

## **AGENDA**

### Regular Meeting

Canton Inland Wetlands and Watercourses Agency  
Thursday, January 14, 2016 at 7:00 p.m.  
Library Community Center, Room F  
40 Dyer Avenue, Canton, CT

#### **CALL TO ORDER:**

#### **ROLL CALL:**

#### **PUBLIC COMMENT NOT RELATED TO AGENDA ITEM:**

#### **OLD BUSINESS:**

1. **File 11-15-1131**; 110 Albany Turnpike; Assessor's Map 36; Parcel 1010110; Zone B; Construction of a new gravity retaining wall; W/S Peak Canton Properties, LLC c/o Denise Robidoux, applicants; W/S Peak Canton Properties, LLC c/o WS Asset Management, Inc., owners

#### **NEW BUSINESS:**

1. **File 12-15-1132**; 133 East Hill Road; Assessor's Map 23; Parcel 2490133; Zone R-3; Request for perimeter pond maintenance to removal existing cattails; Northeast Diving Services, applicant; Robert and Kathleen Hollis, owners

#### **OTHER BUSINESS:**

1. Approve Minutes of December 10, 2015
2. Applications Received After Agenda Posted
3. Authorized Agent
  - a) **File 01-16-1133AA**; 88 Simonds Avenue; Assessor's Map 30; Parcel 4820088; Zone R-1; Removal of trees within the Upland Review Area, northeast of the gravel parking lot; Town of Canton, applicant/owner
4. Any Other Recent Enforcement Issues
5. Freedom of Information (FOI) Class; February 3, 2016 at 7:00 p.m.
6. POCD Implementation Review
7. Staff Report

#### **ADJOURNMENT:**

Exhibit List for:

**File 11-15-1131**; 110 Albany Turnpike; Assessor's Map 36; Parcel 1010110; Zone B; Construction of a new gravity retaining wall; W/S Peak Canton Properties, LLC c/o Denise Robidoux, applicants; W/S Peak Canton Properties, LLC c/o WS Asset Management, Inc., owners

**List as of January 7, 2016**

Drawings:

1. Sheet 1: SP-1; Site Plan; 110 Albany Turnpike; Prepared by BL Companies; Prepared for The Shoppes at Farmington Valley; Dated October 5, 2015
2. Sheet 2: DN-1; Detail Sheet; 110 Albany Turnpike; Prepared by BL Companies; Prepared for The Shoppes at Farmington Valley; Dated October 5, 2015
3. Sheet 3: SP-1; Site Plan; 110 Albany Turnpike; Prepared by BL Companies; Prepared for The Shoppes at Farmington Valley; Dated October 5, 2015; Revision Date of December 23, 2015

Correspondence:

1. Town of Canton IWWA Permit Application for File 11-15-1131; 110 Albany Turnpike; Assessor's Map 36; Parcel 1010110; Zone B; Construction of a new gravity retaining wall; W/S Peak Canton Properties, LLC c/o Denise Robidoux, applicants; W/S Peak Canton Properties, LLC c/o WS Asset Management, Inc., owners
2. Application transmittal sheet from BL Companies to Assistant Town Planner Emily Anyzeski; dated November 13, 2015
3. Copy of payment, check #'s 88878 & 88877
4. Location map
5. Letter from BL Companies to Mr. David Shepard, Chairman of the IWWA, providing a summary of the proposed work; received by the Land Use Office on November 16, 2015
6. List of abutting property owners
7. Map depicting abutting properties
8. Photographs of existing retaining wall
9. Copy of Statewide Inland Wetlands and Watercourses Activity Reporting Form
10. 12/10/15 IWWA draft meeting minutes
11. Email from George Wallace to Neil Pade regarding staff comments; dated 12/8/15
12. Stormwater management plan for the Shoppes at Farmington Valley; dated 3/15/04
13. Flood zone map for 110 Albany Turnpike



675000 M

JOINS PANEL 0317

676000 M

#1#



- LEGEND**
- CB Catch Basin
  - MH Manhole
  - SW Stormwater Quality Basin
  - HO HO



Sheet # 2

**Lenard Engineering, Inc.**  
 Civil, Environmental and Hydrogeological Consultants  
 1068 Sierra Road, 140 Willow Street, 15 Midstate Drive  
 Storm, CT 06228, Windell, CT 06096, Auburn, MA 01501  
 (860) 428-6400 (860) 378-6699 (508) 721-7690

**Attachment B - Storm Drainage System Plan**  
**Stormwater Management Plan**  
**Shoppes @ Farmington Valley**  
 110 Albany Turnpike (US Route 44)  
 Canton, Connecticut

Drawing date: March 15, 2004

Rev.	Date	Revision	By

Designed By: GRA  
 Drawn By: GRA  
 Checked By: TAP

## Narducci, Renee

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**From:** Wallace, George  
**Sent:** Tuesday, December 08, 2015 10:36 AM  
**To:** Pade, Neil  
**Cc:** Martin, Robert; Skinner, Robert; Anyzeski, Emily; Narducci, Renee; Rich, William; Boyko, Harriet  
**Subject:** RE: Gravity wall system for The Shoppes at Farmington Valley - review of revisions

Neil,

I have completed a review of the site plan sheet [SP-1] dated 10/5/15 [no revision date] and the detail sheet [DN-1] dated 10/5/15 and revised to 11/12/15 for a new gravity wall system for The Shoppes AT Farmington Valley; Route 44; Canton, CT; as prepared by BL Companies and have the following comments:

1. Sheet SP-1 has no revision date on it.
2. Status of the previous comments I included in my email of 10/16/15 are indicated below in red.

Please contact me if you have any questions on any of the above.

Sincerely,

George M. Wallace, P.E.  
Project Administrator  
Town of Canton

(860)693-7855

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**From:** Wallace, George  
**Sent:** Friday, October 16, 2015 9:39 AM  
**To:** Pade, Neil  
**Cc:** Martin, Robert; Skinner, Robert; Anyzeski, Emily; Narducci, Renee; Rich, William; Boyko, Harriet  
**Subject:** Re: Gravity wall system for The Shoppes at Farmington Valley - review

Neil,

I have completed a preliminary review of the site plan sheet [SP-1] and the detail sheet [DN-1] for a new gravity wall system for The Shoppes AT Farmington Valley; Route 44; Canton, CT; dated 10/5/15 as prepared by BL Companies and have the following comments:

1. There were no calculations submitted for the proposed Stone Strong Gravity Wall System demonstrating the wall system's stability against overturning, sliding, bearing requirements at the toe of the wall, etc. Such calculations should be prepared by and stamped by a Professional Engineer; **Calculations not submitted, however, comment considered addressed since plans are stamped by a professional engineer.**
2. The site plan sheet [SP-1] and the detail sheet [DN-1] for a new gravity wall system should be stamped by a Professional Engineer; **Comment was addressed.**

3. By item 2. above, verification that the 9" embedment of the toe of the proposed wall is sufficient when considering possible frost action; **Comment considered addressed since plans are stamped by a professional engineer.**
4. Recommend the Note 1. on sheet DN-1, stating "Drain tile may be eliminated at the discretion of the site engineer", be removed from the sheet unless design calculations prepared by a Professional Engineer are submitted demonstrating the drain tile would not be needed; **Comment was addressed.**
5. Existing fence at top of wall should be moved out to the top of the new wall for safety of maintaining the surface between the existing and proposed walls; **Comment was addressed.**
6. Recommend that the excerpts from the 2003 report and corresponding mapping identifying the "net increase in the available 100-year compensatory flood storage volume of 7,877 CY" from the development should be submitted as background data for review with this plan; **Comment addressed with background information included as part of wetlands application.**
7. An explanation of how the gravity wall system will be installed/constructed should be provided along with limits of disturbance/work area, measured from the proposed wall, for access road construction, crane staging, etc.; **Note 18. on sheet SP-1 should satisfy this comment.**
8. The start of some deterioration of the gravity wall, on the opposite side of the brook that supports the access driveway, was noticed and prompted the question of whether this same system would be used on that side in the future if warranted. **Not applicable.**

Note that the review of supplemental materials requested above may warrant further comments.

Please contact me if you have any questions on any of the above.

Sincerely,

George M. Wallace, P.E.  
Project Administrator  
Town of Canton

(860)693-7855



#10

**DRAFT MINUTES**

Regular Meeting

Canton Inland Wetlands and Watercourses Agency

December 10, 2015 at 7:00 p.m.

Library/Community Center, Room F

**CALL TO ORDER** – The regular meeting of December 10, 2015 was called to order at 7:03 p.m.

**PRESENT** – David Shepard, Al Bombassei, Robert Bahre, Richard Vandebogart and David Sinish

**ALSO PRESENT** – Assistant Town Planner Emily Anyzeski and Recording Secretary Loren Kiefer

**PUBLIC COMMENT NOT RELATED TO AGENDA ITEM** – None

**OLD BUSINESS** – None

**NEW BUSINESS**

1. **File 11-15-1130; 136 Barbourtown Road; Assessor's Map 14; Parcel 1190136; Zone R-3; Request for Jurisdictional Determination of Agricultural Use of Land/Non-Regulated Use for Timber Harvesting; Lansford Perry, applicant; Canton Land Conservation Trust, Inc., owner** – Mr. Shepard reviewed the Jurisdictional Determination to the attendees in relation to Mr. Perry's request, especially regarding the 'use of right' for timber harvest. The applicant is not the owner of the land; the application was completed and signed appropriately. Mr. Perry stated that many trees will remain in comparison to the actual number of trees to be cut; this is a select group of trees being cut on the 12.5 acres of land. Most of the land is upland. Current weather conditions continue to be good and dry with no flow of the intermittent watercourse which is an intermittent stream with a hard rock bottom. The proposed work will take no longer than two weeks if the weather conditions remain good. The access way is a hard dirt road and a sturdy access way, which comes from Spaulding Rd. and an old town road; there will be no tracking out of material onto the public road.

**MOTION:** D. Shepard moved to approve File 11-15-1130; 136 Barbourtown Road; Assessor's Map 14; Parcel 1190136; Zone R-3; Request for Jurisdictional Determination of Agricultural Use of Land/Non-Regulated Use for Timber Harvesting; Lansford Perry, applicant; Canton Land Conservation Trust, Inc., as it is an accepted activity under section 4.1A and subject to the application and approval by the agency. D. Sinish seconded the motion, which passed unanimously 5-0-0.

2. **File 11-15-1131; 110 Albany Turnpike; Assessor's Map 36; Parcel 1010110; Zone B; Construction of a new gravity retaining wall; W/S Peak Canton Properties, LLC c/o Denise Robidoux, applicants; W/S Peak Canton Properties, LLC c/o WS Asset Management, Inc., owners** – Ms. Robidoux attended and spoke of the wall as in a state of crumbling, the wall directly borders the Dish & Dat restaurant and the Ben & Jerry's ice cream store. Mr. Emile Pierides of BL Companies attended and spoke of the wall as needing a gravity wall to be constructed directly in front of the current wall with drainage stone in between the walls (no concrete), and built as a flexible wall system. The new retaining wall will not be anchored into the original wall. The existing wall will not be taken out in order to avoid disturbing the current wetland review area and the building structures. The new wall will keep the current wall up and keep it from failing. The only excavation needed is to build an 18-inch deep trench with 9-inches of stone and the wall will be placed on top of the stone. In order to lower the blocks, the crane will be situated from the patio of the Dish & Dat restaurant. The patio has no current drainage and merely runs off the patio. The new trench will be 40-inches wide and narrows as the rocks go up. The new wall is allowed to move as it is flexible, and does not have to be below frost level. Each block is a few thousand pounds each, which are hollow blocks that get filled

with drainage stone. Mr. Bombassei and Mr. Bahre expressed concern about the geo-grid, and questioned what will ensure that a new wall will not need to be replaced again in a few years. Mr. Pierides and Ms. Robidoux said that there was a defect in some of the blocks in the original wall, where the blocks are deteriorating similar to sand due to a bad batch built roughly 15 years ago. Mr. Pierides said that the weight and gravity of the new all will keep the current wall from further deterioration. There will be a drain at the bottom of the new wall and leaks out into the deep end with a 4-inch pipe. The existing structure's drainage is unclear as to where the storm water goes. There is no drainage off the patio at this time, except for a pitched end to run off the wall. The current fence in place will be taken out.

The targeted start-date will not take place till early spring, 2016. The anticipated timeframe of the project will take a few weeks. Access to the length of the worksite is not confirmed as to how to remove and replace the soil. The site plan notes are largely in general terms and not in specifics. The work is out for bid with a contractor to be determined. A construction sequence is required.

**MOTION:** D. Shepard moved to receive 11-15-1131; 110 Albany Turnpike; Assessor's Map 36; Parcel 1010110; Zone B; Construction of a new gravity retaining wall; W/S Peak Canton Properties, LLC c/o Denise Robidoux, applicants; W/S Peak Canton Properties, LLC c/o WS Asset Management, Inc., owners, and to continue with a site-walk to take place by commissioners on January 5, 2016. D. Bahre seconded the motion, which passed unanimously 5-0-0.

## **OTHER BUSINESS**

### **1. Approval of Minutes of July 9, 2015, September 10, 2015 and November 12, 2015 –**

**MOTION:** Approval of Minutes

- a) July 9, 2015 Minutes approved as amended. Seconded by A. Bombassei, which passed unanimously 3-0-0. Mr. Shepard and Mr. Bahre abstained.
- b) September 10, 2015 Minutes approved as amended. Seconded by A. Bombassei, which passed unanimously 3-0-0. Mr. Sinish and Mr. Bahre abstained.
- c) November 12, 2015 Minutes approved as amended. Seconded by Mr. Bahre, which passed unanimously 4-0-0. Mr. Van de Bogart abstained.

### **2. Applications Received After Agenda Posted – None**

### **3. Authorized Agent – None**

### **4. Any Other Recent Enforcement Issues – None**

### **5. Freedom of Information (FOI) Class; February 3, 2016 at 7:00 p.m. – Ms. Anyzeski mentioned a reminder to all who are interested, to attend the meeting which will be held at the Town Hall.**

### **6. Staff Report –**

- a. Dog Park updated by Ms. Anyzeski. The trail head parking was noted as being limited on Dowd Avenue or Commerce Drive. Manure piles were discussed and will be further reviewed as State of CT statutes may take precedence. Wetlands, waste, the location and lack of the trail-head parking, and storage issues will be a factor going forward.
- b. Ms. Anyzeski provided an update on 310 Albany Turnpike, they completed the excavation, and getting ready for the winter months, including erosion control mats and removal of the silt fence.

**ADJOURNMENT – MOTION:** D. Shepard moved to adjourn the meeting at 9:19 p.m. A. Bombassei seconded the motion, which passed unanimously 5-0-0.

