

**Submittal Platform for WPA Form 1 - Request for
Determination of Applicability**

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

A. General Information

1. Project Location:

a. Street Address 67 PINE TREE DRIVE

b. City/Town HAMILTON c. State MA d. Zip Code 01982

e. Latitude 42.61716 N f. Longitude 70.89482 W

g. Map/Plat # 54 h. Parcel/Lot # 17

i. Project Description REPLACING THE EXISTING SEPTIC SYSTEM

2. Applicant:

a. First Name BRUCE b. Last Name MCFARLAND

c. Organization _____

d. Mailing Address 67 PINE TREE DRIVE

e. City/Town HAMILTON f. State MA g. Zip Code 01982

h. Phone Number 978-609-0320 i. Email bmcfarland2@comcast.net

3. Property Owner:

more than one owner

a. First Name BRUCE b. Last Name MCFARLAND

c. Organization _____

d. Mailing Address 67 PINE TREE DRIVE

e. City/Town HAMILTON f. State MA g. Zip Code 01982

h. Phone Number 978-609-0320 i. Email bmcfarland2@comcast.net



Massachusetts Department of Environmental Protection
Bureau of Water Resources - Wetlands

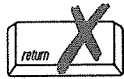
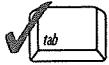
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Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Municipality _____

A. General Information

Important:
When filling out forms on the computer, use only the tab key to move your cursor - do not use the return key.



1. Applicant:

Bruce	McFarland
First Name	Last Name
67 Pine Tree Drive	
Address	
South Hamilton	MA
City/Town	State
978-609-0320	01982
Phone Number	Zip Code
bmcfarland2@comcast.net	
Email Address	

2. Property Owner (if different from Applicant):

_____	_____
First Name	Last Name

Address	
_____	_____
City/Town	State
_____	01982
Phone Number	Zip Code

Email Address (if known)	

3. Representative (if any)

_____	_____
First Name	Last Name

Company Name	

Address	
_____	_____
City/Town	State
_____	01982
Phone Number	Zip Code

Email Address (if known)	

B. Project Description

1. a. Project Location (use maps and plans to identify the location of the area subject to this request):

67 Pine Tree Drive	South Hamilton
Street Address	City/Town
_____	_____
Latitude (Decimal Degrees Format with 5 digits after decimal e.g. XX.XXXXX)	Longitude (Decimal Degrees Format with 5 digits after decimal e.g. -XX.XXXXX)
_____	_____
Assessors' Map Number	Assessors' Lot/Parcel Number
_____	_____

How to find Latitude and Longitude

and how to convert to decimal degrees

b. Area Description (use additional paper, if necessary):

c. Plan and/or Map Reference(s): (use additional paper if necessary)

_____	_____
Title	Date
_____	_____
Title	Date



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Hamilton
Municipality

B. Project Description (cont.)

2. a. Activity/Work Description (use additional paper and/or provide plan(s) of Activity, if necessary):

Replacing the existing septic system because the old system failed title 5 inspection.

- b. Identify provisions of the Wetlands Protection Act or regulations which may exempt the applicant from having to file a Notice of Intent for all or part of the described work (use additional paper, if necessary).

The new system tank is outside the 50 foot buffer zone and the new leaching field is outside the 100 foot buffer zone.

3. a. If this application is a Request for Determination of Scope of Alternatives for work in the Riverfront Area, indicate the one classification below that best describes the project.

- Single family house on a lot recorded on or before 8/1/96
- Single family house on a lot recorded after 8/1/96
- Expansion of an existing structure on a lot recorded after 8/1/96
- Project, other than a single-family house or public project, where the applicant owned the lot before 8/7/96
- New agriculture or aquaculture project
- Public project where funds were appropriated prior to 8/7/96
- Project on a lot shown on an approved, definitive subdivision plan where there is a recorded deed restriction limiting total alteration of the Riverfront Area for the entire subdivision
- Residential subdivision; institutional, industrial, or commercial project
- Municipal project
- District, county, state, or federal government project
- Project required to evaluate off-site alternatives in more than one municipality in an Environmental Impact Report under MEPA or in an alternatives analysis pursuant to an application for a 404 permit from the U.S. Army Corps of Engineers or 401 Water Quality Certification from the Department of Environmental Protection.

