

8-12-09

**SWAN LAKE DRAINAGE OUTFALL  
IMPROVEMENTS**

**DEP General Permit for Utilities and Drainage**

**PREPARED FOR:  
UNIVERSITY OF CONNECTICUT**

**July 2009**

**Prepared by:**

**LENARD ENGINEERING, INC.  
CIVIL, ENVIRONMENTAL & HYDROGEOLOGICAL CONSULTANTS**

**1768 STORRS ROAD, P.O. BOX 580  
STORRS, CT 06268-0580**



# Request for Authorization Form for General Permits Administered by the Inland Water Resources Division Including:

DEP USE ONLY	
App. No.	_____
Co./Ind. No.	_____

- General Permit For Habitat Conservation (DEP-IWRD-GP-003)
- General Permit For Lake, Pond and Basin Dredging (DEP-IWRD-GP-004)
- General Permit For Utilities and Drainage (DEP-IWRD-GP-005)
- General Permit For Minor Structures (DEP-IWRD-GP-006)
- General Permit For Minor Grading (DEP-IWRD-GP-007)
- General Permit For Dam Safety Repair and Alteration (DEP-IWRD-GP-008)

**Notice to Requesters:** Please complete this form in accordance with the instructions (DEP-IWRD-INST-003-008) to ensure the proper handling of your request for authorization. Print or type unless otherwise noted. You must submit the *Permit Application Transmittal Form* (DEP-APP-001) and the applicable total fee with this form.

**Notice to Municipal Agencies:** This is a request for authorization submitted to the Department of Environmental Protection (DEP) pursuant to CGS Section(s) 22a-45a (Inland Wetlands and Watercourses), 22a-349a (Stream Channel Encroachment Lines), 22a-378a (Diversion of Water), or 22a-411 (Dam Safety). In accordance with such sections, the municipal agencies listed in Part VIII of this request for authorization and any other person, may submit written comments to DEP concerning the activities described herein no later than **thirty-five days** after the date this request for authorization was submitted to such agencies or DEP, whichever date is later. **All correspondence regarding this request for authorization must identify the name of the requester and the name of the general permit (see above).** No activity is authorized under these general permits unless it is approved, in writing, by the Commissioner of DEP.

Submit *comments* to:  
 INLAND WATER RESOURCES DIVISION  
 DEPARTMENT OF ENVIRONMENTAL PROTECTION  
 79 ELM STREET  
 HARTFORD, CT 06106-5127

Call the Inland Water Resources Division General Permit Program should there be any questions: 860-424-3019 or 860-424-3706, Monday through Friday, except holidays, from 8:30am to 4:30pm.

## Part I: Requester Information

1. Fill in the name of the applicant(s)/requester(s) as indicated on the <i>Permit Application Transmittal Form</i> (DEP-APP-001):			
Applicant/Requester: <b>University of Connecticut</b>			
Mailing Address: <b>31 LeDoyt Road; U-3055</b>			
City/Town: <b>Storrs</b>	State: <b>CT</b>	Zip Code: <b>06269-3055</b>	
Business Phone: <b>860-486-5446</b>	ext.	Fax: <b>860-486-5477</b>	
Contact Person: <b>Richard Miller</b>	Title: <b>Director, Envir. Policy</b>		
<input type="checkbox"/> Enter a check mark if there are co-requesters. If so, label and attach additional sheet(s) with the required information as supplied above.			

**Part II: General Permit Type and Fee Information**

Enter a check mark in the appropriate box(es) to indicate the activity(ies) which is(are) the subject of this request for authorization and the program that applies to each activity. Please complete one request for authorization form for each site. Each site may encompass several activities. The fee for each activity is \$1000.00, unless otherwise indicated. For municipalities, the 50% discount applies. The request for authorization will not be processed without the total fee. Please enter the fee for each activity and the total fee submitted in the spaces provided.

4 Proposed Activity	This request for authorization is for 4 (check each program that applies):				Fee
	State Action Inland Wetlands (CGS 22a-45a) (No Fee)	Stream Channel Encroachment Lines (CGS 22a-349a)	Water Diversion (CGS 22a-378a)	Dam Safety (CGS 22a-411)	
<b>Habitat Conservation</b> (DEP-IWRD-GP-003)					
<input type="checkbox"/> Placement of boulders w/in stream channels	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/> Installation of fisheries enhancement structures	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/> Removal of invasive species	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/> Beaver management activities	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/> Streambank stabilization	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<b>Lake, Pond And Basin Dredging</b> (DEP-IWRD-GP-004)					
<input type="checkbox"/> Dredging of lakes and ponds	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/> Dredging of sedimentation, detention or retention basins	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<b>Utilities And Drainage</b> (DEP-IWRD-GP-005)					
<input type="checkbox"/> Placement, repair or replacement of cables, conduits and pipelines	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	\$1000
<input type="checkbox"/> Placement, repair or replacement of support structures for overhead cables or wires	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/> Drainage system maintenance	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	No Fee
<input type="checkbox"/> Repair or replacement of culverts or bridges	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	\$ 1000
<input type="checkbox"/> Installation of small storm drainage systems	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/> Repair or installation of septic systems	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/> Construction of permanent irrigation systems	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/> Construction of temporary irrigation systems	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/> Installation of water monitoring structures	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/> Installation of dry hydrants	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<b>4 Proposed Activity</b>	<b>This request for authorization is for 4 (check each program that applies):</b>				

