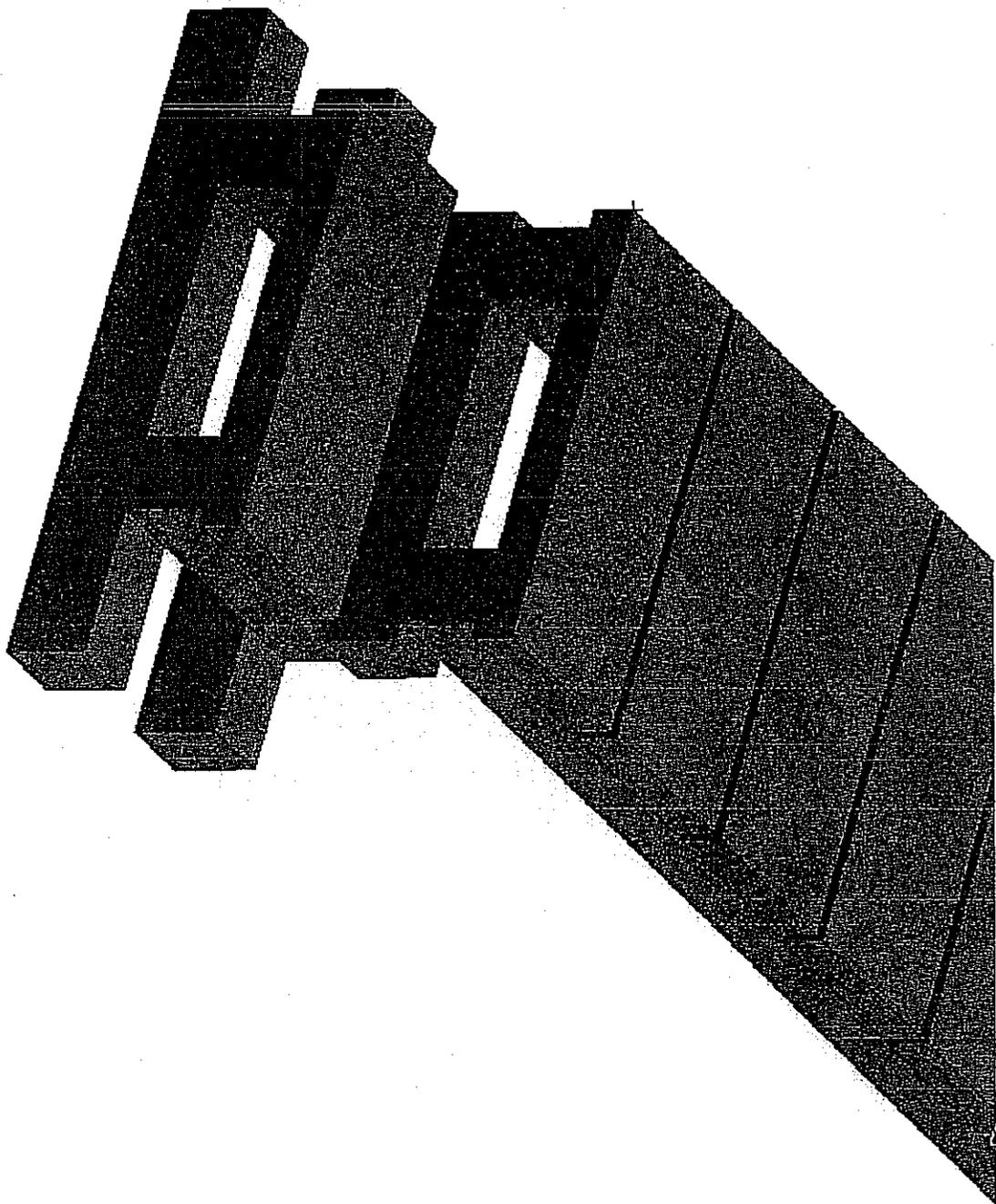




Bridge design  
 includes step  
 detailed on next  
 page.



SIMPLE DRESSED LUMBER BOARDWALK SECTION



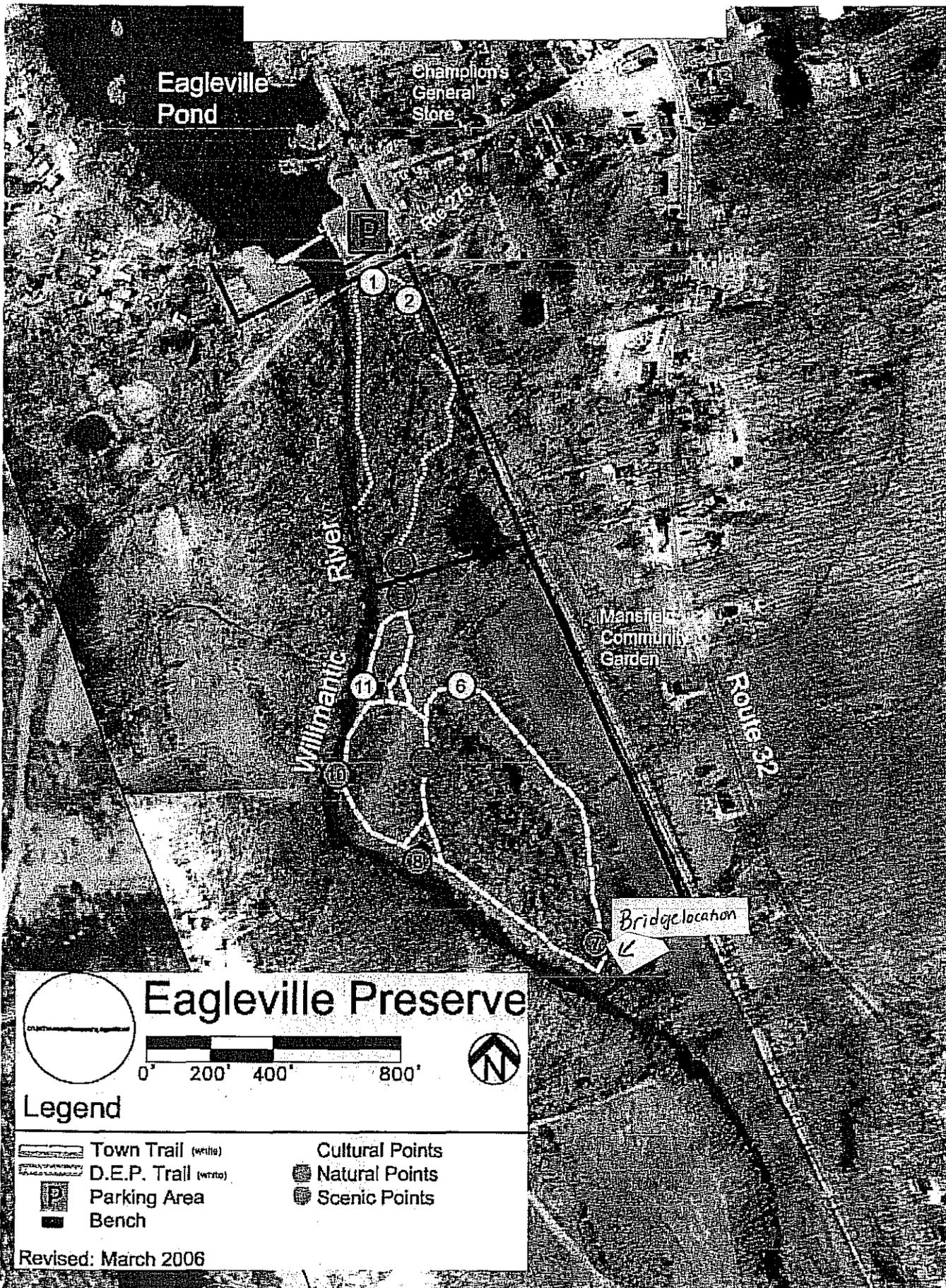




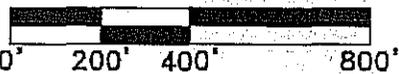
Examples of the Trail

MAP OF EAGLEVILLE

April 19, 2011



**Eagleville Preserve**



**Legend**

- |                      |                 |
|----------------------|-----------------|
| Town Trail (w/cta)   | Cultural Points |
| D.E.P. Trail (w/cta) | Natural Points  |
| Parking Area         | Scenic Points   |
| Bench                |                 |

