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GOOD 2/23

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Maine Dept Health & Human Services
Div of Environmental Health , 11 SHS
(207) 287 5672 Fax (207) 287 3165

PROPERTY LOCATION

>> CAUTION: PERMIT REQUIRED - ATTACH IN SPACE BELOW <<

City, Town, or Plantation: LAMOINE
Street or Road: PARTRIDGE COVE ROAD
Subdivision, Lot #: LOT #5 PARTRIDGE COVE RD ESTS.

LAMOINE
Date Permit Issued: 7/8/11
Local Plumbing Inspector Signature

PERMIT # 1658 TOWN COPY
$ 125.00 FEE ☐ If Double Fee Charged
L.P.I. # 1011

OWNER/APPLICANT INFORMATION

Name (last, first, MI): HESSERT, ANTHONY P. ■ Owner ☐ Applicant
Mailing Address of Owner/Applicant: c/o MAINE SEA COAST 127 WEST STREET BAR HARBOR, ME 04609
Daytime Tel. #: (207) 551-8708

Municipal Tax Map # 4 Lot # 34-5

OWNER OR APPLICANT STATEMENT
I state and acknowledge that the information submitted is correct to the best of my knowledge and understand that any falsification is reason for the Department and/or Local Plumbing Inspector to deny a Permit.

Signature of Owner or Applicant — Date: 7/5/11

CAUTION: INSPECTION REQUIRED
I have inspected the installation authorized above and found it to be in compliance with the Subsurface Wastewater Disposal Rules Application.

Local Plumbing Inspector Signature — (1st) date approved: 8/5/11 — (2nd) date approved

PERMIT INFORMATION

TYPE OF APPLICATION
■ 1. First Time System
☐ 2. Replacement System
Type replaced: ____
Year installed: ____
☐ 3. Expanded System
a. <25% Expansion
b. ≥25% Expansion
☐ 4. Expenmental System
☐ 5. Seasonal Conversion

THIS APPLICATION REQUIRES
■ 1. No Rule Variance
☐ 2. First Time System Vanance
a. Local Plumbing Inspector Approval
b. State & Local Plumbing Inspector Approval
☐ 3. Replacement System Variance
a. Local Plumbing Inspector Approval
b. State & Local Plumbing Inspector Approval
☐ 4. Minimum Lot Size Variance
☐ 5. Seasonal Conversion Permit

DISPOSAL SYSTEM COMPONENTS
■ 1. Complete Non-engineered System
2. Primitive System (graywater & alt. toilet)
3. Alternative Toilet specify: ____
4. Non-engineered Treatment Tank (only)
5. Holding Tank ____ gallons
6. Non-engineered Disposal Field (only)
7. Separated Laundry System
8. Complete Engineered System (2000 gpd or more)
9. Engineered Treatment Tank (only)
10. Engineered Disposal Field (only)
11. Pre-treatment specify: ____
12. Miscellaneous Components

SIZE OF PROPERTY
1.20 ■ SQ. FT. ☐ ACRES

DISPOSAL SYSTEM TO SERVE
■ 1. Single Family Dwelling Unit, No. of Bedrooms 3
☐ 2. Multiple Family Dwelling, No. of Units ____
☐ 3. Other ____ (specify)
Current Use ☐ Seasonal ☐ Year Round ■ Undeveloped

TYPE OF WATER SUPPLY
PROPOSED
■ 1. Drilled Well ☐ 2. Dug Well ☐ 3 Private
☐ 4 Public ☐ 5 Other

SHORELAND ZONING
☐ Yes ■ No

DESIGN DETAILS (SYSTEM LAYOUT SHOWN ON PAGE 3)

TREATMENT TANK
■ 1. Concrete
■ a. Regular
☐ b. Low Profile
☐ 2. Plastic
☐ 3. Other
CAPACITY 1000 GAL

DISPOSAL FIELD TYPE & SIZE
■ 1. Stone Bed ☐ 2. Stone Trench
☐ 3. Proprietary Device
a. cluster array c. Linear
b. regular load d. H-20 load
☐ 4. Other
SIZE 1120 ■ sq. ft. ☐ in ft

GARBAGE DISPOSAL UNIT
☐ 1. No ■ 2. Yes ☐ 3. Maybe
If Yes or Maybe, specify one below
a. multi-compartment tank
b. ____ tanks in series
c. increase in tank capacity
■ d. Filter on Tank Outlet

DESIGN FLOW
270 gallons per day
BASED ON:
■ 1. Table 4A (dwelling unit(s))
☐ 2. Table 4C (other facilities)
SHOW CALCULATIONS for other facilites
☐ 3. Section 4G (meter readings)
ATTACH WATER METER DATA

SOIL DATA & DESIGN CLASS
PROFILE CONDITION
B D
at Observation Hole # TP1
Depth 14"
of Most Limiting Soil Factor