	State Action Inland Wetlands (CGS 22a-45a) (No Fee)	Stream Channel Encroachment Lines (CGS 22a-349a)	Water Diversion (CGS 22a-378a)	Dam Safety (CGS 22a-411)	Fee
<b>Minor Structures</b> (DEP-IWRD-GP-006)					
<input type="checkbox"/> Construction of a post supported structure	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/> Construction of hoop houses and green houses	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/> Placement of structures on land whose elevation is above the stream channel encroachment line base flood	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/> Demolition of an existing structure	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/> Backfilling of foundations	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/> Construction of minor additions to an existing facility for the purpose of providing handicap accessibility	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/> Flood proofing of existing structures (including elevating structures in accordance with FEMA standards)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/> Construction of structural appurtenances to an existing structure	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/> Installation of permanent fencing that is open to flood flows	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/> Installation of permanent solid wall fencing closed to flood flows	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<b>Minor Grading</b> (DEP-IWRD-GP-007)					
<input type="checkbox"/> Minor landscaping, construction of paths, trails	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/> Plan for the maintenance of boat launch facilities and beaches	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	No Fee
<input type="checkbox"/> Grading for temporary access	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/> Wetland creation or enhancement	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/> Roadway widening	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/> Construction of nature access structures	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

4 Proposed Activity	This request for authorization is for 4 (check each program that applies):				Fee
	State Action Inland Wetlands (CGS 22a-45a) (No Fee)	Stream Channel Encroachment Lines (CGS 22a-349a)	Water Diversion (CGS 22a-378a)	Dam Safety (CGS 22a-411)	
<b>Dam Safety Repair and Alteration (DEP-IWRD-GP-008)</b>					
<input type="checkbox"/> Installation of riprap erosion protection	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/> Installation or restoration of embankment fill	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/> Repair or alteration of structural components of a dam	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<b>Total fee submitted with this request for authorization</b>					

**Part III: Authorization Type**

If this request is for a renewal of an approval of authorization, you *must* complete Parts I through III and Parts VIII and IX; complete the remaining parts of the form *only* if it is different than your previous submittal. Please provide the following:

Permit or Authorization Number(s)	Expiration Date:	Description of Activity

## Part IV: Associated Party Information

1. List primary contact for departmental correspondence and inquiries, if different than the requester.

Name:

Mailing Address:

City/Town:

State:

Zip Code:

Business Phone:

ext.

Fax:

Contact Person:

Title:

2. List attorney or other representative, if applicable.

Firm Name:

Mailing Address:

City/Town:

State:

Zip Code:

Business Phone:

ext.

Fax:

Attorney:

3. Owner of the property or facility, if different than the requester:

Name:

Mailing Address:

City/Town:

State:

Zip Code:

Business Phone:

ext.

Fax:

Contact Person:

Title:

Requester's interest in the subject property:

option holder

lessee

other (specify):

4. List consultant(s) employed or retained to assist in preparing the request for authorization or in designing or constructing the activity. Please enter a check mark if additional sheets are necessary, and label and attach them to this sheet.

Name: **Lenard Engineering, Inc.**

Mailing Address: **P.O. Box 580**

City/Town: **Storrs**

State: **CT**

Zip Code: **06268**

Business Phone: **860-429-5400**

ext.

Fax: **860-429-1367**

Contact Person: **James E. Ericson, P.E.**

Title: **Vice President**

Service Provided: **Permit Application**

## Part V: Site Information

### 1. Site Location:

a. Name of facility, if applicable:

Street Address or Description of Location: **Intersection of Gurleyville Road and Horsebarn Hill Road**

City/Town: **Storrs**

State: **CT**

Zip Code: **06269**

Project No., if applicable:

b. Tax Assessor's Reference: Map

Block

Lot

(Assessor's reference is not required if requester is an agency of the State of Connecticut.)

c. Latitude and Longitude of the approximate "center of the site" in *degrees, minutes, and seconds*:

Latitude: **72-14'-43" N**

Longitude: **41-48'-11" W**

Method of determination (check one):

GPS

USGS MAP

Other

If a USGS Map was used, provide the quadrangle name: **Spring Hill**

d. In case of an existing dam structure, the CT Dam Inventory Number:

2. Name of the wetland or watercourse involved with or adjacent to the subject activity:

**Roberts Brook**

3. Is the subject activity located in a public water supply watershed?

Yes

No

If yes, provide the name of the water utility: **Windham Water Works**

4. Is the activity which is the subject of this registration located within the coastal boundary as delineated on DEP approved coastal boundary maps?  Yes  No

If yes, and this registration is for a new authorization under the general permit or for a modification of an existing general permit, you must submit a *Coastal Consistency Review Form* (DEP-APP-004) with your registration as Attachment C.