Revised: March 2006

# Trail Guide

There are 0.99 miles of hiking trails within the DEP and Town boundaries. The trails are blazed in white and wind through the following points of interest:

1. **The Eagleville Mill** - The mill was built next to the dam and was originally powered by water. This area south of 275 was cleared to store raw materials. Cotton fabric was produced here from 1814 to 1931, and then shoe lasts were made until the mill was demolished in the 1950s.

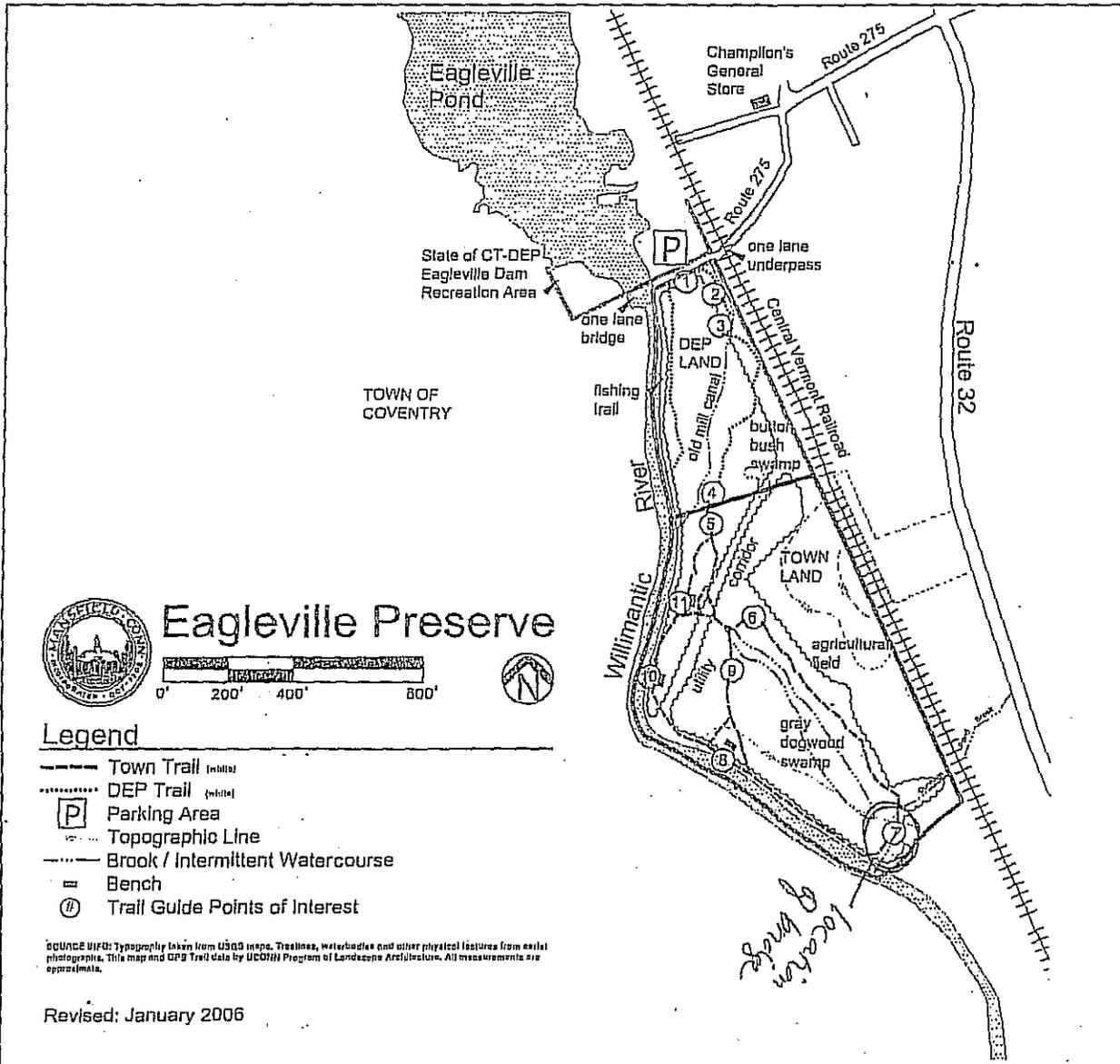
2. **Old Mill Race** - Water was diverted from Eagleville P into a canal (race) that flowed under the mill's waterwheel then under Rt. 275. This footbridge crosses the lower r. that returned water to the river. Now this section is a quiet backwater filled with forget-me-nots.

## THIS IS A PICTURE OF THE AREA

April 19, 2011

abundant growth of bittersweet, multiflora rose, winged euonymus (burning bush), barberry, and garlic mustard which are choking out native trees and shrubs.

4. **Diverse Waterways** - Here both the mill race (canal) and Willimantic River are visible. Note the differences in vegetation along the banks of each waterway. Although the standing water in the canal is less appealing than the free flowing waters of the river, this canal provides food and shelter for organisms that the river cannot support, increasing the diversity of wildlife found in this preserve.
5. **Native Woods** - After the trail climbs onto the dry terrace, take note of the changed understory vegetation. Native plants are able to compete with invasives more successfully in these dry, shady woods. Volunteer stewards and Town staff monitor this area for infestations of invasive plants. Early detection and response are key in effectively managing invasive species.
6. **Agricultural Field** - As the trail turns to the east, note the large clearing beyond the woods edge. This field (no public access) contains prime agriculture soil and is leased to a local farmer by the Town.
7. **Wetland Bridge** - As the trail turns west near the Dunham Pond Brook, this bridge allows easy passage over a wetland area filled with ferns. Here the grey dogwood swamp drains into the brook.
8. **Flood Plains** - When approaching the inviting bench take a look across the river. Note the steep slope of the opposing river bank in comparison to the level flood plain on this side of the river. The water-tolerant plant life found on this side of the river is a sign of a flooding area compared to the upland hardwoods and laurel shrubs found across the river.
9. **Vernal Pools** - Although vernal pools contain water only seasonally, their importance to the ecosystem is vital. The late summer drying up of these pools prevents the resident salamanders' and frogs' predators (fish) from coexisting, allowing their eggs to safely reach maturity.
10. **Willimantic River** - Take a moment to enjoy the views of the river. Fallen trees lying in the river provide habitat for many fish and other aquatic life. *Click on [www.willimanticriver.org](http://www.willimanticriver.org) for detailed information.*
11. **Beaver Activity** - This bench and the others you see along the trail were constructed by the Boy Scouts of Mansfield and signify the importance of volunteer and community work in establishing and maintaining Mansfield's parks and preserves. Near this bench, look for signs of beavers that chewed bark off large oaks and toppled small trees, leaving pointed stumps.