Respectfully Submitted,  
Loren Kiefer, Recording Secretary



## Statewide Inland Wetlands & Watercourses Activity Reporting Form

Please complete - print clearly - and mail this form in accordance with the instructions on pages 2 and 3 to:  
Wetlands Management Section, Inland Water Resources Division, CT DEEP, 79 Elm Street - 3<sup>rd</sup> Floor, Hartford, CT 06106

### PART I: To Be Completed By the Municipal Inland Wetlands Agency Only

- DATE ACTION WAS TAKEN (enter one year and month): Year \_\_\_\_\_ Month \_\_\_\_\_
- ACTION TAKEN (enter one code letter): \_\_\_\_\_
- WAS A PUBLIC HEARING HELD (check one)? Yes \_\_\_\_\_ No \_\_\_\_\_
- NAME OF AGENCY OFFICIAL VERIFYING AND COMPLETING THIS FORM:  
(type name) \_\_\_\_\_ (signature) \_\_\_\_\_

### PART II: To Be Completed By the Municipal Inland Wetlands Agency or the Applicant

- TOWN IN WHICH THE ACTION IS OCCURRING (type name): Canton  
Canton  
Does this project cross municipal boundaries (check one)? Yes \_\_\_\_\_ No X  
If Yes, list the other town(s) in which the action is occurring (type name(s)): \_\_\_\_\_
- LOCATION (see directions for website information): USGS Quad Map Name: Collinsville or Quad Number: \_\_\_\_\_  
Subregional Drainage Basin Number: 4312
- NAME OF APPLICANT, VIOLATOR OR PETITIONER (type name): W/S Peak Canton Properties L.L.C.
- NAME & ADDRESS/LOCATION OF PROJECT SITE (type information): The Shoppes at Farmington Valley, 110 Albany Tpyk. Canton  
Briefly describe the action/project/activity (check and type information): Temporary \_\_\_\_\_ Permanent X  
Description: Repair a failing existing retaining wall by constructing a new gravity wall directly in front of the existing wall.
- ACTIVITY PURPOSE CODE (enter one code letter): D
- ACTIVITY TYPE CODE(S) (enter up to four code numbers): 2, 12, \_\_\_\_\_, \_\_\_\_\_
- WETLAND / WATERCOURSE AREA ALTERED (type in acres or linear feet as indicated):  
Wetlands: 0 acres      Open Water Body: 0 acres      Stream: 0 linear feet
- UPLAND AREA ALTERED (type in acres as indicated): 0.019 acres
- AREA OF WETLANDS / WATERCOURSES RESTORED, ENHANCED OR CREATED (type in acres as indicated): 0 acres

DATE RECEIVED:

### PART III: To Be Completed By the DEEP

DATE RETURNED TO DEEP:

FORM COMPLETED: YES NO

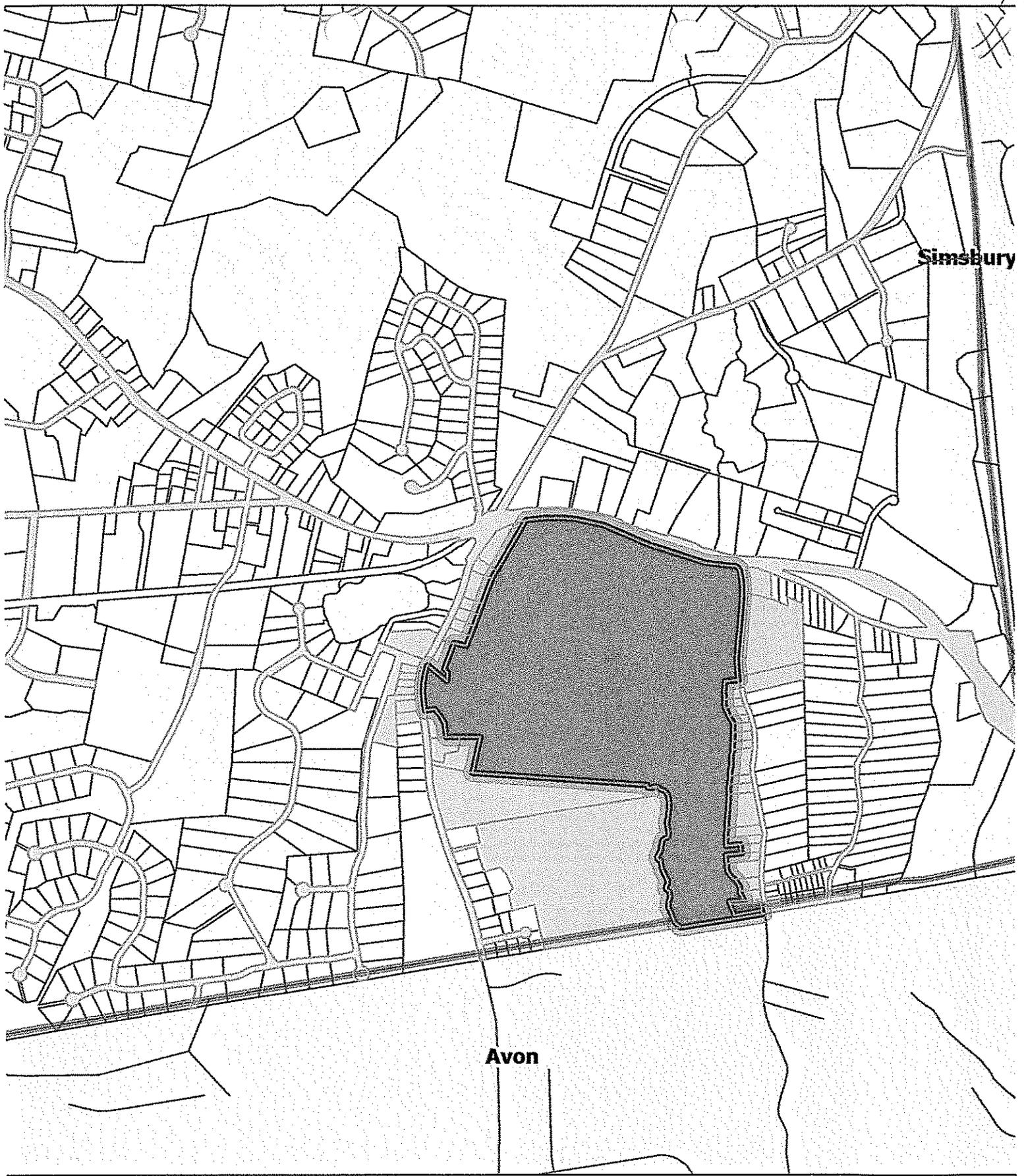
FORM CORRECTED / COMPLETED: YES NO



#8



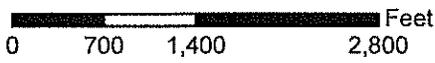
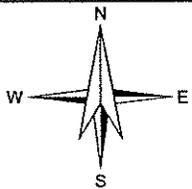




Simsbury

Avon

assessors



1 inch = 1,464 feet



The Town of Canton, CT shall assume no liability for any errors, omissions, or inaccuracies in the information provided regardless of how caused or any decision made or action taken or not taken by reader in reliance upon any information or data furnished hereunder.

#6

TANGUAY MICHAEL J  
77 SECRET LAKE RD  
AVON, CT 06001

LAMONTAGNE THERESA A  
33 LOVELY STREET  
CANTON, CT 06057

DEMONSTRANTI PAUL  
57 SECRET LAKE RD  
CANTON, CT 06019

SECRET LAKE ASSOCIATION  
151 SECRET LAKE ROAD  
AVON, CT 06001

MCKEEMAN RACHEL A  
31 LOVELY STREET  
CANTON, CT 06019

BOGDANY JOSEPH K &  
53 SECRET LAKE ROAD  
CANTON, CT 06019

GALVIN COLLEEN M  
73 SECRET LAKE RD  
CANTON, CT 06019

MILLER BARBARA  
29 LOVELY STREET  
CANTON, CT 06019

JORSON RICHARD C  
47 SECRET LAKE ROAD  
CANTON, CT 06019

STAUDACHER DAVID A &  
69 SECRET LAKE RD  
CANTON, CT 06019

CHURCHILL BRUCE F  
23 LOVELY ST  
CANTON, CT 06019

CANTON TOWN OF  
P O BOX 168  
COLLINSVILLE, CT 06022

DUFFEY DAVID A  
74 SECRET LAKE RD  
CANTON, CT 06019

VELEZ MILDRED &  
10 SUNRISE DRIVE  
CANTON, CT 06019

RIZZO JANET A EST OF  
9 SHARLIN DRIVE  
WEST SIMSBURY, CT 06092

GARCIA CARLOS  
44 LOVELY STREET  
CANTON, CT 06019

W/S PEAK CANTON OP LLC  
33 BOYLSTON STREET, SUITE 3000  
CHESTNUT HILL, MA 02467

ROTONDO MICHELLE M  
37 SECRET LAKE ROAD  
CANTON, CT 06019

GARCIA CARLOS &  
44 LOVELY STREET  
CANTON, CT 06019

GAVIOLI DANIEL A  
67 SECRET LAKE ROAD  
CANTON, CT 06019

COURNOYER LINDA  
35 SECRET LAKE ROAD  
CANTON, CT 06019

JASCHINSKI ERNEST H  
41 LOVELY ST  
CANTON, CT 06019

CHMELIWSKYJ LUDMILA &  
44 OAK RIDGE LANE  
WEST HARTFORD, CT 06107

COURNOYER LINDA  
35 SECRET LAKE ROAD  
CANTON, CT 06019

THURSTON DWIGHT W  
39 LOVELY ST  
CANTON, CT 06019

MULLIN SCOTT P  
61 SECRET LAKE ROAD  
CANTON, CT 06019

COURNOYER LINDA  
35 SECRET LAKE ROAD  
CANTON, CT 06019

HALLUM KIRSTEN  
35 LOVELY ST  
CANTON, CT 06019

BRENNAN ROSEMARY E  
59 SECRET LAKE ROAD  
CANTON, CT 06019

ASARO ANTHONY &  
27 SECRET LAKE RD  
CANTON, CT 06019

ASARO ANTHONY &  
27 SECRET LAKE RD  
CANTON, CT 06019

BARTKIEWICZ DREW &  
10 LOVELY ST  
CANTON, CT 06019

ARMSTRONG ROBERT D  
24 SECRET LAKE RD  
CANTON, CT 06019

LADUKE ELIZABETH A &  
4 LOVELY ST  
CANTON, CT 06019

LEFRANCOIS BARBARA  
18 LOVELY ST  
CANTON, CT 06019

VINCENT RICHARD J  
P.O. BOX 335  
SIMSBURY, CT 06070

BENNE DIANA &  
16 LOVELY STREET  
CANTON, CT 06019

WU JEFFREY &  
25 SECRET LAKE ROAD  
CANTON, CT 06019

WOLMETZ BARRY J &  
14 LOVELY ST  
CANTON, CT 06019

W/S PEAK CANTON PROPERTIES LLC  
33 BOYLSTON STREET STE 3000  
CHESTNUT HILL, MA 02467

HUMPHREY JEAN A  
12 LOVELY STREET  
CANTON, CT 06019

BOX FACTORY THE LLC  
5 CLIMAX ROAD  
AVON, CT 06001

JACOBS DANIEL A  
22 LOVELY ST  
CANTON, CT 06019

CARTER PHILIP J &  
38 LOVELY STREET  
CANTON, CT 06019

BERK REALTY LLC  
60 LOVELY ST  
CANTON, CT 06019

66 ALBANY TURNPIKE ASSOC. LLC  
66 ALBANY TPKE  
CANTON, CT 06019



An Employee-Owned Company

#5

David Shepard, Chairman  
Inland Wetlands and Watercourses Agency  
Town of Canton  
4 Market Street  
Collinsville, Ct 06022

CANTON TOWN HALL  
LAND USE OFFICE

NOV 16 2015

DATE OF RECEIPT IN OFFICE

RE: Retaining Wall Repair  
The Shops at Farmington Valley  
BL Project #15D2812

Dear Mr. Shepard,

On behalf of W/S Peak Canton Properties L.L.C., we are pleased to submit application to the Town of Canton Inland Wetlands and Watercourse Agency for the above referenced project.

GENERAL SUMMARY OF WORK

The Shoppes at Farmington Valley, also known as The Greens at Canton, was constructed at 110 Albany Turnpike in 2003 -2004. At the time the project was reviewed by Town staff and various Town commissions and determined to be in compliance with local and State standards. Multiple retail/restaurant buildings with associated parking lots were constructed on the property. The site is located within 500 ft of the boundary of the Town of Avon.

The existing modular block retaining wall adjacent to the Ben & Jerry's has deteriorated and is in need of replacement. The Management of the center would like to have a solution that will minimize impact to the adjacent businesses and patrons. The solution that is proposed is to construct a gravity type wall placed directly in front of the deteriorating modular block wall. This will allow the patio directly above the wall to remain undisturbed during construction of the new wall. This solution will limit the amount of disturbance within the 100' upland review area as large volumes of fill will not be required to be excavated for the removal of the existing wall and construction of the replacement wall.

CONSTRUCTION

The new gravity wall can be constructed in this sensitive area with the least amount of disturbance compared to the alternative, which is to remove and replace the modular block wall with a similar wall system. This gravity wall system can be constructed with a minimal amount of disturbance in front of the wall. Excavation will be limited to an area 709 s.f to construct the base for the gravity wall. Once the 9" thick stone base is placed at the bottom the Stone Strong block can be installed from above. A row of silt fence reinforced with a row of hay bales will be installed to protect Jim Brook from any sediment during construction. Installation procedures outlined in the 2002 CT Guidelines for Soil Erosion and Sediment Control will be followed.

Representatives of the wall installer have performed an initial investigation of the site including performing a small test pit at the base of the wall to determine the depth of foundation for the existing modular block wall and soil type. A flexible gravity wall system, such as the Stone Strong system, does not require a foundation to be installed down below frost depth. Specification of a 9" stone base and 9" of block embedment is all that will be required for the construction of the wall. Detailed specifications and calculations for the gravity wall will be prepared and submitted with the building permit for approval as required.



## STORMWATER MANAGEMENT

There will be minimal impact to the stormwater management system on site. Although the wall will have a footprint of 709 square feet, the Stone Strong wall system will have a pervious grass cover on top of it similar to the ground it is being installed on. The Stone Strong blocks are hollow and filled with stone which will allow stormwater to infiltrate.

## FLOOD STORAGE

The site is located within a FEMA 100 year flood plain. The compensatory storage for this site was evaluated during the development of this site by Lenard Engineering, Inc. in a report titled "Drainage Calculations, Plan Revision Submission, The Shoppes at Farmington Valley" dated December 3, 2003 (relative portions of this report have been attached for reference). This report was used in support of the calculations provided below. A new flood plain analysis was not performed, nor do we feel one is warranted for the proposed relatively minor change. A representative from FEMA was contacted to ascertain the LOMA process and we were told that local building official is responsible for following up the process at the time of initial application. As we were not involved with the initial process for this site we are not aware nor do we have any indication that the flood plain boundary was revised when the current site was constructed. That being said, we have evaluated the impact based on the above mentioned reports findings.

The FEMA 100-year flood elevation across the majority of the site is at 284.7 feet. The 2003 report stated that the proposed development of the site resulted in a net *increase* in the available 100-year compensatory flood storage volume of 7,877 CY. We expect construction of the new gravity retaining wall with a bottom of wall elevation of 284.5 to reduce the available flood storage within the 100-year flood plain to be limited to 2.4 inch depth between elevation 284.5 to 284.7 by 5 CY.

In conclusion, we expect the net increase in flood storage documented as part of the 2003 development to be reduced to 7,872 CY with the construction of the gravity retaining wall as designed.

Thank You,

A handwritten signature in black ink, appearing to read 'Emile Pierides', written over a horizontal line.

Emile Pierides P.E.  
BL Companies

Drainage Calcs

Plan Revision Submission

The Shoppes @ Farmington Valley

Dec 3, 2003

Leonard  
F8, Appl 008

**GENERAL INFORMATION**

**Project Location**

This project is located on the Canton Golf Course property situated south of Route 44 between Secret Lake Road and Lovely Street. Jim Brook flows through the center of the parcel.

**Proposed Development**

The project will entail approximately 342,014-sq.ft. of building foot print area. The project also requires a large parking area, sidewalks, retaining walls, and utility systems.