- b. Provide evidence (e.g., record of date subdivision lot was recorded) supporting the classification above (use additional paper and/or attach appropriate documents, if necessary.)



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C. Determinations

1. I request the _____ make the following determination(s). Check any that apply:
Conservation Commission

a. whether the **area** depicted on plan(s) and/or map(s) referenced above is an area subject to jurisdiction of the Wetlands Protection Act.

b. whether the **boundaries** of resource area(s) depicted on plan(s) and/or map(s) referenced above are accurately delineated.

c. whether the **Activities** depicted on plan(s) referenced above is subject to the Wetlands Protection Act and its regulations.

d. whether the area and/or Activities depicted on plan(s) referenced above is subject to the jurisdiction of any **municipal wetlands' ordinance or bylaw** of:

Hamilton
Name of Municipality

e. whether the following **scope of alternatives** is adequate for Activities in the Riverfront Area as depicted on referenced plan(s).

D. Signatures and Submittal Requirements

I hereby certify under the penalties of perjury that the foregoing Request for Determination of Applicability and accompanying plans, documents, and supporting data are true and complete to the best of my knowledge.

I further certify that the property owner, if different from the applicant, and the appropriate DEP Regional Office were sent a complete copy of this Request (including all appropriate documentation) simultaneously with the submittal of this Request to the Conservation Commission.

Failure by the applicant to send copies in a timely manner may result in dismissal of the Request for Determination of Applicability.

Signatures:

I also understand that notification of this Request will be placed in a local newspaper at my expense in accordance with Section 10.05(3)(b)(1) of the Wetlands Protection Act regulations.