For forms or assistance, please call the Permit Assistance Office at 860-424-3003.

5. Is the project site located within an area identified as a habitat for endangered, threatened or special concern species as identified on the "State and Federal Listed Species and Natural Communities Map"?

Yes

No

Date of Map: **June 2009**

If yes, complete and submit a *Connecticut Natural Diversity Data Base (CT NDDDB) Review Request Form* (DEP-APP-007) to the address specified on the form.

When submitting this request for authorization, please include copies of any correspondence to the NDDDB, including copies of the completed CT NDDDB Review Request Form, any field surveys, and any other information which may lead you to believe that endangered or threatened species may or may not be located in the area of your existing or proposed permitted activity, as Attachment D.

Has a field survey been conducted to determine the presence of any endangered, threatened or special concern species?  Yes  No If yes, provide:

Biologist's Name:

Address:

and submit a copy of the field survey with your application as Attachment D.

**Part V: Site Information (cont.)**

6a. Is the subject activity within a watercourse or floodplain?  Yes  No

*If yes:* Provide the land surface area draining to the site of the subject activity:

acres or

square miles

6b. Will the subject activity be within a FEMA floodway?  Yes  No

(i) If yes, and the subject activity is the construction of a culvert or a bridge, submit, as Attachment E, the certification by a licensed engineer, together with the hydraulic analysis in support thereof, that such culvert or bridge is designed in accordance with accepted engineering practices and conforms to the applicable flood management standards and criteria under 44CFR Chapter 1, Part 59 through 79, inclusive.

(ii) If the requester has a Flood Management (FM) Certification for the subject activity, provide the FM certification number:

**An FMC application accompanies this GP application.**

**7. Existing Conditions**

a. Describe the present and intended use(s) of the property on which the subject activity is proposed.

**The property is part of the University of Connecticut's Storrs campus. The project site currently receives stormwater flows from two sub-watersheds on campus, and will continue to receive stormwater flows from these sub-watersheds, in addition to flows from a ~57-acre watershed in the future. This project was included in the University's April 2006 Campuswide Drainage Master Plan, submitted as a Flood Management Certification application.**

Check if additional sheets are attached to this page.

b. Describe all natural and man-made features including wetlands, watercourses, fish and wildlife habitat, floodplains and any existing structures potentially affected by the subject activity. Such features should be depicted on the site plan (*Attachment B*). In the case of maintenance and repair or improvements to an existing dam, describe the condition of the structure which necessitates such work.

**Approximatly 700 square feet of wetland and watercourse will be affected by the activity. Some trees will be removed for the proposed construction to stabilize the slope. The existing 30" and 36" drain lines will be relocated, a new head wall and preformed scour hole will be constructed. The relocated drain lines will be extended no more than 5' from their existing location.**

Check if additional sheets are attached to this page.

ADDITIONAL INFORMATION  
PART V: Site Information

Item 6a. Is the subject activity within a watercourse or floodplain?

Response: No. The project location consists of the combined discharge locations for the Swan Lake overflow piping, as well as a pipe with drains the Horsebarn Hill Watershed. These pipes discharge adjacent to each other, into a small channel, and form the headwaters of Roberts Brook. These discharges only flow generally when there is a storm event, after which there is no significant flow in the channel. Therefore, we believe the area immediately downstream of the discharge location should not technically be a watercourse.

We also reviewed the FEMA flood plain maps, and our project is well outside the limits of the mapped FEMA floodplain.



**Part VI: Project Summary (cont.)**

**4. Plan for Maintenance of Boat Launch Facilities and Beaches**

Provide the following information if the subject activity involves maintenance of boat launch facilities and beaches as described in Section 3(a)(2) of the General Permit for Minor Grading (DEP-IWRD-GP-007)

Include as Attachment F, a Plan for Maintenance of Boat Launch Facilities and Beaches.

*Go to Part VII of this form; do not complete items (5) through (9) of Part VI.*

**5. Drainage Maintenance Plan**

Provide the following information if the subject activity is drainage maintenance as described in Section 3(a)(3) of the General Permit for Utilities and Drainage (DEP-IWRD-GP-005).

Include as Attachment G, a Drainage Maintenance Plan.

*Go to Part VII of this form; do not complete items (6) through (9) of Part VI.*

**6. New, Replaced Or Modified Drainage System(s)**

Provide the following information if the subject activity involves the placement, replacement, or other modification of a drainage system:

a.  $Q_{10} =$   $V_{10} =$   
Is energy dissipator or inlet/outlet protection provided?  Yes  No

Riprap/stone size:

Pad dimensions are:

If there is more than one pad, provide additional pad dimensions on a separate sheet.

Check if additional sheets are attached to this page.

b. Include as Attachment H, adequate design computations which show that such activity is designed in accordance with accepted engineering practices and conforms to the applicable flood management standards and criteria, including standards for floodproofing of structures, established in Section 25-68d of the General Statutes and Sections 25-68h-1 through 25-68h-3, inclusive, of the Regulations of Connecticut State Agencies (RCSA).