**Purpose**

This report includes calculations to cover proposed revisions to the site plan since the August 6<sup>th</sup>, 2003 approval. We do not propose to revise the design of the 100 series storm pipe system and do not include calculations for that system. This report also includes additional design information to clarify the performance of the proposed water quality basins.

**SUMMARY, PART 1 – ONSITE DRAINAGE SYSTEM**

**Design Methodology**

LEI used the rational method to perform pipe-sizing and swale-sizing calculations. The on-site stormwater collection and conveyance system is designed for a 10-year return-frequency storm. Swales and outfall protection devices are designed for a 25-year return-frequency storm. The storm drainage systems will drain a 37.5-acres watershed of which 28.1-acres will consist of buildings, sidewalks and parking areas.

The discharge points are protected with riprap preformed-scour holes. Water quality devices include a Vortech Treatment System, water quality basins, and catch basin sumps.

The drainage system will direct a portion of the roof runoff into several infiltration systems to compensate for the site development. We used a conservative design approach by not reducing the runoff quantity to account for the infiltration loss when sizing the storm drainage pipe systems.

**SUMMARY, PART 2 – POST DEVELOPMENT COMPENSATION**

**Summary**

The FEMA 100-year flood plain elevation across the majority of the site is at 284.7-feet. The 10-year flood elevation is 283.4-feet. Development of this project will result in 845 CY of fill within the 10-year flood plain and a total of 6,129 CY of fill within the 100-year flood plain.

SUBMITTED

DEC 3 2003

LAND USE OFFICE

Development of this project will also result in an increase in the volume of runoff due to an increase in the impervious surfaces. LEI calculated this increase at 11,625 CY for the 10-year storm and 17,067 CY for the 100-year storm. Infiltrators attached to the roof drains of some of the buildings reduce proposed runoff increase to 8,952 CY for the 10-year storm and 13,142 CY for the 100-year storm.

The project grading cuts provide 16,605 cubic yards of compensatory flood storage between the ground water elevation of 281.0-ft and the 10-year flood level of 283.4-ft. The project grading also provides an additional 27,148 cubic yards of storage for the 100-year flood level of 284.7-ft to compensate for the flood plain, fill and increased runoff volume.

**Table of Results**

	10-year (CY)	100-year (CY)
Flood Plain Fill	845	6,129
Volume of Runoff Increase	11,625	17,067
Earthwork Cut	(16,605)	(27,148)
Net	(4,135)	(3,952)

	10-year (CY)	100-year (CY)
Flood Plain Fill	845	6,129
Volume of Runoff Increase (With Infiltrators)	8,952	13,142
Earthwork Cut	(16,605)	(27,148)
Net	(6,808)	(7,877)

Notes: Earthwork cut calculated above G.W.E. of 281.0.

We performed a sensitivity analysis of basin water levels vs. flood storage compensation to determine at what water level the project will cease to provide 100% compensatory storage. We found that the site will provide adequate flood storage compensation for the 100-yr and 10-yr return flood with the water level at 282.1-ft in all the Basins. Under a worse case scenario, that considers the infiltration systems completely clogged, the site will still provide flood storage

compensation for the 100-yr and 10-yr return flood with the water level at 281.7-ft in all the Basins. Please refer to the Earthwork section of this report for details.

We sized the water quality basins to conform to the draft design guidelines of the *Connecticut Stormwater Quality Manual, ConnDEP, circa 2003*. The calculations show that the basins provide adequate water quality volume for various water levels. Please note that the ConnDEP credits 50% of the below groundwater volume towards water quality treatment. Please refer to the Basin Water Quality Volume and Recharge Requirements section of the post development calculations in this report for details.

LEI designed overflow weirs for the water quality basin to withstand erosion during high intensity storms that could overtop the basin. We approached this design with the conservative assumption that Secret Lake has not yet back flooded the site during a large flood event. Please note that we set the overflow weirs of the water quality basin at elevations 283.4-ft, which equals the 10-yr return flood level of Secret Lake. The calculations cover the 2 through 100-yr return frequency floods with the assumption that previous rainstorms have filled the basins to a level of 282-ft. The results show that the maximum velocity in the overflow weirs will not exceed 2.5 fps. According to the Connecticut Guidelines for Soil Erosion and Sediment Control fair stand of grass on the berm will resist erosion for this condition. However, as an additional measure, we propose to reinforce the turf at the weirs with a (Type G) permanent soil erosion control fabric. Please refer to the site plans for details.

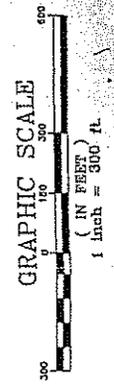
Designed by  
 Drawn by  
 Checked by  
 12

Sheet	11/17/03	Site	11/17/03
Date	8/19/02	Project	5th Street

EARTHWORK SECTIONS  
 PREPARED FOR  
**The Green @ Canton**  
 Route 44  
 CANTON, CONNECTICUT

Lenard Engineering, Inc.  
 Civil, Environmental and Hydrogeological Consultants  
 1045 State Road 140 West Street 13 Middlefield  
 Middlefield, CT 06455  
 (860) 429-4400 (Fax) 228-4444 (Cell) 221-7266

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# Fill Volume

These calculations are for fill volume below 283.4, not overall site earthwork  
 SITE FILL BELOW ELEVATION 283.4-FT (FEMA 10-YR FLOOD)

Station	Fill (SF)	Fill (CY)
0	0	0.00
50	0	0.00
100	0	0.00
150	0	0.00
200	0	0.00
250	0	0.00
300	0	0.00
400	0	0.00
450	0	0.00
500	0	0.00
550	0	0.00
600	0	0.00
650	0	0.00
700	0	0.00
750	0	0.00
800	0	0.00
850	0	0.00
900	0	0.00
950	0	0.00
1000	0	0.00
1050	0	0.00
1100	0	0.00
1150	0	0.00
1200	0	0.00
1250	0	42.85
1300	46.28	111.04
1350	73.64	166.73
1400	41.63	84.18
1450	49.28	71.69
1500	28.04	130.06
1550	112.42	165.50
1600	66.32	97.34
1650	38.81	35.94
1700	0	0.00
1750	0	0.00
	Total	845.22

# Fill Volume

These calculations are for fill volume below 284.7, not overall site earthwork  
SITE FILL BELOW ELEVATION 284.7-FT(FEMA 100-YR FLOOD)

Station	Fill (SF)	Fill (CY)
0	0	0.00
50	0	0.00
100	0	0.00
150	0	0.00
200	0	0.00
250	0	0.00
300	22.77	21.08
400	0	42.17
450	0	0.00
500	0	0.00
550	0	0.00
600	0	0.00
650	0	0.00
700	0	0.00
750	0	0.00
800	0	0.00
850	0	0.00
900	0	0.00
950	0	0.50
1000	0	0.00
1050	0	0.00
1100	0	0.00
1150	0	0.00
1200	0	0.00
1250	0	0.00
1300	289.92	277.70
1350	330.08	583.33
1400	234.14	622.43
1450	230.02	622.37
1500	384.84	661.91
1550	506.23	825.08
1600	667.44	1086.73
1650	446.52	1031.44
1700	56.21	465.49
1750	39.8	88.90
1800	57.55	90.14
1850	0	53.29
Total		6122.62

**Incremental Cut Calculations  
 for Sensitivity Analysis of Compensatory Flood Storage vs. Basin Water Levels.**

**Basin #1 Cut Volume**

<i>Elevation</i>	<i>CutArea</i> (s.f.)	<i>Incremental</i> <i>Volume</i> (c.f.)	<i>Total</i> <i>Volume</i> (c.f.)	<i>Total</i> <i>Volume</i> (C.Y.)
285.0	179,299.00	53569	767377	28421.4
284.7	177,828.10	123278	713808	26437.3
284	174,396.00	103657	590529	21871.5
283.4	171,125.94	68066	486873	18032.3
283	169,204.37	84002	418807	15511.4
282.5	166,802.40	82801	334805	12400.2
282	164,400.43	73561	252004	9333.5
281.5	129,841.87	56281	178444	6609.0
281	95,283.31	60725	122162	4524.5
280	26,166.18	43495	61438	2275.5
278	17,329.07	17942	17942	664.5
276	613.28	0	0	0

<i>Assumed</i> <i>WSE</i> <i>Elevation</i> (ft)	<i>Additional</i> <i>Storage</i> <i>between WSE</i> <i>and 100-yr</i> <i>Flood</i> (C.Y.)	<i>Additional</i> <i>Storage</i> <i>between WSE</i> <i>and 10-yr</i> <i>Flood</i> (C.Y.)
284.70	-	-
284.00	4,566	-
283.40	8,405	-
283.00	10,926	2,521
282.50	14,037	5,632
282.00	17,104	8,699
281.50	19,828	11,423
281.00	21,913	13,508

**Incremental Cut Calculations  
 for Sensitivity Analysis of Compensatory Flood Storage vs. Basin Water Levels.**

**Basin #2 Cut Volume**

<i>Elevation</i>	<i>CutArea</i> (s.f.)	<i>Incremental</i> <i>Volume</i> (c.f.)	<i>Total</i> <i>Volume</i> (c.f.)	<i>Total</i> <i>Volume</i> (C.Y.)
285.0	1,909.00			
284.7	3,676.30	4017	20706	766.9
284.0	7,800.00	4488	16689	618.1
283.4	7,159.20	2778	12201	451.9
283.0	6,732.00	2969	9423	349.0
282.5	5,145.00	2176	6454	239.0
282.0	3,558.00	1602	4278	158.4
281.5	2,848.50	1247	2676	99.1
281.0	2,139.00	1430	1430	52.9
280.0	720.00	0	0	0

<i>Elevation</i> (ft)	<i>Additional</i> <i>Storage</i> <i>between WSE</i> <i>and 100-yr</i> <i>Flood</i> (C.Y.)	<i>Additional</i> <i>Storage</i> <i>between WSE</i> <i>and 10-yr</i> <i>Flood</i> (C.Y.)
284.70	-	
284.00	149	
283.40	315	-
283.00	418	103
282.50	528	213
282.00	608	293
281.50	668	353
281.00	714	399
280.00	767	452

**Incremental Cut Calculations  
 for Sensitivity Analysis of Compensatory Flood Storage vs. Basin Water Levels.**

**Basin #3 Cut Volume**

<i>Elevation</i>	<i>CutArea</i> (s.f.)	<i>Incremental</i> <i>Volume</i> (c.f.)	<i>Total</i> <i>Volume</i> (c.f.)	<i>Total</i> <i>Volume</i> (C.Y.)
285.0				
284.7	39576	27239	136348	5049.9
284.0	38250	21967	109109	4041.1
283.4	34974	13765	87142	3227.5
283.0	33850	16577	73377	2717.7
282.5	32460	16201	56799	2103.7
282.0	32345	14667	40598	1503.6
281.5	26,322.00	11655	25931	960.4
281.0	20299	14276	14276	528.7
280.0	8253	0	0	0

<i>Assumed</i> <i>WSE</i> <i>Elevation</i> (ft)	<i>Additional</i> <i>Storage</i> <i>between WSE</i> <i>and 100-yr</i> <i>Flood</i> (C.Y.)	<i>Additional</i> <i>Storage</i> <i>between WSE</i> <i>and 10-yr</i> <i>Flood</i> (C.Y.)
284.70	-	
284.00	1,009	
283.40	1,822	-
283.00	2,332	510
282.50	2,946	1,124
282.00	3,546	1,724
281.50	4,090	2,267
281.00	4,521	2,699
280.00	5,050	3,227

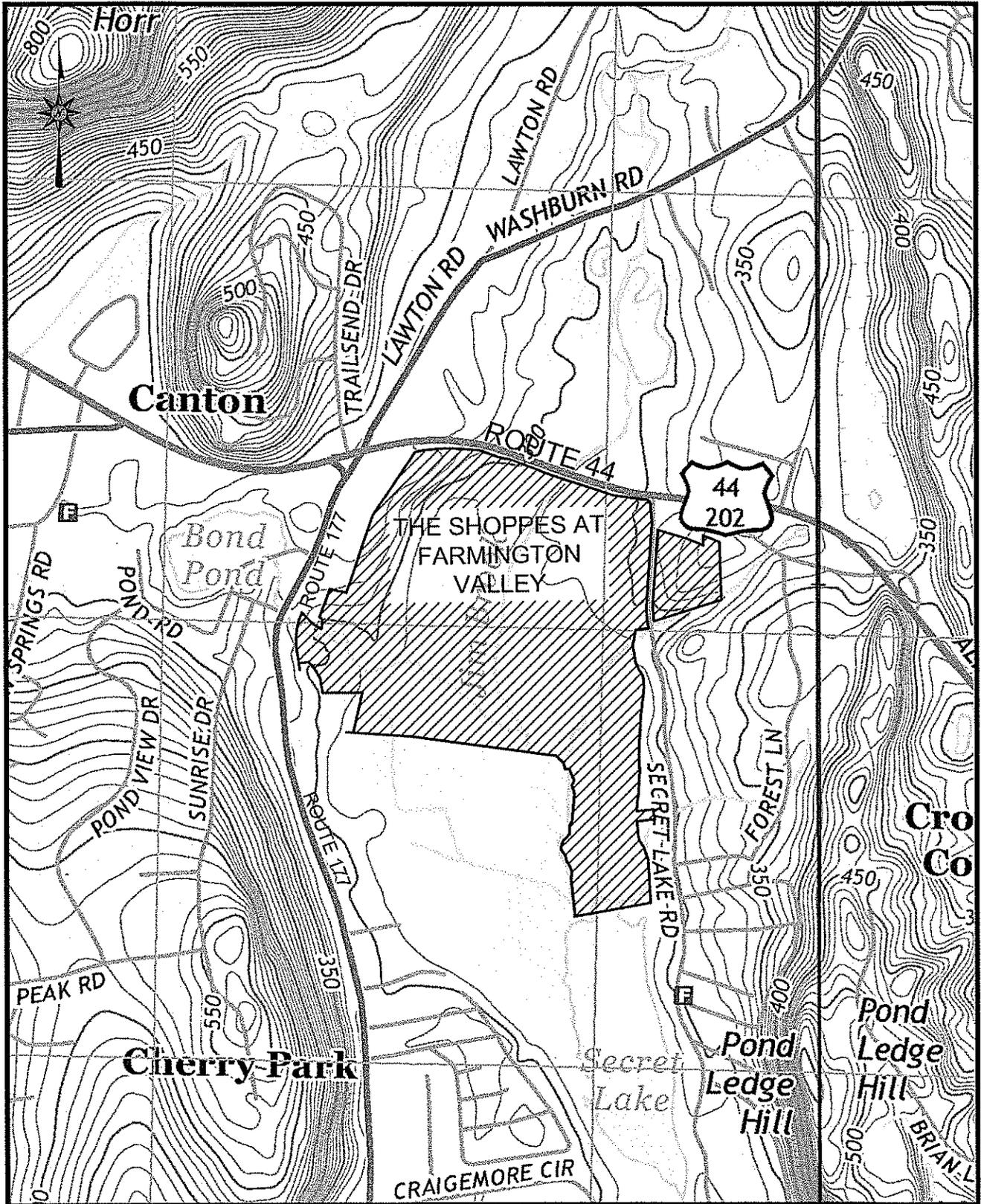
**Incremental Cut Calculations  
for Sensitivity Analysis of Compensatory Flood Storage vs. Basin Water Levels.**

