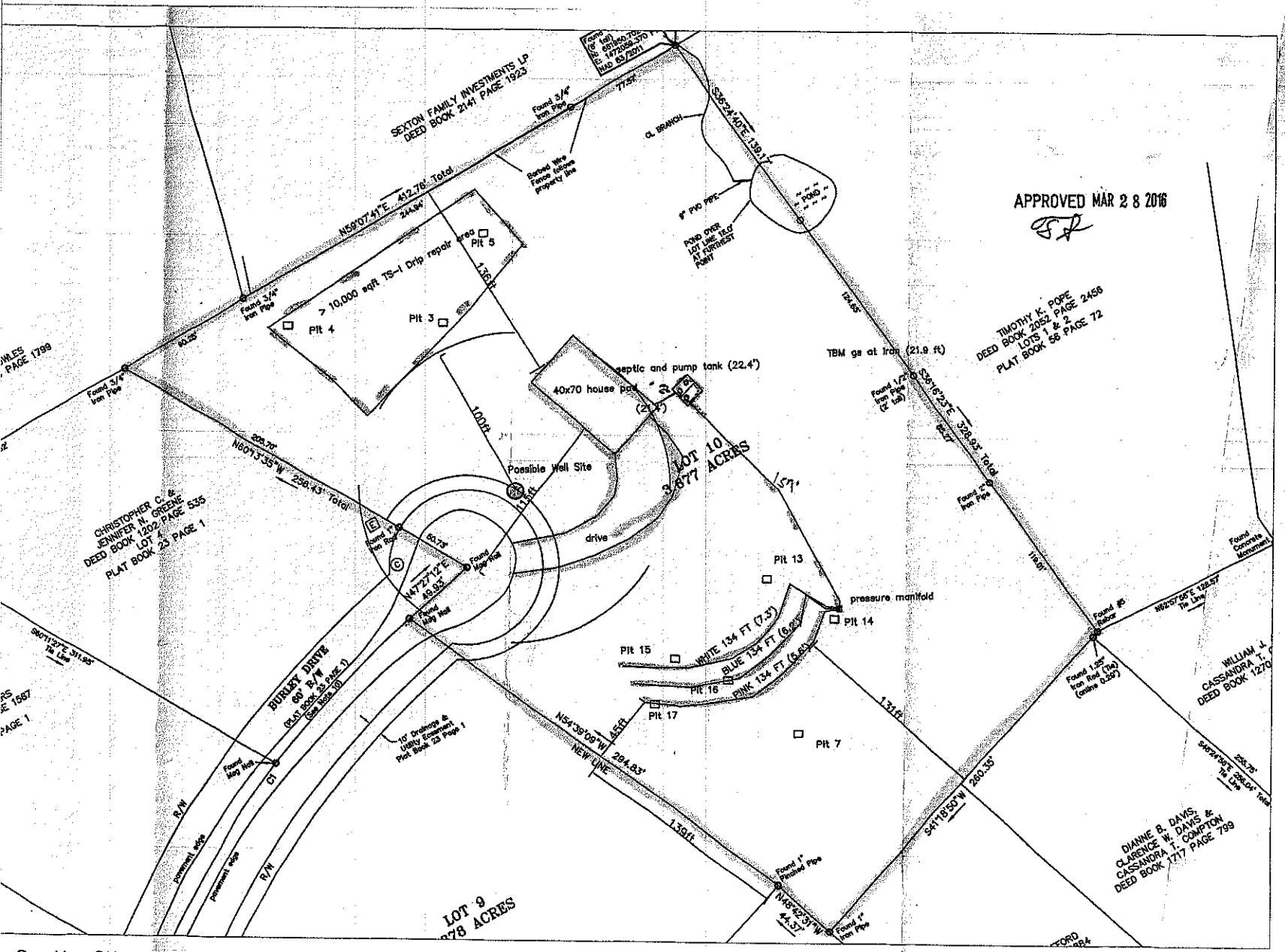


Septic Site Plan 3-10-16 (1in = 60 ft)- Approx. septic locations – refer to field flagging for actual locations.
Geomatic Concepts. Site plan must accompany Penninger Soil Consulting written report dated 3-10-16.

Matt Harrington - Burley Road Expedited Review System Information Pg 1 of 2
10-Mar-16

Number of Bedrooms	**4**
Basement or Crawl	**Basement**
Design Flow (gpd)	**480**
Primary System LTAR (gpd/sqft)	**0.3**
Primary System Type	**25% Reduction**
No. Lines	3 at 134 ft. (see site plan)
Total Linear Feet	402
Trench Width	3' min.
Trench Spacing	9' min.
Trench Depth	36 in. max on high side
Pump Required	Yes
Distribution Device	Pressure Manifold
Maintenance Agreement Required	No
Length and Diameter of Supply Pipe	~175' of 2" SCH 40 PVC
Flow Rate through the system (gpm)	21.33
Elevation head	*Approx. 25'
Pressure head	2.0'
Friction head	Approx. 3'
20% Contingency	6'
Total Head	36'
Pump Requirements	22 gpm @ 36 ft. of head