Bruce McFarland

Bruce McFarland

11/13/24

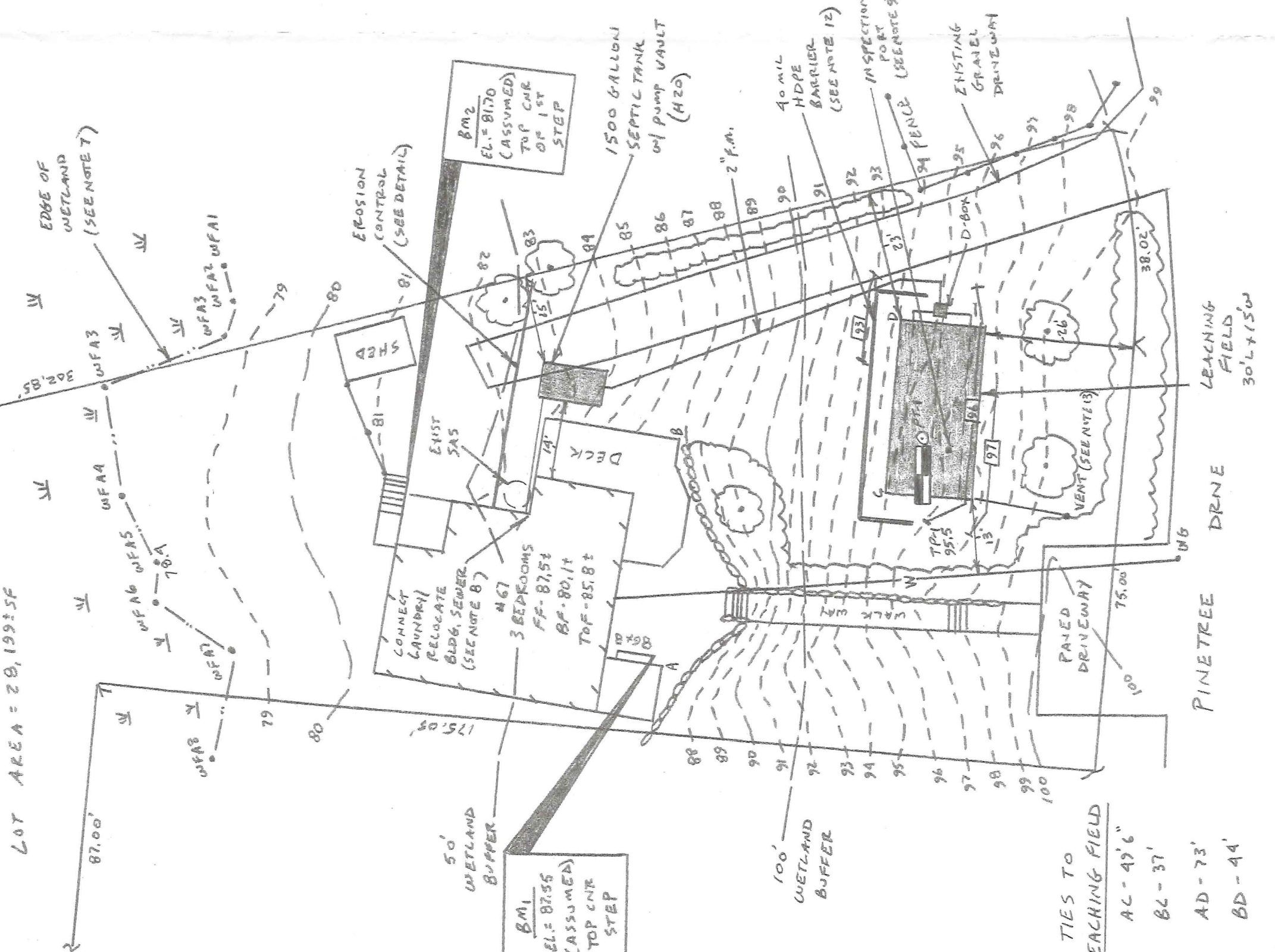
Signature of Applicant

Date

Signature of Representative (if any)

Date

PLAN OF SEPTIC SYSTEM
SCALE: 1" = 20'
LOT AREA = 20,199.5 SF



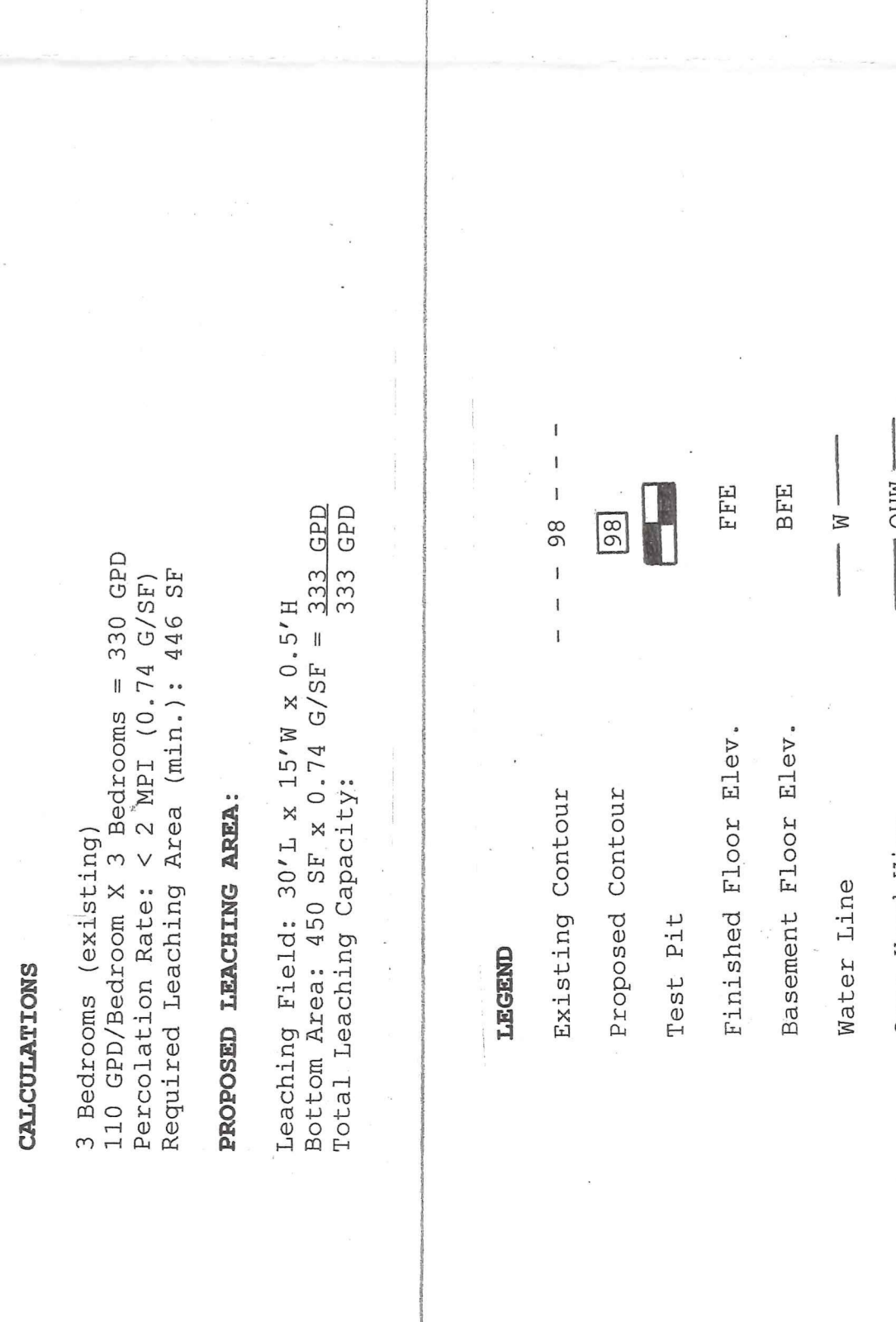
PUMP CALCULATIONS
Static Head Loss: 92.88 - 76.00 = 16.88'
Dynamic Head Loss: 67'L x 0.2/100' = 0.13' @ 10 GPM (2" SCH 40 F.I.M.)
Total Dynamic Head Loss: 16.88' + 0.13' = 17.01' @ 10 GPM
Model: Orenco (Model PF100511), 1/2 HP, 115 Volt, 1 Phase