Total Storage in Basins												
Assumed WSE Elevation (ft)	Additional Storage Provided Between WSE and 100-yr Flood (C.Y.)	(no infiltration)			(with infiltration)			Additional Storage between WSE and 100-yr Flood (C.Y.)	(no infiltration)		(with infiltration)	
		100-yr Flood Plain Fill and Runoff Volume Increase (C.Y.)	Mitigation provided? %	100-yr Flood Plain Fill and Runoff Volume Increase (C.Y.)	Mitigation provided? %	100-yr Flood Plain Fill and Runoff Volume Increase (C.Y.)	Mitigation provided? %		100-yr Flood Plain Fill and Runoff Volume Increase (C.Y.)	Mitigation provided? %	100-yr Flood Plain Fill and Runoff Volume Increase (C.Y.)	Mitigation provided? %
284.70	-	23,196	0%	19,271	0%							
284.00	5,723	23,196	25%	19,271	30%							
283.40	10,542	23,196	45%	19,271	55%							
283.00	13,676	23,196	59%	19,271	71%	3,134	10,986	0%	9,797	-		
282.50	17,511	23,196	75%	19,271	91%	6,969	10,986	29%	9,797	32%		
282.00	21,259	23,196	92%	19,271	110%	10,716	10,986	63%	9,797	71%		
281.50	24,586	23,196	106%	19,271	128%	14,043	10,986	98%	9,797	109%		
281.00	27,148	23,196	117%	19,271	141%	16,605	10,986	128%	9,797	143%		
								151%	9,797	169%		

Critical Basin Water Surface Levels to provide 100% Compensation for Flood plain Fill and Runoff Increase

Return Flood (yr)	Infiltration System?	WSE (ft)	Cut Volume Provided (CY)
100	No	281.7	23,196
10	No	282.0	10,986
100	Yes	282.3	19,271
10	Yes	282.1	9,797

#4



ARCHITECTURE  
ENGINEERING  
ENVIRONMENTAL  
LAND SURVEYING

Companies

THE SHOPPES AT FARMINGTON VALLEY  
ROUTE 44  
CANTON, CONNECTICUT

Designed E.P.  
Drawn M.S.B.  
Checked  
Approved  
Scale 1"=1000'  
Project No. 15D2812  
Date 11/12/2015  
CAD File LOC15D281201

LOC-1

Xref (s):

88878

**BL COMPANIES, INC.**  
355 RESEARCH PARKWAY  
MERIDEN, CT 06450  
PH. 203-630-1406

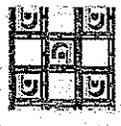
**Citizens Bank**

51-7011/2111

CHECK DATE November 12, 2015

PAY Two Hundred and 00/100 Dollars  
TO Town of Canton

AMOUNT \$200.00



\_\_\_\_\_  
AUTHORIZED SIGNATURE

⑆088878⑆ ⑆222270214⑆ 222004082⑆

Security features. Details on back.

88877

**BL COMPANIES, INC.**  
355 RESEARCH PARKWAY  
MERIDEN, CT 06450  
PH. 203-630-1406

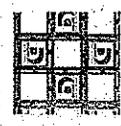
**Citizens Bank**

51-7011/2111

CHECK DATE November 12, 2015

PAY Sixty and 00/100 Dollars  
TO Town of Canton

AMOUNT \$60.00



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AUTHORIZED SIGNATURE

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Security features. Details on back.

#3

#2



An Employee-Owned Company

# TRANSMITTAL

DATE November 13, 2015

ATTENTION Emily Anyzeski – inland Wetlands & Watercourses Agent

COMPANY Town of Canton

ADDRESS 4 Market Street  
Collinsville, CT 06022  
860-693-7892

FROM Emile Pierides

EMAIL epierides@blcompanies.com

PROJECT NAME The Shops at Farmington Valley  
PROJECT NUMBER 15D2812

SUBJECT IWWA Submission

WE ARE SENDING YOU:

- Attached
- Via
- Under separate cover
- Plans
- Specifications
- Copy of letter
- Prints
- Shop drawings
- Samples
- Application for payment
- Change order
- Other \_\_\_\_\_

COPIES	DATE	NO.	DESCRIPTION
9	11/12/15	SP-1, DN-1	Site Plan and Details
9	11/13//15		Project Summary Letter
9	-		Location map
9	-		Abutters list and map
9	11/12/15		IWWA Application form
9			DEEP Reporting Form
1	11/12/15		\$200.00 Application fee check #88878
1	11/12/15		\$60.00 State reporting fee check #88877

THESE ARE TRANSMITTED as checked below:

- For approval
- For your use
- As requested
- For review & comment
- For bids due: \_\_\_\_\_
- No exceptions taken
- Furnish as corrected
- Revise & resubmit
- Rejected
- Resubmit for record
- Resubmit
- Submit
- Return
- Prints returned after loan to us
- \_\_\_\_\_
- For distribution
- Corrected prints

REMARKS: Please accept the attached as application to the Inland Wetlands and Watercourses Agency.

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

COPY TO: \_\_\_\_\_

Signed: Emile Pierides

Submitted to Land Use Office:

11/16/15

TOWN OF CANTON  
Inland Wetlands and Watercourses Agency (IWWA)  
APPLICATION FOR PERMIT

Office Use Only

FILE #: 11-15-1131 Fee: \$160.00 PAID: Cash  Bank/Check # 88877/88878  
First Wetlands meeting date 12/10/15 Status: \_\_\_\_\_  
Second Wetlands meeting date \_\_\_/\_\_\_/\_\_\_ Status: \_\_\_\_\_  
Any Waivers Requested? Y  N

Note: If this application is not completed in the proper form, it can be summarily rejected by the Agency

Applicant Name: W/S Peak Canton Properties, L.L.C. c/o Denise Robidoux  
Address: 110 Albany Turnpike Bus. Phone: 860-693-3059 ext. 222  
Canton, CT 06019 Home Phone: \_\_\_\_\_  
Owner of Record: W/S Peak Canton Properties, L.L.C. c/o WS Asset Management, Inc.  
Address: 33 Boylston Street, Suite 3000 Bus. Phone: \_\_\_\_\_  
Chestnut Hill, MA 02467 Home Phone: \_\_\_\_\_  
Contractor Name: TBD  
Bus. Address: \_\_\_\_\_ Bus. Phone: \_\_\_\_\_  
Fax: \_\_\_\_\_  
Consultant Name: BL Companies, Inc. Expertise: Engineering/Architecture  
Bus. Address: 355 Research Parkway Bus. Phone: 203-630-1406  
Meriden, CT 06450 Fax: 203-630-2615

Site Description

Address: 110 Albany Turnpike, Canton, CT 06019  
Assessors Map 36/101 Lot 0110 Recorded Volume 285 Page 557 Acreage 124 Zone SB  
>>> Attach a location map or vicinity map at a scale of 1" = 1000' to help locate the property <<<<  
Describe Existing Uses: Retail Shopping Center  
Describe Proposed Activity/Purpose: To construct a new gravity retaining wall in front of a failing modular block retaining wall.  
Describe How Wetlands and Watercourses Will Be Disturbed: No disturbance within the watercourse is proposed.  
Quantify Earth Work in Regulated Area: Volume 0 cu. ft. Depth of Fill 0 ft. Slope N/A  
(Include materials moved/removed/disturbed) Area \_\_\_\_\_ sq. ft. Percent of total area: \_\_\_\_\_

Revised 12/8/05

CANTON TOWN HALL  
LAND USE OFFICE

NOV 16 2015

DATE OF RECEIPT IN OFFICE

**SIGNIFICANT ACTIVITY INFORMATION**

Complete this portion if your proposal is considered to be significant pursuant to Section 2.1 cc of the Canton IWWA Regulations.

1. Describe further the general character of the land in sufficient detail to characterize the wetlands and watercourses, including soil types. Refer to any plans that may be enclosed: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
2. State the function that the wetlands/watercourses currently serves and the effect that the proposed activity may have on that function. Those functions should include surface and ground water quality, flood control, and wildlife habitat: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
3. State in more detail or by specific locations, depths to which removal or deposition operations are proposed and the percent of slope, including kinds of materials removed and/or deposited and sides of channels or excavations resulting from removal or filling operations: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
4. State manner in which material will be removed or deposited and /or in which any structure will be erected, and/or use carried out, including a description of the nature of the use proposed: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
5. State the anticipated time and sequence of construction and length of construction period(s): \_\_\_\_\_  
\_\_\_\_\_
6. List (or attach on a separate sheet) the titles of site plans, drawings, and cross-sections, with latest revision dates and any other reports that are part of this application and are accompanying this form: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
7. List (or attach on a separate sheet) all abutting property owners and downstream and down-gradient property owners as may be required. Give both names and addresses: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
8. Identify previous permits or certificates for existing activities on the property giving name and current address and phone number of the permit holder, dates of issuance and expiration of the permit, and the agency file number: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**SUBMIT PLANS IN THE FOLLOWING FORMATS ONLY:**

1. 24" x 36"
2. 18" x 24"
3. 12" X 18"

Attach a site plan scaled at sufficient detail to show existing and proposed conditions, including maximum building areas relative to regulated areas, measures proposed to mitigate potential adverse impacts and a listing of soil types.

If considered a significant activity, you may be required to attach maps at prescribed scales showing the location of proposed activities, adjacent lands and regulated areas, upstream/downstream areas, property lines, roads and drives, existing buildings and utilities, topography, published and or found soil survey types, wetlands limits, watercourses and buffer areas, existing open space lands and private/public conservation easements, and types of vegetative cover. Consult the regulations for details.

DISCUSS WHY THIS PROPOSAL WAS CHOSEN OVER ANY ALTERNATIVES. LIST ALL ALTERNATIVES (use separate sheet if necessary):

This proposal of constructing a new gravity retaining wall in front of the failing modular block retaining wall was chosen because it offered the least amount of disturbance to the site and the upland review area.

The alternative would be to remove and replace the existing modular block retaining wall. This would require not only the removal of the existing wall block, but the removal of the geogrid and soil behind the wall as well as the patio above the wall. A significant amount of fill would need to be removed from the area and then be brought back in as the new modular block wall is being constructed.

OWNER'S CONSENTING SIGNATURE:

The undersigned, as owner of the property, hereby consents to necessary and proper inspections of the property that is subject to this application by agents of the Canton Inlands Wetlands and Watercourses Agency at reasonable times, both before and after a final decision has been issued by this Agency.

*Dennis L. Raludians*  
Signature *Here unto duly authorized*

11/11/15  
Date

APPLICANT'S SIGNATURE:

The undersigned is familiar with all of the information provided in this application and is aware that any permit obtained through deception, or inaccurate or misleading information, is subject to revocation. The applicant further understands that any violation of any provision of a permit may result in orders to cease and desist from any and all work at the site. If an agent's name has been specified as the primary contact person on the front of this application, the applicant authorized that agent to act on his/her behalf before the Canton Inland Wetlands and Watercourses Agency in matters regarding this application.

*Dennis L. Raludians*  
Signature *Here unto duly authorized*

11/11/15  
Date

**REQUEST FOR WAIVERS**  
(per IWWA Regulations effective 09/01/11)

In accordance with Section 7.11 of the Canton Inland Wetlands and Watercourses Agency Regulations, a request is made that the following application requirements be waived (check those section numbers requested for waiver):

- Section 7.4d (The geographical location and description of the land in sufficient detail to allow identification of the properties, the wetlands, the watercourses, the area to be disturbed – waiving only identification of soil types and wetland vegetation).
  
- Section 7.4e (3) (The purpose and description of the activity, proposed E&S controls management practices, mitigation measures – waiving only identification of measures to restore, enhance and create productive wetland or watercourse resources)
  
- Section 7.4 g (Site plan on a scale of at least 1" = 40' showing proposed activity, existing and proposed conditions relating to wetlands and watercourses, associated or inevitable activity that may impact wetlands or watercourse).
  
- Section 7.4 h (Names and addresses of land owners within 100 feet of property boundary) N/A if significant impact activity determined or public hearing called.
  
- Section 7.4m (Any other information the Agency deems necessary)
  
- Section 7.5 f (Analysis of chemical or physical characteristics of any fill material).

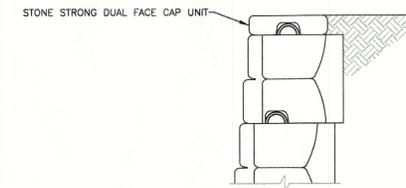
The undersigned, as owner or duly authorized applicant, has reviewed the above information provided to the Canton Inland Wetlands and Watercourses Agency and certifies it is true and correct to the best of his/her knowledge and belief.

*Dennis D. Polinsky*  
Signature *herewith duly authorized*

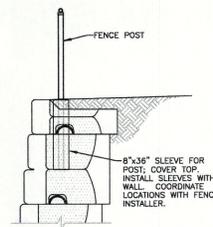
*11/11/15*  
Date



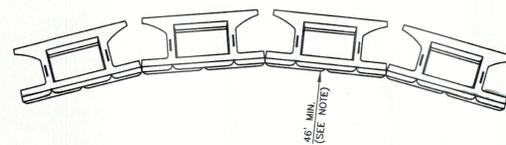
NOTE:  
CAP UNIT IS OPTIONAL. TOP OF WALL IS  
FITTED w/TOP UNIT IN MOST APPLICATIONS.



STONE STRONG CAP UNIT  
NOT TO SCALE



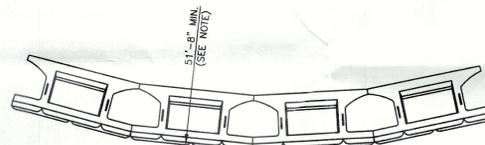
FENCE SLEEVE  
NOT TO SCALE



Minimum Concave Radius		
Wall Height (ft)	Total # of Courses	Reqd. Radius at Top Course
6	2	46' 4"
9	3	46' 8"
12	4	47' 0"
15	5	47' 4"
18	6	47' 8"
21	7	48' 0"
24	8	48' 4"

NOTE:  
MINIMUM RADIUS OCCURS AT LOWEST COURSE.  
RADIUS INCREASES 4" PER COURSE ABOVE,  
AS SHOWN ON TABLE.

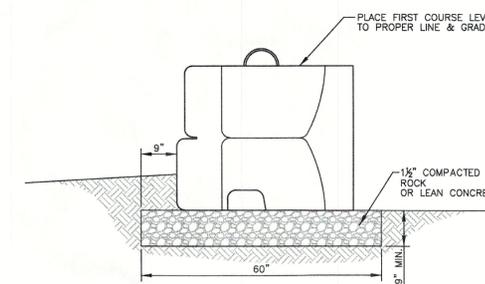
MINIMUM CONCAVE RADIUS-24SF UNITS  
NOT TO SCALE



Minimum Convex Radius		
Wall Height (ft)	Total # of Courses	Reqd. Radius at First Course
6	2	52' 0"
9	3	52' 4"
12	4	52' 8"
15	5	53' 0"
18	6	53' 4"
21	7	53' 8"
24	8	54' 0"

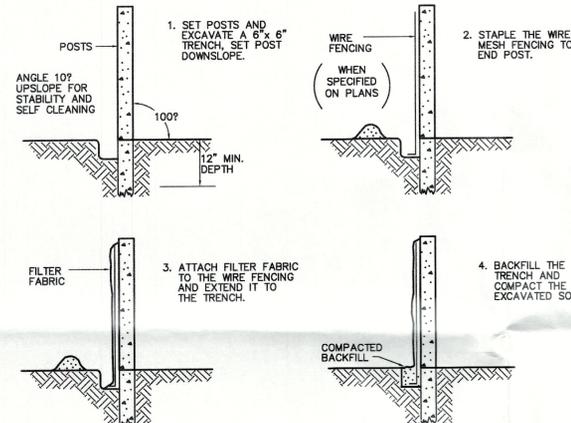
NOTE:  
MINIMUM RADIUS OCCURS AT TOP COURSE.  
REQUIRED RADIUS INCREASES 4" PER COURSE  
BELOW, AS SHOWN ON TABLE.

