

DESIGN FLOW DISCLAIMER: THIS WASTEWATER TREATMENT SYSTEM IS DESIGNED BASED ON A SEWAGE FLOW OF 220 GALLONS PER DAY. THE SYSTEM IS NOT DESIGNED TO ACCOMMODATE EXTREME WATER USE FIXTURES SUCH AS JACUZZI TYPE SPA TUBS OR WATER TREATMENT EQUIPMENT. THE SYSTEM IS NOT DESIGNED TO ACCOMMODATE A GARBAGE GRINDER. THE INSTALLATION OF GARBAGE GRINDERS, NON-CONSERVING WATER FIXTURES OR EXTREME WATER USE FIXTURES IS CONTRARY TO THE DESIGN AND APPROVAL OF THIS WASTEWATER TREATMENT SYSTEM.

Called North

adjacent septic and well greater than 100' from this corner

Lands of Miner  
tax parcel 16.3-1-8.002  
single family dwelling located to the West  
with onsite septic and well

Lands of Lykon  
tax parcel 16.3-1-13  
single family dwelling located to the North  
with onsite septic and well more than 200'  
from property line

PROVIDE A 4' WIDE BUFFER OF TOPSOIL  
AND SEED TO GRASS AT THE EDGE OF  
DISTURBANCE AND ALONG THE APA  
WETLAND FLAGS, SEE CURTAIN DRAIN -  
SWALE DETAILS

RUN CURTAIN DRAIN ABOVE TREATMENT AREA, DAYLIGHT  
DOWNSLOPE  
150' STONE TRENCH AND 4" PERF PIPE  
3' DEPTH, 1.5' WIDE SEE DETAIL  
130' SOLID  
RODENT SCREEN  
2 CLEANOUTS WITH Y FITTINGS AND CAPS  
RUN TO DITCH BY ACCESS ROAD

NEW RAISED FILLED ABSORPTION AREA WITH 15x22'  
ABSORPTION BED W/ TWO PEAT FIBRE BIO-UNITS. FILL  
BELOW BED AND 6' AROUND TO BE CLEAN SAND FILL, 1-5  
MIN PERC RATE  
TRANSITION FILL TO EXISTING GRADES AROUND SYSTEM,  
ESTABLISH GRASS AND SMALL PLANTINGS FOR SCREENING  
AT TOE OF FILL  
TOPSOIL AND SEED TO GRASS  
NOTE, LEAVE STUMPS FOR EROSION CONTROL THIS AREA  
PLANT CEDARS AT 10' SPACING TO PROVIDE INCREASED  
WETLANDS PROTECTION (12) TREES REQUIRED 2" CAL.

2" SCHED 40 EFFLUENT LINE TO BED  
2' BURIAL, UNIFORM AND CONSTANT  
SLOPE BACK TO PUMP CHAMBER, SEE  
DETAIL  
EFFLUENT MUST DRAIN BACK TO PUMP  
CHAMBER WHEN PUMP IS OFF.

1000 DUAL COMPART SEPTIC  
TANK  
WITH PL68 OUTLET FILTER  
POLYLOK RISERS-CAPS  
1000 GAL PUMP CHAMBER WITH  
CHARCOAL AIR VENT

ESTABLISH SILT FENCE BETWEEN  
WETLANDS AND CLEARING LIMITS  
INCLUDING DRAINAGE FEATURES,  
BUILDING SITE AND ON-SITE  
WASTEWATER TREATMENT AREA  
425 LF REQUIRED

Lands of Emerson Joseph Longo  
and Sandra Reilly  
tax parcel 16.3-1-12  
vacant wooded land

#### APPENDIX 75A SETBACK DISTANCES:

TREATMENT AREA TO PROPERTY LINE: 10'  
SEPTIC TANK TO HOUSE: 10'  
SEPTIC TANK TO WELL: 50'  
TREAT. AREA TO HOUSE: 20'

