

AUG 03 2023

TOWN OF WOODSTOCK
LAND USE DEPT.

Town of Woodstock
Inland Wetlands and Watercourses Agency
Application for Permit

For Agency Use Only	
Application Number <u>08-23-04</u>	Public Hearing Date (if required) _____
Application Fee <u>\$95</u> Paid _____	Date of Receipt _____
Date Filed <u>08-03-23</u>	Decision/Date _____

Applicant Instructions:

1. Please **Read** the Inland Wetlands and Watercourses Regulations.
2. Applicants may and are encouraged to hold a pre-application meeting with the Inland Wetlands Agent to examine the scope of a proposed activity or to determine if the proposed activity involves a "Significant Impact Activity" as defined in the Town of Woodstock Inland Wetlands and Watercourses Regulations.
3. Two (2) copies of all applicable completed application materials shall be submitted unless otherwise directed in writing by the Agency or its designated agent.
4. All sections of the application **MUST** be completed and submitted in order for the application to be deemed complete.

A.	
	1. Property address/geographical location of the site (map, block, lot): 41 Hiawatha Heights, (7272, 34, 0D8)
	2. Name of applicant: Sugato Mitra
	3. Home Address: 1957 Highland Dr State College, PA 16803
	4. Business address:
	5. Telephone: Home (860) 933 - 3096 Business
	6. Applicant's interest in the property: <input checked="" type="radio"/> Owner <input type="radio"/> Lessee <input type="radio"/> Lessor <input type="radio"/> Other (explain)
	7. Name of property owner (if not applicant):
	8. Home address:
	9. Business address:
	10. Telephone: Home Business Fax
B.	The purpose and description of the proposed activity and proposed erosion and sedimentation controls. Proposed construction of a new retaining wall along Lake Bungee along with drainage improvements. If additional space is needed, add and (Label Exhibit B)

<p>C. The geographical location of the property which is to be affected by the proposed activity, including but not limited to a description of the land in sufficient detail to allow identification of the inland wetlands and watercourses, and buffer area, a computation of the area(s) in acres or square feet of wetland or watercourses disturbance, soil type(s) and vegetation <i>(Label: Exhibit C)</i> see attached</p>		
<p>D. Alternatives considered by the applicant and why the proposal to alter wetlands set forth in the application was chosen. These alternatives shall be diagramed on a site plan or drawing and submitted to the Agency as part of the application <i>(Label: Exhibit D)</i> see attached</p>		
<p>E. A site plan showing existing and proposed conditions in relation to wetlands and watercourses and identifying any further activities associated with, or reasonably related to, the proposed regulated activity which are made inevitable by the proposed regulated activity and which may have an impact on wetlands or watercourses <i>(Label: Exhibit E)</i> see attached</p>		
<p>F. Names and mailing addresses of adjacent property owners <i>(Label: Exhibit F)</i> see attached</p>		
<p>G. Authorization for the members and Agents of the Agency to inspect the property, at reasonable times, both before and after a final decision has been issued <i>(Label: Exhibit G)</i> see attached</p>		
<p>H. A completed DEP reporting form; the agency shall revise or correct the information provided by the applicant and submit the form to the Commissioner of Environmental Protection in accordance with Section 22a-39-14 of the regulations of Connecticut state agencies <i>(Exhibit H)</i> see attached</p>		
<p>I. Submission of the appropriate filing fee based on the fee schedule established in Article Eleven (11) of these Regulations.</p>		
<p>J. Applicant certification that <i>(Exhibit J)</i>:</p>		
NO	1.	Any portion of the property on which the regulated activity is proposed is not located within five-hundred (500) feet of the boundary of an adjoining municipality;
NO	2.	Traffic attributable to the completed project on the site will not use streets within the adjoining municipality to enter or exit the site;
NO	3.	Sewer or water drainage from the project site will not flow through and impact the sewage or drainage system within the adjoining municipality; or
NO	4.	Water run-off from the improved site will not impact the streets or other municipal or private property within the adjoining municipality.
<p>K. Certification that the applicant is familiar with all the information provided in the application and is aware of the penalties for obtaining a permit through deception or through inaccurate or misleading information <i>(Exhibit K)</i></p>		
<p>L. Any other information the Agency deems necessary to the understanding of what the applicant is proposing <i>(Exhibit(s) L)</i></p>		
<p>M. Significant Impact Activities If the proposed activity involves a significant impact activity as determined by the Agency and defined in Article 6 of these Regulations the applicant must provide the following additional information:</p>		