MINIMUM CONVEX RADIUS-24SF UNITS  
NOT TO SCALE

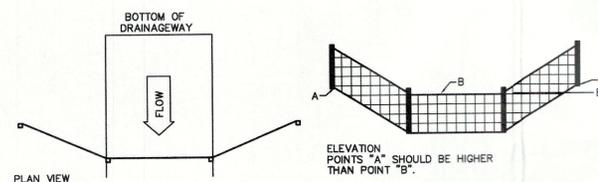


NOTE: BEARING CONDITIONS SHALL BE OBSERVED BY THE SITE GEOTECHNICAL ENGINEER. BASE DIMENSIONS MAY BE INCREASED TO ADDRESS DEFICIENT SOIL BEARING CONDITIONS.

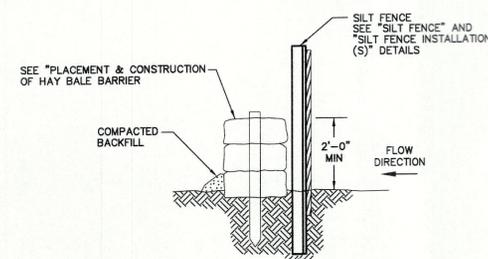
24SF WALL BASE  
NOT TO SCALE



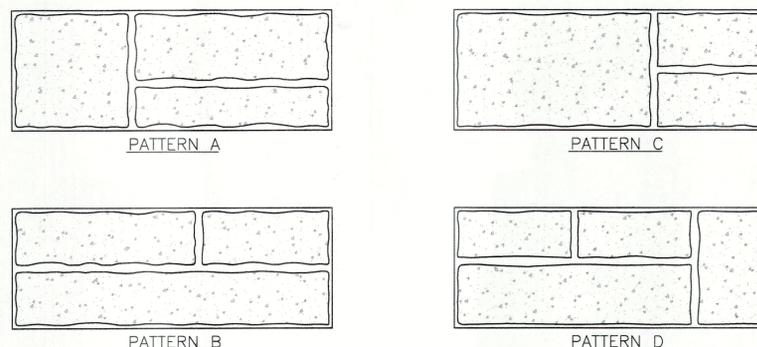
SYNTHETIC FILTER BARRIER WITH WIRE FENCING  
N.T.S. ZEC-006



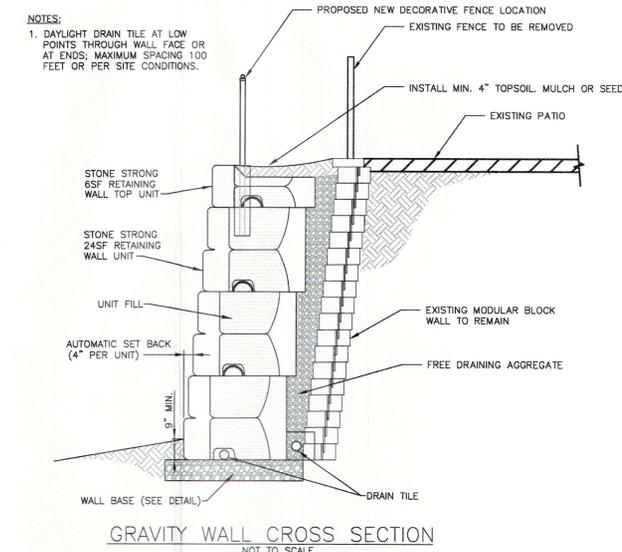
SEDIMENTATION CONTROL BARRIER WITH HAY BALE BARRIER  
N.T.S. ZEC-003



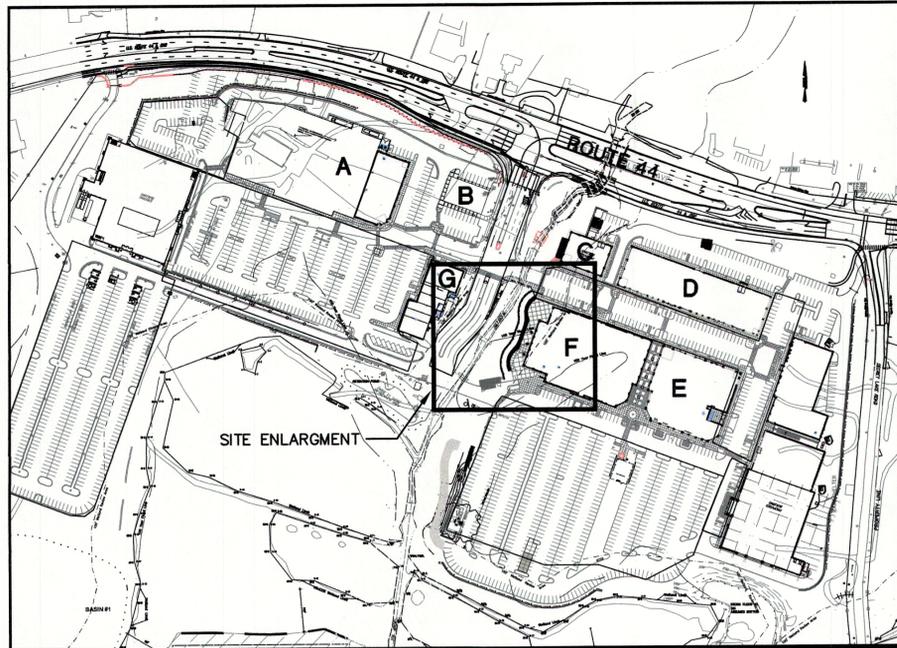
BACKFILL AND COMPACT THE EXCAVATED SOIL AS SHOWN ON THE UPHILL SIDE OF THE BARRIER TO PREVENT PIPING



STONE STRONG FRACTURED LEDGE FACE PATTERNS  
NOT TO SCALE



GRAVITY WALL CROSS SECTION  
NOT TO SCALE



**LOCATION MAP**

SCALE: 1"=200'

CANTON TOWN HALL  
LAND USE OFFICE

DEC 24 2015

DATE OF RECEIPT IN OFFICE

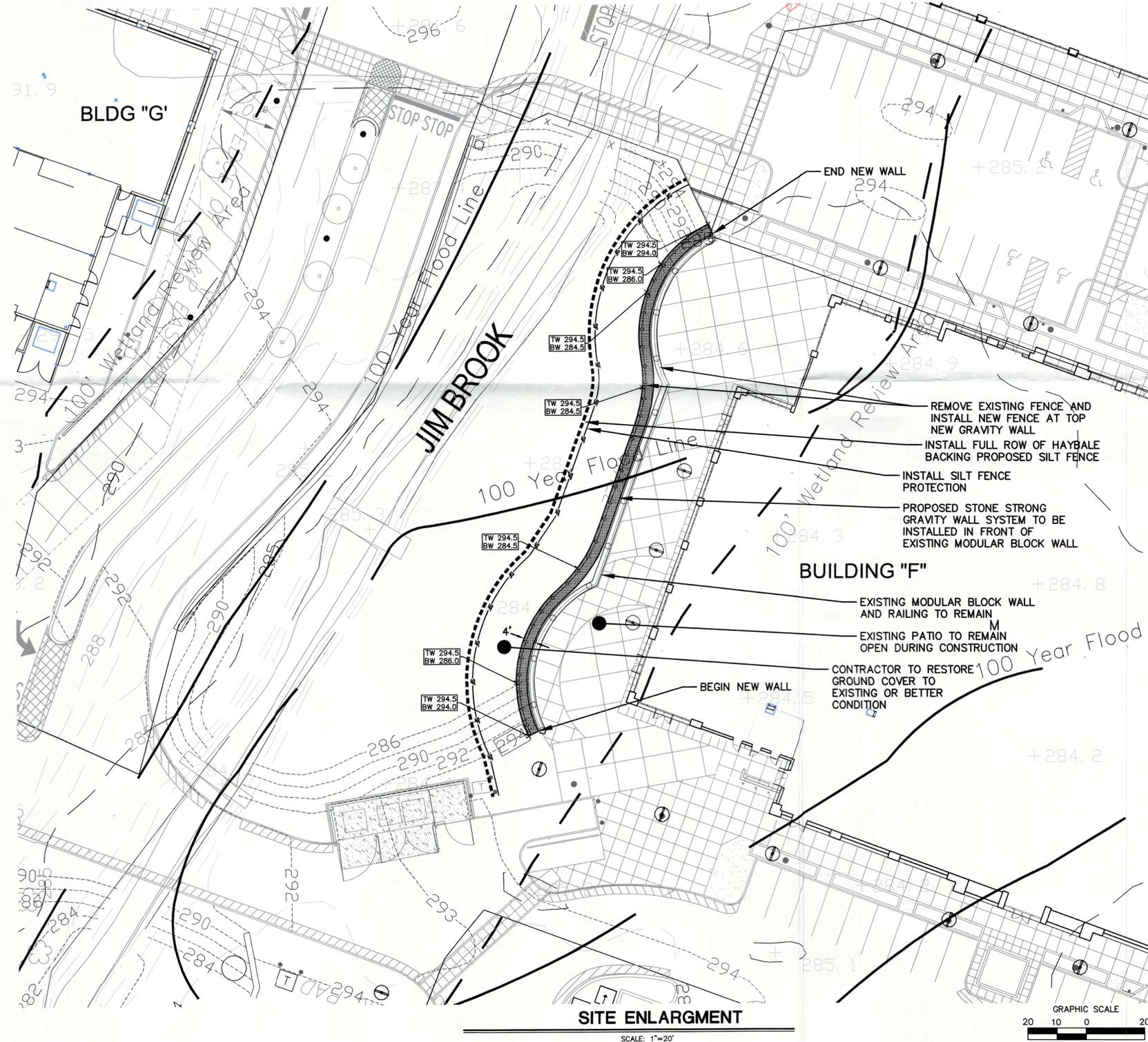
**SITE PLAN NOTES**

SITE PLAN NOTES

1. ALL CONSTRUCTION SHALL COMPLY WITH PROJECT SPECIFICATION: W/S PEAK CANTON PROPERTIES L.L.C. STANDARDS, TOWN OF CANTON, STANDARDS DEPARTMENT OF TRANSPORTATION STANDARDS AND SPECIFICATIONS IN THE ABOVE REFERENCED INCREASING HIERARCHY. IF SPECIFICATIONS ARE IN CONFLICT, THE MORE STRINGENT SPECIFICATION SHALL APPLY. ALL CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE OSHA, FEDERAL, STATE AND LOCAL REGULATIONS.
2. THE OWNER IS RESPONSIBLE FOR OBTAINING ALL NECESSARY ZONING PERMITS REQUIRED BY GOVERNMENT AGENCIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL OBTAIN ALL TOWN CONSTRUCTION PERMITS. THE CONTRACTOR SHALL POST ALL BONDS, PAY ALL FEES, PROVIDE PROOF OF INSURANCE AND PROVIDE TRAFFIC CONTROL NECESSARY FOR THIS WORK.
3. REFER TO PLANS BY WALL MANUFACTURER AND DETAILS FOR ADDITIONAL INFORMATION. THE CONTRACTOR SHALL VERIFY ALL SITE CONDITIONS IN THE FIELD AND CONTACT THE CIVIL ENGINEER IF THERE ARE ANY QUESTIONS OR CONFLICTS REGARDING THE CONSTRUCTION DOCUMENTS AND/OR FIELD CONDITIONS SO THAT APPROPRIATE REVISIONS CAN BE MADE PRIOR TO BIDDING. ANY CONFLICT BETWEEN THE DRAWINGS AND SPECIFICATIONS SHALL BE CONFIRMED WITH THE OWNER'S CONSTRUCTION MANAGER PRIOR TO BIDDING.
4. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF ALL PRODUCTS, MATERIALS PER PLANS AND SPECIFICATIONS TO THE OWNER AND CIVIL ENGINEER FOR REVIEW AND APPROVAL PRIOR TO FABRICATION OR DELIVERY TO THE SITE. ALLOW A MINIMUM OF 14 WORKING DAYS FOR REVIEW.
7. SHOULD ANY UNCHARTED OR INCORRECTLY CHARTED, EXISTING PIPING OR OTHER UTILITY BE UNCOVERED DURING EXCAVATION, CONSULT THE CIVIL ENGINEER IMMEDIATELY FOR DIRECTIONS BEFORE PROCEEDING FURTHER WITH WORK IN THIS AREA.
8. DO NOT INTERRUPT EXISTING UTILITIES SERVICING FACILITIES OCCUPIED AND USED BY THE OWNER OR OTHERS DURING OCCUPIED HOURS EXCEPT WHEN SUCH INTERRUPTIONS HAVE BEEN AUTHORIZED IN WRITING BY THE OWNER AND THE LOCAL MUNICIPALITIES. INTERRUPTIONS SHALL ONLY OCCUR AFTER ACCEPTABLE TEMPORARY SERVICE HAS BEEN PROVIDED.
10. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN TRAFFIC DEVICES FOR PROTECTION OF VEHICLES AND PEDESTRIANS CONSISTING OF DRUMS, BARRIERS, SIGNS, LIGHTS, FENCES, TRAFFIC CONTROLLERS AND UNIFORMED TRAFFIC OFFICERS AS REQUIRED OR AS ORDERED BY THE ENGINEER OR AS REQUIRED BY THE LOCAL GOVERNING AUTHORITIES OR AS REQUIRED BY PERMIT STIPULATIONS.
14. THE CONTRACTOR SHALL ABIDE BY ALL OSHA FEDERAL STATE AND LOCAL REGULATIONS WHEN OPERATING CRANES, BOOMS, HOISTS, ETC. IN CLOSE PROXIMITY TO OVERHEAD ELECTRIC LINES. IF CONTRACTOR MUST OPERATE EQUIPMENT CLOSE TO ELECTRIC LINES, CONTACT POWER COMPANY TO MAKE ARRANGEMENTS FOR PROPER SAFEGUARDS. ANY UTILITY COMPANY FEES SHALL BE PAID FOR BY THE CONTRACTOR.
18. THE CONTRACTOR SHALL RESTORE ANY DRAINAGE STRUCTURE, PIPE, UTILITY, PAVEMENT, CURBS, SIDEWALKS, LANDSCAPED AREAS OR SIGNAGE DISTURBED DURING CONSTRUCTION TO THEIR ORIGINAL CONDITION OR BETTER, AS APPROVED BY THE CIVIL ENGINEER.
19. THE CONTRACTOR SHALL PROVIDE AS-BUILT RECORDS OF ALL CONSTRUCTION (INCLUDING UNDERGROUND UTILITIES) TO THE OWNER AT THE END OF CONSTRUCTION.
20. THE ARCHITECT AND ENGINEER ARE NOT RESPONSIBLE FOR SITE SAFETY MEASURES TO BE EMPLOYED DURING CONSTRUCTION. THE ARCHITECT AND ENGINEER HAVE NO CONTRACTUAL DUTY TO CONTROL THE SAFEST METHODS OR MEANS OF THE WORK, JOB SITE RESPONSIBILITIES, SUPERVISION OR TO SUPERVISE SAFETY AND DOES NOT VOLUNTARILY ASSUME ANY SUCH DUTY OR RESPONSIBILITY.
21. THE CONTRACTOR SHALL COMPLY WITH CFR 29 PART 1926 FOR EXCAVATION TRENCHING AND TRENCH PROTECTION REQUIREMENTS.
22. EXISTING LAYOUT AND TOPOGRAPHY IS BASED ON DRAWING TITLED "THE GREENS AT CANTON, ROUTE 44, CANTON, CONNECTICUT DATED 1/3/03, REVISED 3/5/10 BY LENARD ENGINEERING INC.
23. ALTERNATIVE METHODS AND PRODUCTS OTHER THAN THOSE SPECIFIED MAY BE USED IF REVIEWED AND APPROVED BY THE OWNER, CIVIL ENGINEER, AND APPROPRIATE REGULATORY AGENCY PRIOR TO INSTALLATION DURING THE BIDDING PROCESS.
24. INFORMATION ON EXISTING UTILITIES AND STORM DRAINAGE SYSTEMS HAS BEEN COMPILED FROM AVAILABLE INFORMATION AND IS NOT GUARANTEED CORRECT OR COMPLETE. UTILITIES AND STORM DRAINAGE SYSTEMS ARE SHOWN TO ALERT THE CONTRACTOR TO THEIR PRESENCE AND THE CONTRACTOR IS SOLELY RESPONSIBLE FOR DETERMINING ACTUAL LOCATIONS AND ELEVATIONS OF ALL UTILITIES AND STORM DRAINAGE SYSTEMS INCLUDING SERVICES. PRIOR TO DEMOLITION OR CONSTRUCTION, THE CONTRACTOR SHALL CONTACT "CALL BEFORE YOU DIG" 72 HOURS BEFORE COMMENCEMENT OF WORK AT "800-922-4455" AND VERIFY ALL UTILITY AND STORM DRAINAGE SYSTEM LOCATIONS.
27. AN EROSION CONTROL BOND MAY BE REQUIRED TO BE POSTED BY THE CONTRACTOR BEFORE THE START OF ANY ACTIVITY ON OR OFF SITE.
28. THESE PLANS ARE FOR PERMITTING PURPOSES ONLY AND ARE NOT FOR CONSTRUCTION.
29. NO CONSTRUCTION OR DEMOLITION SHALL BEGIN UNTIL APPROVAL OF THE FINAL PLANS IS GRANTED BY ALL GOVERNING AND REGULATORY AGENCIES.
32. THE PROJECT PARCEL IS LOCATED PARTLY OR WHOLLY WITHIN A FEMA DESIGNATED FLOOD HAZARD AREA.
33. THERE ARE WETLANDS LOCATED ON THE SITE.
34. THE EXISTING BUILDING IS TO REMAIN OPEN FOR BUSINESS UNTIL THE CONSTRUCTION OF THE PROPOSED BUILDING IS COMPLETE. AT WHICH TIME THE EXISTING BUILDING WILL BE DEMOLISHED AND PARKING IMPROVEMENTS IN THIS AREA COMPLETED.