***To be verified by installer after final tank placement.**

Dosing Volume (gal) - 66% of drainfield capacity	231
doses/day @ design flow	2.1
Volume of water pumped per dose	Calculated to specific tank by measure or dealer engineering specifications (1 cubic ft. of water equals 7.48 gal.)
Pump Run per dose (min)	10.8
Check Valve	Yes
Siphon Break hole	no
Repair System	**TS-I Pretreatment Drip**
Total Area	>10,000 sq ft shown - 4,800 sq ft required
Repair Loading Rate (gpd/sqft)	0.1
Repair Proposed Trench Depth (in)	12 in.

APPROVED MAR 2 8 2016

APPROVED MAR 2 8 2016

Summary of Primary Nitrification Lines

Line No.	Use	Line Color	System Type	Line Length (Ft.)	*Rod Reading (Ft.)
1	System	pink	25% Reduction	134	5.6
2	System	blue	25% Reduction	134	6.2
3	System	white	25% Reduction	134	7.3
				Total System: 402'	

Tank		1000 gal (2 compartment)	*Rod Reading (ft.)
Pump Tank		1000 gal.	22.4
House		right rear house box	21.4

Manifold Information	
Tap Size (In.)	1/2
Tap Material	SCH 40 PVC
No. Taps	4
Barrel Size (In.)	4
Barrel Material	SCH 80 PVC
Flow (gpm)/Tap	7.11

NOTES:

Elevations must be verified by installer at installation and final tank placement.
Install system per ICHD, NCDHSS, and manufacturer permits, policies, and requirements.
Expedited System Review information tables must accompany Penninger Soil Consulting written report dated March 10, 1016.

DEPARTMENT OF HEALTH AND HUMAN SERVICES
DIVISION OF PUBLIC HEALTH, ENVIRONMENTAL HEALTH SECTION
ON-SITE WATER PROTECTION BRANCH

Sheet 1 of 2
PROPERTY ID #:
COUNTY:

SOIL/SITE EVALUATION
***for* ON-SITE WASTEWATER SYSTEM**
(Complete all fields in full)

APPROVED MAR 2 8 2016

OWNER: Matt Harrington
ADDRESS: Lot 10 Bonnie Doon
PROPOSED FACILITY: 4BR PROPOSED DESIGN FLOW (.1949): 480
LOCATION OF SITE:
APPLICATION DATE 3-10-16
DATE EVALUATED 2-29-16
PROPERTY SIZE: 3.8 AC
PROPERTY RECORDED: N-J
WATER SUPPLY: ☒ Private ☐ Public ☐ Well ☐ Spring ☐ Other
EVALUATION METHOD: ☐ Auger Boring ☒ Pit ☐ Cut TYPE OF WASTEWATER: ☒ Sewage ☐ Industrial Process ☐ Mixed

PROFILE #	.1940 LANDSCAPE POSITION/ SLOPE %	HORIZON DEPTH (IN.)	SOIL MORPHOLOGY (.1941) .1941 STRUCTURE/ TEXTURE	.1941 CONSISTENCE/ MINERALOGY	OTHER PROFILE FACTORS .1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	PROFILE CLASS & LTAR
P1	LN/H 2/0	0-5	WSBK SCL	FR SS/PL	BR				PS .3
		0-22	WSBK C	FR SS/SP-S/P PL	F-C SAP				
		22-60	MASS L-S/CL	FR SS/PL MC	C MOD				
			-UWSBK						
					0	22	PS	0	
P2	LN/H 2/0	0-10	WSBK SCL	FR SS/SP	BR				PS .3
		10-43	WSBK C-SCL	FR SS/SP	RD F MOD				
		43-57	MASS L-S/CL	FR SS/SP MC	C MOD				
					0	43	PS	0	
P3	L/H 2/0	0-24	WSBK SL-SCL	FR SS/SP	BR				PS .3
		24-48	WSBK C-SCL	FR SS/SP	GY/BR	FR MOD/SAP			
		48+	WR + CL SOIL						
					0	48	0	0	
P4	L/H 2/0	0-18	WSBK SL-SCL	FR SS/SP	BR				PS .3
		18-39	MASSIVE C	FR S/P	BR/GY	F SAP			
		39-54	WSBK CL-SCL	FR SS/SP, MOD/WELL M	C SAP				
					0	55	0	0	

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	P3	P5
System Type(s)	2SD	TS-1 D
Site LTAR	.3	.1

OTHER FACTORS (.1946):
SITE CLASSIFICATION (.1948): PS
EVALUATED BY: PEP - must be
OTHER(S) PRESENT: Reviewed by ICHD

COMMENTS:

SOIL/SITE EVALUATION

(Continuation Sheet-Complete all field in full)

