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**Town of North Elba/Village of Lake Placid
Sewerage Disposal System Building Permit Application**

Date: _____

Applicant's Name: _____

Applicant's Address: _____

Applicant's Telephone: _____

Property Owner (if different than applicant): _____

Owner's Address: _____

Owner's Telephone: _____

Type of Use (Residential, Commercial, etc.): _____

New System *: _____ Alteration/Repair: _____

Water Supply – Type and Location: _____

Estimate Sewage Flow: _____ gal/day

Percolation Test Results: _____ Minutes Test 1

_____ Minutes Test 2

Depth to Groundwater: _____ ft. Date Observed: _____

Depth to Bedrock: _____ ft.

<u>Type of System:</u>	<u>Capacity</u>	<u>Dimensions</u>
<input type="radio"/> Septic Tank with leach field	_____	_____
<input type="radio"/> Septic Tank with seepage pit	_____	_____
<input type="radio"/> Fill System	_____	_____
<input type="radio"/> Holding Tank	_____	_____
<input type="radio"/> Alternative System	_____	_____

* Sketch (attached sheet may be used) the proposed location of the sewage treatment system showing, where appropriate, potable water supply and all water lines building sewer, septic tank, distribution box, tile field or seepage pit and other devices and facilities comprising the septic system. Give dimensions, if known, of all devices including capacities of all components of sewage system and approximate separation distances for each. Provide distance of leaching devices and facilities from all lot lines and water supply lines.

Describe surface drainage, soil composition location of all buildings and approximate distances of proposed sewage disposal system from all like facilities and water supply systems on adjoining properties. Construction details and specifications should be included where topography soil conditions or presence of high groundwater or bedrock require other than conventional installation of the disposal system.

Location: _____
 Type of Soil: _____
 Ground Cover: _____
 Surface Slope: _____
 Depth of Test Hole: _____
 Diameter of Test Hole: _____
 Time Elapsed for Draining 1" of Water: _____
 Performed by: _____
 Signature

Soil Percolation Test

The soil percolation test results are related to the ability of a soil to accept treated sewage.

If a shallow sewage disposal system is planned, at least two percolation tests should be performed within the area of the absorption field, and at the depth of the bottom of the trench, as previously stated.

At least two percolation tests should be made at the site of each proposed seepage pit; one at the bottom depth, and the other at half the pit depth. If different soil layers are encountered when digging the test pit, a percolation test should be performed in each layer with overall percolation