Town of Woodstock Inland Wetlands and Watercourses Agency: **Application for Permit**

1.	Site plans for the proposed use or operation and the property which will be affected, which show existing and proposed conditions, wetland and watercourse boundaries, land contours, boundaries of land ownership, proposed alterations and uses of wetlands and watercourses, and other pertinent features of the development drawn by a Licensed Surveyor, Professional Engineer, or Landscape Architect registered in the State of Connecticut or by such other qualified person
2.	Engineering reports and analysis and additional drawings to fully describe the proposed project and any filling, excavation, drainage or hydraulic modifications to watercourses and proposed erosion and sedimentation control plan
3.	Mapping of soil types consistent with the categories established by the National Cooperative Soil Survey of the U. S. Soil Conservation Service (the Agency may require the applicant to have the wetlands delineated in the field by a Soil Scientist and have the field delineation incorporated onto the site plan)
4.	Description of the ecological communities and functions of the wetlands or watercourses involved with the application and the effects of the proposed regulated activities on these communities and wetland functions
5.	Description of how the applicant will change, diminish, or enhance the ecological communities and functions of the wetlands or watercourses involved in the application, and with each alternative, and a description of why each alternative considered was deemed neither feasible nor prudent
6.	Analysis of chemical or physical characteristics of any fill material
7.	Management practices and other measures which mitigate the impact of the proposed activity

NOTE: An application that requires local Inland Wetlands approval may also be regulated by the Federal Government under the Clean Water Act which is administered by the U. S. Army Corps of Engineers. Obtaining federal and/or state permits is a responsibility of the applicant as are any fines, penalties, and delays due to the applicant's failure to seek permits or to question their applicability to the proposed activity.

Department of the Army Corps of Engineers 696 Virginia Road Concord, MA. 01742-2751 Phone: 1-800-343-4789	State of Connecticut – D.E. E.P. Inland Water Resources Division 79 Elm Street Hartford, CT. 06106-5127 Phone: (860) 424-3019
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The undersigned applicant hereby consents to necessary and proper inspections of the above mentioned property by Agents of the Inland Wetlands Agency, at reasonable times, both before and after the permit in question has been granted by the Agent and /or the Agency.

The undersigned swears that the information supplied in the completed application is accurate, to the best of his knowledge and belief.



Signature of Applicant

August 1, 2023

Date Application Filed

Commission Action and Date: _____

**Notification to the Windham Water Works or Southbridge Public Water Supply or
Putnam Public Water Supply Watershed of Application for a Project within the
Noted Water Supply – Required by Public Act 89-301**

P.A. 89-301 "An Act Implementing the Recommendation of the Water Lands Task Force and Concerning Water Diversions and Notification to Water Companies of the Storage of Hazardous Materials," requires applicants to provide a water company written notice of an application, petition, request or plan if the proposed project is located within the watershed of the wetland, zoning or planning and zoning commission and zoning boards of appeal. **The applicant must mail such notice within seven (7) days of the date of the application, by certified mail, return receipt requested.** The Town of Woodstock furnishes this form to such boards and commissions in its watershed to be used by applicants to meet this requirement. Other forms or letters, as approved by each commission, may be used, but must contain the same information. To determine if a project is within one of the above-noted watersheds, please consult the map on file with the Commission or Town Clerk. **Failure of an applicant to comply with this law may be grounds for a legal appeal of a decision rendered on the applicant due to a procedural error. Do not jeopardize your application, send your notification!**

1. Application submitted to: Inland Wetlands Commission () Planning & Zoning Commission
() Zoning Board of Appeals
2. Type of Application: () Zone Change () Subdivision () Special Exception/Permit
() Variance () Other (Describe)

Name & Address of Applicant: Sugato Mitra, 1957 Highland Dr, State College, PA 16803

Project Street Location/Nearest Utility Pole 41 Hiawatha Heights

Contact Person Sugato Mitra Phone (860) 933 - 3096 Email _____

Brief description of application: (For example: several lot subdivision with on-site septic systems and wells)

New retaining wall constructed along Lake Bungee, with proposed drainage.

Public Hearing Date N/A Commission Meeting Date August 7, 2023

Enclose a copy of the application submitted to the Town and a full set of project plans. Mail this completed form or substitute by certified mail; return receipt request to the appropriate watersheds.

