3: TREATMENT TANK

		IN	NI	NP	R
3.1	General	X			
3.2	Construction	X			
3.3	Components	X			
3.4	Contents	X			X
3.5	Condition	X			
3.6	Pump			X	
3.7	Pump alarm			X	

IN = Inspected NI = Not Inspected NP = Not Present R = Recommendations

Information

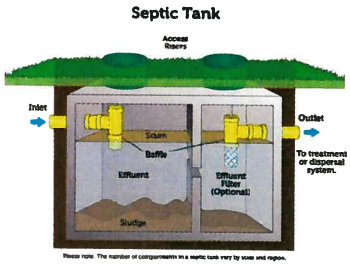
General: Treatment Tank

A septic treatment tank is a buried, watertight tank designated and constructed to receive and partially treat raw domestic sanitary wastewater. Heavy solids settle to the bottom of the tank while greases and lighter solids float to the top. The solids stay in the tank while the separated wastewater(effluent) is discharged to the drainfield for further treatment and dispersal.

In a conventional tank design, effluent is piped from the tank to a shallow underground bed. Effluent filters through the ground media and is then further treated by microbes once it reaches the soil below.

While we made every effort to locate and inspect each component of this system, the inspector's personal safety, as well as the protection of the environment and the client, was given highest priority.

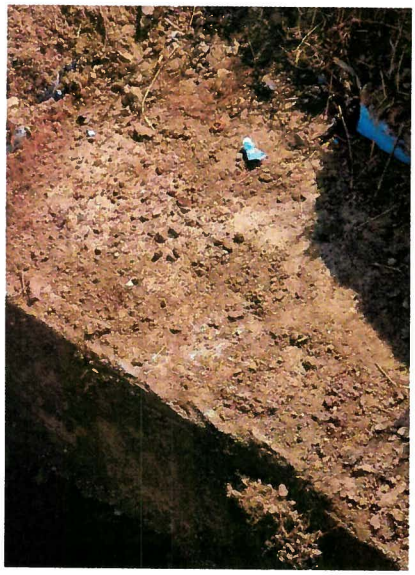
Treatment tanks are hazardous environments. Sewage contains germs that can cause diseases so our inspector did not enter the tank, bend over, or stick their head inside the open tank. Methane and hydrogen sulfide, gases that are produced inside the tank, are toxic and explosive. Our inspector was not required to do anything that, in his/her opinion was dangerous, hazardous, or could cause damage to themselves, the client, the system, property, or environment. Any component not observed is notated in this report.