DISPOSAL FIELD SIZING
1. Medium---2.6 sq. ft. / gpd
2. Medium---Large 3.3 sq. ft / gpd
■ 3. Large---4.1 sq. ft. / gpd
4. Extra Large---5.0 sq. ft. / gpd

EFFLUENT/EJECTOR PUMP
■ 1. Not Required (WITH PUMPED SEPTIC TANK EFLEN.)
☐ 2. May Be Required
☐ 3. Required
Specify only for engineered systems
DOSE ____ gallons

LATITUDE AND LONGITUDE
at center of disposal area
Lat 44 d 29 m 30 s
Lon 68 d 18 m 10 s
if g p s state margin of error: 30

SITE EVALUATOR STATEMENT

I certify that on 3/15/11 (date) I completed a site evaluation on this property and state that the data reported are accurate and that the proposed system is in compliance with the State of Maine Subsurface Wastewater Disposal Rules (10-144A CMR 241). (11-0177)

Site Evaluator Signature — # 213 SE # — 3/17/11 Date

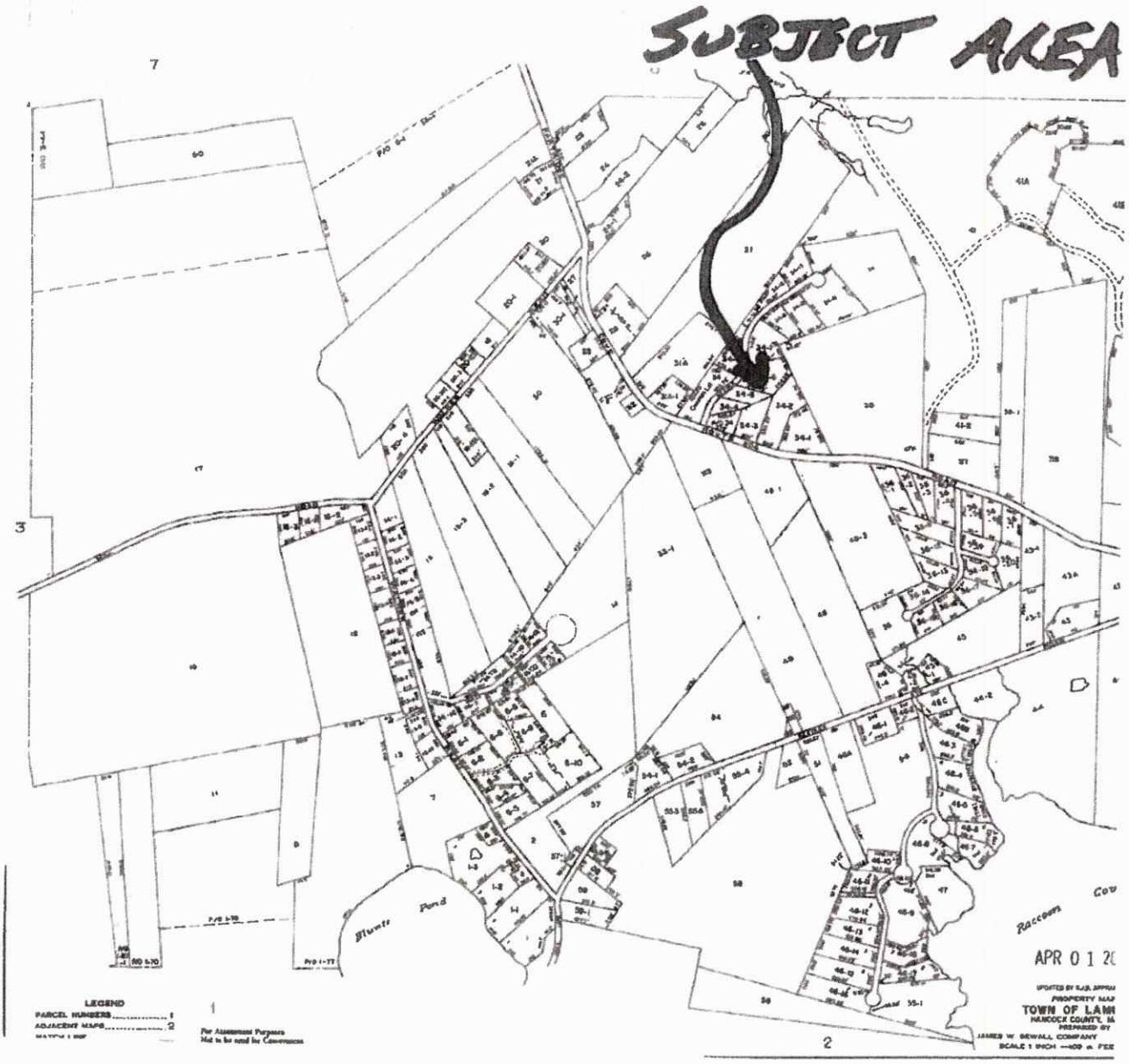
STEPHEN H. HOWELL — Site Evaluator Name Printed
(207) 848-5714 for S.W. COLE ENG, INC — Telephone Number / E-mail address