Windham Water Works
Superintendent
174 Storrs Road
Mansfield Center, CT 06250

Putnam Water & Sewer Department
Superintendent
126 Church Street
Putnam, CT 06260

Southbridge Water Dept., 70 Foster Street, Southbridge, MA 01550

Watershed or Aquifer Area Project Notification Form

REQUIREMENT:

Within seven days of filing, all applicants before a municipal Zoning Commission, Planning and Zoning Commission, Zoning Board of Appeals or Inland Wetlands Commission for any project located within a public water supply aquifer or watershed area are required by Public Act No. 06-53 of the CT General Statutes to notify The Commissioner of Public Health and the project area Water Company of the proposed project by providing the following information.

To determine if your project falls within a public water supply aquifer or watershed area visit the appropriate town hall and look at their *Public Drinking Water Source Protection Areas* map. If your project falls completely within or contain any part of a public water supply aquifer or watershed you are required to complete the following information.

Note: You will need information obtained from the *Public Drinking Water Source Protection Areas* map located in the appropriate town hall to complete this form.

Step 1: Have you already notified the CT Department of Public Health (CTDPH) of this project?

- No, Go to Step 2
- Yes, I have notified DPH under a different project name - Complete steps 4-6
- Yes, same name different year - Notification Year Complete steps 4-6

Step 2:

- 1. Name of public water supply aquifer your project lies within:
- 2. Name of the public water supply watershed your project lies within:
- 3. Public Water Supply Identification number (PWSID) for the water utility:

Step 3: For 1-5 Check all that apply

1. My project is proposing:

- Industrial use; Commercial use; Agricultural use; Residential use;
- Recreational use; Transportation improvements; Institutional (school, hospital, nursing home, etc.);
- Quarry/Mining; Zone Change, Please Describe:
- Other, Please describe:

2. The total acreage of my project is:

- Less than or equal to 5 acres Greater than 5 acres

3. My project site contains, abuts or is within 50 feet of a:

- Wetland; Stream; River; Pond or Lake

4. Existing use of my project site is:

Grassland/meadow; Forested; Agricultural; Transportation; Institutional (school, hospital, nursing home, etc.); Residential; Commercial; Industrial; Recreational; Quarry/Mining

Other Please Describe: _____

5. My project will utilize:

septic system; existing public sewer; new public sewer; agricultural waste facility;

existing private well; new private well; existing public water supply;

new public water supply, if new have you applied for a certificate of public convenience and necessity from DPH? Yes No

6. My project will contain this percentage of built up area (buildings, parking, road/driveway, pool): Less than or equal to 20% Greater than 20% to 50% Greater than 50%

Step: 4 Applicants Contact Information:

Name:

E-mail address:

Telephone:

Fax number:

Step 5: Please provide the following if available:

Project name:

Project site address:

Town:

Project site nearest intersection:

Project site latitude and longitude:

E-mail completed form to dph.swpmail@ct.gov



Statewide Inland Wetlands & Watercourses Activity Reporting Form

*Please complete this form in accordance with the instructions on pages 2 and 3 and mail to:
DEEP Land & Water Resources Division, Inland Wetlands Management Program, 79 Elm Street, 3rd Floor, Hartford, CT 06106
Incomplete or incomprehensible forms will be mailed back to the inland wetlands agency.*

PART I: Must Be Completed By The Inland Wetlands Agency

1. DATE ACTION WAS TAKEN: year: _____ month: _____
2. ACTION TAKEN (see instructions - one code only): _____
3. WAS A PUBLIC HEARING HELD (check one)? yes no
4. NAME OF AGENCY OFFICIAL VERIFYING AND COMPLETING THIS FORM:
(print name) _____ (signature) _____

PART II: To Be Completed By The Inland Wetlands Agency Or The Applicant

5. TOWN IN WHICH THE ACTIVITY IS OCCURRING (print name): Woodstock
does this project cross municipal boundaries (check one)? yes no
if yes, list the other town(s) in which the activity is occurring (print name(s)): _____
6. LOCATION (see instructions for information): USGS quad name: Eastford or number: 27
subregional drainage basin number: 3201-00
7. NAME OF APPLICANT, VIOLATOR OR PETITIONER (print name): Sugato Mitra
8. NAME & ADDRESS OF ACTIVITY / PROJECT SITE (print information): 41 Hiawatha Heights, Woodstock, CT
briefly describe the action/project/activity (check and print information): temporary permanent description: _____
Proposed construction of a new retaining wall, along Lake Bungee, permit required for work within wetland.
9. ACTIVITY PURPOSE CODE (see instructions - one code only): A
10. ACTIVITY TYPE CODE(S) (see instructions for codes): 2, 12, _____, _____
11. WETLAND / WATERCOURSE AREA ALTERED (see instructions for explanation, must provide acres or linear feet):
wetlands: 0 acres open water body: 0 acres stream: 0 linear feet
12. UPLAND AREA ALTERED (must provide acres): 0.1 acres
13. AREA OF WETLANDS / WATERCOURSES RESTORED, ENHANCED OR CREATED (must provide acres): 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