PAGE  
BREAK

**APPLICATION FOR PERMIT  
MANSFIELD INLAND WETLANDS AGENCY  
4 SOUTH EAGLEVILLE ROAD, STORRS, CT 06268  
TEL: 860-429-3334 OR 429-3330  
FAX: 860-429-6863**

FOR OFFICE USE ONLY  
File # 1476  
W \_\_\_\_\_  
Fee Paid /  
Official Date of Receipt 4-25-11

*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 06269  
Telephone-Home \_\_\_\_\_ Telephone-Business 860-429-3015 x204

**Title and Brief Description of Project** Install one water crossing  
for recreational use

**Location of Project** Dorwan Preserve

**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

Clear dead / downed trees and barberry from seasonal stream and bank starting at the property line upstream from the proposed bridge to below the point where the bridge will be located.

One bridge will be installed at the Dorwart Preserve over a seasonal stream. (See map for location)

The bridge is located at the narrowest part of the stream to minimize disturbing wetlands. Also, it is located at the lowest point of a rock wall to minimize impact to the wall. The bridge will actually sit on 2 flat rocks that are part of the wall for support.

- 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

No work will be completed in the wetlands. The bridge will be supported through onsite rocks and ground surface. Channel irons will be used to secure the bridge.

- 3) Describe the type of materials you are using for the project: Pressure treated lumber, screws, nuts and bolts, channel iron

- a) include **type** of material used as fill or to be excavated on site material  
b) include **volume** of material to be filled or excavated \_\_\_\_\_

- 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).

No foundation excavations will be dug

**Part D - Site Description**

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

Gently sloping to a seasonal stream. Fairly rocky. Wooded parcel.

**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 Eagle Scout 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 4.27.11
- 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.)

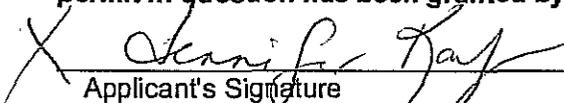
\$1,000.  \$750.  \$500.  \$250.  \$125.  \$100.  \$50.  \$25.

\$30 State DEP Fee

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.**

X   
Applicant's Signature

Date

4/6/2011

# Dorwart Preserve

## Proposed Bridge Project

### Project Proposal

Clear downed trees from the seasonal stream starting at the property line upstream from the proposed bridge to below the point where the bridge will be located.

Clear the barberry bushes from the stream and bank from the property line upstream to below where the bridge will be located.

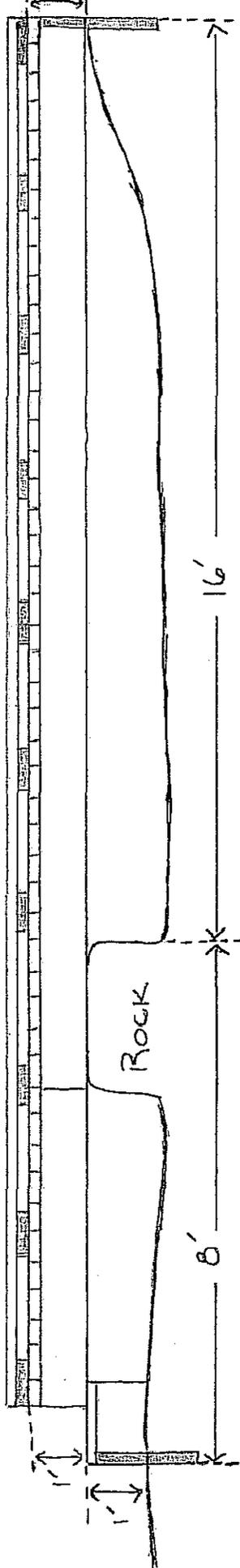
Build a bridge over the seasonal stream.

### Placement and Design of the Bridge

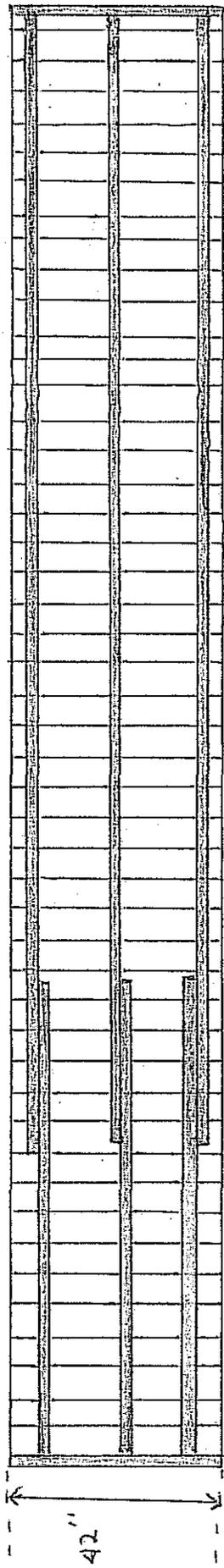
The location of the proposed bridge was decided upon because it was the narrowest section of the seasonal stream and would have the least impact on an existing stone wall. There is a section of the wall that is lower than the rest and is composed of large flat rocks. The bridge will actually be able to set upon those rocks for support.

The bridge is modeled after other bridges that have been built on town property. It will be anchored on both ends with channel iron sunk into the ground so there is minimal soil disturbance.

