TOWN

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Department of Human Services
Division of Health Engineering, Station 10
(207) 287-5672 FAX (207) 287-4172

PROPERTY LOCATION

City,Town or Plantation	Rangeley
Street or Road	Booker Road
Subdivision Lot #	Lot 007-051

OWNER/APPLICANT INFORMATION

Name(last,first, MI) Kolze, Karl ■ Owner ■ Applicant

Name and mailing address of: Owner / Applicant	PO Box 657 Rangeley, ME 04970
Daytime Tel. #	845-258-0727

Owner or Applicant Statement

I state 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/ Applicant — Date: 5/8/23

>> CAUTION : LPI APPROVAL REQUIRED <<

Town/City RANGELEY Permit # 2971

Date Permit Issued 5/9/23 Fee: $ 265 Double Fee Charged ☐

Local Plumbing Inspector Signature — LPI # 1054

The Subsurface Wastewater Disposal System shall not be installed until a Permit is issued by the Local Plumbing Inspector. The Permit shall authorize the owner or installer to install the disposal system in accordance with this application and the Maine Subsurface Wastewater Disposal Rules.

Municipal Tax Map # 007 Lot # 051

Caution : Inspections 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 — (2nd) Date Approved

PERMIT INFORMATION

THIS APPLICATION IS FOR:
- ■ 1. First Time System
- ☐ 2. Replacement System
  - Type Replaced _____
  - Year Installed _____
- ☐ 3. Expanded System
  - ☐ a. < 25% expansion
  - ☐ b. >= 25% expansion
- ☐ 4. Experimental System
- ☐ 5. Seasonal Conversion

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

DISPOSAL SYSTEM COMPONENT(S)
- ■ 1. Complete Non-Engineered System
- ☐ 2. Primitive System (graywater and 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. Pretreatment: specify:
- ☐ 12. Miscellaneous components

SIZE OF PROPERTY
24.8 +/- ☐ sq. ft ■ acres

SHORELAND ZONING
☐ Yes ■ No

DISPOSAL SYSTEM TO SERVE:
- ■ 1. Single Family Dwelling Unit, No. of Bedrooms 4
- ☐ 2.Multiple Family Dwelling No. of Units:
- ☐ 3. Other _____ SPECIFY

Current use: ☐ Seasonal ☐ Year Round ■ Undeveloped

TYPE OF WATER SUPPLY
☐ 1. Drilled Well ☐ 2. Dug Well ■ 3. Private
☐ 4. Public ☐ 5. Other: (Proposed)

DESIGN DETAILS (SYSTEM LAYOUT SHOWN ON PAGE 3)

TREATMENT TANK
- ■ 1. Concrete
  - ■ a. Regular
  - ☐ b. Low Profile
- ☐ 2. Plastic
- ☐ 3. Other _____

CAPACITY 1500 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 1728 ■ sq.ft ☐ lin.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
360 gallons per day

BASED ON:
- ■ 1. Table 4A (dwelling unit(s))
- ☐ 2. Table 4C (other facilities)

SHOW CALCULATIONS
- for other facilities -

- ☐ 3. Section 4G (meter readings)

ATTACH WATER METER DATA

SOIL DATA & DESIGN CLASS

PROFILE	CONDITION
1	DAIII

at observation hole # 1

Depth 15 "

Of Most Limiting Soil Factor

DISPOSAL FIELD SIZING
- ☐ 1. Medium 2.60 sq. ft./ gpd
- ☐ 2. Medium - Large 3.30 sq.ft. / gpd
- ■ 3. Large 4.10 sq. ft. / gpd
- ☐ 4. Extra - Large 5.00 sq. ft / gpd

EFFLUENT / EJECTOR PUMP
- ☐ 1. Not Required
- ■ 2. May be required
- ☐ 3. Required

Specify only for engineered systems:
DOSE _____ Gallons

LATITUDE AND LONGITUDE
at center of disposal field
LAT: N 44d 58m 22.7s
LONG: W 70d 40m 46.4s
If GPS, state margin of error:

SITE EVALUATOR'S STATEMENT

I certify that on 11 / 16 / 21 (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).

Site Evaluator Signature	SE #	Date
	336	12 - 10 - 21

Site Evaluator Name Printed		E-mail address
Elizabeth A. Flynn	207-864-5161 (O) 207-670-5166 (C)	ncsoils@earthlink.net

NOTE: Changes to or deviations from the design shall be confirmed with the Site Evaluator.