August 2, 2023

Town of Woodstock
Inland Wetlands Commission

RE: Job #22279 Project Narrative for
Proposed Drainage Improvements
And New Retaining Wall at
41 Hiawatha Heights

Dear Commissioners:

J&D Civil Engineers has been hired by Sugato Mitra, the owner of 41 Hiawatha Heights, to design some drainage improvements and an addition to an existing retaining wall. The site is located on the eastern shore of Lake Bungee, and is known as Lot 0-D8. The property is approximately 0.3 acres in size, and includes an existing single family residence. The property has around 150 feet of shoreline in total. There is a poured concrete retaining wall that runs along the majority of the shoreline. This retaining wall does not appear to have the appropriate grading or drainage behind it, and the wall starting to tilt outwards into the lake. The retaining wall is approximately 4 feet tall and 10 inches thick, and the top of the wall overhangs the base by 3-4 inches. Please see the images below for more information.

The owner would like to re-grade his yard to include a gentle swale, to direct surface runoff to the east, away from the retaining wall. He is also proposing to add lightweight, free draining backfill material behind the wall, and to drill a series of weep holes in the wall. By redirecting surface runoff and allowing groundwater to bleed through the wall, this will relieve hydrostatic pressure and prevent any additional rotation or displacement of this wall. Due to the proximity of the leach field, a groundwater drain with perforated pipe cannot be constructed here. Please see the attached site plan for more information.

Lastly, the owner is proposing to replace a rock revetment on the shoreline near the northeast corner of the site. Currently, this area contains a rock revetment which is in poor condition and crumbling into the lake. The owner would like to remove these boulders and construct a new segmental block wall. This new retaining wall will be 25 feet long and 3 feet high, and will be constructed from interlocking concrete blocks such as Versa-Lok or Redi-Rock. This construction will be performed in the early winter, when the lake has been lowered. Silt fence will be installed just downhill of any proposed excavation or earth disturbance.

For this project, the high water mark of the lake is assumed to be the limit of wetland soils. A licensed soil scientist has not performed a delineation for this project. There are no expected impacts to wetlands or watercourses as a result of this project. We look forward to working with the commission to get this project approved.