vertical cross-section of a properly operating tank



Construction : Construction
Concrete



Construction : Tank Lids
Intact

Construction : Number of Chambers in Tank
1



Construction : Capacity of Tank
unknown

I could not obtain a copy of the HHE-200




Components: Tank Risers

No Risers Present

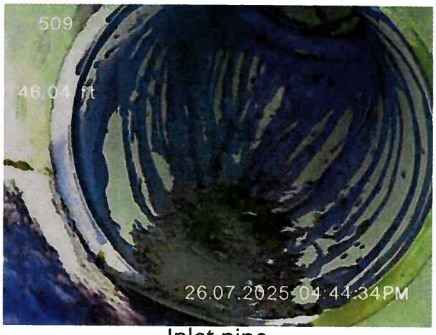
Components: Tank Inlets/Outlets

Inlet Pipe free of debris, Outlet Pipe free of debris



Outlet pipe





Inlet pipe



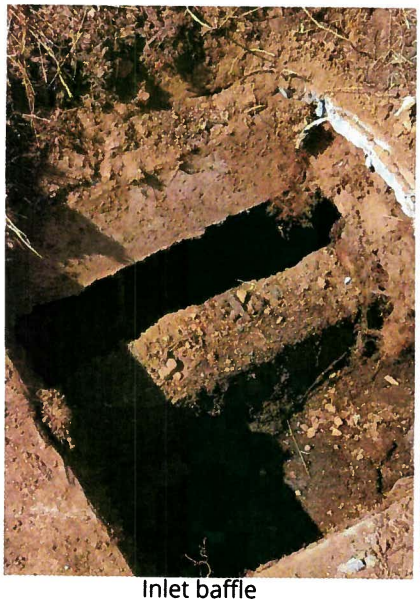
Inlet video



Outlet video

Components: Tank Baffles

Present


Inlet baffle


Outlet baffle

Contents: General Info

When wastewater is delivered to the treatment tank it enters through the inlet pipe. The vertical cross-section of a properly operating tank (see illustration from General Comments) shows what happens to the wastewater. With time, the materials separate into three distinct layers: a layer of floating scum at the top, a middle zone of generally clear water relatively free of solids (effluent), and a bottom layer of settled sludge. The capacity of the treatment tank determines how much of each material should be allowed to accumulate before a tank is pumped.

Contents: Scum

Scum Layer within acceptable limits



Contents: Effluent

Effluent Level Operational



Contents: Sludge

See Recommendations

Treatment tanks are designed to provide storage for a layer of settled sludge. Sludge is what remains from wastewater after the solids have separated from liquids and the organic matter is digested. Sludge sinks to the bottom of the tank and will slowly decompose.

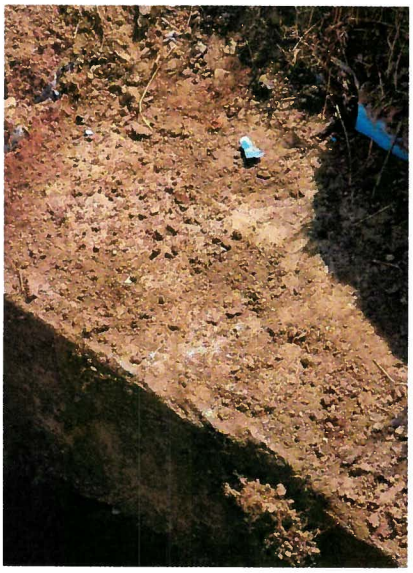


Condition: General Condition of the Treatment Tank

The observable portions of the treatment tank were inspected for deterioration of construction materials, cracks, breaks, or leaks. In general, treatment tanks have a service life expectancy of twenty-five years. Tanks beyond this age may continue to function, but will require increased attention to maintenance and yearly inspections. Liquid levels in the tank determine the portion of the treatment tank that is visible for inspection.

Condition: Condition of Observable Area of Tank

No Cracks Observed



Recommendations

3.4.1 Contents

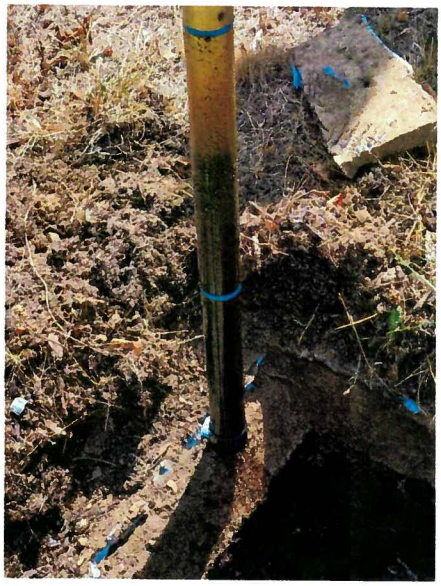
Recommendations

SLUDGE BUILD UP

The sludge layer within the treatment tank has built up to within 12 inches of the tank outlet baffle. Recommend the treatment tank be pumped by a certified septic system contractor.

Recommendation

Contact a qualified septic system contractor.



4: DRAIN FIELD

		IN	NI	NP	R
4.1	General	X			
4.2	Type	X			
4.3	Components	X			
4.4	Condition	X			

IN = Inspected NI = Not Inspected NP = Not Present R = Recommendations

Information

General: Drainfield General Information

The drainfield is the most critical component of the onsite treatment system. It is the area to which pretreated wastewater is sent via a distribution system. While a drainfield may be above ground, it is often a shallow bed with perforated pipes that spread the effluent across a wide area of underground soil. As the effluent percolates through the soil it is treated and absorbed back into the groundwater. Download this helpful Drainfield Information brochure for tips on how you can protect this most expensive and important component of your Septic System.