FLOW SWITCHES
High Level Alarm: 41"
Pump On: 40"
Pump Off: 39"

Reference elevations from bottom of tank
- 24 Hr. Capacity: 332 Gallons
- (10.37' L x 5.17' W x 0.83' H) x 7.48 G/SF = 332 Gallons
- Back Flow: 11 Gallons
- Dosing 15 Times/Day at 33 Gal./Dose (includes backflow)

CALCULATIONS
3 Bedrooms (existing)
110 GPD/Bedroom x 3 Bedrooms = 330 GPD
Percolation Rate: < 2 WPI (0.74 G/SF)
Required Leaching Area (min.): 446 SF

PROPOSED LEACHING AREA:
Leaching Field: 30' L x 15' W x 0.5' H
Bottom Area: 450 SF x 0.74 G/SF = 333 GPD
Total Leaching Capacity:



TEST PIT DATA

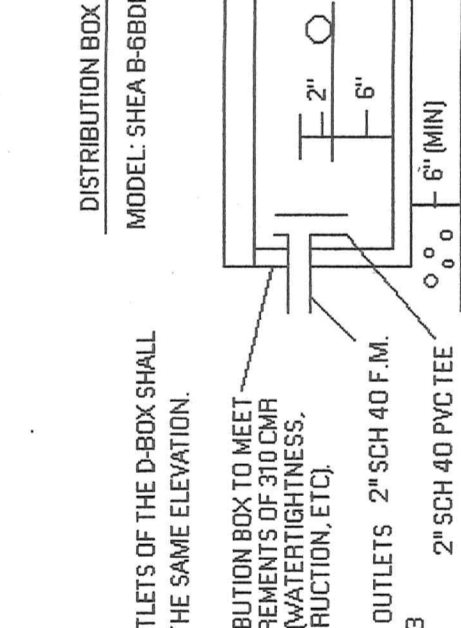
Performed By: Daniel B. Johnson
Witnessed By: Greg Bernard
Date: October 17, 2024
TP-1 (EL. = 95.5)
(94.8) A, 0" - 8" 10YR3/2 Fine sandy loam
(86.0) C1, 8" - 114" 10YR4/4 Gravelly loamy M-C sand
(85.5) C2, 114" - 120" 10YR4/6 Fine sandy loam
(86.0) 114" Observed ESHWT (7.5YR5/8, 2.5YR6/2)
No Observed Groundwater