SOIL TEST DATA TAKEN ON MAY 2, 2024 BY RMB  
APA PROJECT NUMBER P2024-007

DEPTH	DESCRIPTION	MOTTLING
0-12"	DARK FOREST DUFF LOAM-TOPSOIL	NO
12-22"	BROWN & GREY SILTY SAND W/ GRAVELS, MED COURSE, DAMP	YES AT 16"
22-48"	GREY & RED SILTY SAND, COBBLES, COURSE, SATURATED, BOULDERS	YES
48"	LEDGE - REFUSAL	
	WATER SEEPAGE AT 24	
16"	MOTTLING OBSERVED	

PERC TEST 1: 3m AT 12" DEPTH  
PERC TEST 2: 8m AT 13" DEPTH

#### PEAT FILTRATION MEDIA REQUIREMENTS:

- Peat fiber is residue of Eriophorum (cotton grass) plants, carefully extracted from raised bog peats (other natural residues and peat fines are present in small quantities)
- Moisture content on wet basis is 50-70%
- Min. organic content on anhydrous basis is 95%
- Water adsorption capacity, 72 hr. test, is 400-700%
- Average air filled porosity(AFP) is 51%

PURFLO INSTALLATION ASSURANCE REQUIREMENTS: APPROVED SOURCE FOR PURAFLO SYSTEM IS EMMONS PUMP, ALBANY NY 694-0404

#### A) Single Source Packaged Puraflo System.

The entire system must be purchased from a Certified Stocking Distributor of Puraflo Products. The package system is to include the following: Modules, Sampling Chamber, Special Connecting Packages, Control System, Check Valve, Ball Valve, Junction Box NEMA 4X, Zabel Filter 1/32 Filtration, S/S Float Bracket, Effluent Pump, S/S Lifting Chain & Shackles and Schedule 40 PVC Pressure Type Fittings.

#### B) Certified Training Instructor.

A Certified Training Instructor for Puraflo Systems Installations must be on site during the installation. The System must be started up and tested for proper operation by the Certified Trainer before the Contractor is allowed to cover the systems piping and the sides of the Modules.

#### C) Yearly Maintenance Agreement.

A Maintenance Agreement (RME) as required by NYS DOH 75A.6 Regulations. This agreement is to be in place upon completion of the installation and will be performed by a Certified Trainer Of Puraflo Products on a yearly basis for at least five years after commissioning the system.

#### DESIGN DATA: NEW SYSTEM

DESIGN FLOW = 220 GPD TWO BEDROOM HOME W/ NEW STANDARD FIXTURES, (1.6 GPF & 3 CPM MAX.)  
DUE TO DIFFICULT SOILS AND GROUNDWATER A RAISED, FILL SYSTEM WITH DOSING WILL BE INSTALLED  
USE PEAT FIBRE BIOFILTRATION UNITS WITH TIMED DOSE CONTROL PANEL SYSTEM WIRED ON DEDICATED CIRCUIT BREAKERS  
HIGH WATER ALARM, CONTROL PANELS AT OR NEAR PUMP STATION

(1) 'BLUE' PEAT FIBRE BIOFILTRATION UNIT BY PURAFLO OR EQUAL

(1) 'GREEN' PEAT FIBRE "SAMPLING" UNIT BY PURAFLO OR EQUAL

NEW 1000 GALL DUAL CHAM ST, PL68 OUTLET FILTER, TEE HANDLE

NEW 1000 GALL PUMP CHAMBER

15x22 RAISED STONE ABSORPTION BED PLACED IN 2' OF LIGHTLY COMPACTED CLEAN SAND FILL WITH PERC RATE OF 1-5 MIN.