Download PDF

General: Inspection Port Location(s)
No Ports

Type: Type of Drain Field System
Mound

Components: Media
Gravel/Stone





Components: Pipe

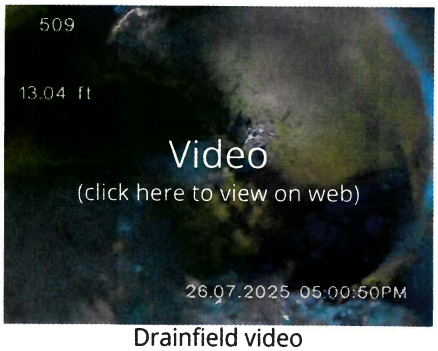
PVC, Perforated, 4"



4" perforated PVC pipe



4" perforated PVC pipe



Drainfield video

Condition: Probe Results

Dry 6+"



5: CONCLUSION

		IN	NI	NP	R
5.1	General	X			X

IN = Inspected NI = Not Inspected NP = Not Present R = Recommendations

Information

General: Satisfactory

Based on the results of the field inspection we found the onsite wastewater treatment system to be in a satisfactory condition on the date and at the time of the inspection.

Recommendations

5.1.1 General

Limitations

PUMP THE SEPTIC TANK

I recommend that the septic tank be pumped to remove excessive solids.

Recommendation

Contact a qualified professional.



SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Department of Human Services
Division of Health Engineering
(207)289-3826

PROPERTY ADDRESS

Town Or Plantation: BRADLEY

Street Subdivision Lot #: ROUTE 178

Map 009 Lot 007

EDDINGTON PERMIT # 462

Date Permit Issued: 8 2 91 $ 16 00 10 FEE ☐ # Double Fee Charged

E. W. Munson
Local Plumbing Inspector Signature

L.P.I. # 165

PROPERTY OWNERS NAME

Last: WOZNIK First: THEODORE

Applicant Name: SAME

Mailing Address of Owner/Applicant (If Different): RFD # 2 BOX 366 BREWER, ME. 04412

Owner/Applicant Statement

I certify that the information submitted is correct to the best of my knowledge and understand that any falsification is reason for the Local Plumbing Inspector to deny a Permit.

Theodore R. Wozniak 08-01-91
Signature of Owner/Applicant Date

Caution: Inspection Required

I have inspected the installation authorized above and found it to be in compliance with the Subsurface Wastewater Disposal Rules

E. W. Munson 8-31-91
Local Plumbing Inspector Signature Date Approved

PERMIT INFORMATION

THIS APPLICATION IS FOR:
1. ☒ NEW SYSTEM
2. ☐ REPLACEMENT SYSTEM
3. ☐ EXPANDED SYSTEM
4. ☐ EXPERIMENTAL SYSTEM

SEASONAL CONVERSION
to be completed by the LPI
5. ☐ SYSTEM COMPLIES WITH RULES
6. ☐ CONNECTED TO SANITARY SEWER
7. ☐ SYSTEM INSTALLED – P# _____
8. ☐ SYSTEM DESIGN RECORDED AND ATTACHED

IF REPLACEMENT SYSTEM:
YEAR FAILING SYSTEM INSTALLED _____
THE FAILING SYSTEM IS:
1. ☐ BED 3. ☐ TRENCH N/A
2. ☐ CHAMBER 4. ☐ OTHER: _____

SIZE OF PROPERTY: 0.9 AC ±

ZONING: N/A

THIS APPLICATION REQUIRES:
1. ☒ NO RULE VARIANCE
2. ☐ NEW SYSTEM VARIANCE Attach New System Variance Form
3. ☐ REPLACEMENT SYSTEM VARIANCE Attach Replacement System Variance Form
   a. ☐ Requiring Local Plumbing Inspector Approval
   b. ☐ Requires State and Local Plumbing Inspector Approval
4. ☐ MINIMUM LOT SIZE VARIANCE