Note: Changes to or deviations from the design should be confirmed with the Site Evaluator

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SITE LOCATION MAP:
SOURCE - TOWN OF LANSING
TAX MAP # 4

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SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Department of Human Services
Division of Health Engineering
(207) 287-5672 Fax: (207) 287-3165

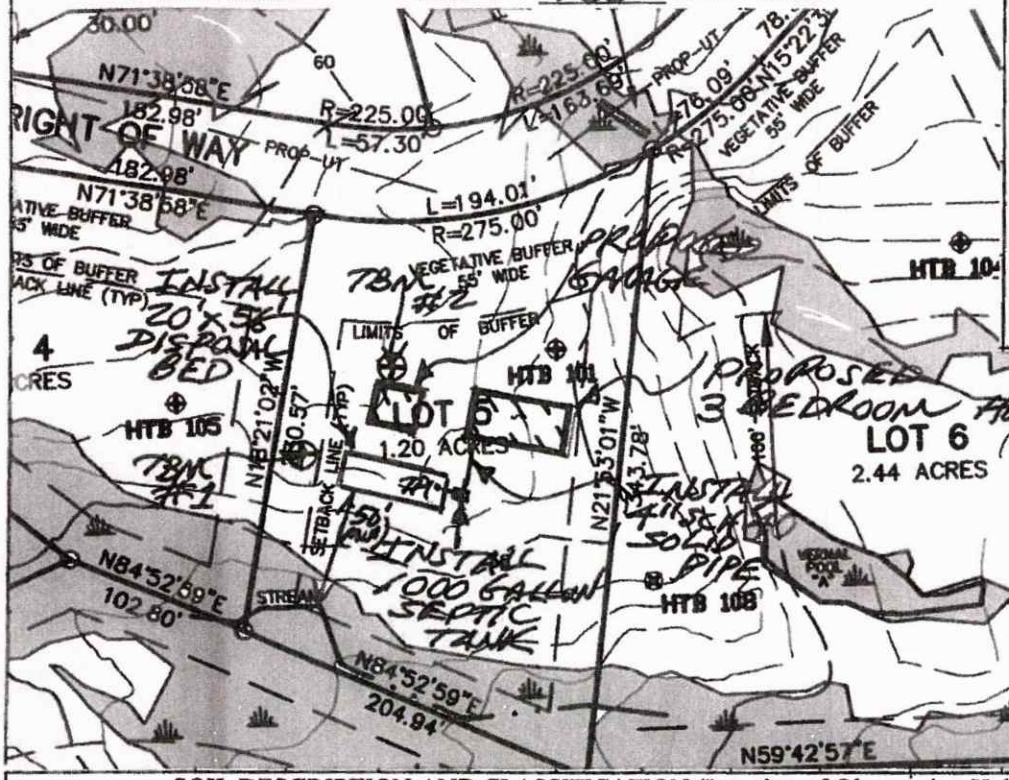
Town, City, Plantation: LAMOINE

Street, Road, Subdivision: LOT #5 PARTRIDGE COVE RD. ESTATES

Owner's Name: ANTHONY P. HESSERT

SITE PLAN

Scale 1" = 100 ft. or as shown



SITE LOCATION PLAN

(map from Maine Atlas recommended)

SEE ATTACHED LOCATION PLAN

NOTE: BASE MAP PROVIDED BY HERRICK & SALISBURY LAND SURVEYORS

NOTES:
1. REVIEW & COMPLY WITH ATTACHED SEPTIC SYSTEM USER NOTES & CONSTRUCTION NOTES.
2. DIVERT RUNOFF AWAY FROM DISPOSAL BED.

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

Observation Hole TP1 ☒ Test Pit ☐ Boring

3 " Depth of Organic Horizon Above Mineral Soil

Depth Below Mineral Soil Surface (inches)	Texture	Consistency	Color	Mottling
0–10	VERY FINE SANDY LOAM	FRIABLE	BROWN / LIGHT YEL. BROWN / LIGHT OLIVE BROWN	NONE
10–20	SILT LOAM	FIRM	OLIVE	COMMON DISTINCT
20–30	LIMIT OF OBSERV. 30"			
30–40				
40–50				

Soil Classification	Slope	Limiting Factor	
8 D (Profile / Condition)	1-5 %	14"	[X] Ground Water [X] Restrictive Layer [ ] Bedrock [ ] Pit Depth

Observation Hole _____ ☐ Test Pit ☐ Boring

_____ " Depth of Organic Horizon Above Mineral Soil

Depth Below Mineral Soil Surface (inches)	Texture	Consistency	Color	Mottling
0–10				
10–20				
20–30				
30–40				
40–50				

Soil Classification	Slope	Limiting Factor	
_____ _____ (Profile / Condition)	_____ %	_____"	[ ] Ground Water [ ] Restrictive Layer [ ] Bedrock [ ] Pit Depth