**7. Floodproofing of Structures**

Have the structures been designed according to the standards for flood-proofing of structures established in the RCSA Sections 25-68h-1-3?  Yes  No

**8. Activities Involving Dams**

Provide the following information if the subject activity involves maintenance, repair or improvement of an existing dam, or construction of a low hazard dam as described in Section 3(a) of the General Permit for Dam Safety Repair and Alteration (DEP-IWRD-GP-008) (all such details must be depicted on the site plan, Attachment B):

a. Include as Attachment I, an engineering report, as described in Section 4(c)(2)(L) of the General Permit for Dam Safety Repair and Alteration (DEP-IWRD-GP-008).

b. *Pond Characteristics:*

Surface area: \_\_\_\_\_ acres  
Drainage area: \_\_\_\_\_ acres or \_\_\_\_\_ square miles  
Volume at spillway elevation: \_\_\_\_\_ acre feet

ADDITIONAL INFORMATION  
PART VI: Project Summary

Item 6. New, Replaced or Modified Drainage System(s)

Response: Per discussions with DEP Inland Water Resources staff, the University is submitting this general permit application under the category “Extensions of Culverts and / or Drainage Pipes”. Therefore, we have not completed all the information in Item 6a.

However, as given in the Flood Management Certification application that accompanies this general permit, LEI designed the outfall for the predicted 100 year design storm combined flow of **34 cfs** from the 36 and 30 inch piping, and used a peak channel velocity of **8 feet per second** obtained from the HEC RAS output to conservatively design the erosion protection at the outfall of both pipes.

This project was designed to not only remedy the existing erosion problems at the outlets, but to accommodate additional flows from a 55 acre diversion proposed as part of the University’s campuswide Flood Management Certification application, during a 100 year storm event.

**Part VI: Project Summary (cont.)**

c. *Dam Characteristics:*

Maximum height: \_\_\_\_\_ feet

Total length: \_\_\_\_\_ feet

Type of construction (e.g., earth, concrete masonry, timber etc.):

Type of spillway (e.g., weir, drop inlet, ogee, etc.):

d. *Fill in Watercourses:*

Does the subject activity involve placement of fill material in the existing brook, stream, river or impoundment?     Yes     No

If yes, describe the volume of such fill, its engineering characteristics and intended purpose:

Check if *additional* sheets are attached to this page.

**9. Best Management Practices**

Describe the pollution prevention and best management practices that will be implemented during construction and operation of the proposed activity to: minimize disturbance and pollution of floodplains, wetlands, and watercourses; maintain an uninterrupted stream flow; and prevent flooding or other environmental damage. Show erosion and sedimentation controls in Attachment B, include pretreatment of stormwater runoff.

**The construction activity will take place only during low flow conditions. During construction, stormwater will be diverted around the construction area by either temporary bypass piping, pumps or a combination of these measures. Temporary check dams will be installed in the stream channel downstream of the construction area, to minimize the potential for downstream sedimentation.**

Check if additional sheets are attached to this page.

## Part VII: Supporting Documents

In addition to the documents described in Parts V and VI of this form, your request for authorization must include a location map (*Attachment A*) and a site plan (*Attachment B*). For directions as to the information that should be depicted on such maps and plans, please review Section 4(c)(2) of the applicable general permits.

Please enter a check mark by the attachments as verification that *all* attachments have been submitted with this request for authorization form. When submitting any supporting documents, please label the documents as indicated in this part (e.g., *Attachment A, Location Map*, etc.) and be sure to include the requester's name as indicated on the *Permit Application Transmittal Form*.

- Attachment A: Location Map: A depiction, on an 8.5" x 11" copy of the relevant portion of the most recent version of the United States Geologic Survey topographic map (Scale 1:24,000), of the exact location of the property at which such activity will be conducted.
- Attachment B: Site Plan: please review Section 4(c)(2) of the applicable general permits.
- Attachment C: *Coastal Consistency Review Form* (DEP-APP-004), if applicable
- Attachment D: A copy of the NDDDB Review Request Form (DEP-APP-007) and the NDDDB response thereto, and any biologist's report on endangered, threatened or special concern species, if applicable.
- Attachment E: Certification of a licensed engineer, as described in Section 4(c)(2)(M) of the General Permit for Utilities and Drainage (DEP-IWRD-GP-005), for work involving the construction of culverts or bridges.  
  