DISPOSAL SYSTEM TO SERVE:
1. ☐ SINGLE FAMILY DWELLING
2. ☒ MODULAR OR MOBILE HOME
3. ☐ MULTIPLE FAMILY DWELLING
4. ☐ OTHER _____ SPECIFY

INSTALLATION IS:
COMPLETE SYSTEM
1. ☒ NON-ENGINEERED SYSTEM
2. ☐ PRIMITIVE SYSTEM (Includes Alternative Toilet)
3. ☐ ENGINEERED (+2000 gpd)

INDIVIDUALLY INSTALLED COMPONENTS
4. ☐ TREATMENT TANK (ONLY)
5. ☐ HOLDING TANK _____ GAL
6. ☐ ALTERNATIVE TOILET (ONLY)
7. ☐ NON-ENGINEERED DISPOSAL AREA (ONLY)
8. ☐ ENGINEERED DISPOSAL AREA (ONLY)
9. ☐ SEPARATED LAUNDRY SYSTEM

TYPE OF WATER SUPPLY: PROPOSED DRILLED WELL

DESIGN DETAILS (SYSTEM LAYOUT SHOWN ON PAGE 3)

TREATMENT TANK
1. ☒ SEPTIC: ☒ Regular OR ☒ Low Profile
2. ☐ AEROBIC

SIZE: 1000 GALS.

WATER CONSERVATION
1. ☐ NONE
2. ☒ LOW VOLUME TOILET
3. ☐ SEPARATED LAUNDRY SYSTEM
4. ☐ ALTERNATIVE TOILET
SPECIFY: _____

PUMPING
1. ☐ NOT REQUIRED
2. ☒ MAY BE REQUIRED (DEPENDING ON TREATMENT TANK LOCATION AND ELEVATION)
3. ☐ REQUIRED
DOSE: _____ GALS.

CRITERIA USED FOR DESIGN FLOW (BEDROOMS, SEATING, EMPLOYEES, WATER RECORDS, ETC.)
MOBILE HOME

SOIL CONDITIONS USED FOR DESIGN PURPOSES

PROFILE	CONDITION
8	A, III/C

DEPTH TO LIMITING FACTOR: 18

SIZE RATINGS USED FOR DESIGN PURPOSES
1. ☐ SMALL
2. ☐ MEDIUM
3. ☐ MEDIUM-LARGE
4. ☒ LARGE
5. ☐ EXTRA LARGE

DISPOSAL AREA TYPE/SIZE
1. ☒ BED 800 Sq. Ft.
2. ☐ CHAMBER _____ Sq. Ft.
   ☐ REGULAR ☐ H-20
3. ☐ TRENCH _____ Linear Ft.
4. ☐ OTHER: _____

DESIGN FLOW: 195 (GALLONS/DAY)

SITE EVALUATOR STATEMENT

On 7/29/91 (date) I conducted a site evaluation for this project and certify that the data reported is accurate. The system I propose is in accordance with the Subsurface Wastewater Disposal Rules.

Site Evaluator Signature — SE# 76 — Date 7/31/91

(Local Plumbing Inspector's Signature if permit is for Seasonal Conversion.)

...WASTEWATER DISPOSAL SYSTEM APPLICATION — Division of Health Engineering

Location: IDLEY

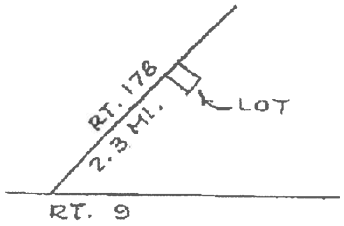
Street, Road, Subdivision: ROUTE 178

Owners Name: THEODORE WOZNIK

SITE PLAN

Scale 1" = 50 Ft.