Site Evaluator Signature: [signature] SE #: #213 Date: 3/17/11

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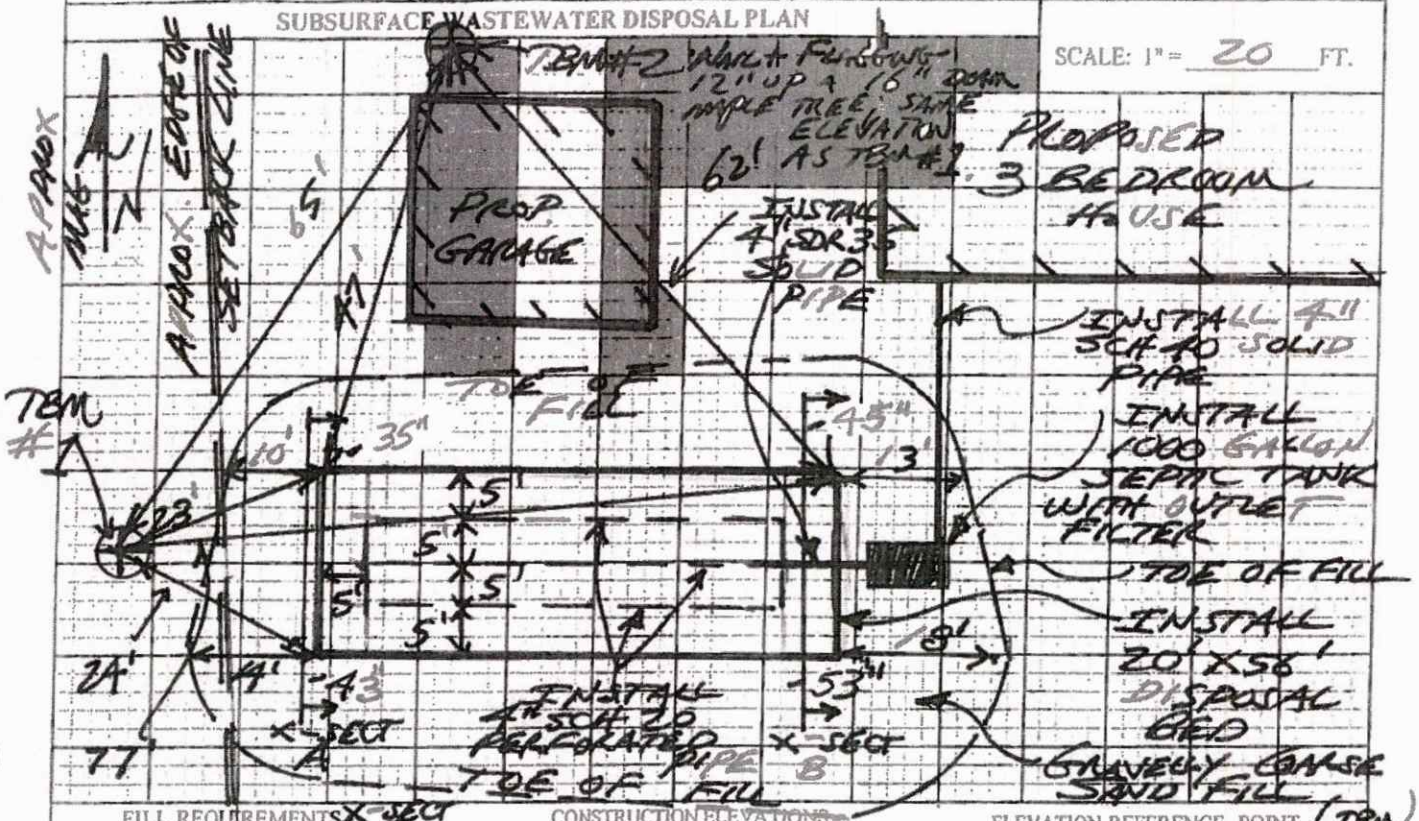
SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Department of Health & Human Services
Division of Environmental Health
(207) 287-5672 Fax: (207) 287-3165

Town, City, Plantation: LAMOINE
Street, Road, Subdivision: LOT #5 PARTRIDGE COVE RD. ESTATES
Owner's Name: ANTHONY P. HESSERT

SUBSURFACE WASTEWATER DISPOSAL PLAN

SCALE: 1" = 20 FT.