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

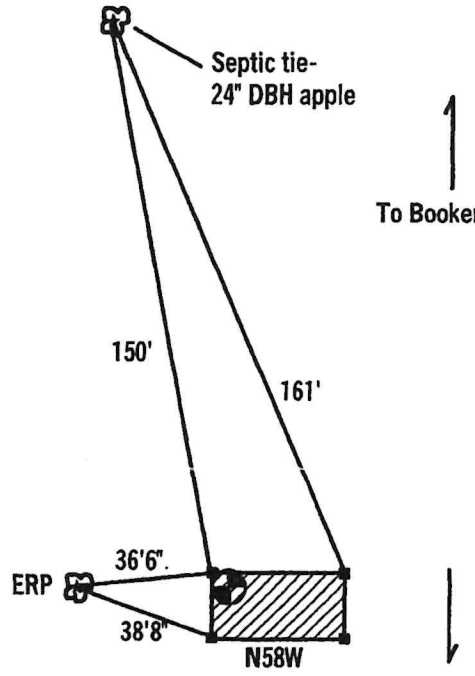
Maine Department of Human Services
Division of Health Engineering, Station 10
(207) 287-5672 FAX (207) 287-3165

Town, City, Plantation	Street, Road, Subdivision	Owner or Applicant Name
Rangeley	Booker Road	Karl Kolze

SCALE 1" = 50 FT

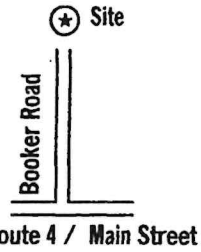
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SITE PLAN



SITE LOCATION PLAN

(Attach map from Maine Atlas for First Time System Variance)



Site is located at end of Booker Road- and in south section of property.

Elevation reference point

Property line

Test pit/ boring

Flagged stake

MAP IS NOT A SURVEY

Property lines are beyond map scale. Owner shall ensure disposal field and fill extensions remain within property bounds.

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

Observation Hole #1 ☐ Test Pit ■ Boring

1/2" Depth of Organic Horizon Above Mineral Soil

DEPTH BELOW MINERAL SOIL SURFACE (inches)	Texture	Consistency	Color	Mottling
0	St Silt Loam and VFSL	Friable	10YR 3/3	None Ev
6				
10				
12			2.5Y 4/4	Com Faint
20	Bedrock or large rock			
30	Upper horizons have been disturbed			
40				
50				

Soil Classificaton		Slope	Limiting Factor	
1 Profile	DAIII Condition	18-20 Percent	15 " Depth	☐ 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				
10				
12				
20				
30				
40				
50				

Soil Classificaton		Slope	Limiting Factor	
Profile	Condition	Percent	" Depth	☐ Ground Water ☐ Restrictive Layer ☐ Bedrock