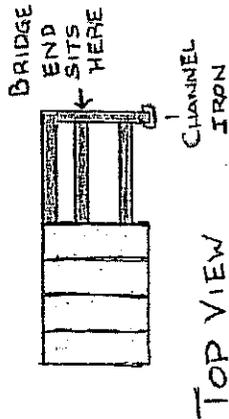




SIDE VIEW OF BRIDGE



UNDERSIDE OF BRIDGE



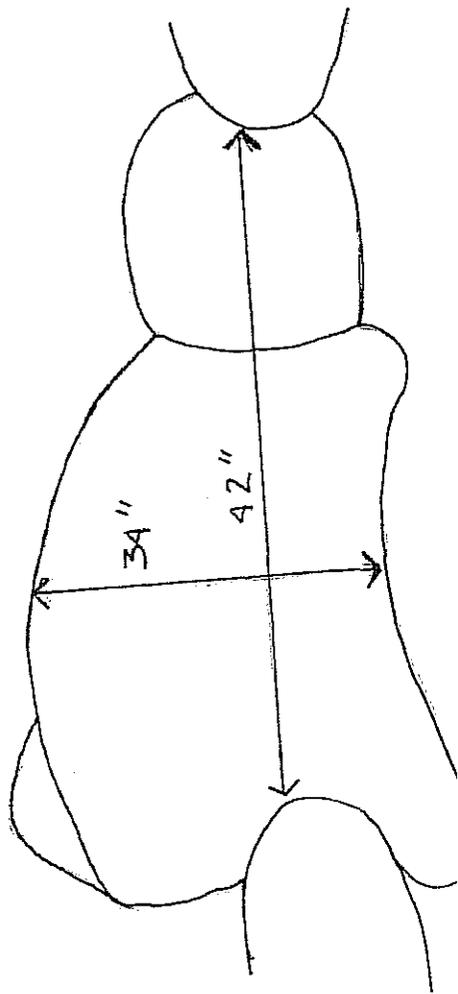
TOP VIEW OF STEP

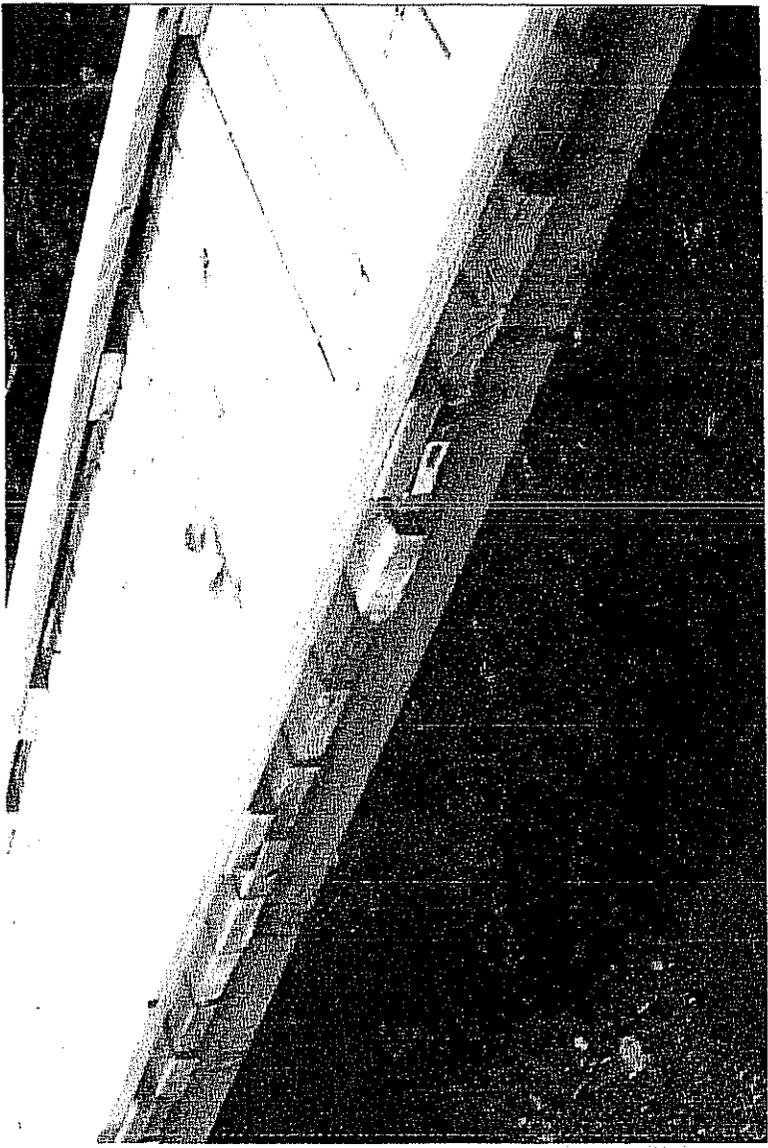
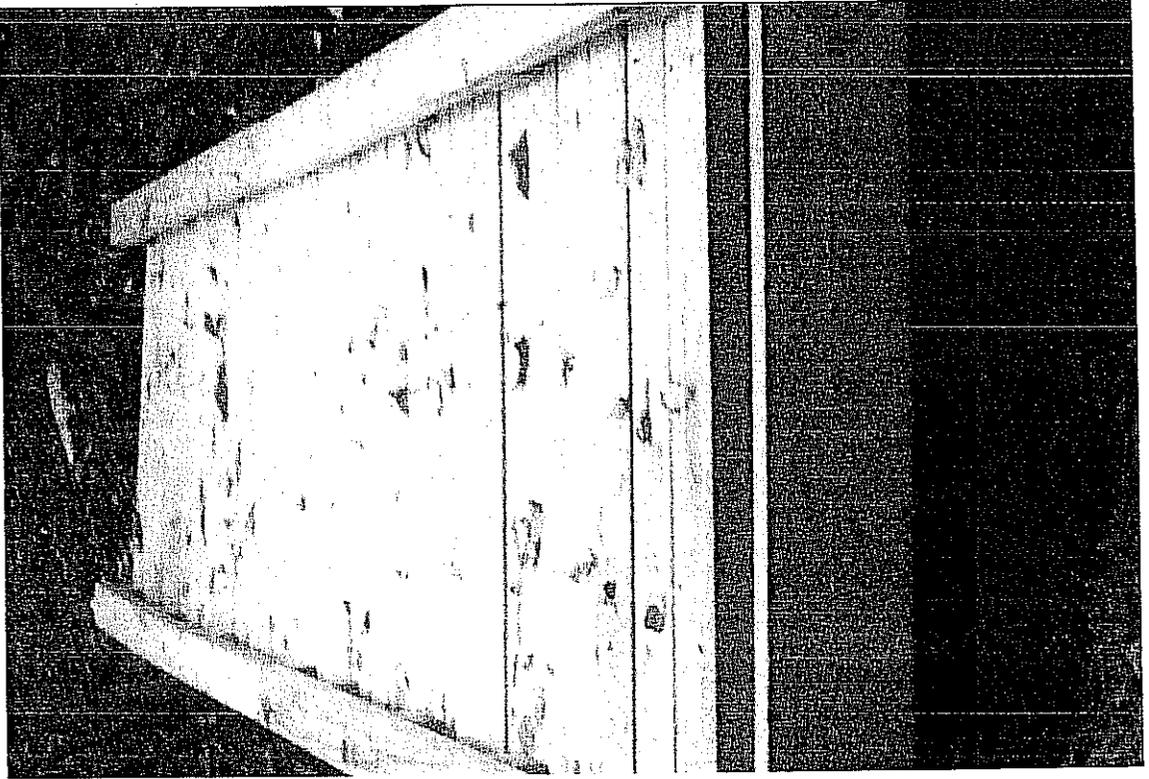
SCALE:  $\frac{3}{8}'' = 1'$