Sincerely,

Daniel Blanchette, PE
J&D Civil Engineers LLC



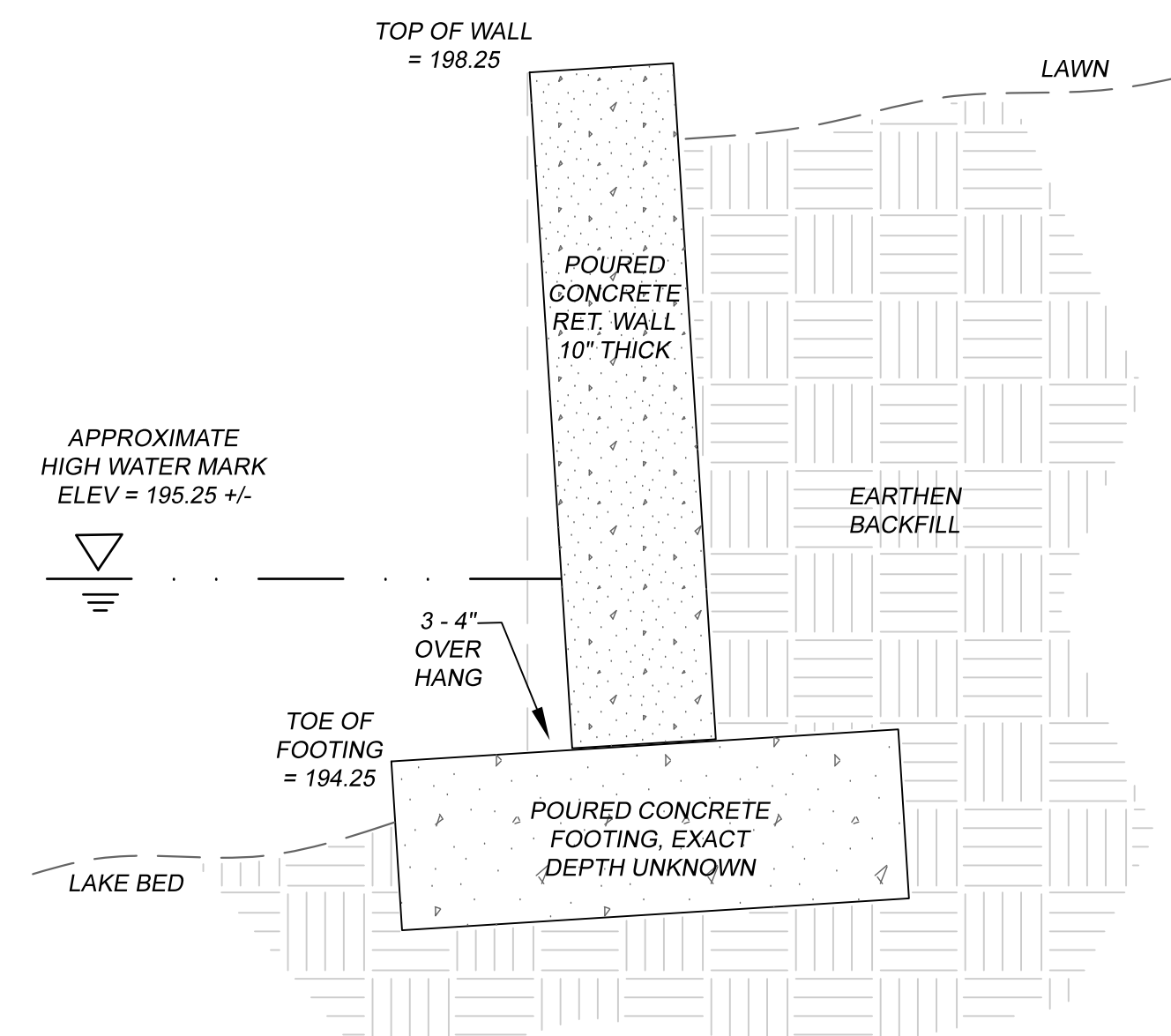
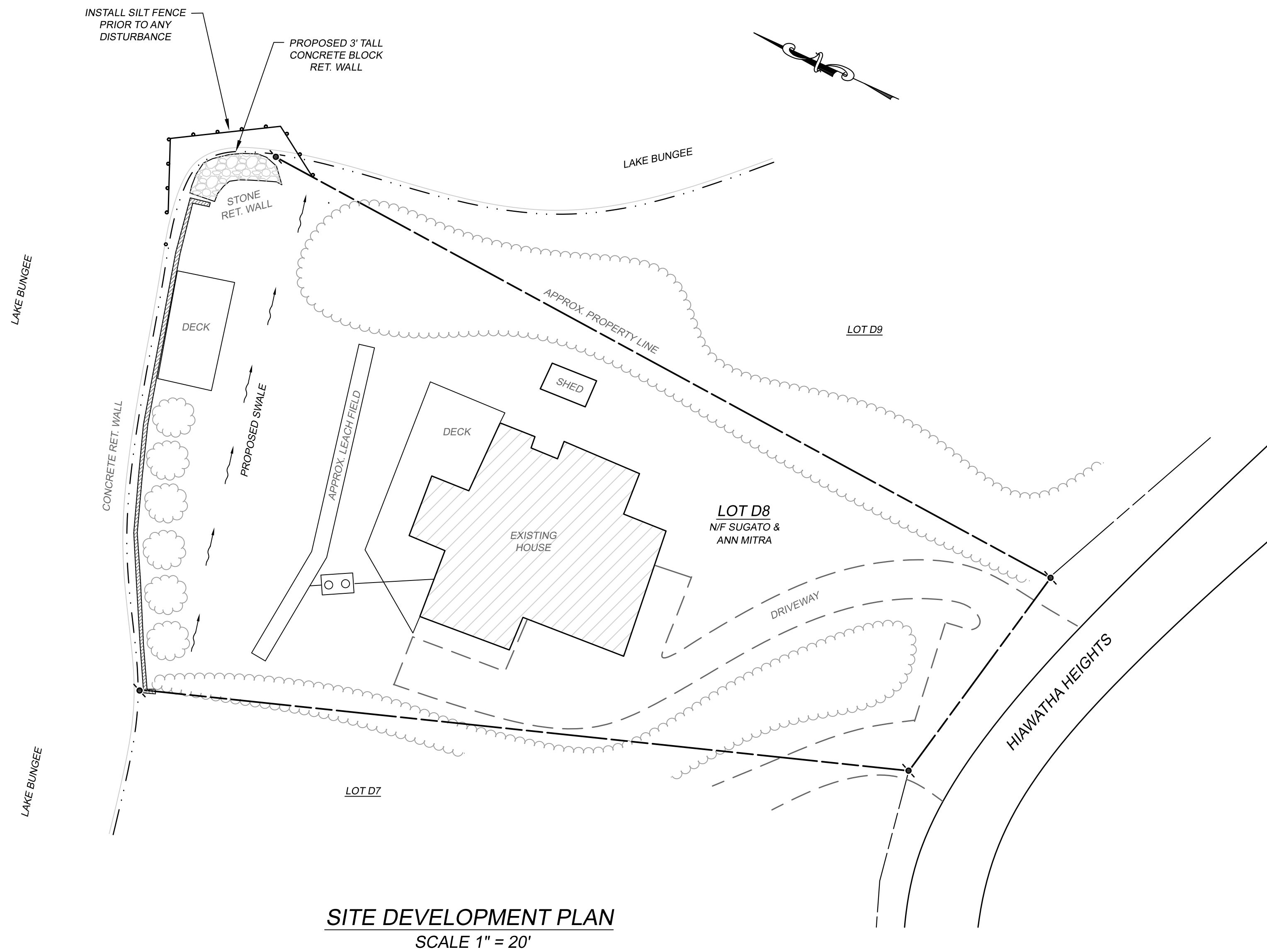
Image 1 – Poured Concrete Wall, Front View