PERCOLATION TEST DATA

Date: October 17, 2024
Soil Class: Class I (0.74 G/SF)
Perc Rate: < 2 WPI (CI layer of TP-1)

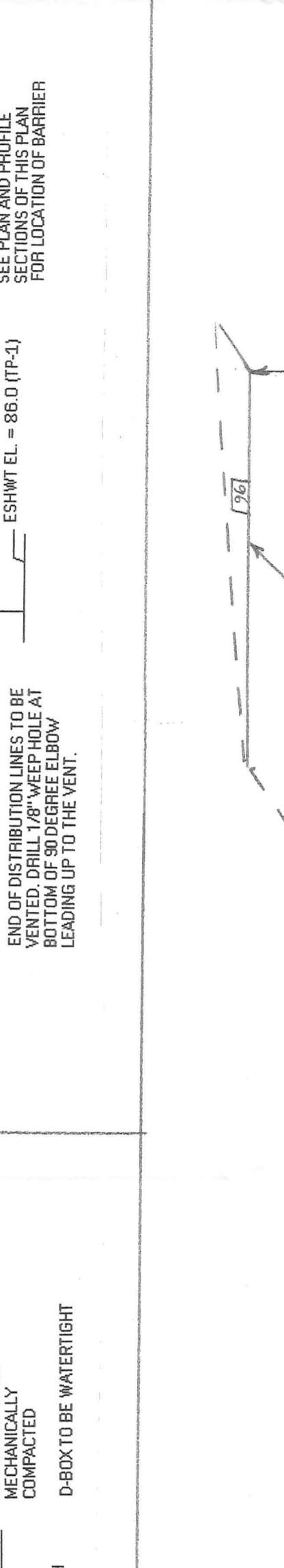
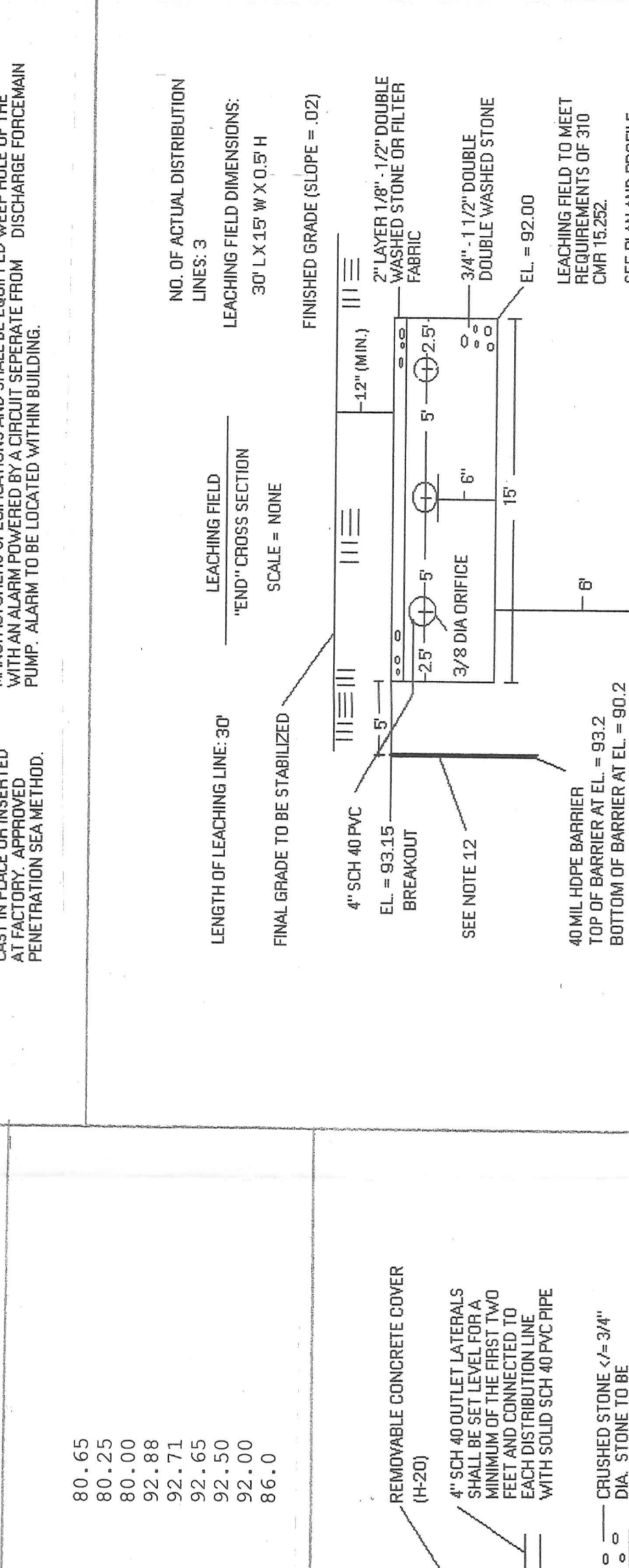
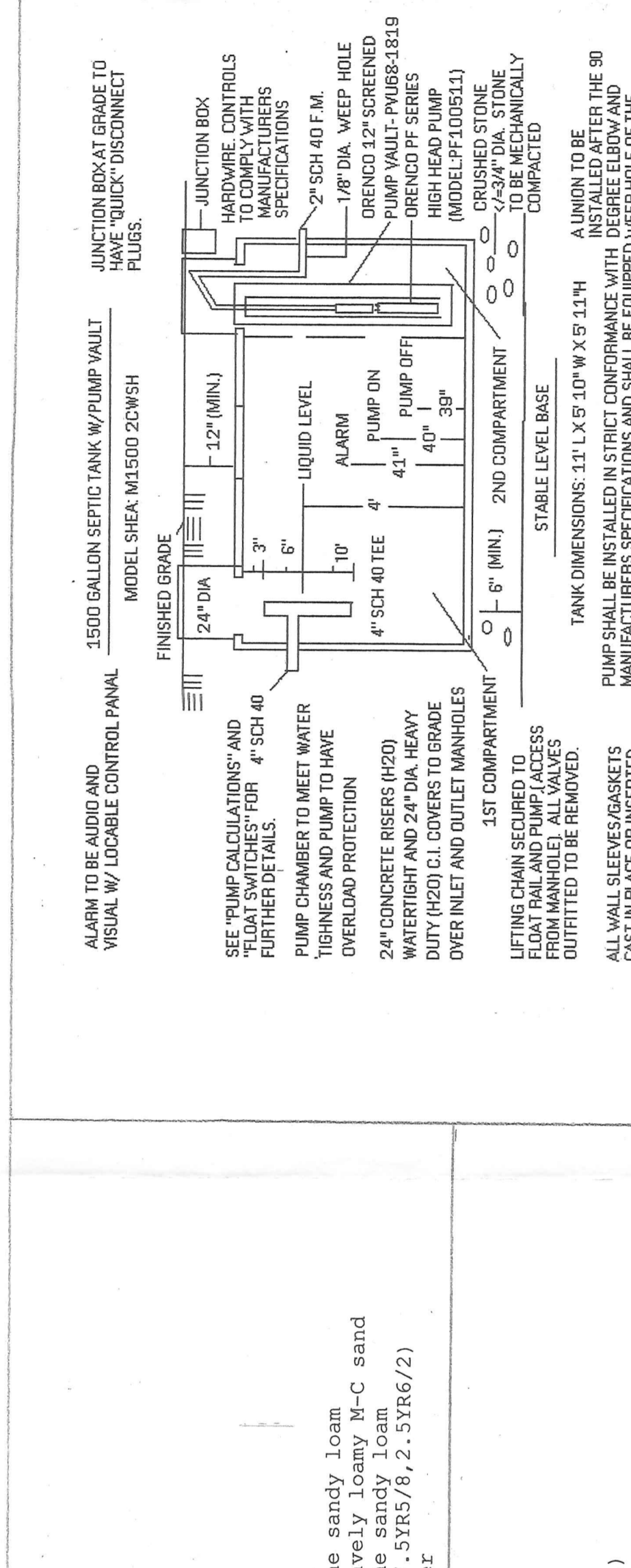
SCHEDULE OF ELEVATIONS