SIZE ABSORPTION BED:

TABLE 5, APP RATE 0.7 GPD/SF -> 314 SF REQD

USE 15 X 22' ABSORPTION BED 330 SF (SEE SCHEMATIC)

CHECK BASAL AREA:

ABSORPTION BED PLACED ON LOW SLOPE SITE

USE APPENDIX 75-A.9.C.3.ii

TABLE 4B, APP RATE 0.9 GPD/SF, 244 SF BASAL AREA REQ'D

TOTAL BASAL AREA = 1000 SF > REQUIRED



#### GENERAL NOTES:

- SYSTEM DESIGN PER NYSDOH APPENDIX 75-A
- ALL ROOF OR HOUSE DISCHARGES SHALL BE DIRECTED AWAY FROM THE TREATMENT AREA.
- OWNER/CONTRACTOR RESPONSIBLE FOR ASBUILT SKETCH OF ACTUAL LOCATION OF COMPONENTS.
- PRIOR TO EXCAVATING CONTACT DIG SAFE AT B11
- AT LEAST TWO PERCOLATION TESTS SHALL BE TAKEN IN THE AREAS OF TREATMENT BY A NYS PE.
- MATERIAL USED FOR FILL SHALL BE HOMOGENEOUS CLEAN SAND FILL WITH NO STONES LARGER THAN 4 INCHES IN DIAMETER
- TREES AND ROOTS SHALL BE CUT TO GRADE AND REMOVED FROM TREATMENT AREAS. DO NOT REMOVE STUMPS BELOW ABSORPTION AREA.
- SEAL UNUSED INLETS OF SEPTIC TANK.
- ALL COMPONENTS TO BE SET ON A LEVEL 6" GRAVEL BASE.
- SEPTIC TANK PRECAST CH OR EQUAL.
- DBOX TO BE 5-OUTLET CH OR EQUAL WITH SPEED LEVELERS.
- WATER SUPPLY IS MUNICIPAL.
- PROPERTY INFORMATION SUPPLIED BY SURVEYOR, DO NOT USE THIS OWT'S PLAN FOR SURVEY INFORMATION.

#### CONSTRUCTION NOTES:

- HEAVY CONSTRUCTION EQUIPMENT SHALL NOT BE ALLOWED WITHIN THE TREATMENT AREA. VEHICULAR PARKING SHALL NOT BE ALLOWED ON ANY PORTION OF THE SEWAGE TREATMENT SYSTEM.
- BED TO BE COVERED WITH 6" TOPSOIL MINIMUM.
- DIVERSION DITCH OR CURTAIN DRAIN SHALL BE CONSTRUCTED TO DIRECT RUNOFF WATER AWAY FROM THE BED.
- REMOVE GRASS, SURFACE ROOTS, LARGE BOULDERS AND STUMPS FROM THE TREATMENT AREA, ROUGHEN THE ENTIRE AREA BELOW THE ABS BED AND TAPERS IN THE SAME DIRECTION AS THE DISTRIBUTION PIPES PRIOR TO PLACING FILL. HAND RAKE AS REQUIRED.
- FILL MATERIAL SHALL BE CLEAN, UNIFORM SAND FILL MATERIAL W/ 1-5 MIN PERC RATE (UNO).
- FILL MATERIAL TO BE LIGHTLY COMPACTED IN 6" LIFTS WITH LAWN ROLLERS, NO VIBRATORY COMPACTION ALLOWED.
- USE ONLY LIGHT CONST. EQUIPMENT IN TREATMENT AREA: SKID STEER OR MINI-EXCAVATOR.
- CARE MUST BE TAKEN TO CONSTRUCT ABSORPTION BED DURING DRY PERIODS.
- DISTURBED AREAS SHALL BE NEATLY BLENDED IN WITH ORIGINAL GRADE, SEED TO GRASS AND PROTECTED AGAINST EROSION WITH STRAW AS REQUIRED.