For guidance, please refer to *Model Hydraulic Analysis, Supplemental Guidelines for Preparing Hydraulic Analyses in Permit Applications Submitted to the Inland Water Resources Division* (DEP-IWRD-GUID-001, Rev. 02/13/02).
- Attachment F: Plan for Maintenance of Boat Launch Facilities and Beaches, as described in Section 3(a)(2) of the General Permit for Minor Grading (DEP-IWRD-GP-007), if applicable.
- Attachment G: Drainage Maintenance Plan, as described in Section 3(a)(3) of the General Permit for Utilities and Drainage (DEP-IWRD-GP-005), if applicable.
- Attachment H: Design Computations, as described in Section 4(c)(2)(L) of the General Permit for Utilities and Drainage (DEP-IWRD-GP-005), for work involving placement, replacement, or other modification of a drainage system.
- Attachment I: Engineering Report, as described Section 4(c)(2)(L) of the General Permit for Dam Safety Repair and Alteration (DEP-IWRD-GP-008) for work related to a dam.
- Attachment J: Other information provided by requester (list):

**Part VIII: Notice to Municipal Agencies**

You must submit a complete copy of your request for authorization to the municipal wetlands agency, zoning commission, planning commission or combined planning and zoning commission, and conservation commission of each municipality which is or may be affected by the subject activity. Enter the **names and addresses** of the municipal agencies which were provided a complete copy of your request for authorization, including all of its attachments, the date such copy was submitted, (Date of Service) and the Type of Service (check one). Note: the department can not authorize your proposed activity until thirty five (35) days after the date of your service to the municipal agencies.

**Wetlands Agency:**

Name: **Town of Mansfield**

Address: **4 South Eagleville Rd**

City/Town: **Mansfield**

State: **CT**

Zip Code: **06268**

Date of Service: **8/17/09** Type of Service:  First class mail  Certified mail  Hand delivery

**Conservation Commission:**

Name:

Address:

City/Town:

State:

Zip Code:

Date of Service: Type of Service:  First class mail  Certified mail  Hand delivery

**Planning Commission:**

Name:

Address:

City/Town:

State:

Zip Code:

Date of Service: Type of Service:  First class mail  Certified mail  Hand delivery

**Zoning Commission:**

Name:

Address:

City/Town:

State:

Zip Code:

Date of Service: Type of Service:  First class mail  Certified mail  Hand delivery

**Combined Planning and Zoning Commission:**

Name: **Town of Mansfield**

Address: **4 South Eagleville Road**

City/Town: **Mansfield**

State: **CT**

Zip Code: **06268**

Date of Service: **8/17/09** Type of Service:  First class mail  Certified mail  Hand delivery

Check this box if the agencies of another municipality were served a copy of this request for authorization and attach to this page additional sheets listing the agency names and addresses where a copy of the request was mailed or delivered, the date of such service and the type of service used.

## Part IX: Requester Certification

The requester *and* the individual(s) responsible for actually preparing the request for authorization must sign this part. A request for authorization will be considered incomplete unless all required signatures are provided.

"I have personally examined and am familiar with the information submitted in this document and all attachments thereto, and I certify that based on reasonable investigation, including my inquiry of the individuals responsible for obtaining the information, the submitted information is true, accurate and complete to the best of my knowledge and belief.

I certify that this request for authorization is on complete and accurate forms as prescribed by the commissioner without alteration of the text.

I certify that a complete copy of this request for authorization, including all documents attached thereto, was sent by regular or certified mail or was hand delivered to the municipal wetlands agency, zoning commission, planning commission or combined planning and zoning commission, and conservation commission of each municipality which is or may be affected by the subject activity.

I understand that a false statement in the submitted information may be punishable as a criminal offense, in accordance with Section 22a-6 of the General Statutes, pursuant to section 53a-157b of the General Statutes, and in accordance with any other applicable statute."