SITE LOCATION PLAN (Attach Map from Maine Atlas for New System Variance)



(SEE ATTACHED SITE PLAN)

SOIL DESCRIPTION AND CLASSIFICATION (Location of Observation Holes Shown Above)

Observation Hole 1 ☑ Test Pit ☐ Boring

0 " Depth of Organic Horizon Above Mineral Soil

DEPTH BELOW MINERAL SOIL SURFACE (Inches)	Texture	Consistency	Color	Mottling
0–6			DARK BROWN	
6–10		FRIABLE	STRONG BROWN	NONE
10–15	SILT LOAM			
15–20				FEW FAINT
20–30		FIRM	YELLOWISH BROWN	COMMON DISTINCT
30–40				
40–50				

Soil Profile	Classification Condition	Slope	Limiting Factor	
B	A III/C	10 %	18	■ Ground Water ☐ Restrictive Layer ☐ Bedrock

Observation Hole ____ ☐ Test Pit ☐ Boring

____ " Depth of Organic Horizon Above Mineral Soil

DEPTH BELOW MINERAL SOIL SURFACE (Inches)	Texture	Consistency	Color	Mottling
0–6				
6–10				
10–15				
15–20				
20–30				
30–40				
40–50				

Soil Profile	Classification Condition	Slope	Limiting Factor	
		%		☐ Ground Water ☐ Restrictive Layer ☐ Bedrock