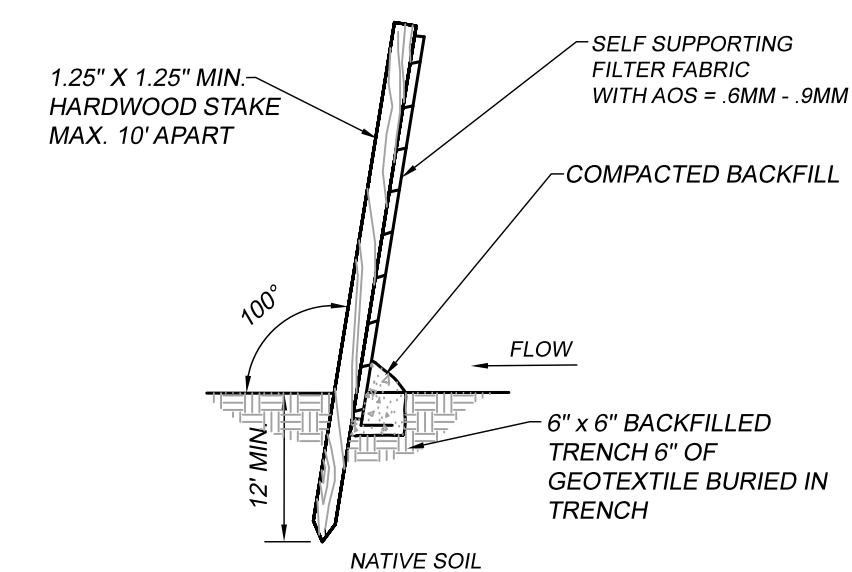
Image 2 – Poured Concrete Wall, Side View