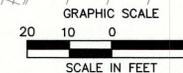
**CONSTRUCTION SEQUENCE**

- THE FOLLOWING CONSTRUCTION SEQUENCE IS RECOMMENDED:
1. CONTACT TOWN OF CANTON AGENT TO THE INLAND WETLANDS AND WATERCOURSE AGENCY AT LEAST FORTY-EIGHT (48) HOURS PRIOR TO COMMENCEMENT OF ANY DEMOLITION, CONSTRUCTION OR REGULATED ACTIVITY ON THIS PROJECT.
  2. CLEARING LIMITS SHALL BE PHYSICALLY MARKED IN THE FIELD AND APPROVED BY THE TOWN OF CANTON AGENT TO THE INLAND WETLANDS AND WATERCOURSE AGENCY PRIOR TO THE START OF WORK ON THE SITE.
  3. INSTALL SILT FENCE BACKED WITH HAY BALES AND OTHER EROSION CONTROL DEVICES INDICATED ON THESE PLANS AT PERIMETER OF PROPOSED SITE DISTURBANCE.
  4. CLEAR AND GRUB AREA AT BASE OF WALL. MATERIAL TO BE REMOVED FROM SITE.
  5. COMMENCE EARTHWORK FOR INSTALLATION OF WALL BASE. EXCESS MATERIAL TO BE REMOVED FROM SITE OR TO BE STOCKPILED ELSEWHERE ON PROPERTY AS DIRECTED BY THE ENGINEER AND PROPERTY MANAGEMENT.
  6. IMMEDIATELY UPON DISCOVERING UNFORESEEN CIRCUMSTANCES POSING THE POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT POLLUTION, THE OPERATOR SHALL IMPLEMENT APPROPRIATE BEST MANAGEMENT PRACTICES TO ELIMINATE THE POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT POLLUTION.
  7. CONSTRUCTION STAKING OF WALL.
  8. REMOVE EXISTING DECORATIVE FENCE AT TOP OF EXISTING WALL.
  9. INSTALL AND COMPACT STONE BASE.
  10. THROUGHOUT CONSTRUCTION SEQUENCE, REMOVE SEDIMENT FROM BEHIND SILT FENCES, HAY BALES AND OTHER EROSION CONTROL DEVICES AS REQUIRED. REMOVAL SHALL BE ON A PERIODIC BASIS (EVERY SIGNIFICANT RAINFALL OF 0.25 INCH OR GREATER). INSPECTION OF EROSION CONTROL MEASURES SHALL BE ON A WEEKLY BASIS AND AFTER EACH RAINFALL OF 0.25 INCHES OR GREATER. SEDIMENT COLLECTED SHALL BE DEPOSITED AND SPREAD EVENLY UPLAND ON SLOPES DURING CONSTRUCTION.
  11. INSTALL FIRST COURSE OF WALL BLOCK AND DRAINAGE PIPE AT BASE OF WALL. BACKFILL WITH DRAINAGE STONE.
  12. CONTINUE INSTALLATION OF WALL BLOCK COURSES AND BACKFILLING EACH COURSE WITH DRAINAGE STONE.
  13. INSTALL WALL CAP STONE. INSTALL NEW FENCE AT TOP OF WALL.
  14. PLACE 4" TOPSOIL ON DISTURBED AREAS. FERTILIZE SEED AND MULCH. SEED MIXTURE TO BE INSTALLED APRIL 15 - JUNE 1 OR AUGUST 15 - OCTOBER 1. USE EROSION CONTROL BLANKETS AS REQUIRED OR ORDERED FOR SLOPES GREATER THAN 3:1 AND AS SHOWN ON PLANS. FOR TEMPORARY STABILIZATION BEYOND SEEDING DATES USE ANNUAL RYE AT 4.0 LBS/1,000 S.F. FERTILIZE WITH 10-10-10 AT 1.0 LBS. OF NITROGEN PER 1,000 S.F. AND LIME AT 100 LBS/1,000 S.F. (MAX.).
  25. REPAIR ANY DAMAGE TO PATIO OR ADJACENT AREAS TO THE SATISFACTION OF THE ENGINEER AND/OR PROPERTY MANAGEMENT.
  28. UPON DIRECTION OF THE TOWN OF CANTON AGENT TO THE INLAND WETLAND AND WATERCOURSE AGENCY, EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED FOLLOWING STABILIZATION OF THE SITE.



**SITE ENLARGMENT**

SCALE: 1"=20'



THE SHOPPES AT FARMINGTON VALLEY  
ROUTE 44  
CANTON, CONNECTICUT

REVISIONS	Desc.	ADDED	CONSTRUCTION SEQUENCE
No. 1.	Date 12/23/15		

Designed	E.C.P.
Drawn	E.C.P.
Checked	
Approved	
Scale	1"=20'
Project No.	1502812
Date	10/05/15
CAD File:	SP120281201

Title  
**SITE PLAN**

Sheet No.

**SP-1**

12/23/2015, EPIKES, G. VORHIES, 1501202812 DWG, SP120281201 DWG, SP-1, 24x36, 200%

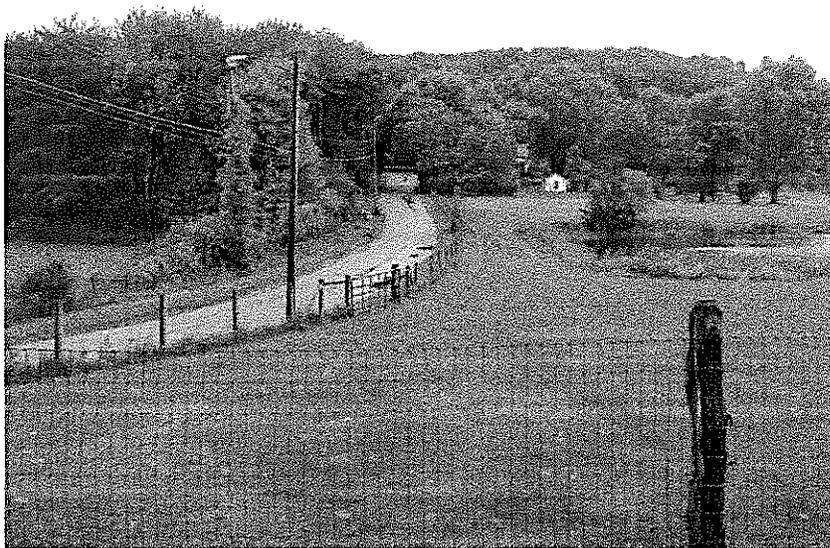
## Exhibit List

**File 12-15-1132;** 133 East Hill Road; Assessor's Map 23; Parcel 2490133; Zone R-3; Request for perimeter pond maintenance to removal existing cattails; Northeast Diving Services, applicant; Robert and Kathleen Hollis, owners

### List as of January 7, 2016

#### Correspondence

1. Town of Canton IWWA Permit Application for File 12-15-1132; 133 East Hill Road; Assessor's Map 23; Parcel 2490133; Zone R-3; Request for perimeter pond maintenance to removal existing cattails; Northeast Diving Services, applicant; Robert and Kathleen Hollis, owners
2. Copy of payment; check # 3143
3. Assessor's property card for 133 East Mountain Road
4. CRCOG map of 133 East Mountain Road; dated December 9, 2015
5. Letter to the Town of Canton from Mr. and Mrs. Hollis, authorizing Northeast Diving Services to act on their behalf regarding the permit process; dated November 13, 2015
6. List of abutters
7. Letter to the IWWA from Northeast Diving Services detailing the proposed work
8. Google Map of 121 East Mountain Road, which is adjacent to 133 East Mountain Road
9. Pictures of pond (5 pages total)







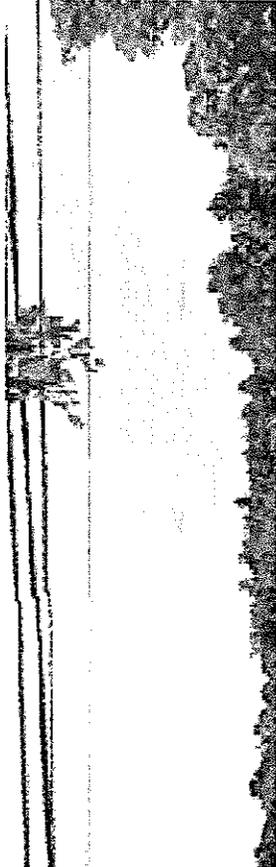




# Google Maps 121 E Mountain Rd



Imagery ©2015 DigitalGlobe, U.S. Geological Survey, Map data ©2015 Google 50 ft





# NORTHEAST DIVING SERVICES

3871 Danbury Road  
Brewster, New York 10509  
Phone: 860.799.6306  
Fax: 860.354.3340

Town of Canton  
Inland Wetlands Commission  
Canton, CT 06019

RE: 133 East Mountain Rd, Hollis Residence, Administrative Request for the immediate removal of cattails, a highly invasive wetland plant.

We are requesting the administrative permitting to perform pond maintenance for the removal and prevention of an invasive plant species, cattails, on aforementioned property.

The pond is need of immediate maintenance and removal of cattails along the perimeter of the pond. The cattails surround the majority of the pond and extend out towards the center in some areas. The type of removal method we will be using for this remediation is via excavator, retrofitted and configured to be used in wetland areas. Cattails have root structures that are tough in nature and extend between 4 and 6 feet in the surrounding area, and with multiple plants, these roots become entangled and difficult to remove if not treated soon. This heavy machinery can effectively cut, remove, and pull out these root systems to aid in the prevention of regrowth.

Upon start up, Erosion Control measures will be deployed around the affected areas of growth to aid in dewatering process of wet or frozen removal. These control measures include a 36" x 100' silt control fence and hay bales around root systems. The equipment we will be using during the operation includes a long reach excavator and a 5 yard dump truck. The following pages include photos and maps of the land that will show equipment placement areas and extracted waste area with access and disturbance areas from the property to the pond.

Any questions, comments, or concerns can be addressed to Matt at (860)799-6306 Ext. 16, or at [matt@northeastdivingservices.net](mailto:matt@northeastdivingservices.net), which a reply will be sent within 24-48 hours.

Respectfully Submitted,  
Richard Spring, Owner



# **NORTHEAST DIVING SERVICES**

3871 Danbury Road  
Brewster, New York 10509  
Phone: 860.799.6306  
Fax: 860.354.3340

Adjacent Property Owners  
133 E Mountain Rd.  
Canton, CT 06019

Ken Humphrey  
250 E Hill Rd  
Canton CT 06019

Ken Weiland  
244 E Hill Rd  
Canton CT 06019

Lorna Hall  
121 E Mountain Rd  
Canton CT 06019

November 13, 2015

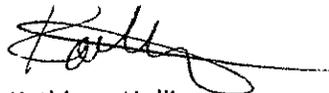
Town of Canton

Please let this letter serve as our authorization for representatives of Northeast Diving Services to act on our behalf regarding any permitting requests and issues relating to dredging and clean up services we have hired them to perform on the pond located on our property at 133 East Mountain Rd. If you have any questions please contact us at 693-2318. Also, as owners of the property, we hereby consent to necessary and proper inspections of the property that is subject to this application by agents of the Canton Inland Wetlands and Watercourses Agency at reasonable times, both before and after a final decision has been issued by this agency.