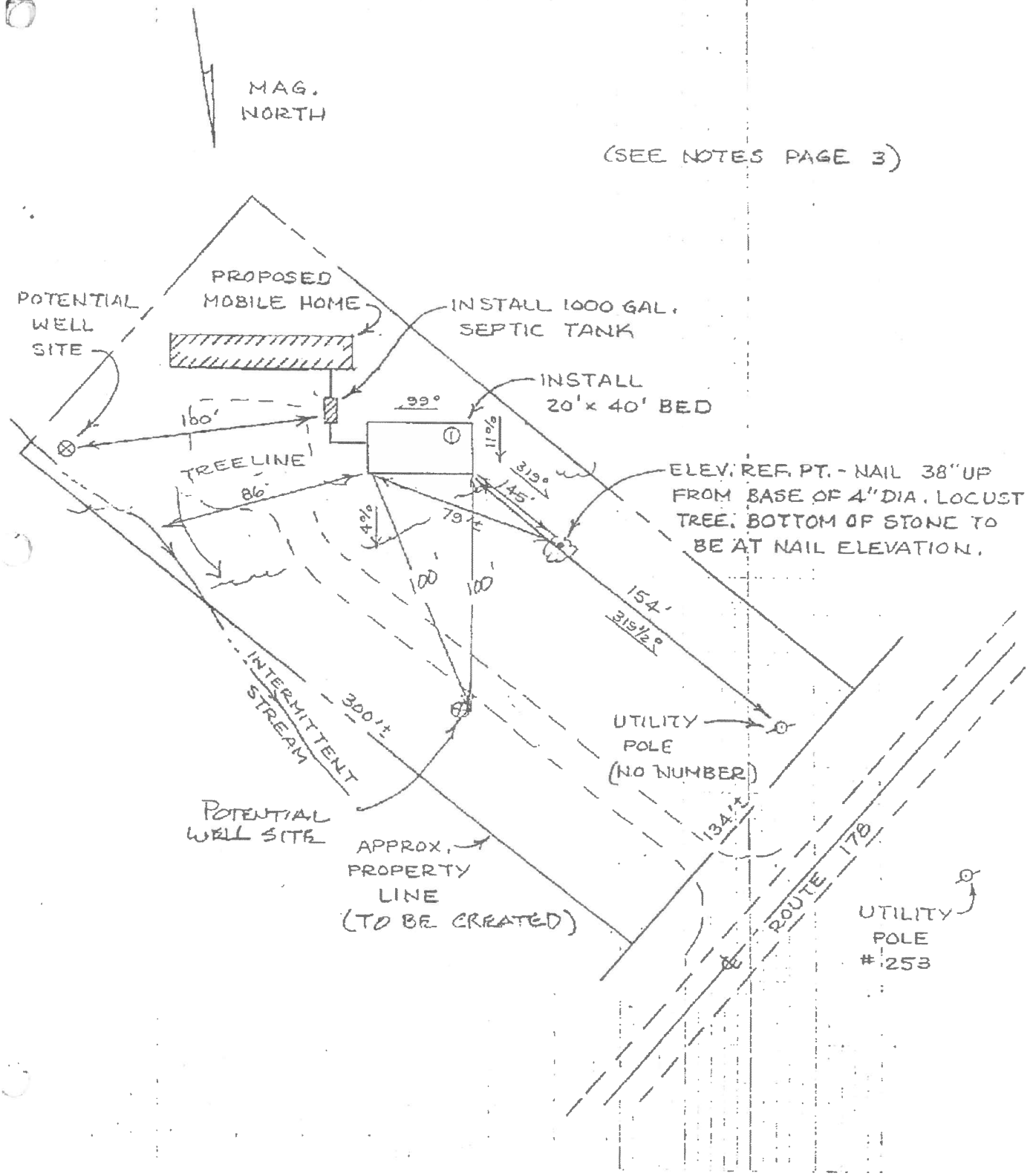
Site Evaluator Signature

SE#

7/31/91
Date

SITE PLAN
SCALE: 1" = 50'

