

**INLAND WETLANDS COMMISSION
MINUTES
Regular Meeting of May 12, 2021 at 7:30 p.m.**

Zoom Meeting

Website link:

<https://zoom.us/j/91463555942>

Call-in Number: (929) 205-6099

Meeting ID: 914 6355 5942

These Minutes are subject to Approval by the Inland Wetland Commission

Present: Sharon Salling, Mike McCabe, Craig Ferris, Kendell Horch, Suzanne Guidera, Megan Thorn

Staff Present: Steve Maguire, Senior Land Use Enforcement Officer, Steve Hnatuk, Land Use Officer, Dawn Fried, Clerk

Ms. Salling opened the meeting at 7:31 p.m.

PENDING APPLICATION

Application IW #21-10 by J. Edwards & Associates, LLC for a property located at 178 Boggs Hill Road, Newtown, CT, for a stream crossing for driveway construction.

Jason Edwards, Engineer, J. Edwards & Associates, LLC, Easton, CT, represented the applicant.

Mr. Edwards gave an overview of the original site plans, which were approved in 2008. The previously approved subdivision is on 3.4 acres. Mr. Edwards stated the newly proposed application will realign the stream crossing as well as reduce the size. The original crossing was 45-ft. long with 800 sq. ft. of wetland disturbance in comparison to the newly proposed crossing which will be 25-ft. long with 500 sq. ft. of wetland disturbance.

The original approval was for an open-bottom box culvert rather than the newly proposed closed-bottom culvert. Mr. Edwards pointed out that the installation of the open-bottom culvert would have caused more disturbance during construction which would have impacted the wetlands. He also stated that the open-bottom culverts are harder to come by.

Mr. Edwards gave details of the closed-bottom culvert. The culvert will have an oval-shaped aluminum pipe placed six inches below grade with a six inch layer of rocky fill along the bottom. The rocky fill will serve as a natural path for wildlife. The closed-bottom culvert is constructed a little simpler with a headwall on each end and the pipe in the middle. The project will also meet all requirements for a 100-year storm event and will implement erosion, sediment and stabilization controls as previously approved.

The Commission discussed the trees. They would have preferred not cutting the larger trees on the stream bank but realized the applicant does not have a choice. Ms. Guidera also mentioned the

importance of the trees providing shade on the brook. The shade trees would positively impact the water temperature and Ms. Guidera would like to minimize the cutting of the trees. Ms. Guidera asked how many trees in total will be cut. Mr. Edwards did not have an exact number but will only cut trees directly on the path of the driveway.

Ms. Guidera asked whether the new culvert will have more or less of an impact on the wetlands. Mr. Edwards stated it will have significantly less.

Mr. Maguire wanted confirmation that the 52" pipe will accommodate the water going through the channel. Mr. Edwards confirmed that was correct.

Mr. Maguire and Mr. Hnatuk agreed less fill is better

Mr. Hnatuk asked what will be involved with the installation of the closed-bottom culvert. Will it need to be excavated? Mr. Edwards stated it will be graded as best they can and anything large will be removed. They will excavate the top few inches to meet grade which will maintain the natural flow of stream.

Mr. Maguire asked whether there is year-round flow or if the stream dries up during summer. Mr. Edwards assumed it was year-round flow. Mr. Maguire asked if there was a by-pass plan. Mr. Edwards stated they can provide one but ideally they would like to start the project during the dry period rather than divert the stream. Mr. Maguire would like to be apprised of the work before it starts and requested the applicant to contact the Land Use Agency.

Mr. Ferris moved to approve **Application IW #21-10 by J. Edwards & Associates, LLC**, for a property located at 178 Boggs Hill Road, Newtown, CT, for a stream crossing for driveway construction with standard conditions A, B, C, D, E, F, O & P. The approved plans are: Proposed Site Plan Lot 2, 178 Boggs Hill Road, Newtown, Connecticut, dated April 19, 2021. Ms. Thorn seconded. All in favor.

APPROVAL OF MINUTES

Special Meeting of April 27, 2021

The Commission found no substantive errors. Mr. McCabe moved to accept the minutes from April 27, 2021. Ms. Thorn seconded. Ms. Guidera abstained. All others in favor. The minutes from April 27, 2021 were approved.