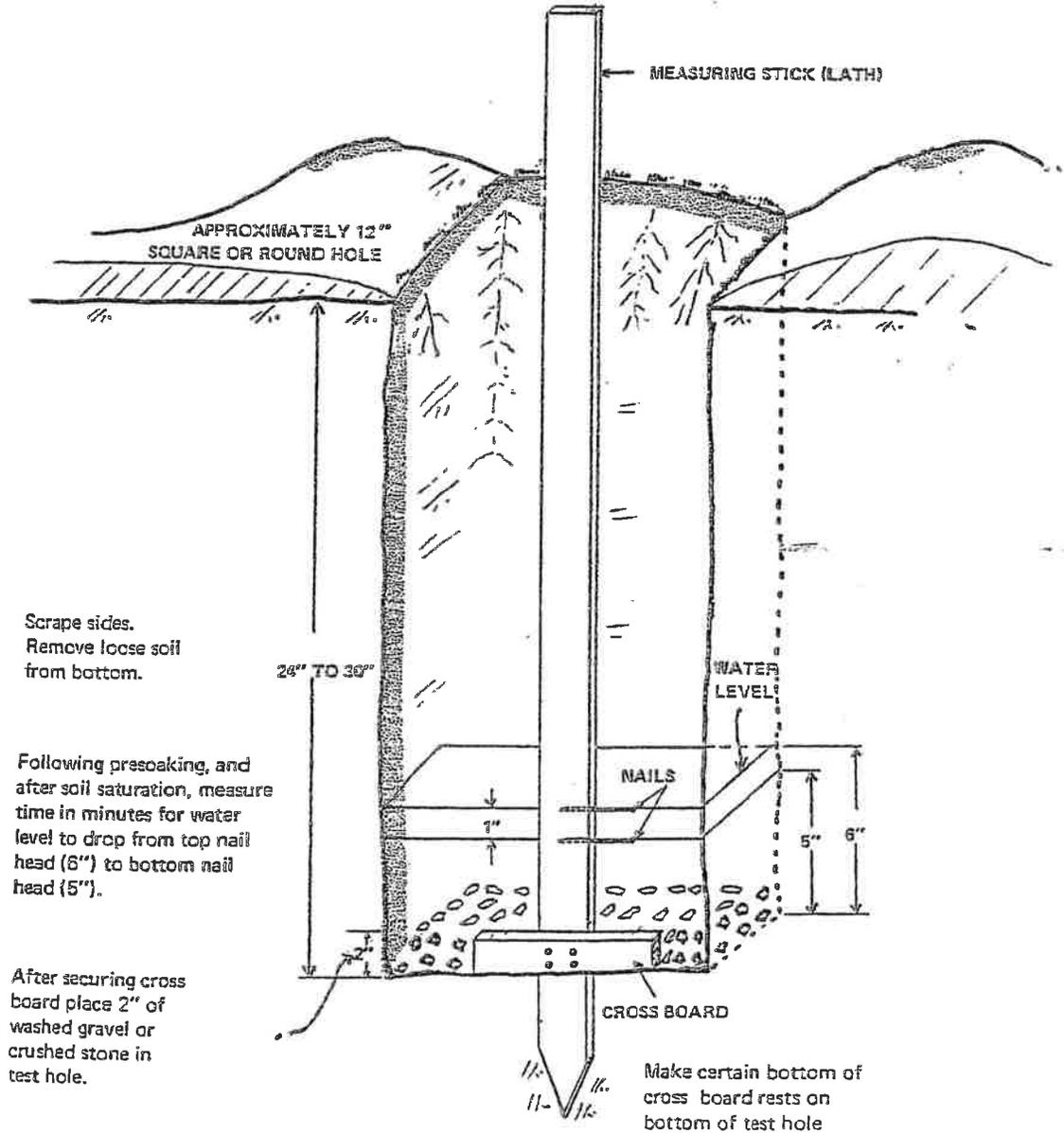


FIGURE 3
 SOIL PERCOLATION TEST

rate being the weighted average of each test based upon the depth of each layer.

Where absorption fields are to be built in fill or disturbed soils, soils should be permitted to stabilize naturally before percolation tests are performed. Stabilization of loam soils is dependent on rainfall and may require six to nine months.

The procedure noted below should be followed in performing a soil percolation test for an absorption field or seepage pit: (Take construction safety precautions.)

- a) Dig a hole with vertical sides and approximately 12 inches wide. If an absorption field is being considered, the depth of the percolation test hole should be 24" to 30 inches below the final ground surface. If a seepage pit is under consideration, percolation tests should be run at one-half the depth and at the full estimated depth of the seepage pit. In order to facilitate the running of the test and prevent cave-in, a larger excavation should be made for the upper portion of the hole with the actual percolation test hole in the bottom (Figure 3). It is necessary to place small stones in the bottom of the test hole to reduce scouring and sifting action when water is poured in the hole. Scrape the sides to eliminate smearing.
- b) Presoak the test hole by periodically filling the hole with water and allowing the water to seep away. This

procedure should be performed for at least four hours and should begin one day before the test except for clean coarse sand and gravel. After the water has seeped away, remove any loose soil that has fallen from the sides of the hole.

- c) Pour clean water into the hole, with as little splashing as possible, to a depth of six inches.
- d) Observe and record the time in minutes required for the water to drop from six inches to five inches.
- e) Repeat the test (a minimum of three times) until the time for the water to drop one inch for two successive tests is approximately equal. The last test will then be taken as the stabilized rate of percolation and the time recorded for this test will be the design basis for determining the absorption area required for a subsurface absorption system.

For example, assume the following rates were obtained in running a test (see d above):

Run No.	Time (minutes)
1	24
2	26
3	30
4	30

The stabilized rate of percolation would then be taken as 30 minutes per inch.

NOTES:

1. House sewer to be laid on well compacted earth.
2. Sewer to be at least four inches in diameter and watertight joints.
3. Bells of each pipe section should face upstream and spigots downstream.