DEPARTMENT OF HEALTH AND HUMAN SERVICES
DIVISION OF PUBLIC HEALTH
ENVIRONMENTAL HEALTH SECTION
ON-SITE WATER PROTECTION BRANCH

APPROVED MAR 2 8 2016

PROPERTY ID #:
DATE OF EVALUATION:
COUNTY:

PROFILE #	.1940 LANDSCAPE POSITION/ SLOPE %	HORIZON DEPTH (IN.)	SOIL MORPHOLOGY (.1941) .1941 STRUCTURE/ TEXTURE	SOIL MORPHOLOGY (.1941) .1941 CONSISTENCE/ MINERALOGY	OTHER PROFILE FACTORS .1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	PROFILE CLASS & LTAR
1	L/H ~10	0-10 10-28 28-39 39-58	WEAK SD MASSIVE C WEAK L SBK MASSIVE L SBK	FR SS/SP FR SS/SP FR SS/SP FR SS/SP	BR RED F SAP RED P SAP MC (2)	(20)	PS	(0)	PS .3
7	L/H ~10	0-11 11-43 43-48 NOT IN SYSTEM AREA	WEAK SBK-SG WEAK C WEAK C	FR SS/SP FR SS/P FR S/P	BR 7.5YR 5/8 7.5YR 4/4 F SAP, WET (2)	48	(1)	(0)	PS .2
3	N 4-26	0-24 24-50	WEAK SD MASSIVE/WEAK C-SBK	FR SS/SP FI/FR S/P-FR SS/SP	BR RED F SAP WET (1)	50	(1)	(0)	PS .3 DMP .1
4	N ~12	0-5 5-40 40-48	WEAK SD MASSIVE MST C WEAK/MSK C	FR SS/SP FI-FM S/P FI S/P	BR YEL (1) RED F YELL BR	48	(2)	(40") DMP	PS .3 40 .7
5	C 1/2	0-21 21-30 30-36	WEAK SBK-SG WEAK C-SBK MIXED C/CL W/ SAP	FR SS/SP FR S/P FI: FI	BR GRAY F SAP (30")	F 10YR 7/2 (30)	(0)	(0)	PS DMP .1 EQUIV 2 = 1.2

COMMENTS: SEE PG 1

DEPARTMENT OF HEALTH AND HUMAN SERVICES
DIVISION OF PUBLIC HEALTH, ENVIRONMENTAL HEALTH SECTION
ON-SITE WATER PROTECTION BRANCH

Sheet ___ of ___
PROPERTY ID #: _____
COUNTY: _____

SOIL/SITE EVALUATION
***for* ON-SITE WASTEWATER SYSTEM**
(Complete all fields in full)

OWNER: James Mc Night
ADDRESS: 142 Burley Drive
PROPOSED FACILITY: 4 BR House
PROPOSED DESIGN FLOW (.1949): 480 gal/day
LOCATION OF SITE: 142 Burley Drive Mooresville, NC
APPLICATION DATE 3-10-16
DATE EVALUATED: 3-15-16
PROPERTY SIZE: 5.75 acres
PROPERTY RECORDED: Yes

WATER SUPPLY: ☒ Private ☐ Public ☐ Well ☐ Spring ☐ Other _____
EVALUATION METHOD: ☐ Auger Boring ☒ Pit ☐ Cut
TYPE OF WASTEWATER: ☒ Sewage ☐ Industrial Process ☐ Mixed

PROFILE #	.1940 LANDSCAPE POSITION/ SLOPE %	HORIZON DEPTH (IN.)	SOIL MORPHOLOGY (.1941) .1941 STRUCTURE/ TEXTURE	SOIL MORPHOLOGY (.1941) .1941 CONSISTENCE/ MINERALOGY	OTHER PROFILE FACTORS .1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	PROFILE CLASS & LTAR
1	16	8-24	Sandy Loam weak SBK	Friable, SS, Sp, Sexp	—	56	—	—	0,30
		24-34	Sandy Clay Loam weak SBK	Slightly Friable, SS, Sp, Sexp					
		34-56"	Clay Loam weak SBK	Slightly Friable, SS, Sp, Sexp					
			Few → some Saprolite inclusions 40" → 56"						
		0-8	mixed topsoil/loam	weak SBK					
2	SW corner of repair	0-12 Sandy clay	Sandy Clay Loam weak SBK	Slightly Friable, SS, Sp, Sexp	—	32	—	—	0,25
		12-32	Clay medium ABK	Slightly Firm, SS, Sp, Sexp					
		32-44"	Clay Loam dense weak ABK	Firm, SS, Sp, Sexp					
3									
4									

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	420+LF	Area satisfactory
System Type(s)	25% reduction	TS I - Drip
Site LTAR	0.3	0.1

OTHER FACTORS (.1946): —
SITE CLASSIFICATION (.1948): PS
EVALUATED BY: Tom Shuck
OTHER(S) PRESENT: Paul Pennington

COMMENTS: _____