ADJOURNMENT

With no additional business, Mr. Ferris moved to adjourn. Mr. McCabe seconded. All in favor. The meeting of May 12, 2021 was adjourned at 7:51 pm.

Respectfully Submitted, Dawn Fried

INLAND WETLANDS AND WATERCOURSE REGULATIONS
of the Town and Borough of Newtown, Connecticut

APPENDIX D

Permit / Permit Modification Application Form

(Please note: Failure to provide all of the information requested may result in your application being considered incomplete and rejected without prejudice by the commission.)

- ☐ Permit, or IW # 21-10
- ☐ Permit Modification (existing permit application # _____) or
- ☐ Request for Extension (existing permit application # _____)
1. Name of Applicant: JASON EDWARDS c/o J. EDWARDS & ASSOC., LLC
Address: 227 STEPNEY ROAD, EASTON CT 06612
Phone: (Home) _____ (Business) 203-268-4205
2. Owner's Name: JOSEPH NOVELLA
Address: 40 KAYVIEW AVENUE, BETHEL CT 06801
Phone: (Home) 203-240-9380 (Business) _____

Note: If applicant is not the property owner, the owner's written consent to the application must be attached to this application form.

3. Project Location: 178 Boggs Hill Road
Map: 14 Block: 8 Lot: 4.2 Newtown Tax Account # 00927766
- a. Is project located in the Aquifer Protection District? Yes _____ No ✓
If yes then the applicant must notify CTDPH as defined in P.A. 06-53
- b. Is the project located within a Public Water Supply Watershed? Yes _____ No ✓
If yes then the applicant must notify CTDPH as defined in P.A. 06-53
- c. Is the project located within 500 ft of the border with an adjoining municipality? Yes _____ No ✓
- d. List the current zoned use for which the proposed activity is to occur and present use:
Single family home

INLAND WETLANDS COMMISSION
ORIGINAL DOCUMENT

Received Date: 4 - 20 - 21

Received By: R 7

**INLAND WETLANDS AND WATERCOURSE REGULATIONS
of the Town and Borough of Newtown, Connecticut**

4. Quantitative Information:

- a. Wetland Soil Type(s): Leicester Soils
- b. Upland Soil Type(s): Charlton Soils
- c. Amount of wetlands proposed for alteration: 507 s.f. or 0.012 acres
- d. Amount in linear feet of stream proposed for alteration: 26 l.f.
- e. Amount of total area proposed for alteration: 34700 s.f. or 0.797 acres
- f. Amount of material to be removed or deposited in wetlands or watercourse: FILL 49 C.F.
- g. Amount of total material to be removed or deposited: FILL 1250 C.Y.

5. Describe the proposed activity and estimated time for completion of the project: _____
Drive crossing over existing stream and wetland area.

4. Describe the purpose of the proposed activity: _____
Access to new single family home.

PLEASE NOTE: The Commission may require additional data, information, or reports as it deems necessary in order to adequately evaluate the application. Signature of the applicant is a release for access to the parcel for all persons necessary to the determination of said application.

I have personally examined the information submitted in this document and certify that the information is true, accurate, and complete to the best of my knowledge. I understand that providing false information MAY BE PUNISHABLE AS A CRIMINAL OFFENSE in accordance with Section 22a-6 of the Connecticut General Statutes.

Submitted By: JASON EDWARDS
Printed


Signature

4-20-2021
Date

Office use only

Fee Received: _____ Date: _____ Receiving Individual: _____

MB Soil Mapping

Soil and Environmental Consulting

Marc B. Beroz
Phone & Fax (860) 349-3334

102 Creamery Road
Durham, CT 06422

Mr. Curtiss B. Smith, L.S.
Smith & Company
P.O. Box 996
Woodbury, CT 06798-0996

September 26, 2007

JOB NO. 07I25M2

Dear Mr. Smith:

RE: 176 BOGGS HILL ROAD, NEWTOWN, CT

At your request, I made an on-site investigation of the property located at 176 Boggs Hill Road in Newtown, Connecticut. The purpose of my visit was to identify the Connecticut inland wetland and watercourse boundaries. The field work was done on September 25, 2007.