*Richard A. Miller*

Signature of Requestor

8/12/09

Date

**Richard A. Miller**  
Name of Requestor (print or type)

**Director, Envir. Policy**  
Title (if applicable)

*James E. Ericson*

Signature of Preparer

7-17-09

Date

**James E. Ericson, P.E.**  
Name of Preparer (print or type)

**Vice President**  
Title (if applicable)

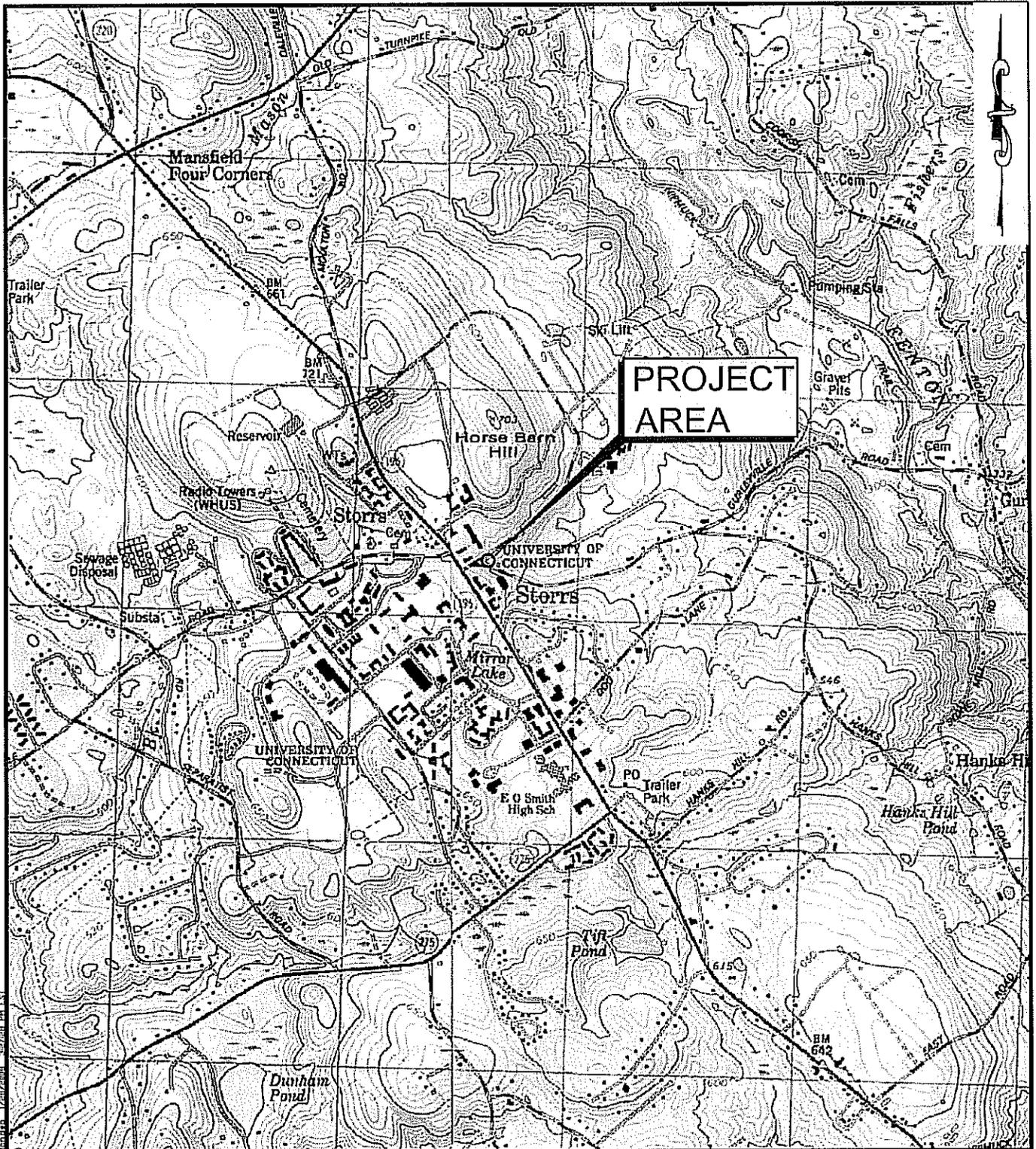
Please enter a check mark if additional signatures are necessary.  
If so, please reproduce this sheet and attach signed copies to this sheet.

Note: Please submit the total general permit fee and the original and two copies of your completed *Permit Application Transmittal Form* and *Request for Authorization Form* and all documents attached to and a part thereof to:

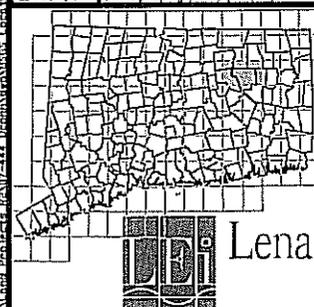
CENTRAL PERMIT PROCESSING UNIT  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
79 ELM STREET  
HARTFORD, CT 06106-5127

And submit one complete copy of your completed *Request for Authorization Form* and all documents attached to and a part thereof to each municipal agency listed in Part VIII.

ATTACHMENT A  
USGS LOCATION MAP



**PROJECT  
AREA**



Source:  
USGS TOPOGRAPHIC MAP  
Coventry, CT QUADRANGLE  
Sprng Hill, CT QUADRANGLE



**Lenard Engineering, Inc.**  
Winsted, CT

**ATTACHMENT A**  
USGS TOPOGRAPHIC QUADRANGLE MAP  
**SWAN LAKE OUTFALL**

STORRS, CT  
Scale 1:25000

Lenard Products 8517-444, License/Vendor's Location/Info 1/28/2009 1:25000 BH EST

ATTACHMENT B

SITE PLAN







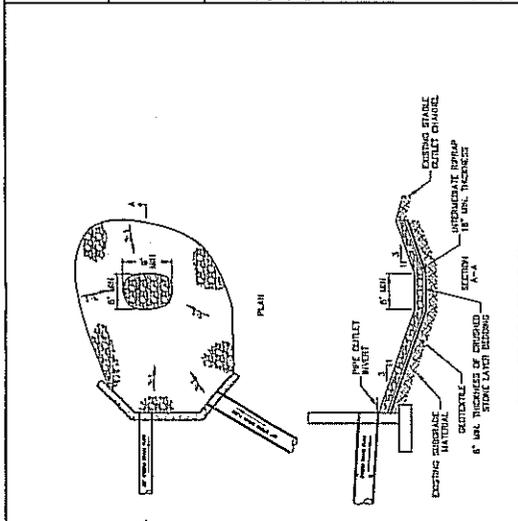
Drawn By	AD
Checked By	AD
Date	12/15/08
Scale	1" = 10'
Project Name	WATER HANDLING PLAN
Client	UNIVERSITY OF CONNECTICUT
Address	SURLEYSVILLE ROAD
City	STORRS, CONNECTICUT