Site Evaluator Signature

336
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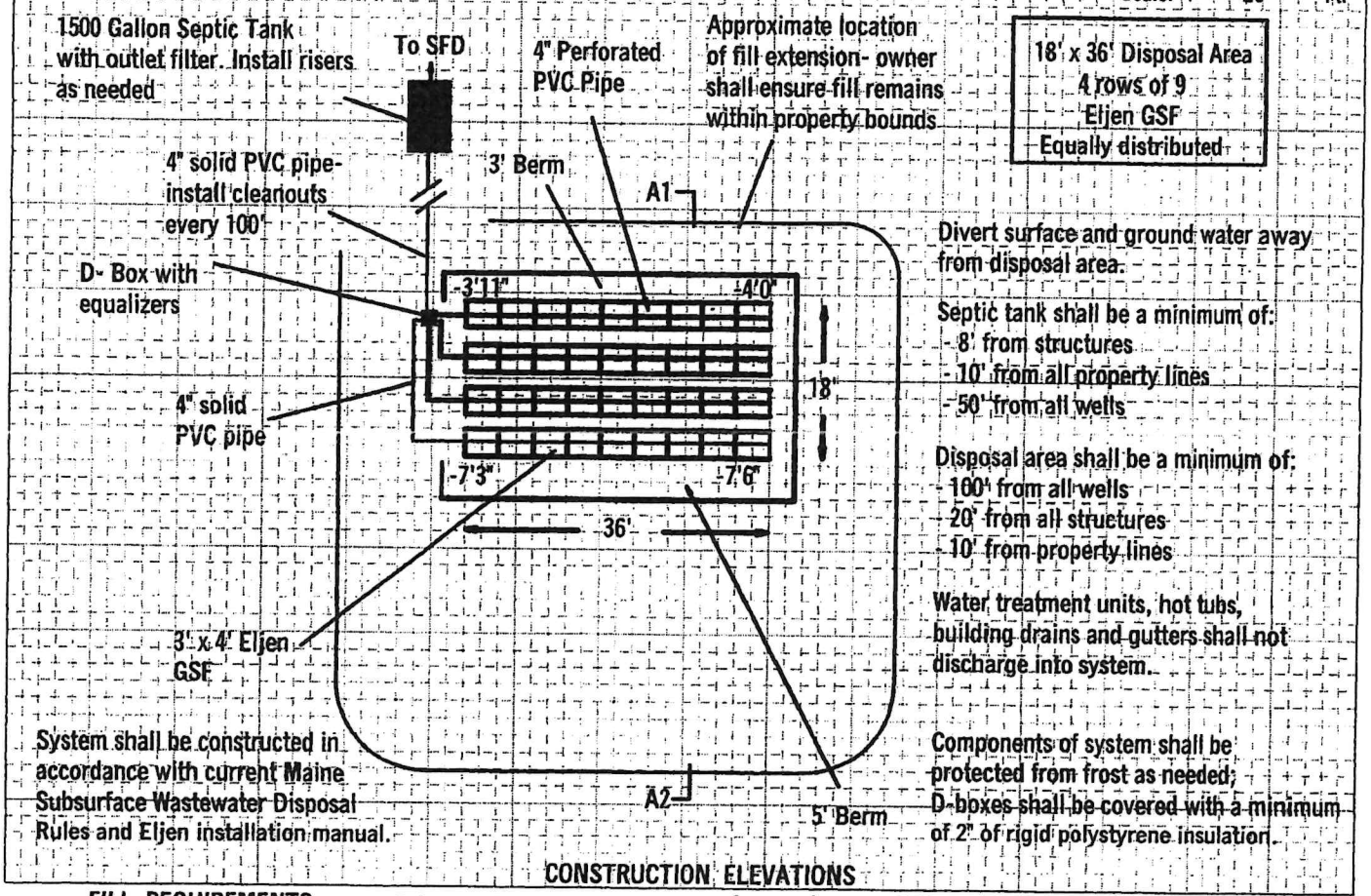
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Division of Health Engineering

Town, City, Plantation	Street, Road, Subdivision	Owners Name
Rangeley	Booker Road	Karl Kolze

SUBSURFACE WASTEWATER DISPOSAL PLAN

Scale: 1" = 20 Ft.



CONSTRUCTION ELEVATIONS

FILL REQUIREMENTS

Depth of backfill (Upslope) 32"+

Depth of backfill (Downslope) 42"+

Reference Elevation is Assumed 0' 0"

Finished Grade Elevation

Top of Distribution Pipe or proprietary device top of pipe +12"