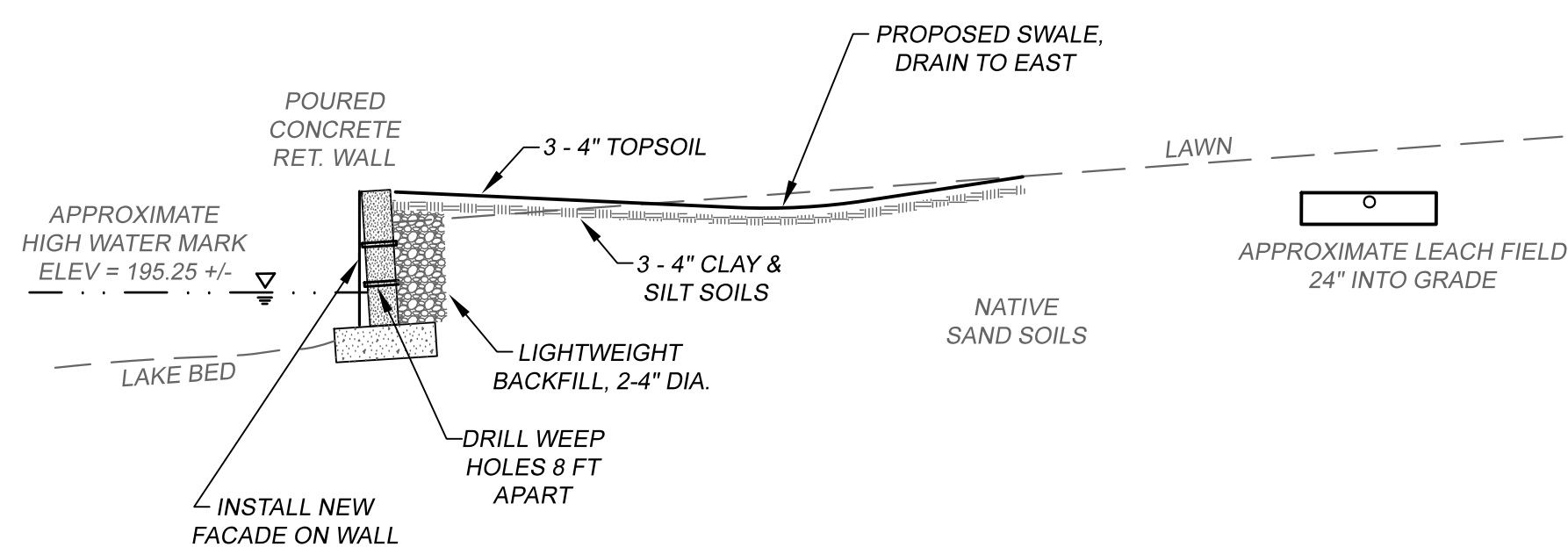
Image 3 – Rock Revetment



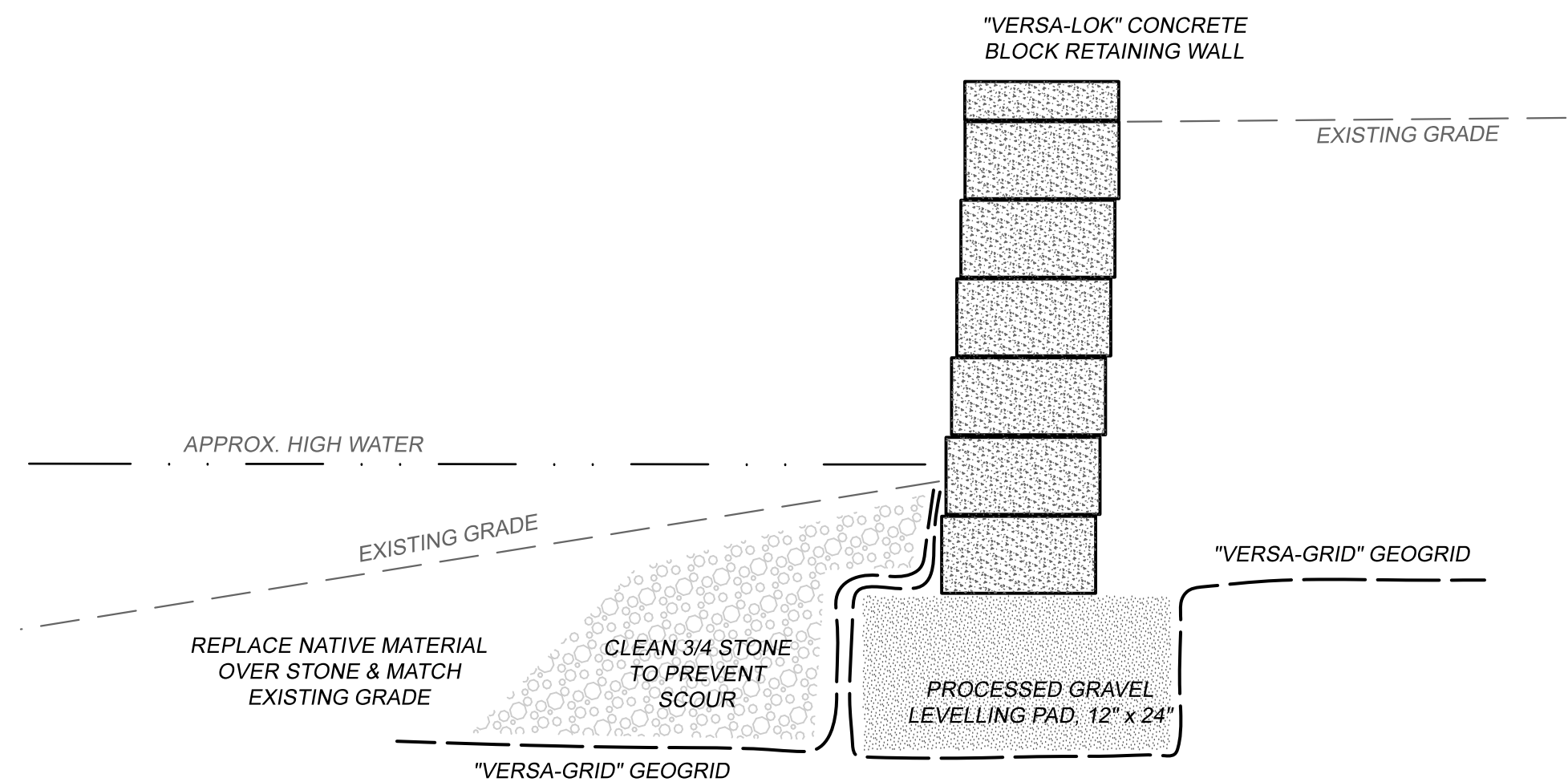
CROSS SECTION FOR EXISTING RETAINING WALL
SCALE 1" = 1'