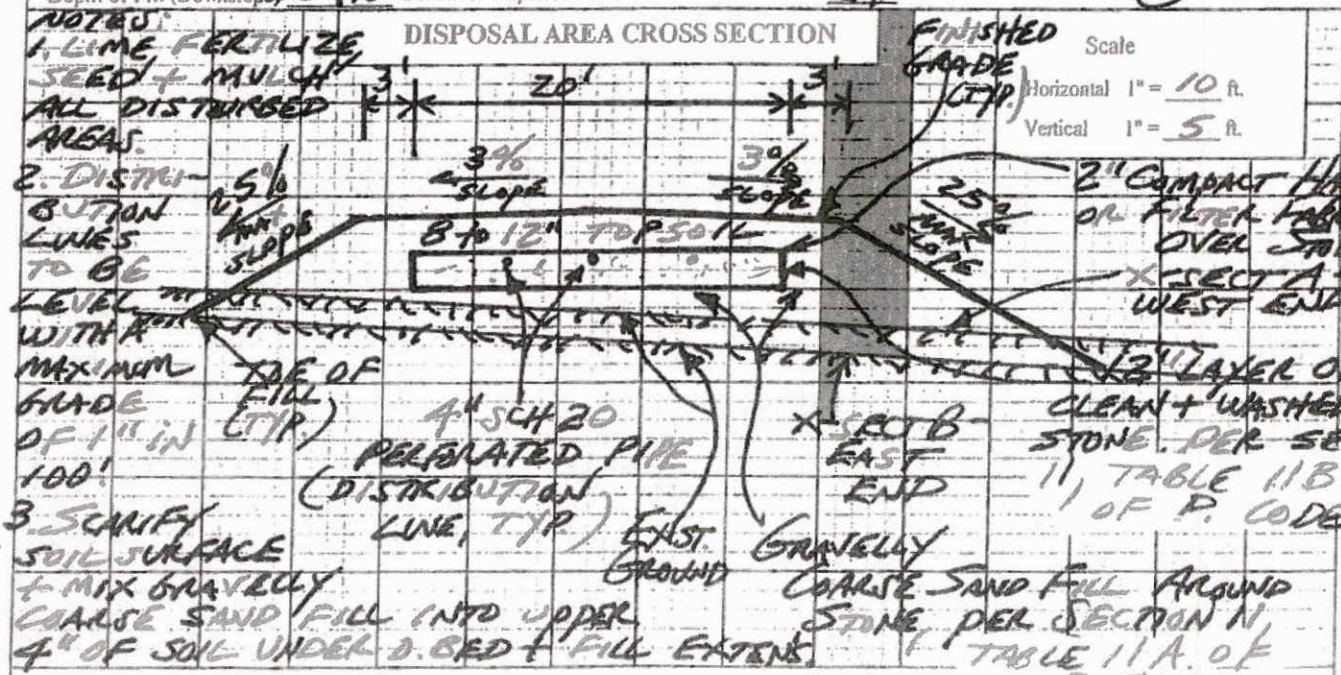
FILL REQUIREMENTS	X-SECT A	X-SECT B
Depth of Fill (Upslope)	29"	38"
Depth of Fill (Downslope)	36"	46"

CONSTRUCTION ELEVATIONS

-7"	Finished Grade Elevation
-20"	Top of Distribution Pipe or Proprietary Device
-31"	Bottom of Disposal Area

ELEVATION REFERENCE POINT (TBM #1)
Location & Description: NAIL + FLAG #1 GUNG 27" UP A 12" B. FIR TREE
Reference Elevation: =0"

DISPOSAL AREA CROSS SECTION



Scale
Horizontal 1" = 10 ft.
Vertical 1" = 5 ft.

NOTES:
1. LIME, FERTILIZE, SEED + MULCH ALL DISTURBED AREAS.
2. DISTRIBUTION LINES TO BE LEVEL WITH A MAXIMUM GRADE OF 1" IN 100'
3. SCARIFY SOIL SURFACE + MIX GRAVELLY COARSE SAND FILL INTO UPPER 4" OF SOIL UNDER D. BED + FILL EXTENT

#213 — Site Evaluator Signature / SE # — 3/17/11 Date

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2. Bottom of disposal field: The bottom of each disposal field must be installed at the elevation specified on the permit. It must be maintained to a level grade no greater than 2 inches within 100 feet. Note: The bottom of a disposal field serves as the final stage of the distribution network.

3. Avoid unnecessary compaction: Excavation must be carried out in a manner that will avoid unnecessary compaction of both sidewalls and bottom area. Heavy equipment, especially rubber-tired vehicles such as front-end loaders, should not be driven over the exposed bottom of the disposal field. Excavation should be carried out when possible, by a back-hoe operating from outside the perimeter of the previously excavated portions of the disposal fields.

4. Reopen smeared or compacted bottom or sidewall surfaces: If any portion of the bottom or sidewalls becomes smeared or compacted, that portion must be scarified to reopen soil pores. Roto-tilling may be necessary to reach the limit of compacted soil depth.

5. Weather conditions: Work should be scheduled so that excavated areas are not exposed to rainfall or wind-blown silt. Any loose soil or debris that is washed or otherwise deposited within the excavation must be carefully removed prior to backfilling. Additionally, disposal fields should not be installed in frozen ground or when the ambient air temperature is below freezing, especially if construction will take place over several days.

D. CONSTRUCTION

1. Construction: The installer of the system must make certain that the system and all its component parts are installed in conformance with the requirements of these Rules, the plan prepared by the site evaluator, and with any special engineering design requirements approved or required by the Department, pursuant to an approved variance.