Drawn By	AD
Checked By	AD
Date	12/15/08
Scale	1" = 10'
Project Name	WATER HANDLING PLAN
Client	UNIVERSITY OF CONNECTICUT
Address	SURLEYSVILLE ROAD
City	STORRS, CONNECTICUT

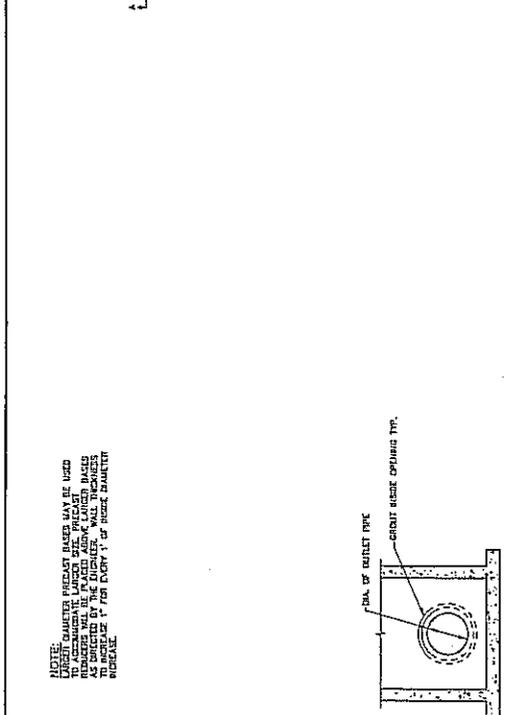
UNIVERSITY OF CONNECTICUT  
SURLEYSVILLE ROAD  
STORRS, CONNECTICUT

**Lenard Engineering, Inc.**  
Civil, Environmental and Hydrogeological Consultants  
1000 Main Street  
Storrs, CT 06268  
(860) 426-5100  
(860) 426-5101  
(860) 426-5102  
Fax: (860) 426-5103  
www.lenardeng.com

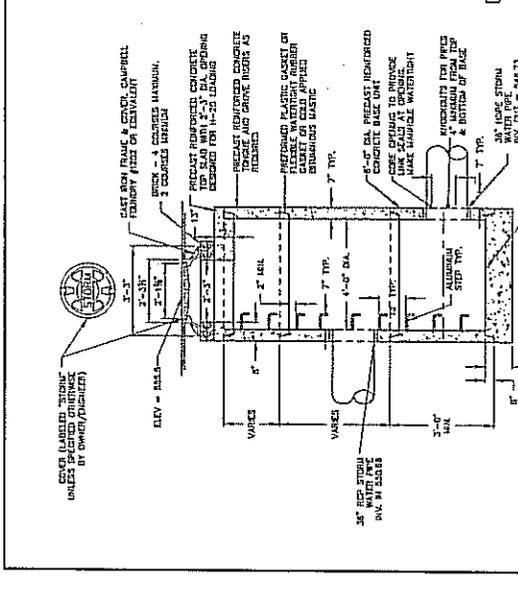
Sheet # **D1**  
of **07-111**



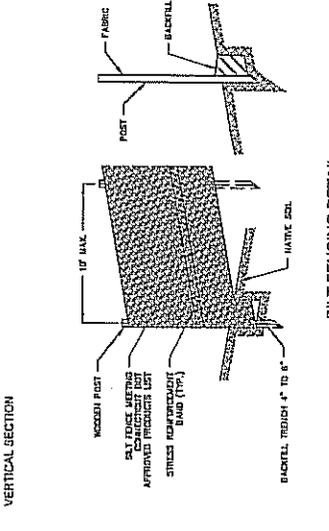
**OUTLET PROTECTION**  
1/12" = 1"



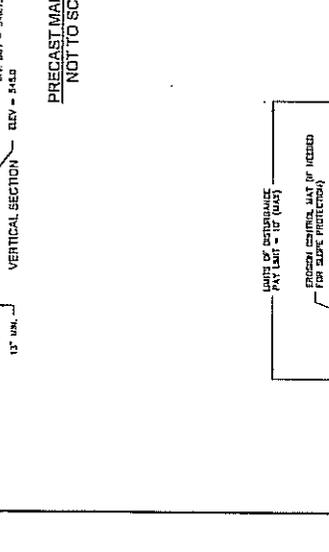
**PRECAST MANHOLE**  
NOT TO SCALE



**GRASS RESTORATION OVER STORM SEWER TRENCH**  
NOT TO SCALE



**SILT FENCING DETAIL**  
NOT TO SCALE



**TEMPORARY SEDIMENT BASIN**  
NOT TO SCALE

**NOTE:** STANDARD PRECAST BASES MAY BE USED TO ACCOMMODATE LARGER SIZE PRECAST BASES AS SPECIFIED BY THE OWNER. WALL THICKNESS SHOULD BE 1" FOR EVERY 1' OF HOLES DIAMETER OR MORE.

**NOTE:** 1. CONSIDERATIONS MUST BE MADE TO PREVENT EROSION OF THE DETACHABLE OUTLET. 2. CONSIDERATIONS MUST BE MADE TO PREVENT EROSION OF THE DETACHABLE OUTLET. 3. CONSIDERATIONS MUST BE MADE TO PREVENT EROSION OF THE DETACHABLE OUTLET.





ATTACHMENT D

NDDDB REVIEW REQUEST FORM AND RESPONSE  
LETTER





## Connecticut Natural Diversity Data Base Review Request Form

Please complete this form *only* if you have conducted a review which determined that your activity is located in an area of concern.

Name: **University of Connecticut**

Affiliation: **State of Connecticut**

Mailing Address: **31 LeDoyt Road, Box 3051**

City/Town: **Storrs**

State: **CT**

Zip Code: **06269-3038**

Business Phone: **860-486-8741**

ext.

Fax:

Contact Person: **Richard A. Miller, Esq.**

Title: **Director of Environmental Quality**

Project or Site Name: **Erosion Control at Swan Lake Outlet**

*Project Location* In between Gurlyville and Horse Barn Hill Roads

Town: **Storrs**

USGS Quad: **Mansfield**

Brief Description of Proposed Activities:

**Placing of riprap around storm drainage outlet. Stream bank stabilization at various locations inside a 300 ft. long stream reach.**

Have you conducted a "State and Federal Listed Species and Natural Communities Map" review?

Yes     No    Date of Map: **2007**

Has a field survey been previously conducted to determine the presence of any endangered, threatened or special concern species?     Yes     No

If yes, provide the following information and submit a copy of the field survey with this form.

Biologists Name:

Address:

If the project will require a permit, list type of permit, agency and date or proposed date of application:

**General Permit for Utilities and Drainage**

*(See reverse side - you must sign the certification on the reverse side of this form)*

The Connecticut Natural Diversity Data Base (CT NDDB) information will be used for:

- permit application
- environmental assessment (give reasons for assessment):
  
- other (specify):

"I certify that the information supplied on this form is complete and accurate, and that any material supplied by the CT NDDB will not be published without prior permission."

James E. Ellen  
Signature

April 3, 2008  
Date

All requests must include a USGS topographic map with the project boundary clearly delineated.

Return completed form to:

WILDLIFE DIVISION  
BUREAU OF NATURAL RESOURCES  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
79 ELM ST, 6TH FLOOR  
HARTFORD, CT 06106-5127

\* You must submit a copy of this completed form with your registration or permit application.

cc: Rich/JC



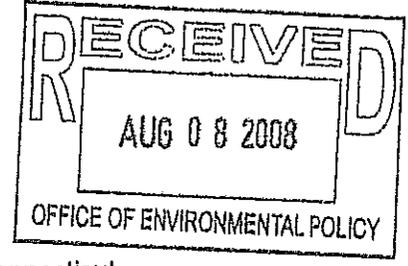
STATE OF CONNECTICUT  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
WILDLIFE DIVISION



SESSIONS WOODS WILDLIFE MANAGEMENT AREA  
P.O. BOX 1550 • BURLINGTON, CT 06013 - 1550  
TELEPHONE (860) 675-8130 • FAX (860) 675-8141

July 28, 2008

Mr. Richard Miller  
University of Connecticut  
31 LeDoyt Road, Box 3051  
Storrs, CT 06269-3038



Re: University of Connecticut: Erosion control at Swan Lake in Mansfield, Connecticut

Dear Mr. Miller:

Materials pertaining to the above project were forwarded to me for review by the DEP Natural Diversity Database (NDDB). The NDDB indicated that the state endangered horned lark (*Eremophila alpestris*), state threatened northern spring salamander (*Gyrinophilus porphyriticus*), and state species of special concern Savannah sparrow (*Passerculus sandwichensis*) occur in the vicinity of this proposed project.

This project is unlikely to have a negative impact on any of these state-listed species.

The Wildlife Division has not made an on-site inspection of the project area. Consultation with this office should not be substituted for site-specific surveys that may be required for environmental assessments. This is a preliminary site review and is not a final determination. A more detailed review may be conducted as part of any subsequent environmental permit applications submitted to the DEP for the proposed site. Please be advised that should state permits be required or should state involvement occur in some other fashion, specific restrictions or conditions relating to the species discussed above may apply. In this situation, additional evaluation of the proposal by the DEP Wildlife Division should be requested and species-specific surveys may be required. If the proposed project has not been initiated within 6 months of this Wildlife Division review, you should contact the NDDB for an updated review.

Please feel free to contact me if you have additional questions regarding these species.

Sincerely,

Jenny Dickson  
Wildlife Biologist

cc: D. McKay - 16090  
J. Victoria