THEODORE WOZNIK
BRADLEY
PAGE 2A



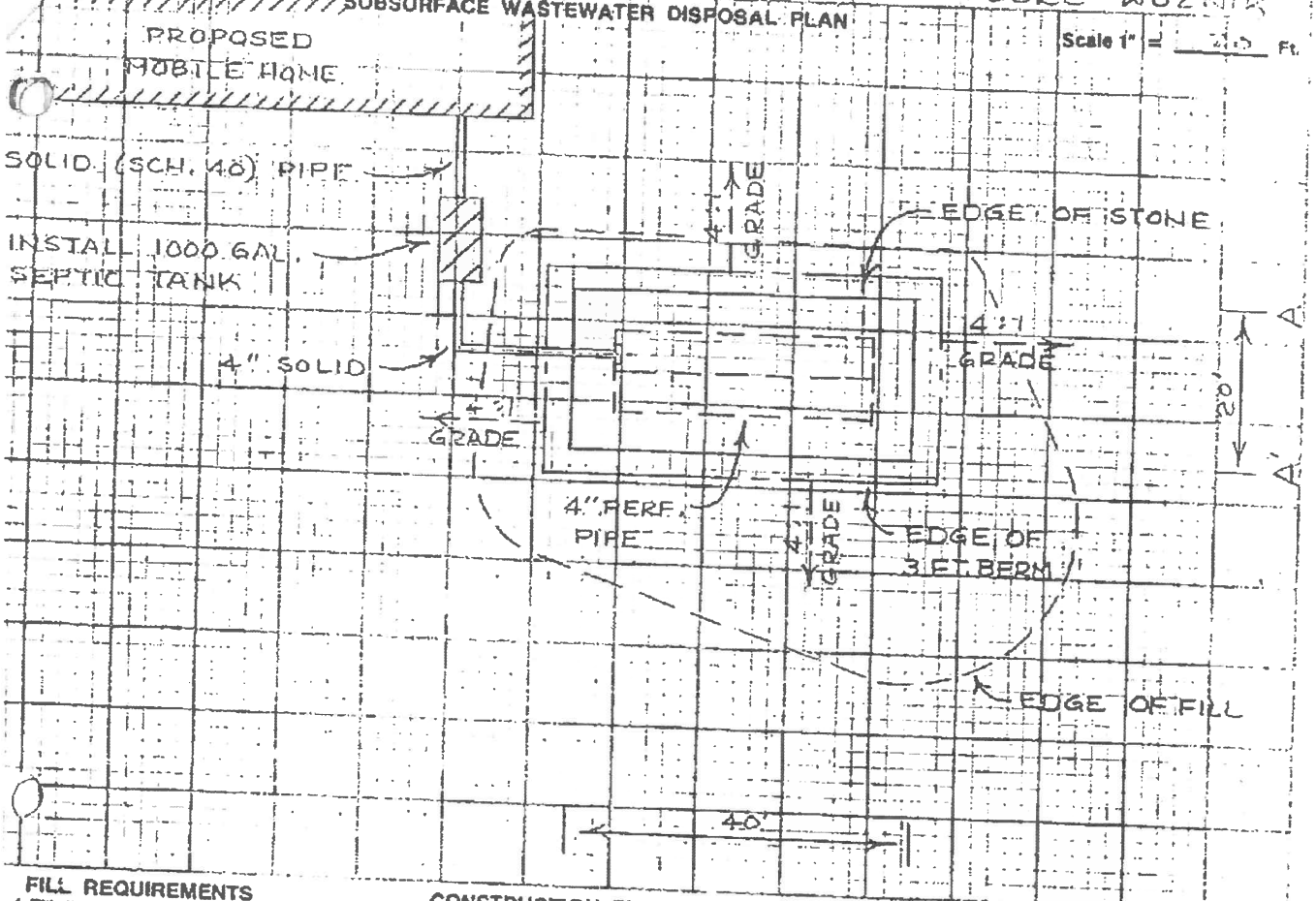
...SEWAGE DISPOSAL SYSTEM APPLICATION

Division of Health Engineering

...DLEY — Street, Road, Subdivision: ROUTE 178 — Owners Name: THEODORE WOZNIK

SUBSURFACE WASTEWATER DISPOSAL PLAN

Scale 1" = 20 Ft.



FILL REQUIREMENTS

of Fill (Upslope)	14"-17"
of Fill (Downslope)	27"-41"

CONSTRUCTION ELEVATIONS

Reference Elevation is	100'-0"
Bottom of Disposal Area	100'-0"
Top of Distribution Lines or Chambers	100'-11"

ELEVATION REFERENCE POINT LOCATION & DESCRIPTION

NAIL 88" UP FROM BASE OF 4" DIA. LOCUST TREE

DISPOSAL AREA CROSS SECTION (SEE ATTACHED CROSS SECTION A-A')

Scale:
Vertical: 1 Inch = Ft.
Horizontal: 1 Inch = Ft.

...OTES:

...SPOSAL BED TO BE A MINIMUM OF 100 FEET FROM WELLS ...D 20 FEET (MINIMUM FROM DWELLINGS WILL FULL ...UNDATIONS, UNLESS VARIANCES HAVE BEEN APPROVED. ...PTIC TANKS TO BE A MINIMUM OF 100 FEET FROM ...ELLS AND 8 FEET (MINIMUM) FROM DWELLINGS, ...LESS VARIANCES HAVE BEEN APPROVED.

☐ TO INSTALL THE SYSTEM AS DESIGNED MAY REQUIRE A WETLAND ALTERATION PERMIT FROM THE ARMY CORPS OF ENGINEERS AND/OR THE MAINE DEPT. OF ENVIRONMENTAL PROTECTION.

☐ TO INSTALL THE SYSTEM AS DESIGNED WILL REQUIRE A PERMIT BY RULE NOTIFICATION TO THE MAINE DEPT. OF ENVIRONMENTAL PROTECTION.