The wetland boundaries are marked with blue flagging labeled MB 1 through MB 53. Please refer to the enclosed sketch for the approximate location of the inland wetland boundaries and key wetland flag numbers.

The soil map and narrative are a refinement of data contained in the Soil Survey of Fairfield County, Connecticut. The symbols on the sketch identify map units. Each map unit has a unique combination of soils. Areas with the same symbol have similar composition. The following map unit descriptions are based on the data collected at this particular site. For this reason, there may be some differences between these descriptions and map unit symbols and those provided in the soil survey report.

WETLAND SOILS

Map Unit Lc

The Lc map unit is composed primarily of Leicester soils. Slopes are dominantly 0 to 8 percent but range to 15 percent. Leicester soils are very deep, poorly drained and formed in loamy till. Typically they have a fine sandy loam or loam surface layer and subsoil over a friable fine sandy loam or sandy loam substratum. The substratum extends to a depth of 60 inches or more. Leicester soils have a high water table within 20 inches of the soil surface during the late fall through spring months.

Included in mapping are alluvial soils and soils that have been disturbed by prior land use activities.

NON-WETLAND SOILS

The non-wetland soils were not studied in detail. Observations were made of these soils only in the process of identifying the wetland sites. The following descriptions do not constitute a detailed soil survey, but may be used as an aid in site planning.

Map Units CnC and CnD

The CnC and CnD map units consist primarily of Charlton soils. Charlton soils are very deep, well drained and formed in loose till. Typically they have a fine sandy loam surface layer and subsoil over a friable fine sandy loam or sandy loam substratum that extends to a depth of 60 inches or more.

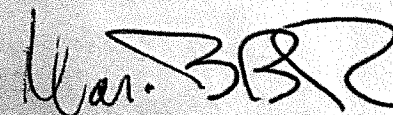
Included in mapping are moderately well drained soils and soils that have been disturbed by prior land use activities.

Slopes are dominantly 3 to 15 percent in map unit CnC and 15 to 35 percent in map unit CnD.

The identification of the soils on this site was based on field observations and the guidelines of the National Cooperative Soil Survey Program.

Please contact me if you have any questions.

Sincerely,

A handwritten signature in dark ink, appearing to read 'Marc B. Beroz', with a stylized flourish at the end.

Marc B. Beroz
Soil Scientist

176 BOGGS HILL ROAD
NEWTOWN, CT

MAP LEGEND

- APPROXIMATE LOCATION OF FLAGGED INLAND WETLAND BOUNDARIES
- OTHER SOIL MAP UNIT DELINEATION LINES
- Lc SOIL MAP UNIT SYMBOLS
- 53 APPROXIMATE LOCATION OF KEY INLAND WETLAND FLAGS
- INLAND WETLAND SOILS

MAP
UNIT
SYM

MAP UNIT NAME

Lc	Leicester extremely stony fine sandy loam, 0 to 8 percent slopes
CnC	Charlton extremely stony fine sandy loam, 3 to 15 percent slopes
CnD	Charlton extremely stony fine sandy loam, 15 to 35 percent slopes

STANDARD NOTES

- All construction methods, materials and installation of the system to be in accordance with all applicable local and state regulations.
- Topographic and property data shown are only approximate.
- Topographic data based on reference plan, property lines based on reference map.
- The test results and soil types shown apply only to the test holes shown and may vary throughout the site. Soil type and grade should be verified by the owner over the entire leaching area prior to construction.
- Select fill, if required, to be placed in maximum of 12" lifts and to be compacted to a minimum of 90% compaction. Material to have a maximum of 5% passing the #200 sieve. Prior to the delivery of select fill to the site, the contractor at his expense, shall furnish a certified gradation analysis to the local Health Department and to the Design Engineer. Final approval of septic fill will be conditional on the completion of a percolation test on the in-place material. This test is to be witnessed by the Design Engineer and/or local Health Department official. The maximum allowable percolation rate will be 1" in 10 minutes, unless otherwise noted.
- Unless otherwise directed hereon, the site requiring placement of select fill shall be prepared by removing all topsoil in the system area and 5 ft on all sides. No heavy equipment shall be used in the prepared area. Fill shall be placed on the perimeter of the trench area and spread with a small crawler, tractor or other approved machinery. Upon placement of the first lift of select fill, material shall be thoroughly harrowed into the existing subsoil layer.
- Call "Call Before You Dig" 1-800-922-4455 to locate underground utilities on property and show service lines to building from public utilities shown on plan.
- Contractor shall contact the certifying engineer and Health department at least 24 hours prior to starting construction, or the system installation will not be certified.
- Oil tank is to be installed inside proposed building.
- The licensed installer shall cover the septic system with clean soil as prescribed by the latest revision of Technical Standards. Clean soil is native soil, free of contaminants such as boulders, building debris, stumps, etc.
- Septic system to be staked by Engineer/Surveyor and benchmark set prior to starting construction.
- A sieve analysis of the septic fill is to be provided to the health district and design engineer verifying compliance to Health Code requirements prior to placement on site.
- Prior to backfilling septic system Engineer/Surveyor to asbuilt completed septic system and provide plan to health department.