4.27.11

FLAT ROCK DIMENSIONS





# BASIC BRIDGE DESIGN

PROPOSED  
BRIDGE SITE

← LOOKING  
SOUTH



← LOOKING  
NORTH



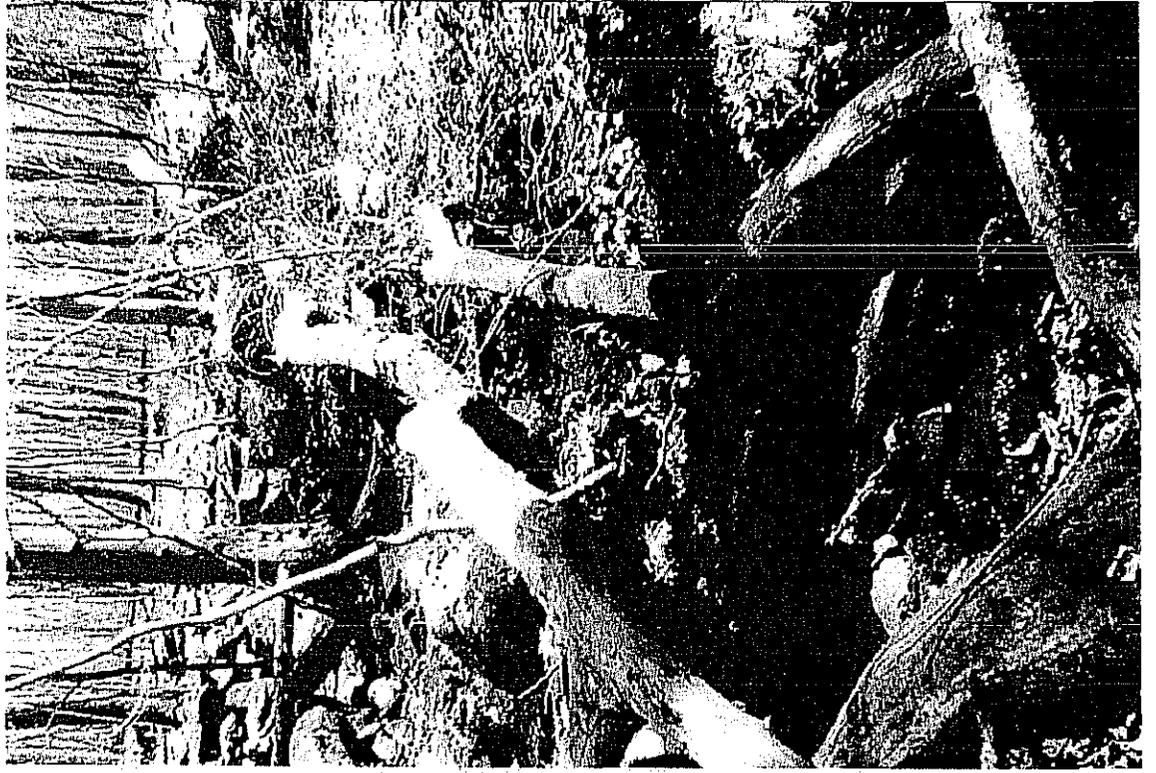
ROCKS BRIDGE

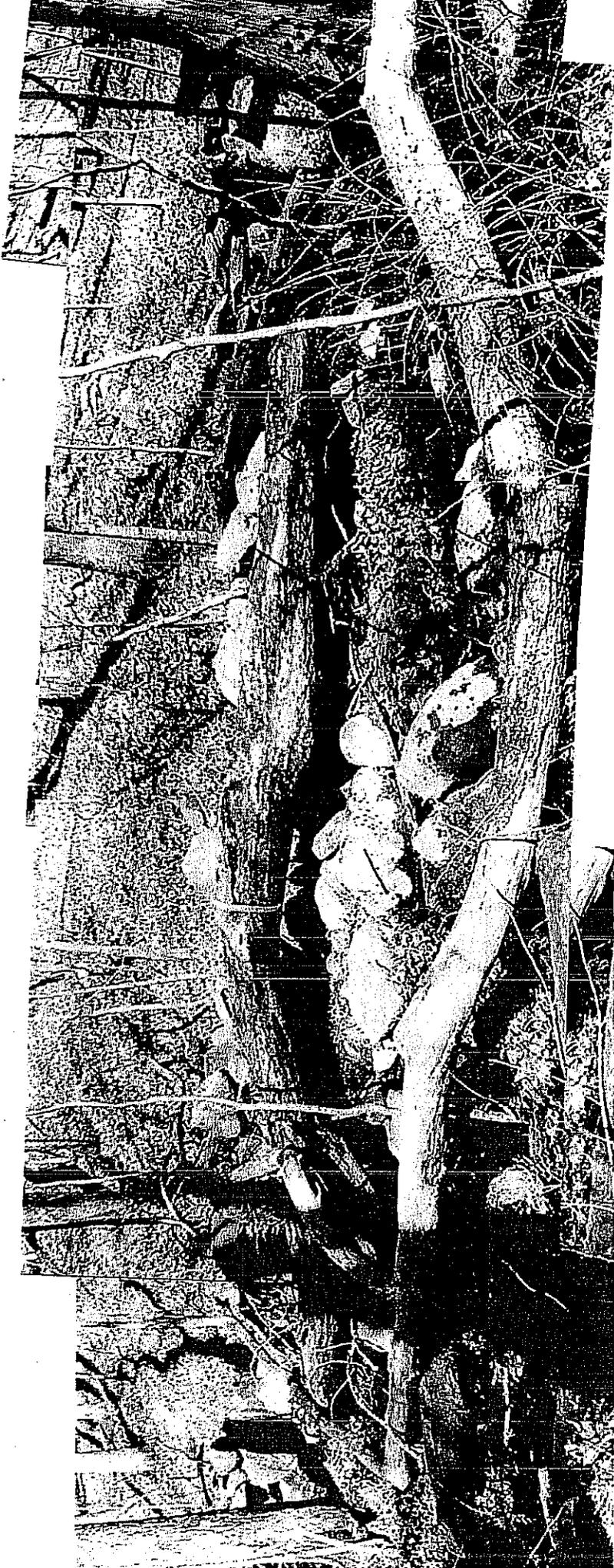
WILL SIT ON



NORTH END  
OF BRIDGE →

LOOKING UPSTREAM





PROPOSED  
BRIDGE SITE

DORWART PRESERVE STREAM  
(APRIL 3, 2011)



↑  
PROPOSED  
BRIDGE SITE

HIGH WATER  
LINE

PROPERTY  
LINE  
(ROCKS  
ACROSS  
STREAM)

STREAM ON DORWART PROPERTY  
(HIGH WATER LEVEL)

PAGE  
BREAK

APPLICATION FOR PERMIT  
MANSFIELD INLAND WETLANDS AGENCY  
4 SOUTH EAGLEVILLE ROAD, STORRS, CT 06268  
TEL: 860-429-3334 OR 429-3330  
FAX: 860-429-6863

FOR OFFICE USE ONLY  
File # 1473  
W \_\_\_\_\_  
Fee Paid \_\_\_\_\_  
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 Road  
Storrs, CT Zip 06268  
Telephone-Home \_\_\_\_\_ Telephone-Business \_\_\_\_\_

**Title and Brief Description of Project**

\_\_\_\_\_

Location of Project Sawmill Brook Preserve  
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

see attached page

- 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

there are 8 cubic feet of space being used for the platform and some brush will be removed to put it there, once the brush is cleared, we will use sonotubes filled with concrete.

- 3) Describe the type of materials you are using for the project: pressure treated wood, concrete sonotubes, fasteners

- a) include type of material used as fill or to be excavated sonotubes filled with concrete  
b) include volume of material to be filled or excavated 1.16 ft<sup>3</sup> of concrete

- 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).

**Part D - Site Description**

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

wooded wooded build site, marsh area on lowland site ground a lot wet and soft.

**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 use of heavy equipment. The current design has the least impact on the wetlands as it will be executed by hand by an Eagle Scout Candidate and Troop Leaders

**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 \_\_\_\_\_

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>NA</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).

**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.)

\_\_\_ \$1,000. \_\_\_ \$750. \_\_\_ \$500. \_\_\_ \$250. \_\_\_ \$125. \_\_\_ \$100. \_\_\_ \$50. \_\_\_ \$25.

\_\_\_ \$30 State DEP Fee

*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.**

Applicant's Signature

*David Kaufman*

Date

*4/19/2011*

## PROJECT DETAILS

Plan your work by describing the present condition, the method, materials to be used, project helpers, a time schedule for carrying out the project, the estimated cost of the project, and how the needed funds will be obtained. Describe any safety hazards you might face, and explain how you will ensure the safety of those carrying out the project.

If appropriate, include photographs of the area before you begin your project. Providing before-and-after photographs of your project area can give a clear example of your effort.

The site we chose is at The Sawmill Brook Marsh along the Nipmuck Trail, but trail access is too long for practical use bringing in materials. A private land owner closer to the marsh, Mr. Bailey, has given us permission to use his driveway to stage and transport supplies. Willard's Lumber Company can deliver the materials to this location. The Town of Mansfield will provide and pay for all necessary materials.

We will first need to clear some minor brush, and possibly one or two small dead trees. Adults will take down the trees. The area in front of the platform will be 4' off the ground, but the base of the back is not on ground of the same level, and we will have to keep the platform level.