#### MAINTENANCE NOTES:

- CONTENTS OF THE SEPTIC TANK SHALL BE PUMPED EVERY YEAR OR WHEN THE DEPTH OF SLUDGE EXCEEDS 1/4 OF THE LIQUID LEVEL. TANKS SHALL BE INSPECTED WHEN PUMPED.
- ENSURE THAT EXCESSIVE AMOUNTS OF DETERGENTS AND HOUSEHOLD CHEMICALS DO NOT ENTER THE SYSTEM.
- NEVER FLUSH SANITARY NAPKINS, DIAPERS ETC.
- NEVER ENTER A SEPTIC TANK
- NEVER USE ABSORPTION AREAS FOR VEHICLE PARKING.
- CHECK ABSORPTION AREAS FOR SURFACE PONDING.
- USE WATER CONSERVING NEW APPLIANCES (WASHER AND DISHWASHER)
- DWELLINGS AND SEPTIC SYSTEMS USED FOR VACATION RENTALS SHOULD HAVE TANKS PUMPED AT LEAST ANNUALLY, CLEAN FILTER.

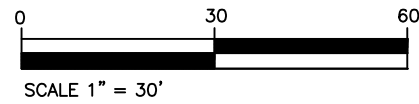
IT IS A VIOLATION OF THE LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF THE LICENSED ENGINEER, TO ALTER ANY ITEM OR PORTION OF THIS DOCUMENT IN ANY WAY.

IF IN THE COURSE OF THIS PROJECT A CONDITION EXISTS WHICH DISAGREES WITH THAT AS REPRESENTED ON THESE PLANS, THE CONTRACTOR SHALL STOP WORK AND NOTIFY THE ENGINEER OR ASSUME ALL RESPONSIBILITY ARISING THEREFROM.

IT IS THE RESPONSIBILITY OF THE OWNER/CONTRACTOR TO ENSURE THAT ALL MATERIAL ORDERED COMPLIES WITH PROJECT REQUIREMENTS.



#### PLAN - PROPOSED TREATMENT SYSTEM



#### Proposed Clearing Area, and Dwelling Criteria

New Cleared Area	Proposed Driveway	Dwelling Size and Area	Dwelling Criteria
15,000sf	build-clear new gravel driveway	Proposed 2 BEDROOM CABIN 24'x32' 768 SF FOOTPRINT 10x24 SCREEN PORCH 1008 SF TOTAL	1.5 story Log Cabin 32' max peak height from original grade at lowest adjacent grade wood or composite siding, brown or green walls and roof

Note: New Cleared Area is for home, new driveway, parking and treatment area

## APA ATTACHMENT F APA 2024-0078

THE MAXIMUM NUMBER OF BEDROOMS FOR THE PROPOSED DWELLING FOR IS TWO. PROPOSED DWELLING AND LEACH SYSTEMS MUST BE LOCATED AS SHOWN ON THE APPROVED PLOT PLAN.

SURVEY INFORMATION TAKEN AND PREPARED BY ADIRONDACK SURVEYING  
PERMISSION HAS BEEN GRANTED FOR USE  
FINAL PROPERTY SURVEY INFORMATION PREPARED BY SURVEYOR

RYAN M. BURNS, NYS P.E. LICENSE No. 084062  
DESTROY PREVIOUSLY DATED DRAWINGS

2 APR-2-25 RB APA COMMENTS

1 FEB-1-25 RB APA COMMENTS

NO. DATE BY REVISIONS

LIFSTATE DESIGN ASSOCIATES, LLC  
RESIDENTIAL DESIGN AND CIVIL ENGINEERING  
LIFSTATE DESIGN CHARTER, INC.

RYAN M. BURNS, P.E. P: 518-834-9898  
PO BOX 65  
PORT KENT NY 12975

NEW RESIDENTIAL ONSITE TREATMENT SYSTEM  
PROJECT: GUY STEPHENSON

LOCATION: ESTERVUE WAY, WILMINGTON NY

DATE: JULY 21, 2024

DRN. BY: RMB SHEET NO. 1