2. Soil and backfill material: The installer of the system must make certain that the construction and installation are performed without adversely affecting the capacity of the soil or backfill material to adequately absorb or treat the septic tank effluent.

E. BACKFILL PLACEMENT FOR DISPOSAL AREAS INCLUDING FILL EXTENSIONS

1. General: Selection and placement of backfill must comply with the requirements of this Section.

2. Backfill standards: The backfill material must be gravelly coarse sand which meets the requirements of Table 11A or 11(E)(2)(a) below, as approved by the Department or LPI:

TABLE 11A
Backfill Textural Gradation

Sieve Size	Percent Passing by Weight
3 inches	100
#4	75-100
#10	50-100
#60	10-50
#100	2-20
#200	2-8
Clay Fraction	0-2

(a) Field determination of backfill: Due to the difficulty of obtaining sieve analyses and the variability of backfill material, the following procedures can be used in the field to determine the suitability of backfill material. The backfill is suitable if the soil texture is loose single grains, the individual sand grains can be readily seen (similar to salt or sugar grains) and felt, and the following conditions are observed: If squeezed in the hand when dry, it will fall apart when the pressure is released but has enough fines to stain the lines in the palm of the hand; or, if squeezed when moist, it will form a cast that will crumble when

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2. Disposal field stone: The stone used in disposal fields must meet the following requirements:

(a) General: Where used, the stone must cover the distribution pipes and extend the full width and length of the disposal field.

(b) Thickness: The disposal field stone depth for beds must extend at least 7 inches beneath the bottom of the distribution pipes and must extend at least 1 inch above the top of the distribution pipes. For disposal trenches, disposal field stone depth must extend at least 12 inches beneath the bottom of the distribution pipes and must extend at least 1 inch above the top of the distribution pipes.

(c) The disposal field stone must be clean, uniform in size and free of fines, dust, ashes, or clay. It must conform to one of the nominal stone sizes listed in Table 11B.

(a) Stone specifications: A site evaluator may define a more stringent standard for stone size for any particular system.

(d) The disposal field stone may be loaded onto the disposal field site, using a back-hoe, front-end loader, or dump truck. This operation must be carried out from the sides of the disposal field, rather than by driving onto the prepared area of the disposal field. In the case of large disposal fields, tracked equipment may be operated within the disposal field. This equipment must not exert a ground pressure in excess of eight pounds per square inch. The disposal field stone must be pushed in front of the vehicle, such that a minimum of one foot of stone is maintained beneath the vehicle track and the original soil surface.

TABLE 11B
Maximum Percent passing by weight

Sieve Size	Nominal Stone Size	
	1 ½ inches	¾ inches
2 inches	100	100
1 ½ inches	95 - 100	100
¾ inches	0 - 40	90 - 100
½ inches	0 - 20	0 - 55
3/8 inches	0 - 8	0 - 25
#4	0 - 5	0 - 10
#200	0 - 2	0 - 2

3. Covering the disposal field stone: The disposal field stone must be covered with a layer of filter fabric or 2 inches of hay, as the laying of the distribution pipes progresses.

4. Covering the stone with filter fabric:

(a) Overlapping filter fabric sheets: Edges of adjacent sheets of fabric must be overlapped by a minimum of 6 inches; and

(b) Fabric requirements: The filter fabric specified in the system design must have: adequate tensile strength to prevent ripping during installation and backfilling, adequate air permeability to allow free passage of gases; and adequate particle retention to prevent downward migration of soil particles into the disposal field. The minimum physical properties for the fabric must be 4.0 ounces/square yard (per ASTM D-3776).

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Construction Notes

1. Disposal bed to be a minimum of 100 feet from all wells, 300 feet from public water supplies, 50 feet from a minor water body/course, 100 feet from a major water body/course, 15 feet from the edge of any curtain drains, 10 feet from property lines, and 20 feet from buildings.

2. Septic tank to be a minimum of 50 feet from wells, ponds, lakes, and a major water body/course, 50 feet from a minor water body/course, 10 feet from property lines, and 8 feet from buildings.

3. Divert all roof runoff and surface runoff away from leachfield.

4. Properly protect all pipes, chambers, and tanks from freezing and/or crushing.

5. Review and comply with attached Septic System User Notes.

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SEPTIC SYSTEM USER NOTES

1. This septic system has been designed to meet requirements of the State of Maine Subsurface Wastewater Disposal Rules, 10-144A CMR 241. Because site evaluators are not notified when local ordinances are enacted which exceed state requirements, it is the septic system owners responsibility to ensure that this septic system design (HHE-200 form) is in compliance with applicable local ordinances. This can be done by contacting your local plumbing inspector and asking about local ordinances which differ from those required in the Rules.

2. It is the septic system owner's responsibility to obtain any local, state, or federal permit(s) that may be required for the installation of this septic system (work within or adjacent to a wetland may require a state and/or federal permit). Contact the Maine Department of Environmental Protection at 287-2111 and the Army Corps of Engineers at 623-8367 if you have any questions.