All wood used on the deck and its framing will be pressure treated wood. Sonotubes will be 8" in diameter and they will be 4' tall going underground. These sonotubes require 1.395 cubic feet of cement each, which totals up to 5.58 cubic feet of cement in total. 4"x4" posts will come out of all of the sonotubes, and make the guardrail corners. The guardrail is on three sides of the platform and will be 36" off the surface of the deck. The stairs leading to the deck will be 8" apart in height, and the steps will be 9"x36", which totals up to 6 steps. The bench will be 4' in length. On the 8'x8' platform I will be using 2"x8' boards to make the floor and the joists. The boards on the floor will have a 1/4" gap between boards, and the joists under them will be 14 1/2" apart. The actual size of a 2"x8" is 1 1/2"x7 1/4" including the gaps that means I will need 13 (actual 12.8) boards for the platform, and 7 joists.

Possible safety hazards include splinters, ticks, and injuries using tools. To protect against these I will require all workers involved to wear work gloves, long pants, and use safety glasses when using tools.

Necessary tools include shears, saws, drills, hammers, and the safety gear mentioned before, safety glasses, and work gloves.

The town will pay for the materials, so no fund-raiser is necessary. It is also possible that college students will be available to help on the building process, if the project can start before the college year ends. This project must be approved by the inland wetlands board and inspected by a building inspector to gain building permits. If we get these approvals in a reasonable amount of time, I hope to finish the project by June.

■

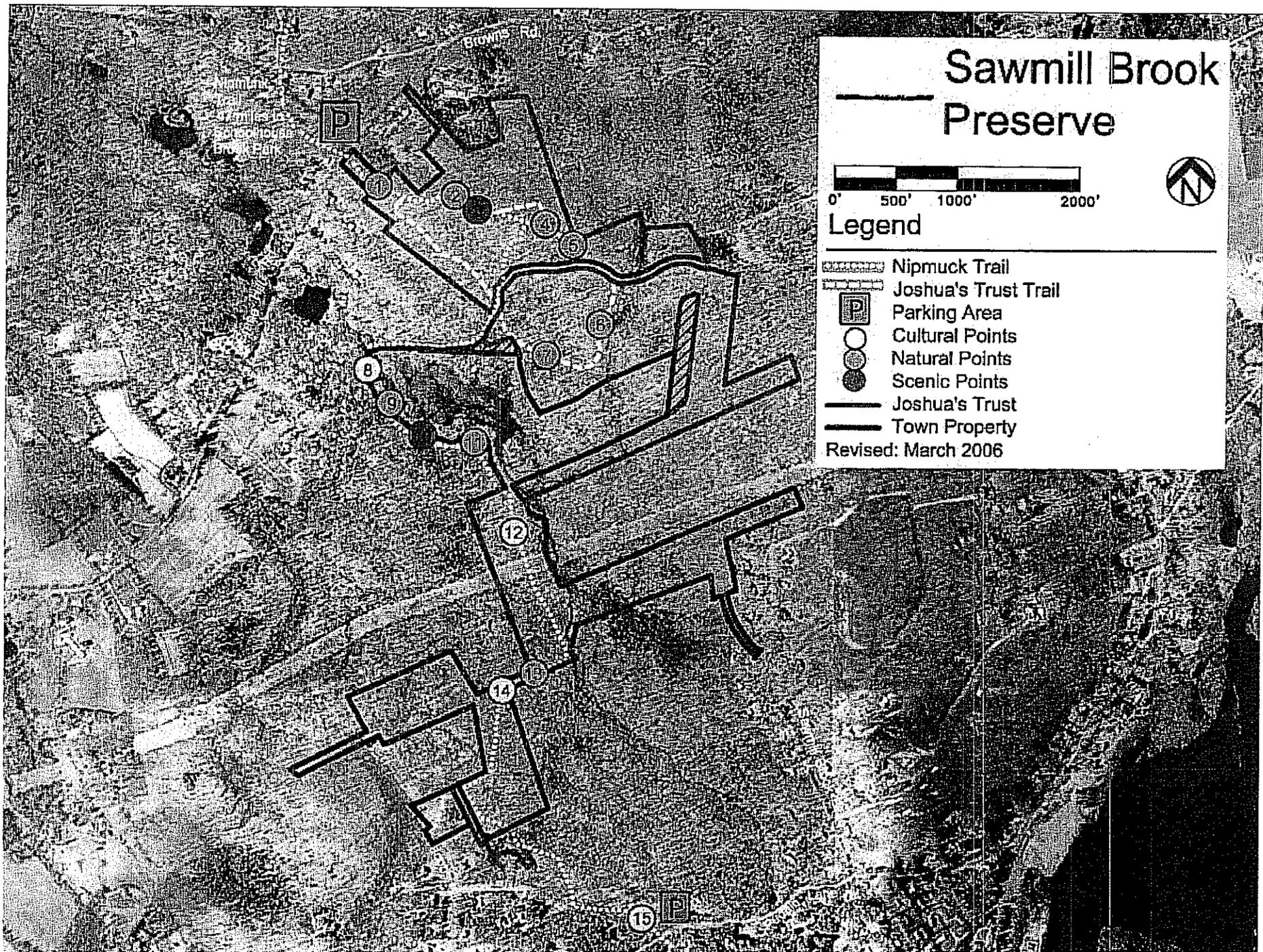
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# Sawmill Brook Preserve



## Legend

-  Nipmuck Trail
  -  Joshua's Trust Trail
  -  Parking Area
  -  Cultural Points
  -  Natural Points
  -  Scenic Points
  -  Joshua's Trust
  -  Town Property
- Revised: March 2006



# Trail Guide

There is a total of 9 miles of blazed hiking trails within the Joshua's Trust and Town boundaries. The Nipmuck Trail (blazed in blue) and Joshua's Trust (blazed in yellow) wind through the following points of interest:

1. **Glacial Remains** - Signs of glacial activity are visibly scattered around the preserve. Many of the rocks were carried by the glacier from regions much farther north and were deposited here over 15,000 years ago.

2. **Wolf Rock** - Approximately 6 feet in diameter, this rock was left perched at the edge of a 40-foot cliff by the glaciers. Today it remains as one of Mansfield's most spectacular landmarks, mentioned in deeds dating back to the late 18th century.
3. **Scenic View** - As you look out south and east over the tree canopy from Wolf Rock, the views are breathtaking. Here the forested valley of Sawmill Brook can be seen, as well as the open fields on the brow of Crane Hill Field. In the distance is the campus of Eastern Connecticut State University.

4. **Rock Ledge** - During the descent down the trail, one of the preserve's many rock ledges can be seen. The bedrock exposed here is a variety of metamorphic rock called Willimantic Gneiss.

5. **Old Blacksmith Shop Road** - This abandoned road once connected Mansfield Center to the Crane Hill area.

6. **Riparian Vegetation** - While the trail winds along Wolf Rock Brook, take note of native water-tolerant vegetation growing here: skunk cabbage, ferns and birches. This palette of greenery will appear in many of the wet areas in the preserve.

7. **Hemlock Grove** - The dominant tree species here is the evergreen hemlock. While these trees are native, the species is currently threatened by a non-native insect called the Hemlock Woolly Adelgid.

8. **Invasive Plants** - As you cross over Sawmill Brook, notice the understory vegetation. These invasive species (barberry, multiflora rose, and bittersweet) were introduced as ornamental plants, and have since escaped from cultivated gardens into the wild, replacing native plants.

9. **Beaver Activity** - As the trail winds along the marsh's edge, note the pointed stumps. These are the remains of trees that were felled by beavers. The size of the marsh may be attributed to beaver damming.

10. **Marsh Views** - Sunny, treeless wetlands are called marshes. Phragmites, the tall 'wheat-like' grass seen at the far edge of the marsh, is a common invasive species of this wet environment.