Inv. Out Foundation	80.65
Inv. In Septic Tank w/Pump Vault	80.25
Inv. In Septic Tank w/Pump Vault	80.00
Inv. In Distribution Box	92.88
Inv. Out Distribution Box	92.71
Inv. Begin Leaching Field	92.71
Inv. End Leaching Field	92.65
Bottom of Leaching Field	92.00
ESHWT (TP-1)	92.00
86.0	86.0



PROFILE OF SEPTIC SYSTEM
SCALE: AS SHOWN

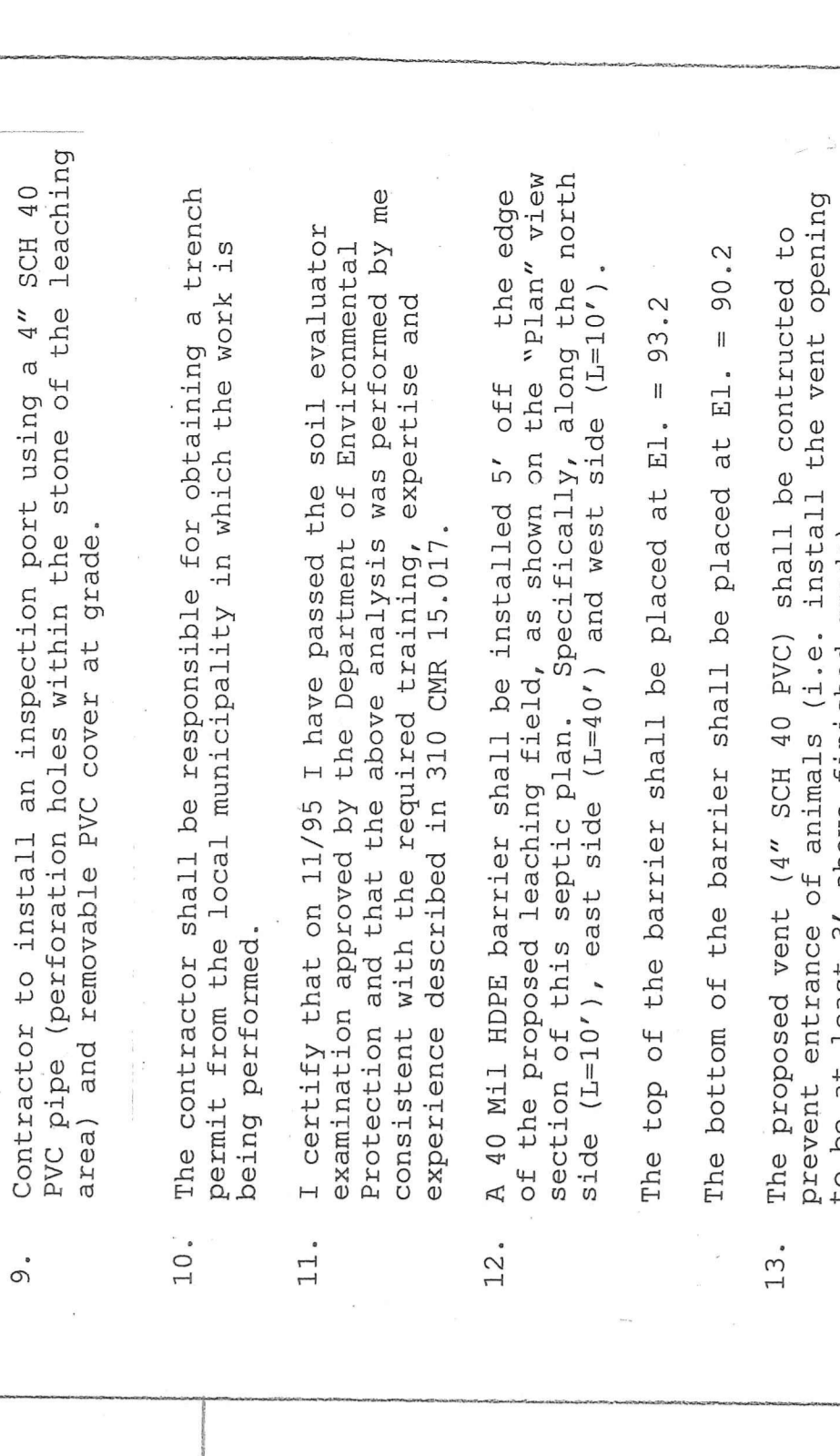
ALL OUTLETS OF THE D-BOX SHALL BE AT THE SAME ELEVATION.
DISTRIBUTION BOX TO MEET REQUIREMENTS OF 310 CONSTRUCTION ETC.
NO. OF OUTLETS 2" SCH 40 F.I.M. USED: 3
2" SCH 40 PVC TEE
REFERENCE PROFILE OF SEPTIC SYSTEM FOR FURTHER DETAILS DIMENSIONS: 1'5" L x 3'5" W x 3' H
D-BOX TO BE WATERTIGHT