3. The use of a garbage grinder on a septic system is not recommended. Depending on use patterns, they can contribute a significant amount of particulate matter and grease to the system. Excessive use may result in premature failure. If a garbage grinder is to be used, additional septic tank capacity, a multi compartment septic tank is required, and/or more frequent septic tank pumping is recommended.

4. For new construction, it is recommended that the septic system owner install low volume toilets (1 1/2 gallons per flush or less) and other flow reducing fixtures such as low volume shower heads and faucets to minimize water consumption. A reduction in water usage will generally result in extended life of your septic system.

5. It is the septic system owner's responsibility to limit water consumption and wastewater generation so that the septic system design capacity (design flow on the HHE-200 form) is not exceeded on any day. Activities which generate large amounts of wastewater should be spread out over several days where possible. Excessive use of a septic system on any day can cause the system to fail even though your use, averaged over a week or month, is below design volume.

6. Do not connect floor or roof drains to a septic system. Your septic system is not designed to handle this water and it will likely cause premature failure.

7. Do not dispose of backwash from water softeners or water treatment devices in your septic system. Large amounts of water can be generated from these devices which can overload a septic system.

8. Do not dispose of any hazardous or toxic substances in a septic system such as paint thinner, paints, varnishes, photographic solutions, pesticides, insecticides, organic solvents or degreasers and drain openers. Septic systems depend on living organisms to function properly. Toxic or hazardous material can, in effect, "kill" the system and are a threat to pollution of surface or groundwater resources. Instead of using a commercial degreaser or drain opener, which an be toxic, use one of the following:

   A. A plunger or mechanical snake; or
   B. Pour one handful of baking soda and 1/2 cup of white vinegar down the drainpipe and cover tightly for one minute. Repeat as necessary; or

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C. Pour 1/2 cup salt and 1/2 cup baking soda down the drain followed by 6 cups of boiling water. Let sit for several hours or overnight, then flush with water.

9. Do not dispose of any inert or non-biodegradable substances into your septic system such as disposable diapers, cat box litter, coffee grounds, cigarette filters, sanitary napkins, facial tissues and wet strength paper towels.

10. Do not dispose of large quantities of fats or grease into your septic system unless an external grease trap has been designed for that purpose. Generally, an internal grease trap is inadequate to handle excessive amounts of grease or fat.

11. Do not add any septic tank cleaner or additive to your septic system to improve its function or prolong its useful operating life (this includes yeast, horse manure or commercial products). No effective product or material is recognized by State authorities and, in fact, some of these products can actually cause your septic system to fail.

12. Maintain your septic system by regularly having the septic tank pumped. Some biological breakdown of solids and grease occurs in septic tanks but the rate of accumulation virtually always exceeds the rate of biologic breakdown. If your septic tank is not pumped out often enough, solids and greases may build up to the point where they enter your disposal areas. Once this material reaches the disposal area, it will clog the soil surface and likely cause premature failure.

13. We recommend having your septic tank pumped or inspected after one year of use. The pumper can advise you of how often you need to have the septic tank pumped based on what he finds at this inspection (typically a septic tank will need to be pumped every two to five years). Keep in mind that you will need to adjust pumping frequency to coincide with changes in the way you use your system. The more your septic system is used, the more frequently that the septic tank should be pumped.

14. Do not drive over or store heavy materials on any part of your septic system unless it is specifically designed to handle heavy loads. Otherwise, crushed components may be the result and the system may fail.