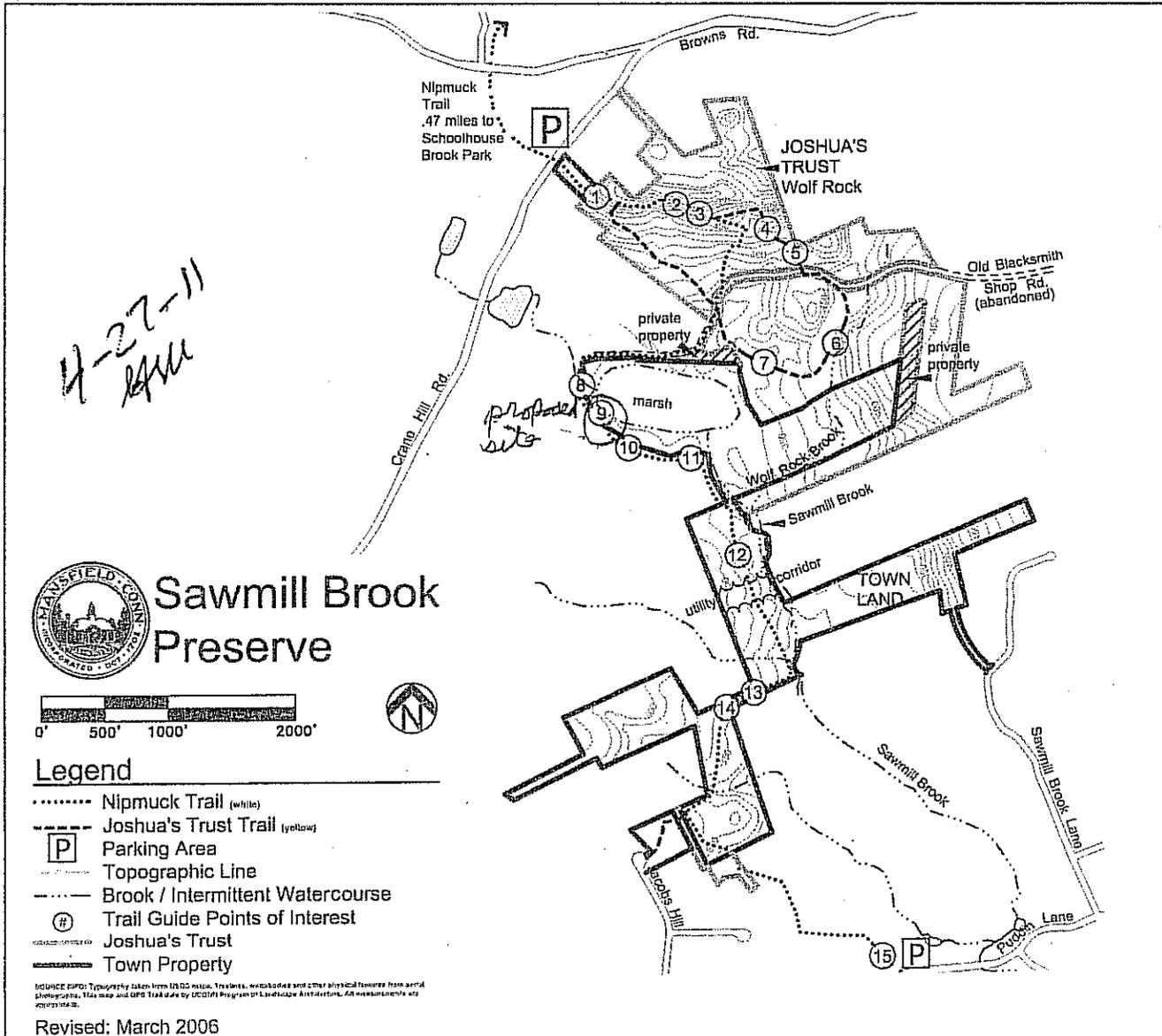
11. **Wildlife View** - A view opens when the trail rounds the end of the marsh. Approach quietly and you may spot a Great Blue Heron.

12. **Utility Corridor** - This area is cleared for power lines and reveals the profile of Sawmill Brook valley, as the land slopes down to the brook, then steeply up the other side to Beech Mountain.

13. **Upland Hardwoods** - As the trail makes a gradual climb, notice the change in tree species. Hardwoods such as oak, beech and maple dominate the forest here.

14. **Old Stone Wall** - In most forests in New England it is common to find spans of old stonewalls used to contain grazing animals and property boundaries.

15. **Nipmuck Trail** - The blue-blazed Nipmuck Trail extends 37-miles from Union, Connecticut to Mansfield Hollow State Park and connects many of Mansfield's town parks. The Nipmuck trail is maintained by the Connecticut Forest and Parks Association.



APPLICATION FOR PERMIT  
MANSFIELD INLAND WETLANDS AGENCY  
4 SOUTH EAGLEVILLE ROAD, STORRS, CT 06268  
TEL: 860-429-3334 OR 429-3330  
FAX: 860-429-6863

FOR OFFICE USE ONLY  
File # 1477  
W  
Fee Paid \$185-  
Official Date of Receipt 4-25-11

*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 Harriet (and Crayton) Walker  
Mailing Address 65 Riverview Rd.  
Mansfield Ctr., CT Zip 06250  
Telephone-Home 860-423-7169 Telephone-Business na,

**Title and Brief Description of Project**

Proposed photovoltaic system  
Location of Project 65 Riverview Rd.  
Intended Start Date May 18, 2011

**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.)

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*See attached*

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*See attached*

- 3) Describe the type of materials you are using for the project: \_\_\_\_\_

*See attached*

- a) include **type** of material used as fill or to be excavated \_\_\_\_\_

- b) include **volume** of material to be filled or excavated \_\_\_\_\_

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*See attached*

**Part D - Site Description**

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

*See attached*

**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.

See attached  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Part F - Map/Site Plan (all applications)**

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- 2) Applicant's map date and date of last revision April 22, 2011
- 3) Zone Classification R-20
- 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.

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1) List the names and addresses of abutting property owners

Name	Address
<u>See attached</u>	

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- 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**

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**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.)

\_\_\_ \$1,000. \_\_\_ \$750. \_\_\_ \$500. \_\_\_ \$250. \_\_\_ \$125. \_\_\_ \$100. \_\_\_ \$50. \_\_\_ \$25.

\_\_\_ \$60 State DEP Fee

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**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.**

*Harriet A. Walker*

Applicant's Signature

*4/22/2011*

Date

## Part C - Project Description

1) The overall project we propose is a grid-tied photovoltaic system for our house at 65 Riverview Road, Mansfield Center, CT. The project will use a ground-mounted solar panel array placed about 30 feet northeast of our house, and, at its closest point, roughly 50 feet from the Natchaug River. This position for the solar array was chosen to provide good sun exposure on our property.

The project work that is most relevant to the Agency is the construction of a ground-mount rack for the panel array, and burying an electric cable that carries current from the array to the house.

The ground-mount work is scheduled to begin May 18, 2011. Work involving electrical components is expected to start a week later.

2) The solar panel array overall measures approximately 12 feet by 35 feet. The mounting rack by itself is approximately 8 feet by 34 feet.

3) The mounting rack is a simple pressure-treated wood frame made of two 34-foot 4"x6" beams, each beam supported by 5 vertical 4"x4" posts, braced as needed. The support posts rest on concrete piers buried in the ground.