SOIL TEST DATA TESTING PERFORMED ON DEC. 7, 2007 BY MARK S. RIEFENHAUSER, P.E. AND THE NEWTOWN HEALTH DEPARTMENT

Deep Test Holes	TP-104	Percolation Test Holes Log	P-101	P-102
TP-102 6' Topsoil 35' Red brown fine sandy loam w/ trace silt 82' Dark grey compact medium sand Roots to 34' Restrictive Layer @ 34' No Groundwater No Mottling	TP-104 8' Topsoil 32' Red brown silty loam w/ trace sand 82' Dark grey compact medium sand w/ small stones Roots to 32' Restrictive layer @ 32' No Groundwater No Mottling	P-101 Pre-soak @ 12:15pm Test @ 1:15pm PRESOAK TIME 1:00 Depth of holes 22 inches Time Reading 1:25 15 1/4 1:35 19 1/2 1:35 9 RESTART 1:45 14 1/4 1:55 17 3/5 2:05 20 2:15 21 3/4 Percolation Rate 1 7/6 minutes	P-102 Pre-soak @ 12:17pm Test @ 1:17pm PRESOAK TIME 1:00 Depth of holes 22 inches Time Reading 1:17 6 1/4 1:27 17 1/2 1:37 19 3/4 1:47 16 1/2 1:57 18 1/2 2:07 20 Percolation Rate 1 7/7 minutes	

DESIGN INFORMATION

577.5 SF OF LEACHING AREA REQUIRED FOR 4 BEDROOM HOUSE

585 SF OF LEACHING AREA PROVIDED.

90 lineal feet of MANTIS 536-8 LOWPRO UNITS required for proposed 4 bedroom house.

MLSS CALCULATIONS: Depth= 34" Slope= 12.5% HF= 20 FF= 1.75 PF= 1.0

MLSS = (HF) X (FF) X (PF) = 35'

AVERAGE DEPTH = $\frac{34'' + 36'' + 32''}{3} = 34''$

REFERENCE MAP:

"MASTER DEVELOPMENT & SUPPLEMENTAL MAP, TWO LOT SUBDIVISION. SCALE 1"=40'. AREA=5.4728 ACRES. PREPARED FOR JOSEPH NOVELLA, PROPERTY AT 176 BOGGS HILL ROAD, NEWTOWN, CT." DATED 4-1108, REVISED 9-8-08. PREPARED BY SMITH & COMPANY.

DRAINAGE COMPUTATIONS

DRIVEWAY CULVERT
178 BOGGS HILL ROAD
NEWTOWN CT

USE RATIONAL METHOD FOR 100 YEAR STORM

Q=CIA
DRAINAGE AREA =120 acres
C = 0.35
Tc = 34 min I (100yr) = 4.0
Q = 0.35 x 4.0 x 120 = 168cfs
1 5/4" HDPE Q=195cfs @ 1%

PIPE CAPACITY

USE CONTECH ALUMINUM ARCH PIPE
SIZE = 72" X 52"
FILL 6" OF BOTTOM OF CULVERT WITH APPROVED STONE FILL
PIPE AREA = 21.9sf
FILL = 2sf
USEABLE = 19.9sf
n = 0.024
P = 17.4
R = A/P = 1.092
S = 2%

Q = (1.49/n) (A) (R^{2/3}) (S^{1/2})