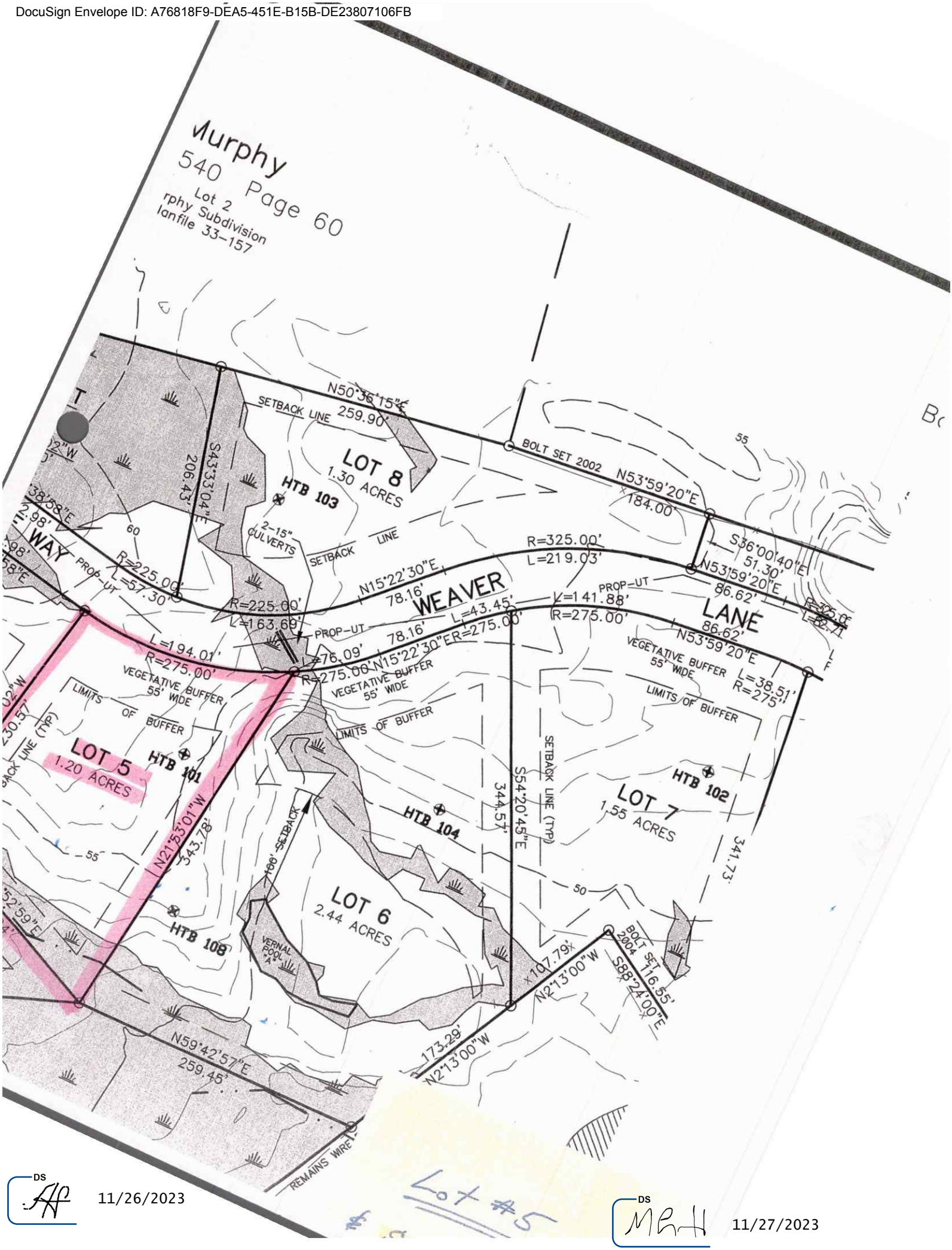
15. Divert all surface water away from the septic tank and disposal area. Roof areas which contribute runoff water to the septic system site should have gutters installed to divert that water to another location.

16. PLEASE – If you have any questions about your septic system or how to use it, call me (848-5714) and ask for advice. You can also call the State Agency responsible for regulating septic systems, the plumbing program in the Division of Health Engineering, at 287-5689.

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Maine Center for Disease Control and Prevention
An Office of the Department of Health and Human Services
Paul R. LePage, Governor Mary C. Mayhew, Commissioner
Tel. (207) 287-5672

Department of Health and Human Services
Maine Center for Disease Control and Prevention
286 Water Street
11 State House Station
Augusta, Maine 04333-0011
Tel. (207) 287-8016
Fax (207) 287-9058; TTY (800) 606-0215
Subsurface Wastewater Unit Fax (207) 287-4172

AFFIDAVIT OF SITE PREPARATION

This affidavit is to be completed by a certified system installer and submitted to the Local Plumbing Inspector to document compliance with **Section 111.5.1** of the Maine Subsurface Wastewater Disposal Rules, **144 CMR 241**. ***Permission to utilize this document in lieu of a site preparation inspection by the Local Plumbing Inspector must be verified when the permit is issued.*** This affidavit is ***not*** to be utilized in place of the system inspection described in **Section 111.5.2** of the Rules.

INSTALLER NAME: Scott Clearey (Please Print)

CERTIFICATION NUMBER: 538

SSWD PERMIT NUMBER: [redacted]-1658

PERMIT ISSUE DATE: 7/8/11

PROPERTY OWNER NAME: Anthony Hessert

PROPERTY ADDRESS: Partridge Cove, subdivision

MUNICIPALITY:

By signing and submitting this document to the Local Plumbing Inspector, I certify that all construction activities noted in **Section 111.5.1** including removal of all vegetation from the disposal field area and fill extensions as specified in **Section 801.3**; roughening of the ground surface as specified in **Section 801.4**; establishment of a transitional horizon as specified in **Section 801.5**; and placement of erosion control devices as specified in **Section 801.2** have been completed in full compliance with the Maine Subsurface Wastewater Disposal Rules, **144 CMR 241** for the referenced SSWD permit.

INSTALLER SIGNATURE: Scott Clearey

DATE SUBMITTED: 8-9-11

By signing and accepting this document from the Certified Installer, I acknowledge that a site preparation inspection was not conducted for the referenced SSWD permit.

LPI SIGNATURE:

ACCEPTANCE DATE: 9/13/11

HHE-238-B (Revision 01/2008)

DS 11/26/2023

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TOTAL P.01