The concrete piers are constructed on site using 12-inch diameter form tubes (Sonotube or similar) set at least 40 inches deep in a hole excavated by 2-man auger or small excavator. The forms are then filled with concrete mixed on-site using a portable mixer. The pier forms are back-filled by hand. Since there are 10 piers (five per beam) the total amount of material excavated and not used for back-fill is around 26 cubic feet. The material to be excavated in this area is mostly a mix of sand, silty sand, and gravel.

An electrical cable will run from the array to the northwest corner of our garage. The ditch for this cable will be about 50 feet in length. Its construction has minimal wetlands significance because 1) it is small (around 3" by 20") and 2) the cable to be buried in it is so small the ditch will be backfilled with almost 100% of the material excavated from it.

4) To minimize adverse effects on the nearby watercourse, we intend to stake hay bales between the river and the excavated area. Pressure-treated wood will be sawed over tarps. Sawdust will be collected and separately disposed of.

#### Part D - Site Description

The general character of the land is cleared, well-drained, largely flat land with a slight slope toward the river.

#### Part E - Alternatives

Alternative photovoltaic systems use a) roof-mounted or b) pole-mounted solar panel arrays.

Neither of these options is appropriate here. Our house does not have a south-facing roof large enough for a useful roof-mounted array. As compared to a ground-mounted system, a pole-mounted system is both more expensive and requires much more excavation for the very large concrete foundation needed to secure its suspended array.

As to a different location for our array, given the heavily treed nature of most of our land, the most practical course is to site the array where the fewest trees need to be taken down.

#### Part F - Map/Site Plan

- 1) Site plan attached
- 2) Applicant's map date: April 22, 2011
- 3) Zone Classification: R-20
- 4) Property in a flood zone? Yes, between the 100 and 300-year limits.

#### Part H - Notice to Abutting Property Owners

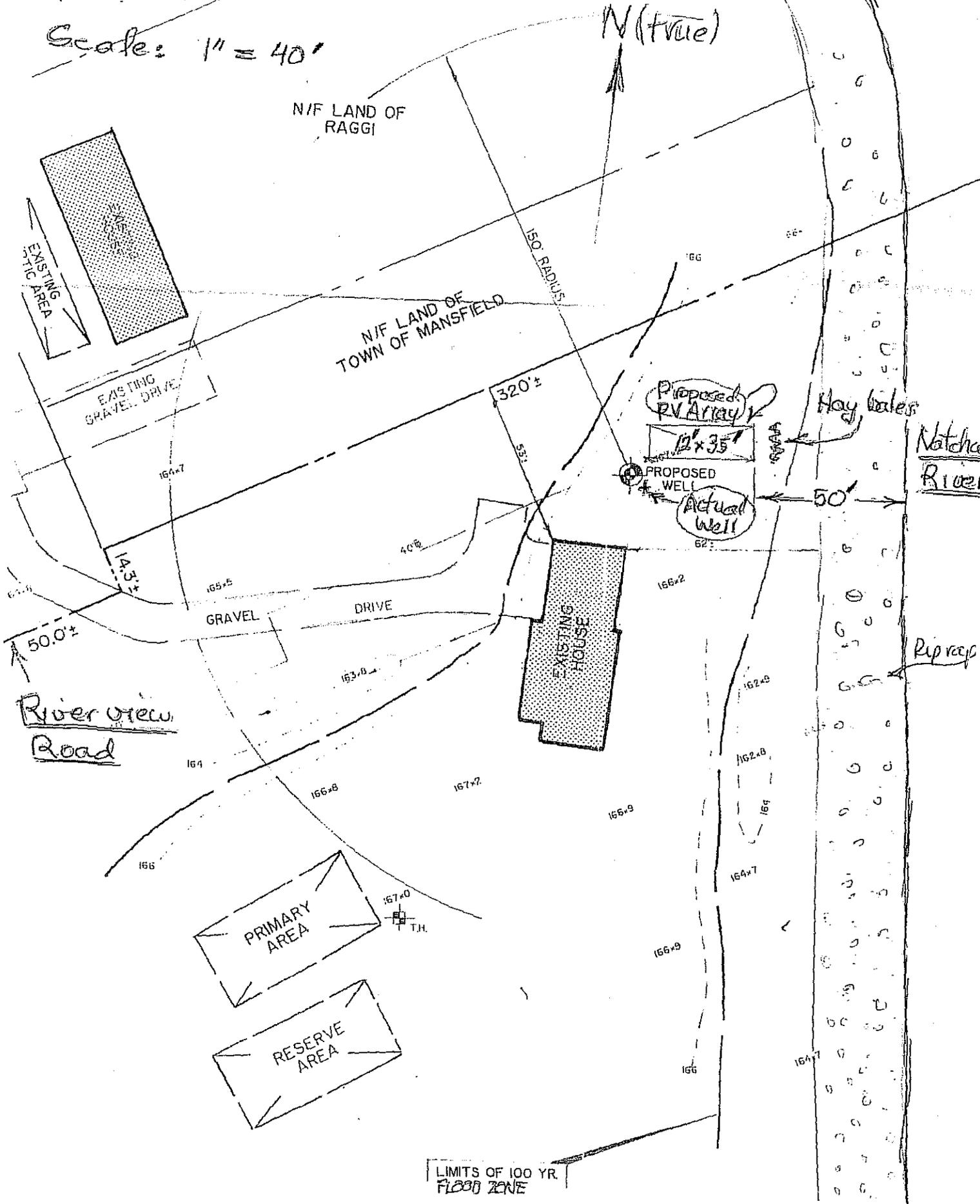
- 1) Names and addresses of abutting property owners: see list attached.

65 Riverview Rd., Mansfield Center, CT

Proposed Photo Voltaic System Project

4/22/2011

Scale: 1" = 40'



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56 East Main Street  
Suite 202  
Aven, CT 06001

p: 860.677.5555  
f: 860.677.5590



April 13, 2011

Mr. Grant Meitzler, Inland Wetland Agent  
Town of Mansfield  
Inland Wetland Agency  
Audrey P. Beck Building  
4 South Eagleville Road  
Mansfield, CT 06268-2599

Re: April 5, 2011 Letter

Dear Mr. Meitzler:

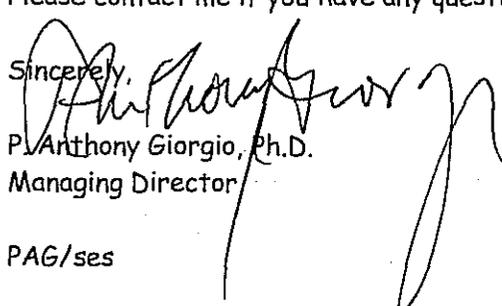
We are in receipt of your letter dated April 5, 2011 regarding an email you received from a resident on Northwood Road. Our engineers had shared the original email with us and our drilling contractor was contacted and asked to correct this unacceptable behavior immediately. We also asked him to consider installing a Porto let at the site if he felt that it was required.

An attempt was made to contact Rob Miller via email, but, unfortunately, it came back undeliverable. We have not contacted the homeowner directly because we sincerely hope the situation has been corrected. A copy of this letter will be sent to Mr. Miller as well as the Town Planner and Town Manager acknowledging your correspondence and our action with regard to the matter raised.

We apologize for any inconvenience to you or your associates. We are also unhappy with the actions of our subcontractors on the site. We believe the situation is resolved, but, will continue to monitor.

Please contact me if you have any questions.

Sincerely,

  
P. Anthony Giorgio, Ph.D.  
Managing Director

PAG/ses

cc: Robert Miller, Eastern Highland Health District Director  
Gregory Padick, Town Planner  
Matthew Hart, Town Manager

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