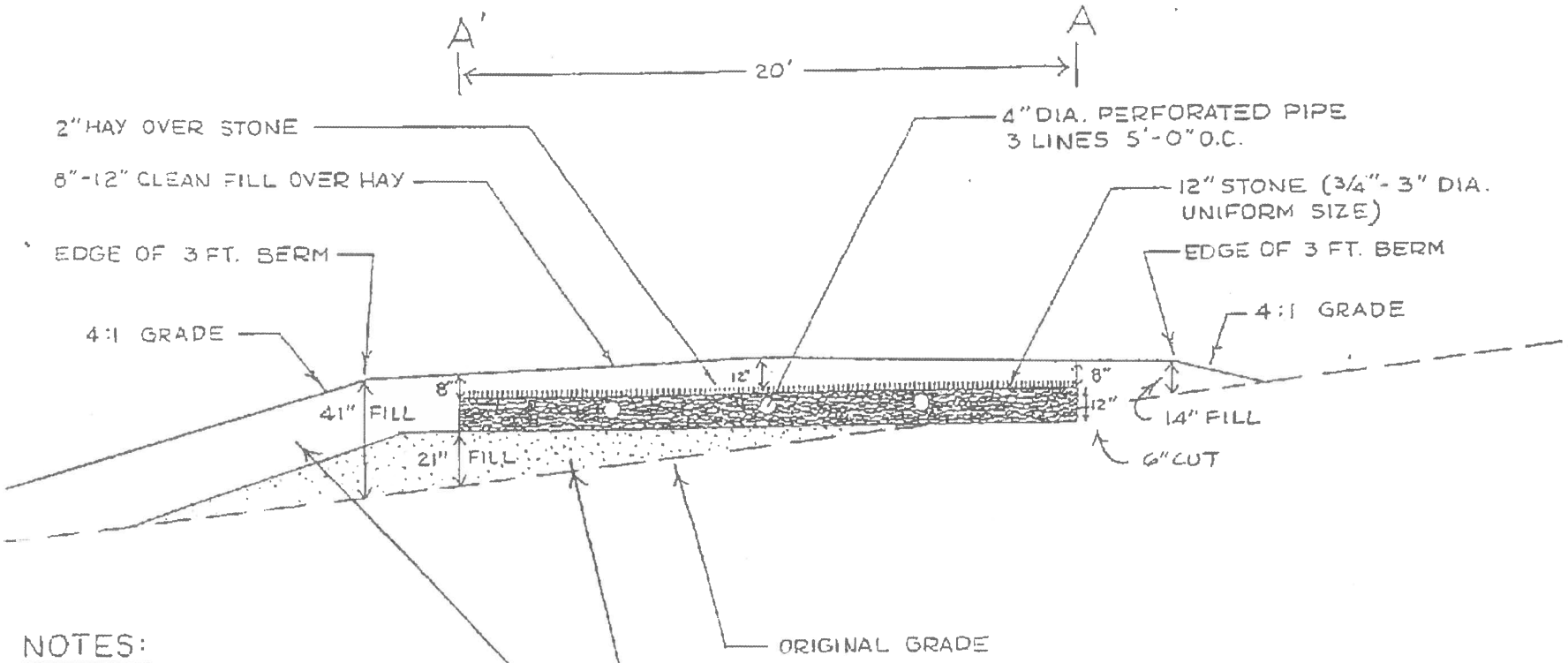
☒ ANY ADDITIONAL PERMITS, APPLICATIONS OR NOTIFICATIONS (LOCAL, STATE OR FEDERAL) ARE THE RESPONSIBILITY OF THE OWNER/APPLICANT.

Gregory S. Tobin — Site Evaluator Signature

96 — SE#

7/31/91 — Date

BED CROSS-SECTION



NOTES:

1. REMOVE VEGETATION AND SCARIFY ORIGINAL SOIL UNDER BED AND FILL EXTENSION AREAS.
2. BOTTOM OF BED TO BE LEVEL WITH A MAXIMUM GRADE TOLERANCE OF 1" PER 100'.
3. PROVIDE FOR SURFACE DRAINAGE AWAY FROM BED AREA.
4. FINISHED GRADE SHALL BE SEEDED AND MULCHED TO PREVENT EROSION.
5. FILL UNDER SYSTEM TO BE WELL COMPACTED IN 8" LIFTS.

OWNER: THEODORE WOZNIK	BED DIMENSIONS: 20' x 40'
LOCATION: BRADLEY	BED ELEVATIONS: REF. PT. 100'-0" TOP DIST. LINE 100'-11" BOTTOM STONE 100'-0"
DATE:	SCALE: