

ENVIRONMENTAL SYSTEMS LLC.

*2358 HWY# 23
MORA MN. 55051
Ph. 320-241-7036
06/26/2024*

TYPE III MOUND DESIGN

LOCATION: 424 7th AVE AITKIN MN. 56431

PID: 01-0-057302

OWNER: Jeffrey and Tabatha Boyd

SYSTEM TYPE: TYPE III

DESIGN FLOW: 4 BEDROOM DESIGNED @ 600 GPD

TREATMENT AREA: 500 SQ.FT.

SLOPE: 6 %

SEPTIC TANK: 2500 GAL. SPLIT/COMBO

PUMP TANK: 1000 GAL.

PUMP: GOULDS WE511

FILTER: POLYLOK PL-122 With alarm

FLOW CONTROL & METER: SJE RHOMBUS

EZP11W6COH1JV8G10EP17A22C

KEVIN HERWIG M.P.C.A 3945



ENVIRONMENTAL SYSTEMS LLC.

DESIGN-INSPECTION

2358 HYY#23 MORA MN. 55051

06/26/2024

Ph. 320-679-4031

CONSTRUCTION NOTES

PRODUCT BRAND & MODEL LISTED IN DESIGN MUST BE USED: BROWN-WILBERT 2500 SPLIT SEPTIC TANK

BROWN-WILBERT 1000 PUMP TANK

*****PUMP CHAMBER AND PUMP SETTINGS WILL NOT BE CORRECT IF OTHER PRODUCTS ARE USED.**

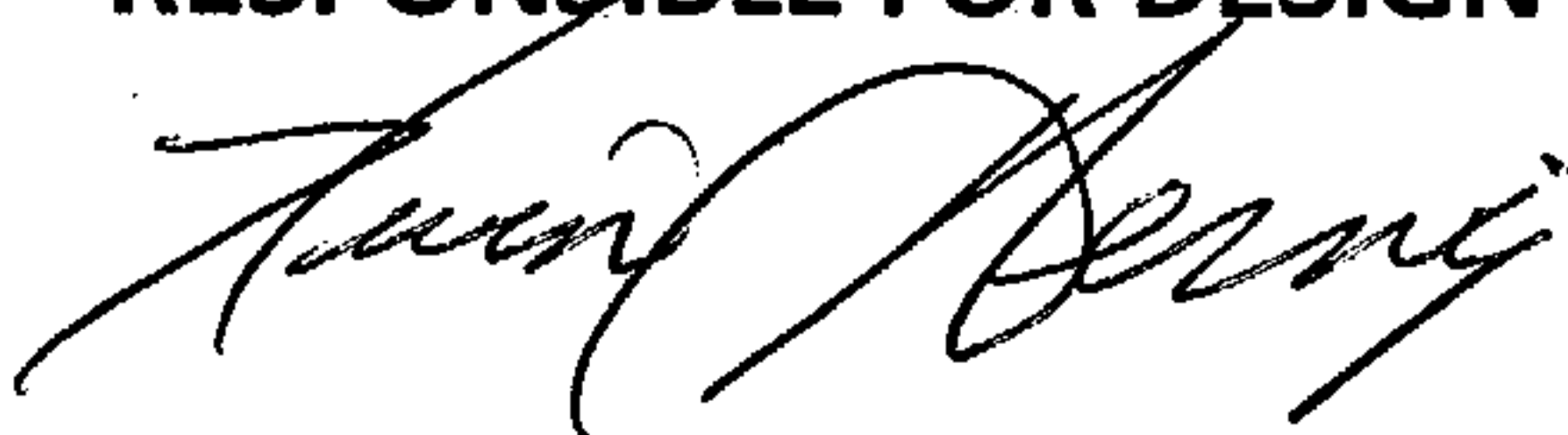
GOULDS WE511 PUMP

EFFLUENT FILTER POLYLOK PL-122 W/ALARM

A TWO-WAY CLEANOUT IS TO BE INSTALLED 1 FOOT OUTSIDE HOME

**FLOW CONTROL, METER, AND ALARM: SJE RHOMBUS
EZP11W6COH1JV8G10EP17A22C**

IT IS THE DESIGNER'S DISCRETION TO APPROVE OR DISAPPROVE SUBSTITUTIONS. THE INSTALLER WILL BE RESPONSIBLE FOR DESIGN CHANGE FEE.

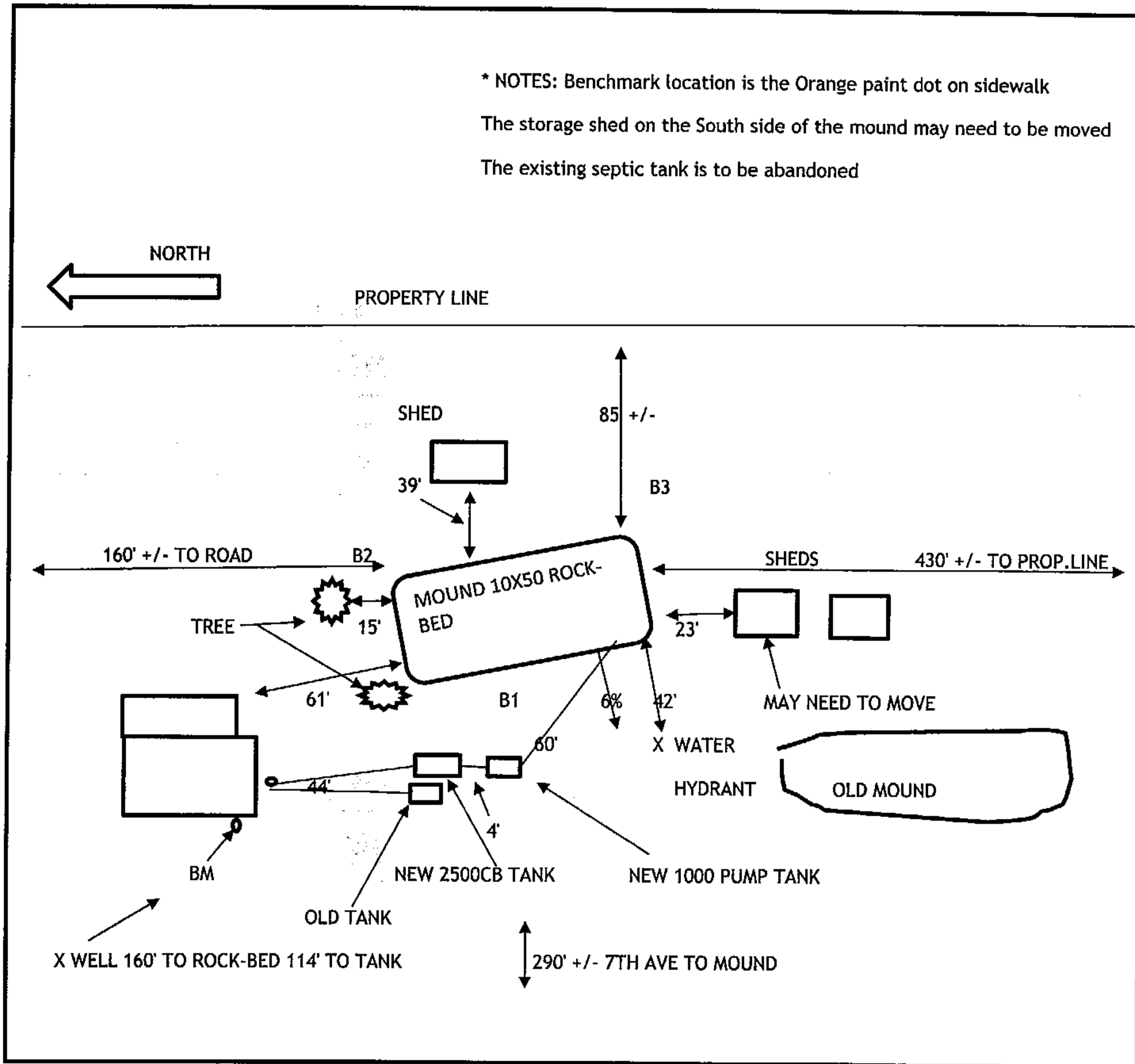
 #3945

Project ID:

v 04.02.2024

Property Owner/Client: Jeffrey and Tabatha Boyd

* NOTES: Benchmark location is the Orange paint dot on sidewalk
 The storage shed on the South side of the mound may need to be moved
 The existing septic tank is to be abandoned



Map scale:

Indicated north

Show slope/contours

System Corners

1	2	
		↑
3	4	N
		<input type="text" value="95.75"/> ft
		<input type="text" value="95.1"/> ft

Elevations in feet

Benchmark Elev: ft

Benchmark Location:

ROCK BED CORNERS

Corner 1	<input type="text" value="100.75"/> ft
Corner 2	<input type="text" value="100.7"/> ft
Corner 3	<input type="text" value="100.15"/> ft
Corner 4	<input type="text" value="100.45"/> ft

Soil Observation:

#1:	<input type="text" value="99.1"/> ft	TANK INLET
#2:	<input type="text" value="99.85"/> ft	Other:
#3:	<input type="text" value="99.8"/> ft	<u>PUMP TANK INLET</u>
#4:	<input type="text" value=""/> ft	

Date Completed:

Preliminary & Field Evaluation Form

www.SepticResource.com ver

Owner Information

Date 6/26/2024 Sec / Twp / Rng 25-47-27
 Parcel ID 01-0-057302 LUG (county, city, township) Aitkin
 Property Owner: Jeffrey and Tabatha Boyd Owners address (if different)
 Property Address: 424 7th Ave SE Aitkin Mn.
 City / State / Zip: Aitkin Mn.

Flow Information and Waste Type / Strength

Estimated Design flow 600 Anticipated Waste strength Hi Strength Domestic
 Comments: Any Non-Domestic Waste Yes (class V) No
 Sewage ejector/grinder pump Yes No
 Water softener Yes No
 Garbage Disposal Yes No
 Daycare / In home business Yes No

Site Information

Existing & proposed lot improvements located (see site map) Yes No Well casing depth >55
 Easements on lot located (see site map) Yes No Drainfield w/in 100' of residential well Yes No
 Property lines determined (see site map) Yes No Site w/in 200' of transient noncommunity water supply (TNCWS) Yes No
 Req'd setbacks determined (see site map) Yes No Site w/in an inner wellhead mgmt zone (CWS/NTNCWS) Yes No
 Utilities located & identified (gopher state one call) Yes No Buried water supply pipe w/in 50' of system Yes No
 Access for system maintenance (shown on site map) Yes No Site located in Shoreland (w/in 1000' of lake, 300' of river) Yes No
 Soil treatment area protected Yes No Site map prepared with previous items included Yes No

Construction related issues

Soil Information

Evidence of site:

- Cut Yes No
- Filled Yes No
- Compacted Yes No
- Disturbed Yes No

Original soils Yes No

Soil logs completed and attached Yes No

Perk test completed and attached (if applicable) Yes No

Soil loading rate (gpd/ft²) 0.78

Percolation rate (if applicable) _____

Depth/elev to SHWT 7.00

Flooding or run-on potential Yes No
(comments)

Depth to system bottom maximum (or elev minimum) -36.00

Flood elevation (if applicable) _____

Depth/elev to standing water (if applicable) na

Elevation of ordinary high water level (if applicable) _____

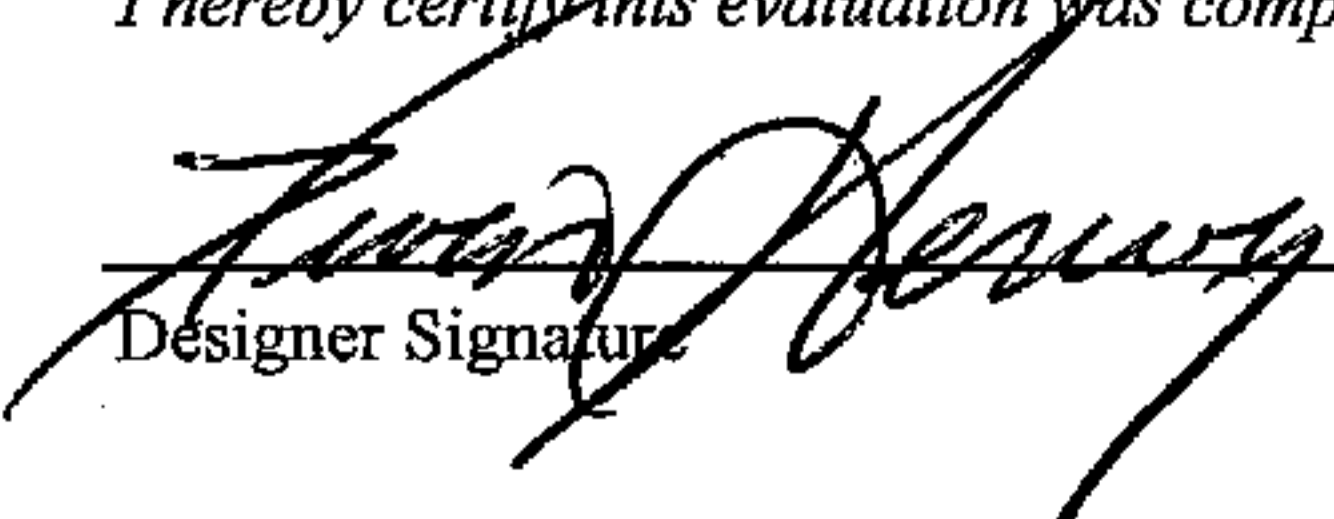
Depth/elev to bedrock (if applicable) na

Floodplain designation and elev - 100 yr/10 yr (if applicable) _____

Soil Survey information determined (see attachment) Yes No

Differences between soil survey and field evaluation (if applicable) color sandy loam not loamy sand

I hereby certify this evaluation was completed in accordance with MN 7080 and any local req's.



Designer Signature

ENVIRONMENTAL SYSTEMS
Company

3945
License #

Soil Observation Log

www.SepticResource.com vers 12.4

Owner Information

Property Owner / project: Jeffrey and Tabatha Boyd Date 6/26/2024
 Property Address / PID: 424 7th Ave SE Aitkin Mn.

Soil Survey Information

refer to attached soil survey

Parent mat'l's: Till Outwash Lacustrine Alluvium Organic Bedrock
 landscape position: Summit Shoulder Side slope Toe slope
 soil survey map units: 625 slope 6 % direction- downhill

Soil Log #1

Boring Pit Elevation 99.7 Depth to SHWT 99.1

Depth (in)	Texture	fragment %	matrix color	redox color	consistence	grade	shape
0-7	Sandy Loam	<35	10yr3/2		Friable	Weak	Granular
7-13	Sandy Loam	<35	10yr4/4	10yr5/8	Friable	Weak	Blocky
13-20	Clay Loam	<35 35 - 50 >50	2.5yr4/4	7.5yr5/6	Friable	Weak	Blocky
		<35 35 - 50 >50			loose friable firm rigid	loose weak moderate strong	single grain granular blocky prismatic platy massive
		<35 35 - 50 >50			loose friable firm rigid	loose weak moderate strong	single grain granular blocky prismatic platy massive

Comments:

424 7th Ave SE Aitkin Mn.

Soil Log #2

 Boring PitElevation 100.45Depth to SHWT 99.85

Depth (in)	Texture	fragment %	matrix color	redox color	consistence	grade	shape
0-7	Sandy Loam	<35	10yr3/2		Friable	Weak	Granular
7-13	Sandy Loam	<35	10yr4/4	10yr5/8	Friable	Weak	Blocky
13-22	Clay Loam	<35 35 - 50 >50	2.5yr4/4	7.5yr5/6	Friable	Weak	Blocky
		<35 35 - 50 >50			loose friable firm rigid	loose weak moderate strong	single grain granular blocky prismatic platy massive
		<35 35 - 50 >50			loose friable firm rigid	loose weak moderate strong	single grain granular blocky prismatic platy massive

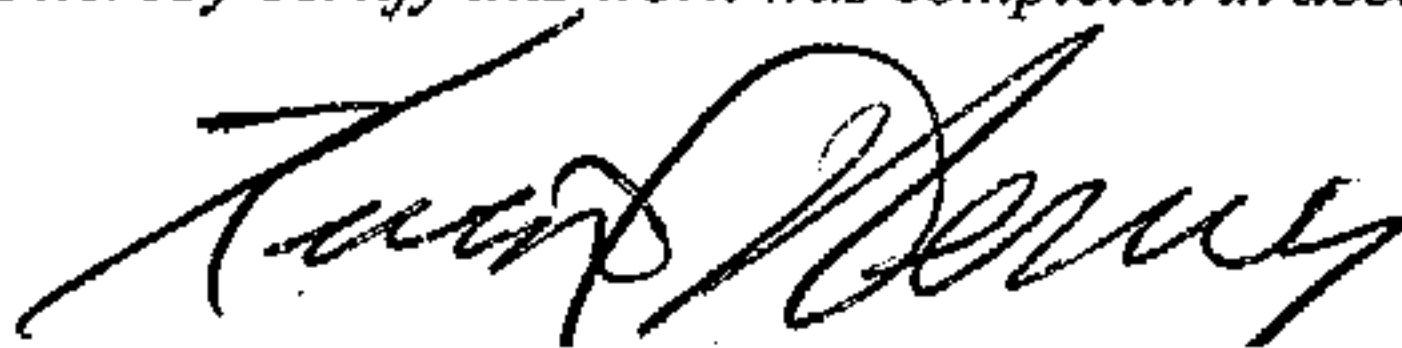
424 7th Ave SE Aitkin Mn.

Soil Log #3

 Boring PitElevation 100.4Depth to SHWT 99.8

Depth (in)	Texture	fragment %	matrix color	redox color	consistence	grade	shape
0-7	Sandy Loam	<35	10yr3/2		Friable	Weak	Granular
7-13	Sandy Loam	<35	10yr4/4	10yr5/8	Friable	Weak	Blocky
13-18	Clay Loam	<35 35 - 50 >50	2.5yr4/4	7.5yr5/6	Friable	Weak	Blocky
		<35 35 - 50 >50			loose friable firm rigid	loose weak moderate strong	single grain granular blocky prismatic platy massive
		<35 35 - 50 >50			loose friable firm rigid	loose weak moderate strong	single grain granular blocky prismatic platy massive

I hereby certify this work was completed in accordance with MN 7080 and any local req's.



#3945

Mound Design - Aitkin county

Property Owner: Jeffrey and Tabatha Boyd Date: 6/26/2024
 Site Address: 424 7th Ave SE Aitkin Mn. PID: 01-0-057302
 Comments: Ordered by the Mille Lacs Band of Ojibwe

Instructions: = enter data = adjust if desired = computer calculated - DO NOT CHANGE!

- 1) 4 bedroom Type Residential System
- 2) 600 GPD design flow
- 3) No Garbage disposal or pumped to septic
- 4) 1500 Gal Septic tank (code minimum) 2500 Gal Septic tank (design size / LUG req'd)
 Tank options: none
- 5) 1.2 GPD/ft² mound sand loading rate contour loading rate of 12 req's a min 50 ft. long rockbed
- 6) 10.0 ft rockbed width 50.0 ft rockbed length
- 7) 3.0 ft lateral spacing 3.0 ft perforation spacing (maximum of 3 for both)
 end feed manifold connection
- 8) 3 laterals 48.0 feet long 17.0 perfs / lateral 51 perfs total
 (1/2 a perf means the first perf starts at the middle feed manifold)
- 9) 1/4" inch perfs at 1 feet residual head gives 0.74 gpm flow rate per perforation
 for this perf size & spacing, & pipe size on line 12, max perfs/lateral = 25, line #8 must be less --> OK
- 10) 4.0 doses per day (4 minimum)
- 11) 150 gallons per dose (treatment volume)
- 12) 2.00 inch diameter laterals must be used to meet "4x pipe volume" requirement 2.00 5x
- 13) 60 feet of 2.0 inch supply line leads to 10 gallons of drainback volume 2.00 3x
 (Tip: "top feed" manifold to control the drainback)
- 14) 160 gallons TOTAL pump out volume (treatment + drainback)
- 15) 14 feet vertical lift from pump to mound laterals, leads to a:
- 16) 38 GPM @ 22 feet of head, Pump requirement (note: >50gpm may require an extra 3-6' of head)
- 17) 500 gal Dose tank (code minimum) 1000 gal Dose tank (design size / LUG req'd) at 24.50 gpi
 leads to a
- 18) 6.5 inch swing on Demand float, or timed dosing of 4.2 min ON (confirm pump rate with drawdown
 (this delivers Average flow, =70% of Peak design flow) 9 hrs OFF test and adjust as necessary)
- 19) 12 inches from bottom of tank to "Pump OFF" float
- 20) 19 inches from bottom of tank to "Pump ON" float, or 12 inches to "Timer ON" float if time dosed
- 21) 22 inches from bottom of tank to "Hi Level" float, or 32 inches to "Hi Level" float if time dosed
- 22) 461 gallons reserve capacity (after High Level Alarm is activated)

23) 0.78 gpd/ft² Absorption area Soil Loading Rate, which gives a mound ratio of 1.5 (minimum)
(this must match the soil boring log) desired mound ratio 1.5

24) 3 percent site slope (0-20% range) 3 (% downslope site slope, if different than upslope)

25) 7 inches, or 0.6 ft. to Redox or other limiting condition (need at least 12" to be a Type I)

Treatment zone contains 0 inches of 0% soil credit, and 0 inches of 50% soil credit. Giving a:

26) 36 inch, or 3.0 ft. Sand Lift Mound **CRITICAL FOR FUTURE CERTIFICATIONS!!!**

27) 15.0 ft. base absorption width (with sand beyond rockbed as follows:)

29.5 greater of: absorption width OR sand slope

28) 0.0 ft. upslope and sideslope sand upslope 14.3
5.0 ft. Downslope sand down slope 19.5

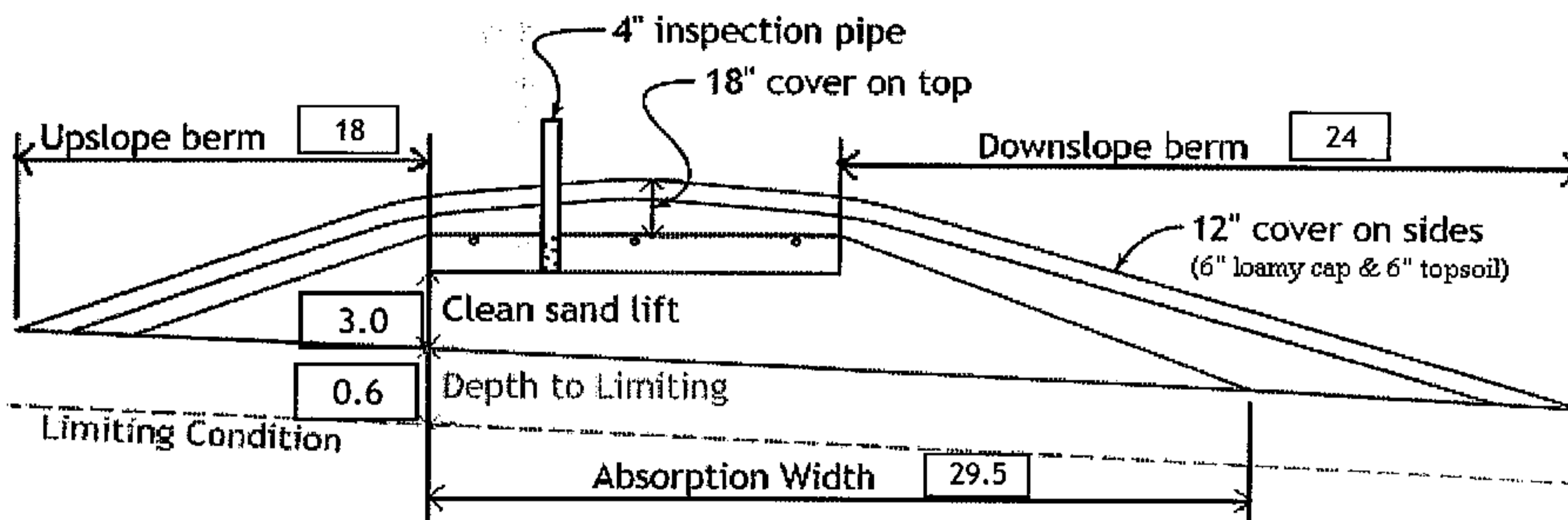
Individual slope ratios give BERM widths (topsoil beyond rockbed) of:

29) 4:1 upslope ratio 18 ft. upslope berm

30) 3:1 sideslope 16 ft. sideslope berms

31) 4:1 downslope 24 ft. downslope berm

32) Overall Dimensions: 10.0 ft. wide by 50.0 ft. long Rock bed
52 ft. wide by 82 ft. long Mound footprint



Note:

For 0 to 1% slopes, *Absorption Width* is measured from the *Bed* equally in both directions.
For slopes >1%, *Absorption Width* is measured downhill from the upslope edge of the *Bed*.

33) Rock Bed: 10.0 ft. by 50.0 ft. by 6 inches under pipe, plus 20% gives 17 yd³ or *1.4= 24 ton

34) Mound Sand: (note: volume is based on 3:1/4:1 slope from top of rockbed, Exchange sand for loamy cap if desired)
78.3 up + 115.0 downslope + 20.5 ends + 58.3 under rock = 327 yd³ or *1.4= 457 ton
plus 20%

35) Loamy Cap: 48 ft. by 78 ft. 6" deep, plus 20% gives 84 yd³ or *1.4= 118 ton

36) Topsoil: 52 ft. by 82 ft. 6" deep, plus 20% gives 95 yd³ or *1.4= 133 ton

I hereby certify that I have completed this work in accordance with all applicable ordinances, rules and laws.

ENVIRONMENTAL SYSTEMS

3945

6/26/2024

Installer Summary

2500 gallon Septic tank (minimum)

Tank options: none

1000 gallon Dose tank (minimum)

at **24.50** gpi

38 GPM @ **22** ft. of head, Pump required

6.5 inch swing on Demand float which translates to roughly **4.3** inches of float tether length

if time dosing is required --> **4.2** minutes ON time & **9** hours OFF time

19 inches from bottom of tank to "pump ON" float, or **12** inches to "timer ON" float

22 inches from bottom of tank to "Hi Level Alarm" or **32** inches to "Hi level alarm" if time dosed

60 ft. of **2.0** inch supply line with **end feed** manifold connection

(Tip: "top feed" manifold to control drainback)

36 inch, or **3.0** ft. Sand Lift Mound

10.0 ft. wide by **50.0** ft. long Rock bed

3 laterals **2.00** inch diameter **48.0** ft. long **3.0** ft. lateral spacing

1/4" inch perfs **3.0** ft. perforation spacing

No Effluent filter & alarm

3 clean out & valve box assemblies

29.5 ft. Total sand ABSORPTION width (minimum)

14.3 ft. upslope and sideslope (sand beyond rockbed, minimum)

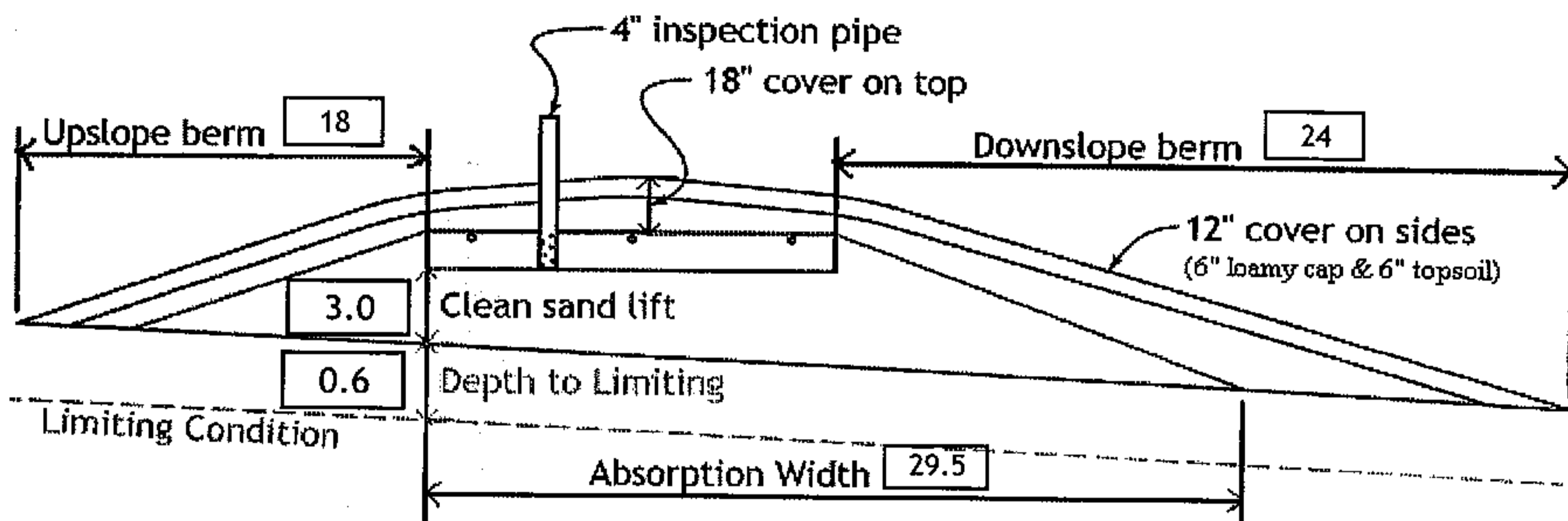
19.5 ft. Downslope (sand beyond rockbed, minimum)

Specific slope ratios give BERM widths (topsoil beyond rockbed) of:

4:1 upslope ratio **18** ft. upslope berm

3:1 sideslope **16** ft. sideslope berms

4:1 downslope **24** ft. downslope berm



Note:

For 0 to 1% slopes, *Absorption Width* is measured from the *Bed* equally in both directions.
 For slopes >1%, *Absorption Width* is measured downhill from the upslope edge of the *Bed*.

Rock Bed: **17.0** yd³ or *1.4= **24** ton

Mound Sand: **327** yd³ or *1.4= **457** ton

6 inches under pipe

calculation based on 3:1/4:1 slope from top of rockbed

Loamy Cap:

84

 yd³ or *1.4=

118

 ton 6" deep
 Topsoil:

95

 yd³ or *1.4=

133

 ton 6" deep

INSPECTOR CHECKLIST - mound

424 /th Ave SE Aitkin Mn.

- WELL setbacks: 20' to pressure tested sewer line (5 psi for 15 min)
50' to everything 100' to dispersal area with shallow well
- PROPERTY LINES setback: 10' to everything
- Road setback: platted: 10' prop line. Metes & bounds: out of road easement, or outer ditch.
- LAKE / BLUFF setback: 20' for bluff. Lakes: GD ____, RD ____, NE _____. Protected wetland ____.
- Building setbacks: 10' for everything, 20' for dispersal area.
- WATER LINE under pressure se 10' to bed, tank & sewer line. (else sewer line > 12" below, else ok w/pvc)

- Sewer line & baffle connection (no 90's, 3' between 45's, slope min 1" in 8', max 2" in 8')
(no depth req's, clean out every 100', Sch 40 pipe)

- Septic tank and risers (water tight, insulated, proper depth, existing verified by pumping)
mfg__ BROWN WILBEI 2500 gallons none

- Riser over outlet, riser over inlet or center, and 6"+ inspection pipe over any remaining baffles.
No effluent filter & alarm
- Dose tank risers and piping (water tight, insulated, proper depth, drainback)
mfg__ BROWN WILBEI 1000 gallons

- dose pump _____ 38 gpm 22 head VERIFY PUMP CURVE 4.2 min ON 9 hr OFF

- float setting drop 6.5 inches at 24.5 gpi "DESIGNED" 4.3 inches approx float tether length
160.0 gal dose divided by _____ gpi "INSTALLED" = _____ inches float drop (field corrected)
LABEL pump requirements and drawdown on riser or panel

- Cam lock reachable from grade - 30" max. J-hook weep hole. Supply line access (no hard 90's)
2.0 inch supply pipe: Sch40, sloped 1/8"+, supported by 4" sch40 sleeve or compacted, and buried 6"+.
splice box / control panel / electrical connections
flow measurement: CT, ETM, time dosed, home water meter
mound absorption area rough up
mound rock dimensions 10.0 X 50.0
Sand lift depth 36 inches. (Jar test : 2" sand leaves < 1/8" silt after 30 min)

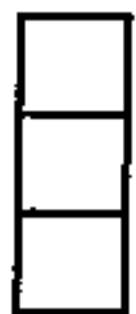
- Absorption Sand beyond rock 14.3 upslope 19.5 downslope

- Bermed topsoil beyond rockbed 18 upslope 16 sideslope 24 downslope

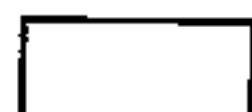
- cover depth of 12-18"+ VERIFY
3 laterals (1-2' from edge of rock)
2.00 inch pipe size (Sch40 pipe & fittings)
3.0 ft lateral spacing

- 1/4" inch perforations
3.0 ft perforation spacing

- Air inlet at end of laterals, and at top feed manifold if necessary. VERIFY
clean outs (no hard 90's)
4" inspection pipe to bottom of rock, anchored VERIFY



Abandon existing system - if necessary
 monitoring plan and type
 well abandonment form - if necessary

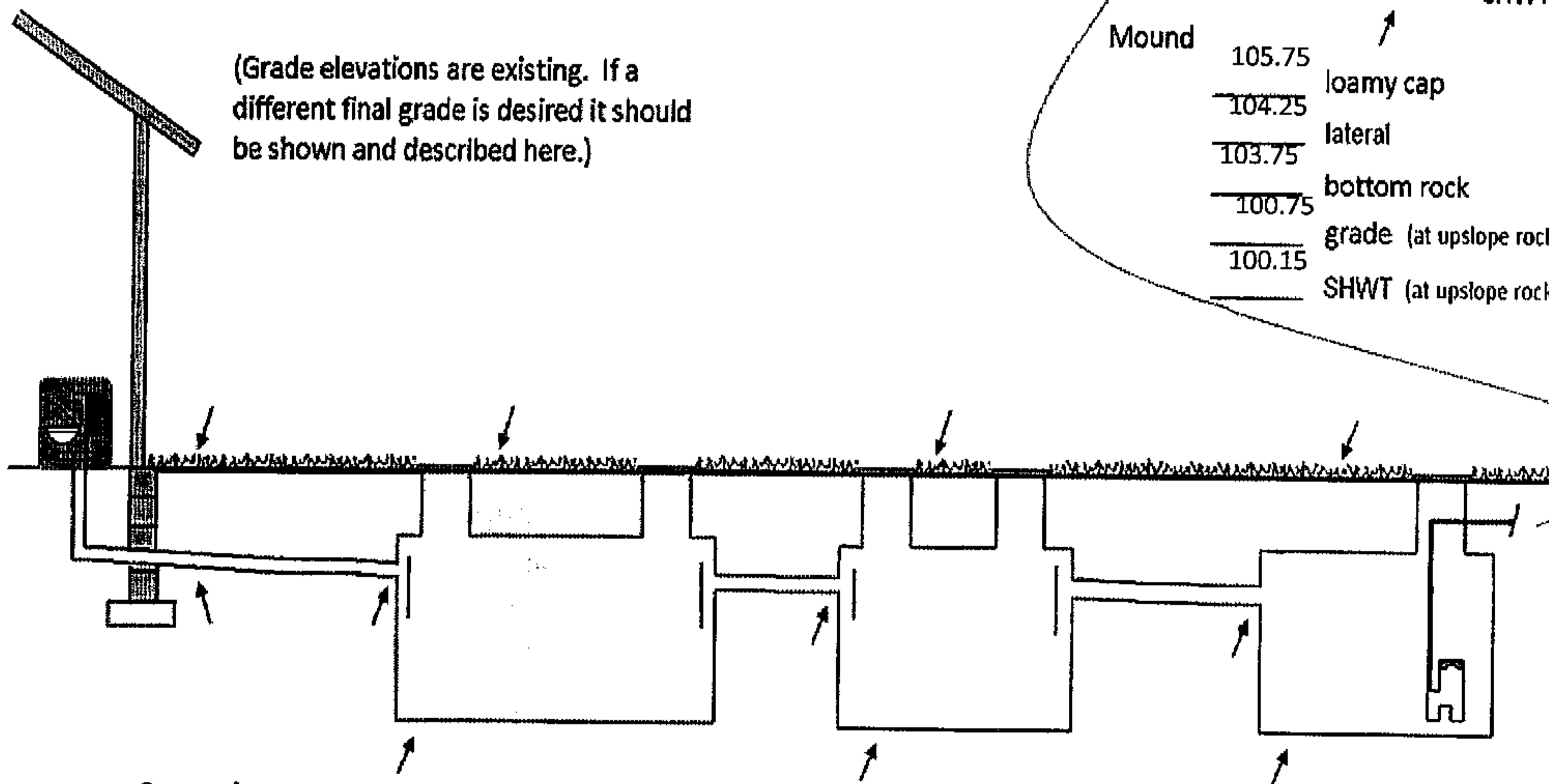
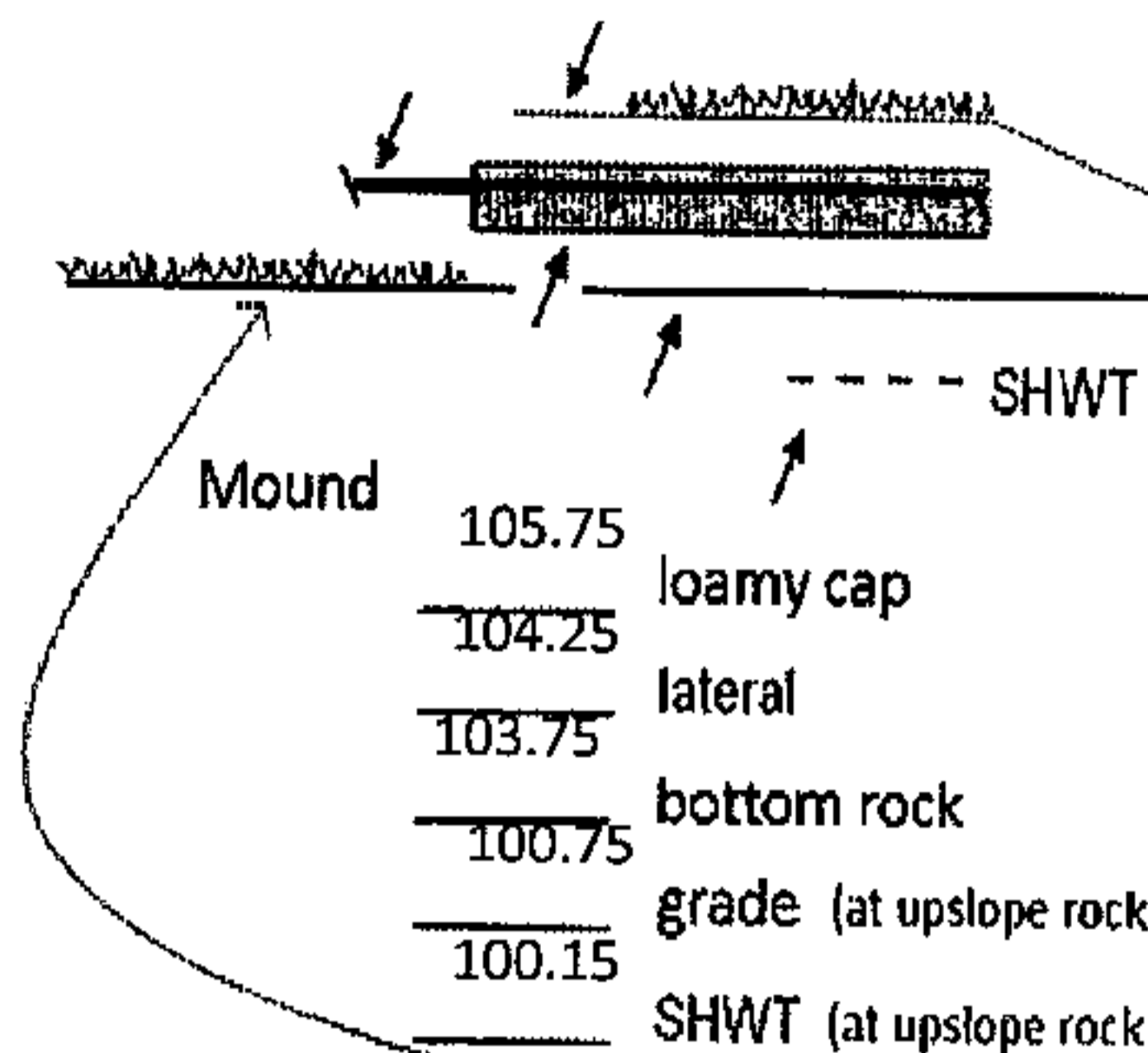


Re-use existing tank certification

System Elevations

100.00 SIDEWALK ORANGE DOT
 benchmark

(Grade elevations are existing. If a different final grade is desired it should be shown and described here.)



Sewer pipe exiting house

_____ Grade
 96.60
 _____ Pipe

Septic Tank
 97.80

_____ Grade
 95.75

_____ inlet
 90.50

_____ Tank bottom

Septic Tank (if applicable)

_____ Grade

_____ inlet

_____ Tank bottom

Pump Tank
 97.25

_____ Grade
 95.10

_____ inlet
 91.00

_____ Tank bottom

Subsurface Sewage Treatment System Operating Permit Application

Use this form to apply for an operating permit.
* Indicates required field

**Aitkin County Environmental Services
Planning & Zoning**
307 Second St. NW, Room 219
Aitkin, MN 56431
218-927-7342
aitkinpz@co.aitkin.mn.us

Facility Information:

*Permittee name:	Jeffrey and Tabatha Boyd					
*Mailing address:	424 7th AVE SE	*City:	AITKIN	*State:	MN	*Zip: 56431
*Email:			*Phone:			
*Parcel ID:	01-0-057302					
Property address:	SAME					
*System type:	TYPE III MOUND			*Treatment level:	C	
*System design flow (gpd):	600			*Residential/Commercial:	Residential	
*System components:	NEW 2500 COMBO TANK NEW 1000 PUMP TANK 3' SAND 10X50 ROCK BED					

Service Provider:

*Name:		*Signed Contract:	<input type="checkbox"/> Yes	<input type="checkbox"/> No
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Monitoring Requirements:

Parameter	Effluent limits	Frequency	Location
*Design flow (gpd)	600	MONTHLY	EVENT COUNTER
Average flow (gpd)			
*Ponding/Surfacing in soil treatment	NONE ALLOWED	ANNUALY	MOUND
CBOD ₅ (mg/L)			
TSS (mg/L)			
FO&G (mg/L)			
Fecal Coliform bacteria (#/100mL)			
Total Nitrogen, Total Phosphorus (mg/L)			
Operational Field Tests, may include: Temperature, Dissolved Oxygen and pH			

Monitoring Requirements Comment Field:

Maintenance Requirements:

Maintenance requirements shall be performed as specified in the Management Plan as prepared by the system's Designer.

System component	Maintenance	Frequency
External grease interceptor	Annually check levels, Pump when required	Annually
*Septic tank/Trash tank		
*Pump tank and controls	Check component functions and settings	Annually
Effluent screen	Check and clean	Every three months
Advanced treatment product		
UV light disinfection device		
*Soil treatment and dispersal		

Monitoring Protocol

Any sampling and laboratory testing procedures shall be performed in accordance with the proprietary treatment product's protocol, Standard Methods, and at a Minnesota Department of Health approved laboratory. Results shall be submitted to the permitting authority at: Aitkin County Environmental Services, 307 2nd St NW, Room 219, Aitkin, MN 56431 no later than the expiration date listed.

Contingency Plan

In the event the wastewater treatment system does not meet required performance requirements as contained in this operating permit, the owner shall notify Aitkin County Environmental Services within thirty (30) days of receiving non-compliant information. The owner is responsible to obtain the services of a Minnesota Pollution Control Agency (MPCA) licensed Service Provider or other qualified practitioner to complete the required corrective measures.

Authorization

Aitkin County Environmental Services authorizes the Permittee to operate a wastewater treatment and dispersal system at the address named above in accordance with the requirements of this operating permit, attached Management Plan and contract with the Service Provider/Inspector.

This permit is effective on the issuance date and term identified above. This permit and the authorization to treat and disperse wastewater shall expire on the expiration date identified above. The Permittee is not authorized to discharge after the above date of expiration. The Permittee shall submit monitoring and maintenance information on forms as required by Aitkin County Environmental Services prior to the above date of expiration for operating permit renewal. If not renewed within ninety (90) calendar days of the expiration date, it may be required that the system be abandoned in accordance with MN Rule 7080.2500. This permit is not transferable as to person or place.

The owner is required to obtain the services of a Minnesota Pollution Control Agency (MPCA) licensed and trained: 1) Service Provider or Inspector to provide ongoing system operation, maintenance, and monitoring and 2) Maintainer to pump the system's sewage tanks and components. The owner is responsible to provide the name of the Service Provider or Inspector business prior to the issuance of this operating permit. **The owner has secured the services of (named above) as the Service Provider or Inspector for this system through a signed contract.** The Service Provider or Inspector is hereby authorized to provide the required monitoring data and routine maintenance service records to both Aitkin County Environmental Services.

[For systems that generate high strength wastewater, the following items should be added to the operating permit: "If there is a change of use within the facility (i.e., change in menu, increase in food capacity, change in water use fixtures, etc.), the permittee is required to notify Aitkin County Environmental Services and the Service Provider before any changes occurs. Changes to the facility that could potentially impact performance of the wastewater treatment and dispersal system shall not take place until appropriate evaluation has been completed."]

I hereby certify with my signature as the Permittee that I understand the provisions of the wastewater treatment and dispersal system operating permit including maintenance and monitoring requirements. I agree to indemnify and hold Aitkin County harmless from all loss, damages, costs and charges that may be incurred by the use of this system. If I fail to comply with the provisions of this operation permit, I understand that penalties may be issued. If I sell this property during the life of the permit, I will inform the new owner(s) of the permit requirements and the need to renew the operating permit.

*Permittee Name: (Print)			
*Title:		*Date:	
*Permittee Signature:			

Subsurface Sewage Treatment System Management Plan

Property Owner: Jeffrey and Tabatha Boyd Phone: _____ Date: 06/26/2024
Mailing Address: 424 7th AVE SE City: AITKIN Zip: 56431
Site Address: SAME City: _____ Zip: _____

This management plan will identify the operation and maintenance activities necessary to ensure long-term performance of your septic system. Some of these activities must be performed by you, the homeowner. Other tasks must be performed by a licensed septic service provider or maintenance provider.

System Designer: Recommends SSTS check every _____ months.
Local Government: Recommends SSTS check every _____ months.
State Requirement: Requires SSTS check every 36 months.
(State requirements are based on MN Rules Chapter 7080.2450, Subp. 2 & 3)

**My System needs to be checked
every 36 months.**

Homeowner Management Tasks:

Leaks – Check (look, listen) for leaks in toilets and dripping faucets: Repair leaks promptly.

Surfacing sewage – Regularly check for wet or spongy soil around your soil treatment area.

Effluent filter – Inspect and clean twice a year or more.

Alarms – Alarm signals when there is a problem. Contact a service or maintenance provider any time an alarm signals.

Event counter or water meter – Record your water use.

-recommend meter readings be conducted (circle one: DAILY WEEKLY MONTHLY N/A)

Licensed septic service provider or maintenance provider (Check all that apply):

- Check to make sure tank is not leaking
- Check and clean the in-tank effluent filter (if exists)
- Check the sludge/scum layer levels in all septic tanks
- Recommend if tank should be pumped
- Check inlet and outlet baffles
- Check the drainfield effluent levels in the rock layer
- Check the pump and alarm system functions
- Check wiring for corrosion and function
- Check dissolved oxygen and effluent temperature in tank
- Provide homeowner with list of results and any action to be taken
- Flush and clean laterals if cleanouts exist

"I understand it is my responsibility to properly operate and maintain the sewage treatment system on this property, utilizing the Management Plan. If requirements in the Management Plan are not met, I will promptly notify the permitting authority and take necessary corrective actions. If I have a new system, I agree to adequately protect the reserve area for future use as a soil treatment system."

Property Owner Signature: _____ Date: _____

Designer Signature:  Date: 06/26/2024

See Reverse Side for Management Log

Maintenance Log

Activity	Date Accomplished
<i>Check frequently:</i>	
Leaks: check for plumbing leaks	
Soil treatment area check for surfacing	
Lint filter: check, clean if needed	
Effluent screen: if owner-maintained	
Water usage rate (monitor frequency _____)	
<i>Check annually:</i>	
Caps: inspect, replace if needed	
Sludge & Scum/Pump	
Inlet & Outlet baffles	
Drainfield effluent leaks	
Pump, alarm, wiring	
Flush & clean laterals if cleanouts exists	
Other: _____	
Other: _____	

Notes: _____