- NOTES**
- All construction methods shall conform to the Title V (310 CMR 15.000) and the Hamilton Board of Health Regulations.
 - There are no known private or public wells within 100 feet/400 feet of the proposed leaching area, nor is there any known surface water supplies within 400 feet of the proposed leaching area. The proposed leaching area is not within 100 feet of a wetland, nor is it within 200 feet of a river front or known tributaries to surface water supplies.
 - The existing SAS shall be pumped, removed and backfilled with clean (mechanically compacted) fill prior to installing the new septic tank with pump vault.
 - No changes are to be made in the field without the approval of the Board of Health and the design engineer.
 - The proposed leaching area is not designed for use with a garbage disposal. Remove any existing garbage disposal.
 - Contractor to notify Dig Safe 72 hours prior to construction (800) 344-7233.
 - All system components to be covered by magnetic tape.
 - Property line, topography, existing structures, wetland flagging, etc. taken from actual ground survey. Also reference Deed, Book 13172, Page 407. The septic plan is not to be used as a property line survey.
 - Wetland flags in the field by William Manuell (Wetlands & Land Management, Inc.) on October 18, 2024.
 - Prior to construction, the contractor shall verify all plumbing existing in the existing structure, as shown on this plan, can be connected to the new septic system. Any existing and/or proposed plumbing existing in the structure is found to be different than that shown on the approved septic system plan, the contractor shall notify the designer and corrections to the septic design will be made, if applicable, only after approval from the design engineer and the local Board of Health. All internal plumbing shall be connected to the new septic system, unless otherwise specified.
 - In addition, prior to construction, a licensed MA plumber shall verify that the laundry can be connected to the proposed relocated building sewer (see plan and profile).
 - Contractor to install an inspection port using a 4" SCH 40 PVC pipe (perforation holes within the stone of the leaching area) and removable PVC cover at grade.
 - The contractor shall be responsible for obtaining a trench permit from the local municipality in which the work is being performed.
 - I certify that on 11/95 I have passed the soil evaluator examination approved by the Department of Environmental Protection and that the soil analysis was performed by me consistent with the required training, expertise and experience described in 310 CMR 15.017.
 - A 40 Mil HDPE barrier shall be installed 5' off the edge of the proposed leaching field, as shown on the "Plan" view section of this septic plan. Specifically, along the north side (L=10'), east side (L=40') and west side (L=10'). The top of the barrier shall be placed at EL. = 93.2
 - The bottom of the barrier shall be placed at EL. = 90.2
 - The proposed vent (4" SCH 40 PVC) shall be constructed to prevent entrance of animals (i.e. install the vent opening to be at least 3' above finished grade).

Local Upgrade Approval

- Request reduction from two to one test pits within the proposed leaching area, 310 CMR 15.102(2) and 15.405(1) (k).



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