SILT FENCE INSTALLATION
NOT TO SCALE



CROSS SECTION FOR DRAINAGE IMPROVEMENTS
SCALE 1" = 5'



CROSS SECTION FOR PROPOSED BLOCK WALL
SCALE 1" = 1'

SURVEY NOTES

1. THIS MAP HAS BEEN PREPARED PURSUANT TO THE REGULATIONS OF CONNECTICUT STATE AGENCIES SECTIONS 20-300b-1 THROUGH 20-300b-20 AND THE "STANDARD FOR SURVEYS AND MAPS IN THE STATE OF CONNECTICUT" AS ADOPTED BY THE CONNECTICUT ASSOCIATION OF LAND SURVEYORS, INC. ON SEPTEMBER 26, 1996.

SURVEY TYPE: GENERAL LOCATION AND TOPOGRAPHIC

BOUNDARY DETERMINATION CATEGORY: NONE

HORIZONTAL ACCURACY: CLASS B

VERTICAL ACCURACY: CLASS T2

PURPOSE: TO OBTAIN A WETLAND PERMIT FOR RETAINING WALL CONSTRUCTION

BOUNDARY LINES DO NOT EXPRESS A BOUNDARY OPINION.

TO MY KNOWLEDGE AND BELIEF, THIS MAP IS SUBSTANTIALLY CORRECT AS NOTED HEREON.

DENNIS BLANCHETTE DATE 12/10/23 LICENSE #

THIS MAP IS NOT VALID WITHOUT A LIVE SIGNATURE
© 2023 J&D CIVIL ENGINEERS, LLC

EROSION AND SEDIMENT CONTROL NOTES:

1. THE PROPOSED ACTIVITY ON THE SITE WILL CONSIST OF REGRADING OF THE YARD, INSTALLATION OF PERVIOUS BACKFILL, AND CONSTRUCTION OF A NEW RETAINING WALL ALONG THE SHORELINE OF LAKE BUNGEE
2. EROSION CONTROL DEVICES MUST BE INSTALLED WHERE INDICATED ON THIS SHEET PRIOR TO THE START OF CONSTRUCTION.
3. DISTURBED AREAS SHALL BE KEPT TO A MINIMUM AND SEEDED OR STABILIZED WITH TEMPORARY MULCH AS SOON AS FINAL GRADES HAVE BEEN ATTAINED.
4. THE OWNER OF RECORD SHALL DESIGNATE THE ON SITE ENVIRONMENTAL AGENT RESPONSIBLE FOR REGULARLY CHECKING THE CONDITION OF THE EROSION CONTROL DEVICES AND REMOVING ACCUMULATED SEDIMENT.
5. ALL CONSTRUCTION SHALL OCCUR DURING THE WINTER DRAWDOWN PERIOD WHEN THE LAKE LEVEL IS SIGNIFICANTLY LOWERED.

LEGEND

- BUILDING SETBACK LINE
- PROPERTY LINE
- STONEWALL
- UTILITIES
- TREELINE
- EROSION CONTROL DEVICES
- LEACHING TRENCH

SITE DEVELOPMENT PLAN
PREPARED FOR
SUGATO MITRA
41 HIAWATHA HEIGHTS, WOODSTOCK, CT
MAP 7272 BLOCK 34 LOT D8

J&D CIVIL ENGINEERS, LLC
401 RAVENELLE ROAD
N. GROSVENORDALE, CT 06255
860-923-2920

DESIGNED: **DDB**
CHECKED: **JJB**

REVISIONS:

JOB NO: 22279 DATE: AUGUST 2, 2023

SCALE: AS NOTED SHEET: 1 OF 1