Thank you,



Robert Hollis



Kathleen Hollis

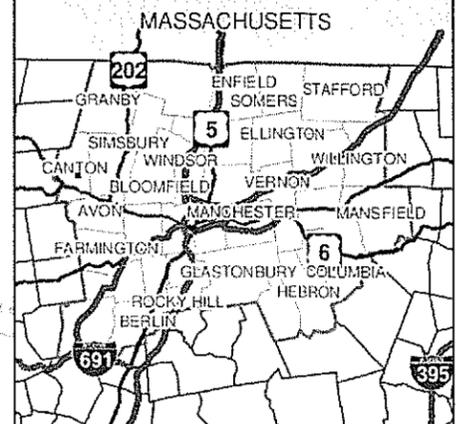
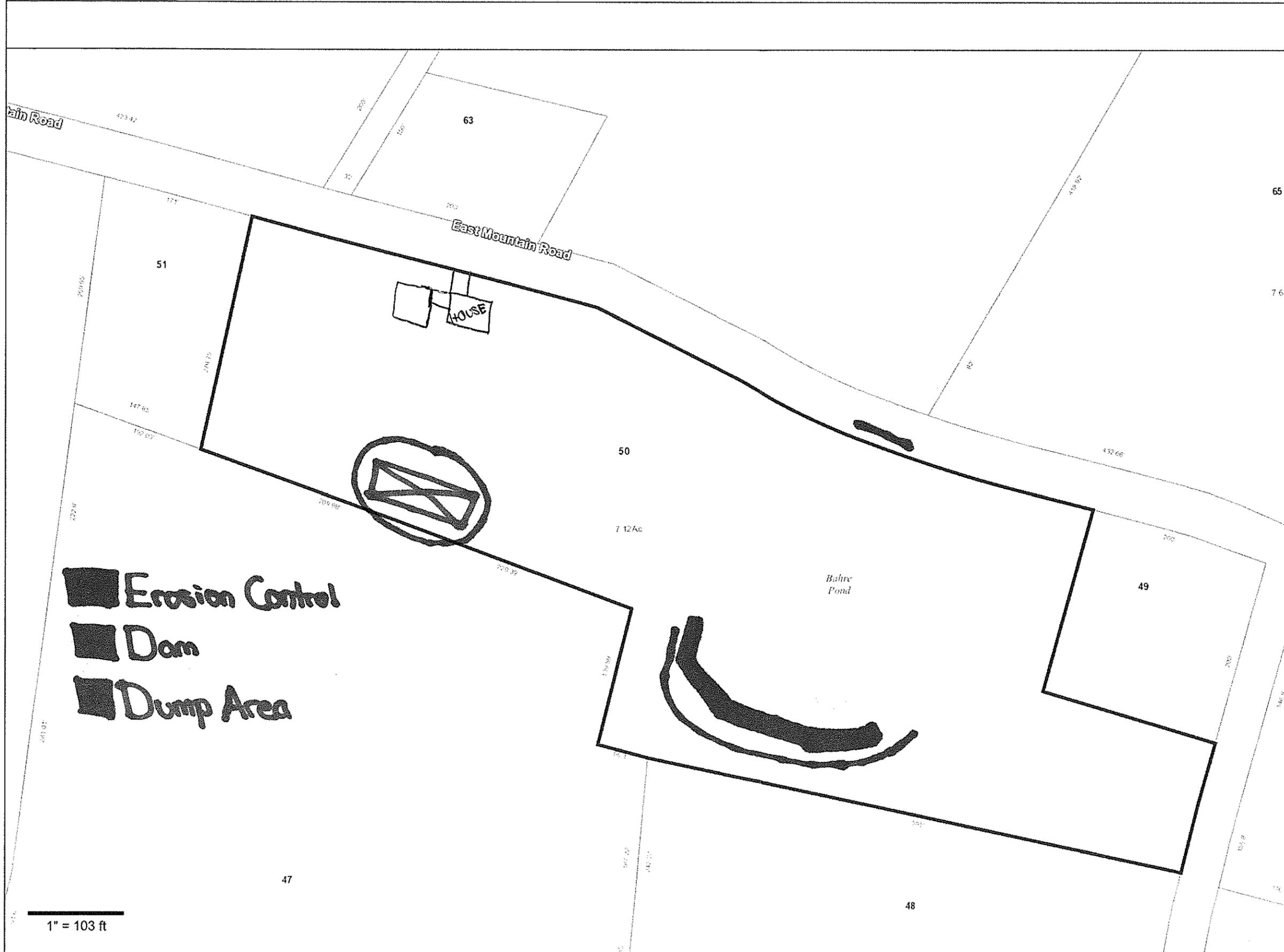
**Property Information**  
**Property ID** 09003023-2490133  
**Location** 133 EAST MOUNTAIN ROAD  
**Owner** HOLLIS ROBERT P &  
 HOLLIS KATHLEEN



**MAP FOR REFERENCE ONLY  
 NOT A LEGAL DOCUMENT**

CRCOG and AppGeo make no claims and no warranties, expressed or implied, concerning the validity or accuracy of the GIS data presented on this map.

Parcels updated October 1, 2013



**Administrative Information**  
 Owner name: HOLLIS ROBERT P &  
 Second name: HOLLIS KATHLEEN  
 Address: 133 EAST MOUNTAIN ROAD  
 City/state: CANTON CT      Zip: 06019

**Location Information**  
 Lot: 2490133 Map: 23      Neigh.:      Clerk map: Zone: AR-3      Callback? Vol: 402 Page: 841  
 Exemptions:      Last sale

Assmt category	Qty	Amount	Exempt	Cat	Amount	Sale date:
Resident Land	2.00	66,500				
Resident Dwelling	1.00	125,030				
Resident Excess	5.12	10,750				

**Utilities**  
 Summary      Water      Well      Septic      None  
 Total assessments      202,280  
 Total exemptions      202,280  
 Net assessment      0

**Values**  
 Mkt value:      288,970  
 Cost value:      Sales ratios  
 Cost/sale:      Mkt/sale:      Assmt/sale:

**Land Information**

Type	Use	Acres/Sqft	Rate	Total	Infl	Fact	Value	70% Value
PRIM	11	2,000	95,000				95,000	66,500
Primary Site		87,120						
RES	12	5,120	3,000				15,360	10,750
Residual		223,027						
				7.1200 acres			Total land value	110,360
								77,250

**Residential Dwelling Information**      Condominium

Subject	Code	Description	Story Height
Style	04	Colonial	2
Exterior Walls	04	Vinyl Siding	
Roof Material	01	Asphalt Shingles	
Roof Type	01	Gable	
Foundation	03	Field Stone	
Interior Walls	01	Plaster	
Floors	07	Hardwood/Carpet	
Heating System	01	Hot Water	
Fuel	02	Unknown	
Attic	02	Unfinished	
Grade	37	B-	
Garage	22	Attached 2 car	
Area Over Gar.	99	None	
Basement	01	Full	
Bsmt Fin Qual	01	Unfinished	
Air Condition	99	None	
Interior Cond	05	Good	
Exterior Cond	05	Good	
			Actual Year Built: 1900

**Building Valuation Summary**

Dwelling	Frame	2 story w/bsmt	Area	Value
Basement	Full		775	165,120
Heating	Yes	A/C No		
Plumbing	1 F/B	1 H/B	1 Add'l fix.	Wh/p
Attic	Unfinished			Saunas
Other Features	WB Stks	Unfin	3,500	2,900
Sub-Total				9,137
Grade	B-	Factor 1.1700		52,700
CDU	C&D	Factor 1.00		5,000
Depreciation		35 %		
				Computed cost value @ 70%
				234,857
				274,780
				274,780
				178,610
				125,030

**Building additions**

Category	Type	Area	Value
L Living Area	FRFF	84	6,800
P Porches, Patios, Decks	FOFF	350	15,000
P Porches, Patios, Decks	FEFF	120	8,100
G Garages	FRL	720	22,800
			Total additions
			52,700

3143

Security features. Details on back.



50-7098/2219  
BREWSTER, N.Y. 10808

12/14/2015

PAY TO THE ORDER OF  
Town of Canton

\$ \*\*160.00

DOLLARS

NORTHEAST DIVING SERVICES LLC

3871 DANBURY RD  
BREWSTER, NEW YORK 10509  
(860) 799-6306

One Hundred Sixty and 00/100  
Town of Canton  
4 Market Street  
Collinsville, CT 06022

MEMO

Administrative Permit



*[Handwritten Signature]*  
AUTHORIZED SIGNATURE

⑆003143⑆ ⑆221970980⑆ 800 6214580⑆

NORTHEAST DIVING SERVICES LLC

3143

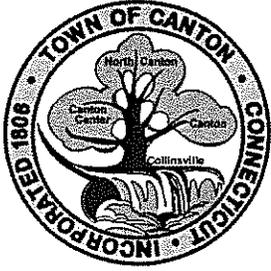
Town of Canton  
Date 12/14/2015  
Type Bill  
Reference 1214 160

12/14/2015  
Original Amt. 160.00  
Balance Due 160.00  
Discount  
Check Amount

Payment  
160.00  
160.00

Putnam County Savin Administrative Permit

160.00



**TOWN OF CANTON**

4 Market Street  
PO Box 168  
Canton, CT 06019

**CANTON TOWN HALL  
LAND USE OFFICE**

DEC 14 2015

Land Use Department  
(860) 693-7856  
(860) 693-7884 (fax)

DATE OF RECEIPT IN OFFICE

OFFICE USE ONLY		
FILE #: <u>12-15-1132</u>	FEE AMOUNT: <u>\$160.00</u>	CASH <input type="checkbox"/> CHECK <input checked="" type="checkbox"/> <u>3143</u>
DATE SUBMITTED: <u>12/14/15</u>		

**INLAND WETLANDS AND WATERCOURSES AGENCY (IWWA)**  
**PERMIT APPLICATION**

APPLICATION FEE: \$160.00 (includes \$60.00 State Surcharge)  
Please make checks payable to "Town of Canton"

**THIS APPLICATION CANNOT BE APPROVED UNTIL ALL REQUIRED INFORMATION IS PROVIDED  
AND ANY ADDITIONAL REQUIRED APPROVALS ARE OBTAINED.**

PLEASE PRINT LEGIBLY

Property Address: <sup>133</sup> East Mountain Rd, Canton CT

Assessor's Map: 23 Parcel: 2490133 Zone: R-3 Lot Size: 7.12 acres

Land Record Reference to Deed Description: Volume: 402 Page: 841

Property Owner: Bob \* Kathleen Hollis Phone: \_\_\_\_\_

Applicant/Agent: Northeast Diving Services Phone: (860) 799-6306

Mailing Address: 3871 Danbury Rd, Brewster NY 10509

Email Address: rick@northeastdivingservices.net

Contractor/Consultant: Northeast Diving Services Phone: (860) 799-6306

Mailing Address: 3871 Danbury Rd, Brewster NY 10509

Email Address: rick@northeastdivingservices.net

Describe existing uses: N/A

Describe proposed activity/purpose: To remove the infestation of Cat Tails  
around the perimeter of a pond located on the Owners property.

Describe how wetlands and watercourses will be disturbed: \_\_\_\_\_

Quantify earthwork in regulated area: Volume: \_\_\_\_\_  
Depth: \_\_\_\_\_  
Slope: \_\_\_\_\_

Total area of materials moved/removed/disturbed: \_\_\_\_\_ Percent of total area: \_\_\_\_\_

### SIGNIFICANT ACTIVITY INFORMATION

Complete this portion if your proposal is considered to be significant pursuant to Section 2.1 cc of the Canton IWWA Regulations. If you consider that your activity is not a Significant Activity, proceed to the signature page. All others complete this application in full. (Final determination of significance is reserved to the Wetlands Agency).

1. Describe further the general character of the land in sufficient detail to characterize the wetlands and watercourses, including soil types. Refer to any plans that may be enclosed: Existing pond with Cattail infestation
2. State the function that the wetlands/watercourses currently serve and the effect that the proposed activity may have on that function. Those functions should include surface and ground water quality, flood control, and wildlife habitat: Increasing Area of habitat, increasing quality, controlling mosquito habitats, and increasing quality of pond appearance.
3. State in more detail or by specific locations, depths to which removal or deposition operations are proposed and the percent of slope, including kinds of materials removed and/or deposited and sides of channels or excavations resulting from removal or filling operations: N/A
4. State manner in which material will be removed or deposited and /or in which any structure will be erected, and/or use carried out, including a description of the nature of the use proposed: We will be removing cattails via excavator, and disposing them on-site.
5. State the anticipated time and sequence of construction and length of construction period(s): 7-10 Days
6. List (or attach on a separate sheet) the titles of site plans, drawings, and cross-sections, with latest revision dates and any other reports that are part of this application and are accompanying this form: See Attachments
7. List (or attach on a separate sheet) all abutting property owners and downstream and down -gradient property owners as may be required. Give both names and addresses: See Attachments
8. Identify previous permits or certificates for existing activities on the property giving name and current address and phone number of the permit holder, dates of issuance and expiration of the permit, and the agency file number: N/A

**SUBMIT PLANS IN THE FOLLOWING FORMATS ONLY:**

1. 24" x 36"
2. 18" x 24"
3. 12" X 18"

Attach a site plan scaled at sufficient detail to show existing and proposed conditions, including maximum building areas relative to regulated areas, measures proposed to mitigate potential adverse impacts and a listing of soil types.

If considered a significant activity, you may be required to attach maps at prescribed scales showing the location of proposed activities, adjacent lands and regulated areas, upstream/downstream areas, property lines, roads and drives, existing buildings and utilities, topography, published and or found soil survey types, wetlands limits, watercourses and buffer areas, existing open space lands and private/public conservation easements, and types of vegetative cover. Consult the regulations for details.

Discuss why this proposal was chosen over any alternatives. List all alternatives (use separate sheet if necessary): Customer wants to avoid using chemical treatments on the pond because they don't want to harm wildlife in or near the pond.

**OWNER'S CONSENTING SIGNATURE:**

The undersigned, as owner of the property, hereby consents to necessary and proper inspections of the property that is subject to this application by agents of the Canton Inlands Wetlands and Watercourses Agency at reasonable times, both before and after a final decision has been issued by this Agency.

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date

**APPLICANT'S SIGNATURE:**

The undersigned is familiar with all of the information provided in this application and is aware that any permit obtained through deception, or inaccurate or misleading information, is subject to revocation. The applicant further understands that any violation of any provision of a permit may result in orders to cease and desist from any and all work at the site. If an agent's name has been specified as the primary contact person on the front of this application, the applicant authorized that agent to act on his/her behalf before the Canton Inland Wetlands and Watercourses Agency in matters regarding this application.

[Handwritten Signature]  
Signature

12-14-15  
Date

**REQUEST FOR WAIVERS**  
(Per IWWA Regulations effective 09/01/11)

In accordance with Section 7.11 of the Canton Inland Wetlands and Watercourses Agency Regulations, a request is made that the following application requirements be waived (check those section numbers requested for waiver):

\_\_\_\_\_ Section 7.4d (The geographical location and description of the land in sufficient detail to allow identification of the properties, the wetlands, the watercourses, the area to be disturbed – waiving only identification of soil types and wetland vegetation)

\_\_\_\_\_ Section 7.4e (3) (The purpose and description of the activity, proposed E&S controls management practices, mitigation measures – waiving only identification of measures to restore, enhance and create productive wetland or watercourse resources)

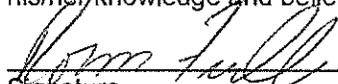
Section 7.4 g (Site plan on a scale of at least 1" = 40' showing proposed activity, existing and proposed conditions relating to wetlands and watercourses, associated or inevitable activity that may impact wetlands or watercourse)

\_\_\_\_\_ Section 7.4 h (Names and addresses of land owners within 100 feet of property boundary) N/A if significant impact activity determined or public hearing called.

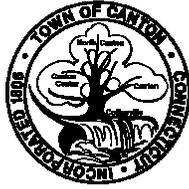
\_\_\_\_\_ Section 7.4m (Any other information the Agency deems necessary)

Section 7.5 f (Analysis of chemical or physical characteristics of any fill material)

The undersigned, as owner or duly authorized applicant, has reviewed the above information provided to the Canton Inland Wetlands and Watercourses Agency and certifies it is true and correct to the best of his/her knowledge and belief.

  
Signature

12-14-15  
Date



## **DRAFT MINUTES**

Regular Meeting

Canton Inland Wetlands and Watercourses Agency

December 10, 2015 at 7:00 p.m.