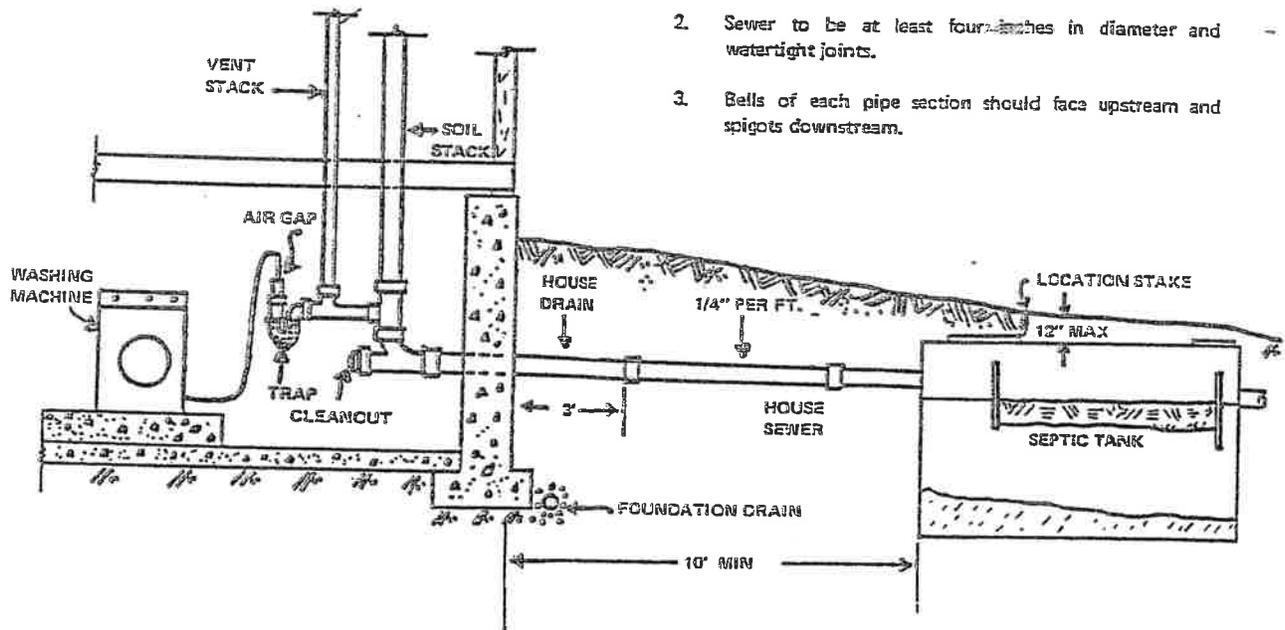


FIGURE 4
HOUSE PLUMBING, DRAIN AND SEWER CONNECTION TO SEPTIC TANK

TABLE 3
MINIMUM SEPTIC TANK CAPACITIES

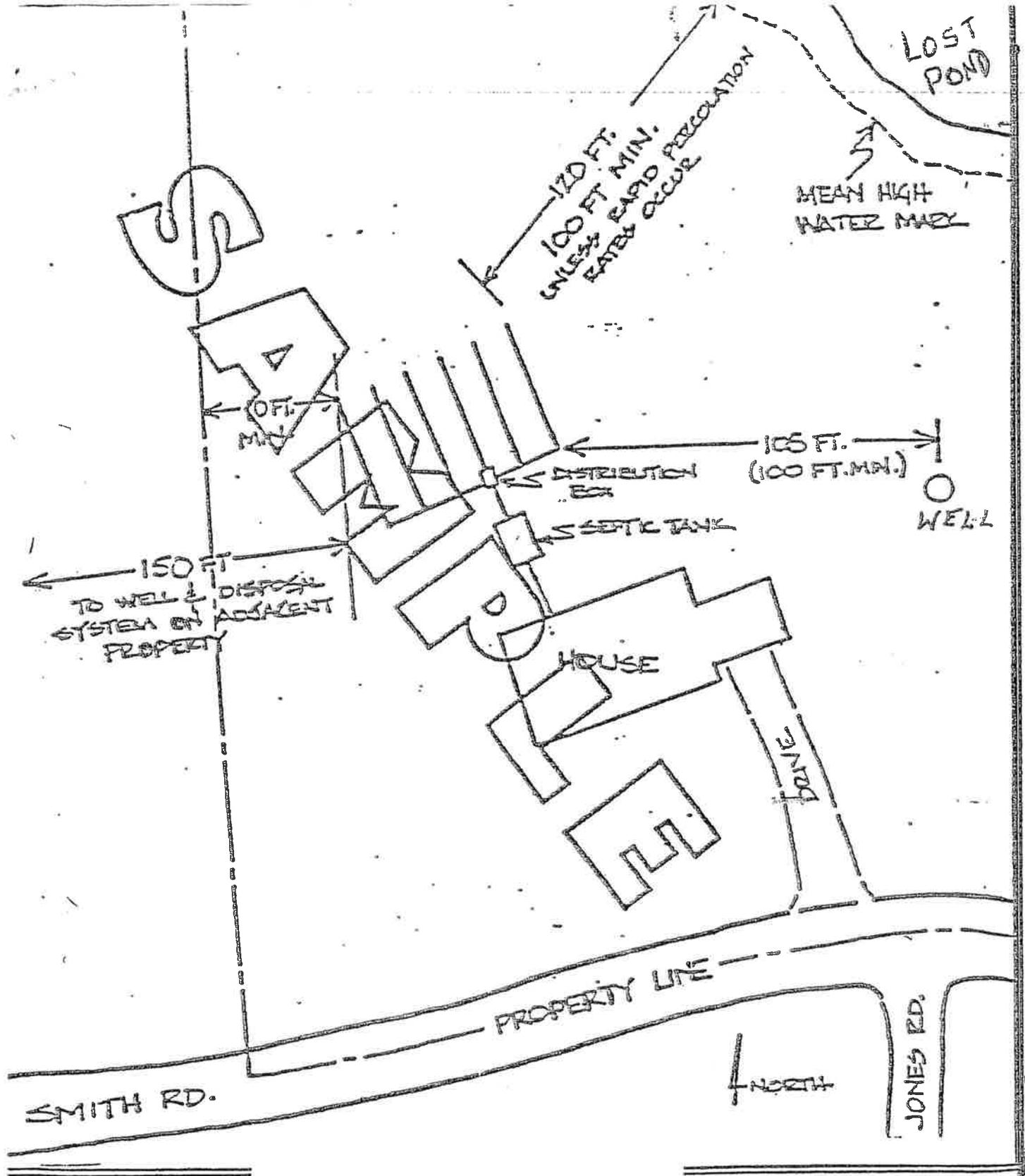
<u>Number of Bedrooms</u>	<u>Minimum Tank Capacity (Gallons)</u>	<u>Minimum Liquid Surface Area (sq. ft.)</u>
1, 2, or 3	1,000	27
4	1,250	34
5	1,500	40
6	1,750	47

NOTE: Tank size requirements for more than six bedrooms shall be calculated by adding 250 gallons and seven square feet of surface area for each additional bedroom. A garbage grinder shall be considered equivalent to an additional bedroom for determining tank size. A hot tub/spa should be considered equivalent to an additional bedroom for determining tank size.

TABLE 5
REQUIRED LENGTH OF ABSORPTION TRENCH
(based upon 2 ft. wide trench)

Percolation Rate Min./Inch	Flow Rate (Gals/Day)														
	2 bedrooms			3 bedrooms			4 bedrooms			5 bedrooms			6 bedrooms		
	220	260	300	330	390	450	440	520	600	550	650	750	660	780	900
1 - 5	92	108	125	138	162	187	184	216	250	230	270	312	275	325	374
6 - 7	110	130	150	165	195	225	220	260	300	275	325	375	330	390	450
8 - 10	123	145	167	184	217	250	245	290	333	306	360	417	367	433	500
11 - 15	138	162	188	207	244	281	275	325	375	344	406	469	413	488	563
16 - 20	158	186	214	236	279	321	315	372	429	393	464	536	472	567	643
21 - 30	184	217	250	275	325	375	367	433	500	459	542	625	550	650	750
31 - 45	220	260	300	330	390	450	440	520	600	550	650	750	660	780	900
46 - 60	245	290	333	367	433	500	489	578	667	612	722	833	734	867	1000*
Dosing Not Required									Dosing or Alternate Design Required						

*Greater than 1,000 ft. of trench requires Alternate Dosing



SKETCH OF PROPOSED
SEWAGE DISPOSAL SYSTEM

APPLICANT _____
 ADDRESS _____
 PHONE NO _____

PLEASE INDICATE INFORMATION
 AS REQUESTED ON PERMIT
 APPLICATION - SEE SAMPLE