Bottom of Disposal Field see below

ELEVATION REFERENCE POINT LOCATION & DESCRIPTION

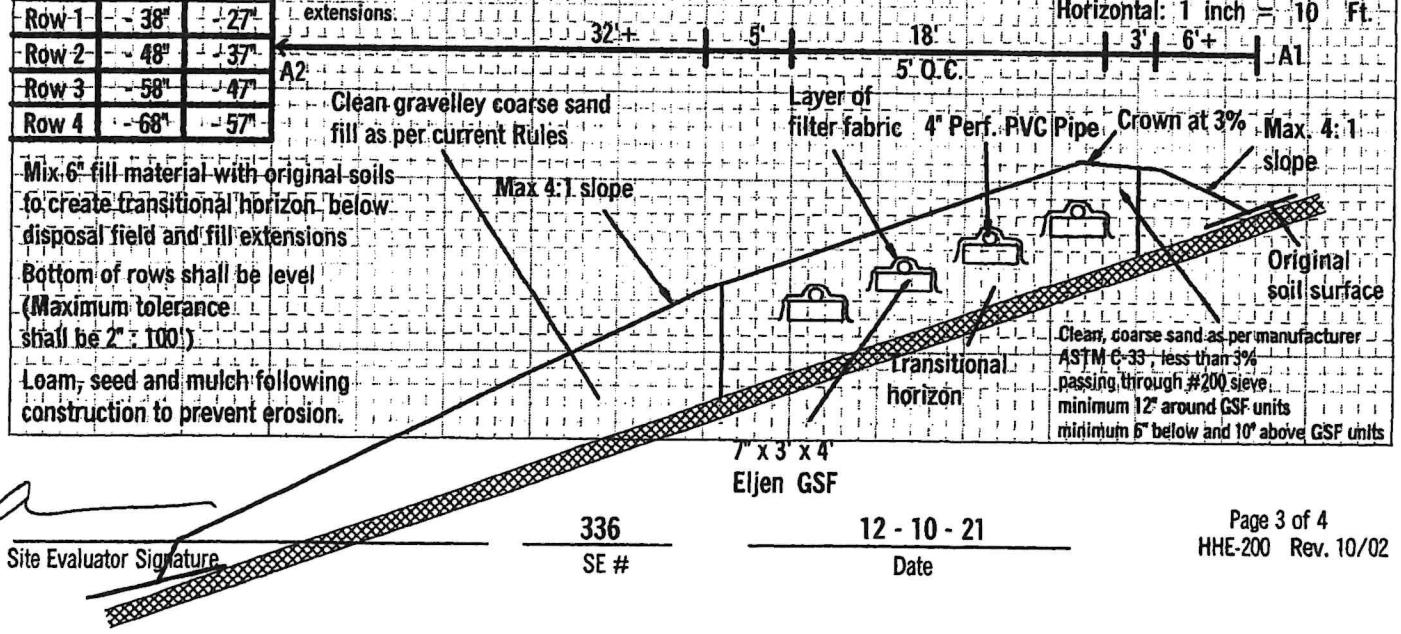
Flagged nail in 6" DBH apple
59" above ground surface
Reference Elevation is assumed 0'0"

DEPTHS AT CROSS SECTION (shown below)

	Bottom of Row	Top of Pipe
Row 1	- 38"	- 27"
Row 2	- 48"	- 37"
Row 3	- 58"	- 47"
Row 4	- 68"	- 57"

DISPOSAL AREA CROSS SECTION

Scale:
Vertical: 1 inch = 5 Ft.
Horizontal: 1 inch = 10 Ft.



Mix 6" fill material with original soils to create transitional horizon below disposal field and fill extensions

Bottom of rows shall be level (Maximum tolerance shall be 2" : 100')

Loam, seed and mulch following construction to prevent erosion.

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Additional notes

1. This system is not designed for the use of a garbage disposal.

2. This system is not designed for backwash from a water softener.

3. On raised systems, the organic loam layer must be removed from trench or bed and slope extension areas prior to fill placement. A bucket with teeth is best used for this construction step as buckets without teeth can compact and smear the underlying soil.

4. Scarify subsoil prior to fill placement.

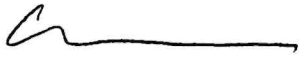
5. Backfill material shall meet Section 11(E) Table 11A of the Maine Rules. All backfill material shall be clean bank run sand, free of topsoil or humus and dredging directly beneath the EDA.

6. The 6" underneath and 9" surrounding the GSF modules shall be installed using a medium to coarse washed sand with an effective size of 0.25 to 2.0 mm, no greater than 10% passing a #100 sieve and no greater than 5% passing a #200 sieve, and no particles larger than .375", or materials meeting the ASTM C33 specification with less than 10% passing a #100 sieve and less than 5% passing a #200 sieve. Washed concrete sand easily meets the above specification and is a reliable choice. Suitability of bank run sand must be verified.

7. Fill (cover material) and backfill material (fill added below and around the GSF Specified Sand envelope) shall be bank run sand with less than 4 to 8% passing a #200 sieve and clay less than 2% and no stones larger than 3" in any dimension to a minimum depth of 12" over the GSF modules with the last 4" to 6" of cover being clean loam.

8. Any system which is more than 18" below finish grade as measured from the top of the modules shall be vented.

9. This design complies with and must be installed in accordance with the Eljen Design and Installation Manual.



Site Evaluator Signature

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