Library/Community Center, Room F

**CALL TO ORDER** – The regular meeting of December 10, 2015 was called to order at 7:03 p.m.

**PRESENT** – David Shepard, Al Bombassei, Robert Bahre, Richard Vandebogart and David Sinish

**ALSO PRESENT** – Assistant Town Planner Emily Anyzeski and Recording Secretary Loren Kiefer

**PUBLIC COMMENT NOT RELATED TO AGENDA ITEM** – None

**OLD BUSINESS** – None

### **NEW BUSINESS**

- 1. File 11-15-1130; 136 Barbourtown Road; Assessor's Map 14; Parcel 1190136; Zone R-3; Request for Jurisdictional Determination of Agricultural Use of Land/Non-Regulated Use for Timber Harvesting; Lansford Perry, applicant; Canton Land Conservation Trust, Inc., owner** – Mr. Shepard reviewed the Jurisdictional Determination to the attendees in relation to Mr. Perry's request, especially regarding the 'use of right' for timber harvest. The applicant is not the owner of the land; the application was completed and signed appropriately. Mr. Perry stated that many trees will remain in comparison to the actual number of trees to be cut; this is a select group of trees being cut on the 12.5 acres of land. Most of the land is upland. Current weather conditions continue to be good and dry with no flow of the intermittent watercourse which is an intermittent stream with a hard rock bottom. The proposed work will take no longer than two weeks if the weather conditions remain good. The access way is a hard dirt road and a sturdy access way, which comes from Spaulding Rd. and an old town road; there will be no tracking out of material onto the public road.

**MOTION:** D. Shepard moved to approve File 11-15-1130; 136 Barbourtown Road; Assessor's Map 14; Parcel 1190136; Zone R-3; Request for Jurisdictional Determination of Agricultural Use of Land/Non-Regulated Use for Timber Harvesting; Lansford Perry, applicant; Canton Land Conservation Trust, Inc., as it is an accepted activity under section 4.1A and subject to the application and approval by the agency. D. Sinish seconded the motion, which passed unanimously 5-0-0.

- 2. File 11-15-1131; 110 Albany Turnpike; Assessor's Map 36; Parcel 1010110; Zone B; Construction of a new gravity retaining wall; W/S Peak Canton Properties, LLC c/o Denise Robidoux, applicants; W/S Peak Canton Properties, LLC c/o WS Asset Management, Inc., owners** – Ms. Robidoux attended and spoke of the wall as in a state of crumbling, the wall directly borders the Dish & Dat restaurant and the Ben & Jerry's ice cream store. Mr. Emile Pierides of BL Companies attended and spoke of the wall as needing a gravity wall to be constructed directly in front of the current wall with drainage stone in between the walls (no concrete), and built as a flexible wall system. The new retaining wall will not be anchored into the original wall. The existing wall will not be taken out in order to avoid disturbing the current wetland review area and the building structures. The new wall will keep the current wall up and keep it from failing. The only excavation needed is to build an 18-inch deep trench with 9-inches of stone and the wall will be placed on top of the stone. In order to lower the blocks, the crane will be situated from the patio of the Dish & Dat restaurant. The patio has no current drainage and merely runs off the patio. The new trench will be 40-inches wide and narrows as the rocks go up. The new wall is allowed to move as it is flexible, and does not have to be below frost level. Each block is a few thousand pounds each, which are hollow blocks that get filled

with drainage stone. Mr. Bombassei and Mr. Bahre expressed concern about the geo-grid, and questioned what will ensure that a new wall will not need to be replaced again in a few years. Mr. Pierides and Ms. Robidoux said that there was a defect in some of the blocks in the original wall, where the blocks are deteriorating similar to sand due to a bad batch built roughly 15 years ago. Mr. Pierides said that the weight and gravity of the new all will keep the current wall from further deterioration. There will be a drain at the bottom of the new wall and leaks out into the deep end with a 4-inch pipe. The existing structure's drainage is unclear as to where the storm water goes. There is no drainage off the patio at this time, except for a pitched end to run off the wall. The current fence in place will be taken out.

The targeted start-date will not take place till early spring, 2016. The anticipated timeframe of the project will take a few weeks. Access to the length of the worksite is not confirmed as to how to remove and replace the soil. The site plan notes are largely in general terms and not in specifics. The work is out for bid with a contractor to be determined. A construction sequence is required.

**MOTION:** D. Shepard moved to receive 11-15-1131; 110 Albany Turnpike; Assessor's Map 36; Parcel 1010110; Zone B; Construction of a new gravity retaining wall; W/S Peak Canton Properties, LLC c/o Denise Robidoux, applicants; W/S Peak Canton Properties, LLC c/o WS Asset Management, Inc., owners, and to continue with a site-walk to take place by commissioners on January 5, 2016. D. Bahre seconded the motion, which passed unanimously 5-0-0.

## **OTHER BUSINESS**

### **1. Approval of Minutes of July 9, 2015, September 10, 2015 and November 12, 2015 –**

**MOTION:** Approval of Minutes

- a) July 9, 2015 Minutes approved as amended. Seconded by A. Bombassei, which passed unanimously 3-0-0. Mr. Shepard and Mr. Bahre abstained.
- b) September 10, 2015 Minutes approved as amended. Seconded by A. Bombassei, which passed unanimously 3-0-0. Mr. Sinish and Mr. Bahre abstained.
- c) November 12, 2015 Minutes approved as amended. Seconded by Mr. Bahre, which passed unanimously 4-0-0. Mr. Van de Bogart abstained.

### **2. Applications Received After Agenda Posted – None**

### **3. Authorized Agent – None**

### **4. Any Other Recent Enforcement Issues – None**

### **5. Freedom of Information (FOI) Class; February 3, 2016 at 7:00 p.m. – Ms. Anyzeski mentioned a reminder to all who are interested, to attend the meeting which will be held at the Town Hall.**

### **6. Staff Report –**

- a. Dog Park updated by Ms. Anyzeski. The trail head parking was noted as being limited on Dowd Avenue or Commerce Drive. Manure piles were discussed and will be further reviewed as State of CT statutes may take precedence. Wetlands, waste, the location and lack of the trail-head parking, and storage issues will be a factor going forward.
- b. Ms. Anyzeski provided an update on 310 Albany Turnpike, they completed the excavation, and getting ready for the winter months, including erosion control mats and removal of the silt fence.

**ADJOURNMENT – MOTION:** D. Shepard moved to adjourn the meeting at 9:19 p.m. A. Bombassei seconded the motion, which passed unanimously 5-0-0.

Respectfully Submitted,  
Loren Kiefer, Recording Secretary



# TOWN OF CANTON

FOUR MARKET STREET

P.O. BOX 168

COLLINSVILLE, CONNECTICUT 06022-0168

## OFFICE OF THE CHIEF ADMINISTRATIVE OFFICER

November 9, 2015

Mr. David Shepard,  
Chairman  
Canton Inland Wetlands and Watercourses Agency  
7 Pond View Drive  
Canton, CT 06019

**RE: 2015 Annual Report for the 2014-2024 Town of Canton Plan of Conservation and Development Implementation**

Dear Mr. Shepard,

It has been over a year since the implementation of the 2014-2024 Plan of Conservation and Development (POCD) began, and we are pleased to report positive efforts taken by both appointed and elected boards, community volunteers, and town staff. We would like to personally thank and recognize the efforts made by the Canton Inland Wetlands and Watercourses Agency in pursuing the implementation of the POCD.

This past July, the Board of Selectmen received the 2015 Annual Report of the 2014-2024 Plan of Conservation and Development, which has been included for your review. This report documents the progress that has been made over the past year and documented through routine meetings of the Plan Implementation Committee (PIC), outreach to all boards and commissions, and input from Town Staff.

Along with the Annual Report, we have included an updated implementation table that reflects the current status of measures specified for your Agency. While it is not expected every measure will be accomplished, it is expected that each one will be given due consideration, and those that can be accomplished will be pursued.

The PIC will be seeking further updates on your efforts to implement the POCD as part of your annual work program, and requests that an update be provided to the Land Use Office by March 31, 2016. It is recommended that POCD implementation be added to your agenda as a routine item for discussion/action.

The PIC and Board of Selectmen thank you for your time and cooperation.

Sincerely,

Robert Skinner  
Chief Administrative Officer

# POCD - IWWA as Lead Agency

Priority	Item	Description / Last Note	Status	Yearly Progress	Lead Agency	Primary Partners
O	NR9	Continue to review permits for disturbances in upland review areas of watercourses to protect the natural resource value of the watercourse.  ----- 08-Apr-2015: Continues to be implemented as standard operating procedure.	n/a	n/a	IWWA	CC, Town

# POCD - IWWA as Partner Agency

Priority	Item	Description / Last Note	Status	Yearly Progress	Lead Agency	Primary Partners
A	NR11	Develop fundamental updated storm water management (SWM) regulations for zoning and subdivision. Focus on treatment and volume of discharge in addition to peak discharge.  ----- 08-Apr-2015: Zoning Reg rewrite includes first Stormwater Management Regulations. It is expected that revisions will be necessary to comply with forthcoming MS4 General Permit issuance by CTDEEP.	P	Yes	PZC	IWWA, Town, FRWC, DEEP
A	NR12	Incorporate Low Impact Development (LID) techniques into SWM regulations for use where practical: a. Rain gardens, tree boxes, & depressed vegetated medians. b. Porous pavement. c. Gravel "wetlands" and wet ponds. d. Vegetated swales and buffers. e. Other best management practice (BMP) bioretention measures.  ----- 08-Apr-2015: Reference LID standards called out in new Zoning Regs. Some changes expected with new MS4 GP from CTDEEP.	P	Yes	PZC	IWWA, Town, FRWC, DEEP
A	NR15	Incorporate BMPs for steep slope management and design into regulations and standards.  ----- 08-Apr-2015: Regulations to this effect strengthened in Zoning Reg rewrite. Will be reviewed during Subdivision Reg rewrite.	P	Yes	PZC	IWWA, CC, Town
A	ED68	For all but the most basic applications, recommend a joint preliminary project review meeting between the applicant and staff to identify requirements and potential areas of concern.  ----- 15-Apr-2015: Land Use staff are presently informally including this strategy in meetings with PD & DPW; formal project review meetings have not been established.	D	Yes	Town	PZC, IWWA

Priority	Item	Description / Last Note	Status	Yearly Progress	Lead Agency	Primary Partners
<b>B</b>	NR1	Develop and maintain a comprehensive Natural Resources Inventory (NRI).  -----  08-Apr-2015: Strategies for continuing to refine and expand past work to create a more comprehensive NRI was discussed with CC on 2/18/2015; no new initiatives undertaken at that time.	H	No	CC	IWWA, Town, BOS, FRWC
<b>B</b>	NR7	Support priority recommendations of the Upper Mill Pond Master Plan identified on page 24 of the 'Strategic Component'.  -----  14-Jun-2015: Upper Mill Pond Master Plan recommendations to be considered individually as topics arise. Overall support varies for the different recommendatios.	H	No	BOS	CC, PRC, PMBC, Town, IWWA
<b>B</b>	NR20	Develop and enforce regulations on clear cutting in such core forest areas, limited to those activities carried out by a forester certified by the DEEP.  -----  20-Jun-2015: No action in FY 2014-2015.	NI	n/a	PZC	CC, IWWA, Town
<b>B</b>	NR22	Use public education programs (promote and extend DEEP education efforts) regarding: a. Use of pesticides and herbicides – damage to environment, organic options, avoid excessive use. b. Invasive species. c. Proper tree and forest management d. Dumping (including leaves) into storm drainage systems and water-courses e. Vehicle washing or maintenance where associated runoff waters may reach watercourses untreated. f. Other discharges to or diversions from watercourses, which are (or may be) harmful to those waters.  -----  08-Apr-2015: New initiatives identified and discussed between PIC and CC on 2/18/2015.	NI	n/a	CC	IWWA, Town, BOE

Priority	Item	Description / Last Note	Status	Yearly Progress	Lead Agency	Primary Partners
<b>B</b>	ED21	Consider allowing for increases in impervious and building coverage in areas identified as appropriate for mixed use and commercial development (with appropriate environmental and aesthetic safeguards).  -----  11-Apr-2015: Incorporated in 2014 Zoning Reg rewrite in limited form. Being developed further in Design Regulation project.	P	Yes	PZC	IWWA, BOS
<b>B</b>	F23	Recapture the riverfront presently occupied by the DPW Garage to increase public access and recreation.  -----  10-Jun-2015: Garage referendum failed; WPCA expansion plans conflict with this measure.	H	No	BOS	BOF, PRC, PMBC, PZC, IWWA, WPCA, Town, FRWC, RES
<b>C</b>	NR4	Perform a verification study of identified potential vernal pools.  -----  20-Jun-2015: No action in FY 2014-2015.	NI	n/a	CC	IWWA, Town, FRWC
<b>C</b>	NR5	Once vernal pools are verified and their ecologic functions are categorized, consider new regulations (or review procedures) as necessary to protect vernal pools found to be of significant ecological value.  -----  20-Jun-2015: No action in FY 2014-2015.	NI	n/a	CC	IWWA, PZC, Town
<b>C</b>	NR14	Investigate ways to (with reasonable burden to the property owner) encourage/ ensure adequate maintenance of installed stormwater management facilities.  -----  08-Apr-2015: General provision included in Zoning Reg rewrite.	P	Yes	PZC	IWWA, Town, FRWC, DEEP
<b>G</b>	CC8	Keep the preservation of rural character as a priority in the acquisition of open space.  -----  08-Apr-2015: No open space acquisition sought in 2014 - 2015.	n/a	n/a	CC	PZC, IWWA, Town, BOS, BOF, CLCT

Priority	Item	Description / Last Note	Status	Yearly Progress	Lead Agency	Primary Partners
<b>G</b>	CC9	Preserve farmland soils and working farms. ----- 08-Apr-2015: New initiatives identified and discussed between PIC and CC on 2/18/2015.	n/a	Yes	CC	PZC, IWWA, Town, BOS, BOF, CLCT
<b>G</b>	NR10	Support a proper balance and appropriate accommodation of the various natural resource values of the watercourses when such values may be in conflict. (i.e. – the provision of fish ladders through hydro-electric power generation. ----- 21-Jun-2015: RFPs issued for redevelopment of hydropower have included these environmental considerations as requirements.	n/a	Yes	BOS	IWWA, PZC, CC, PMBC, Town
<b>G</b>	ED18	Consider the redevelopment of the Collins Company site, in a manner which has a good balance of commercial to residential use, to be an incontrovertible priority to the Town economically. Take appropriate actions necessary to support its redevelopment. ----- 20-Jun-2015: Current development team have discussed possible tweaks to their approach to residential portion of future development with PZC.	n/a	n/a	BOS	EDA, PZC, IWWA, CoC, MST
<b>G</b>	ED37	Promote infill and redevelopment of existing sites to expand the tax base within existing developed areas while maintaining context sensitivity of the surrounding built environment and local character. ----- 11-Apr-2015: Relevant measures being included in the Design Regulation project.	n/a	Yes	PZC	EDA, IWWA, CoC, MST
<b>O</b>	NR2	Continue efforts to protect and preserve priority natural resources. (See Chapter 3.) ----- 08-Apr-2015: Expectations and potential on-going, as needed measures identified and discussed between PIC and CC on 2/18/2015; no new initiatives were undertaken.	n/a	n/a	CC	IWWA, Town, PZC

Priority	Item	Description / Last Note	Status	Yearly Progress	Lead Agency	Primary Partners
O	NR13	When significant modifications occur on existing sites, require that stormwater management controls be updated to reflect current standards and best management practices (BMPs) to practical extents.  ----- 08-Apr-2015: Required by new Zoning Regs (including for significant residential development). Some changes expected with new MS4 GP from CTDEEP.	n/a	Yes	PZC	IWWA, Town