ICHD

Penninger Soil Consulting, PLLC
Ph: 704-996-6330 Email: pgpenninger@gmail.com

Call Penn for site visit

October 5, 2016

Mr. Bruce Porter
2143 Mocksville Highway
Statesville, North Carolina 28625

Reference: **Technical Assistance with Expedited Review Septic Permitting**
Lot 13 Lone Pine Meadows Subdivision
132 Lonehart Lane
Iredell County, North Carolina
Project No. 16-139B

Dear Mr. Porter:

Penninger Soil Consulting, PLLC has provided technical assistance to obtain a possible new, 3-bedroom septic system Improvement Permit on the above referenced lot from the Iredell County Health Department (ICHD). The technical assistance was performed in general accordance with our written proposal / letter of authorization dated October 2, 2016.

We understand that you own the lot and want to construct a 3-bedroom home for a customer. You have requested Penninger Soil Consulting, PLLC to assist with obtaining a Septic Improvement Permit for a proposed 3-bedroom house under the ICHD Expedited Review program to allow you to obtain a building permit in a timely manner.

Your surveyor flagged the property corners and you had strung the lot lines. You also flagged an eighteen foot rear property line offset in the grassed area of the lot and staked the proposed house box. Penninger Soil Consulting described five hand auger borings in the proposed septic area and flagged the proposed septic drainfield lines. We are proposing a gravity, 25 Percent Reduction drainfield behind the proposed home pad with a LPP T&J Panel Repair area behind the house and to the north of the house.

Once the septic area is permitted, it should be fenced off for protection during home installation. Access to the lot should only be by the existing drive. There shall not be cuts of 2 feet or greater within 15 feet of any part of the permitted septic system. The system should be installed under dry soil conditions and maintain the regulatory setbacks to any foundation drain.

Penninger Soil Consulting, PLLC appreciates the opportunity to provide these services to you. The attached information is not an Improvement Permit or Authorization to Construct, and is only to assist you with the Expedited Review site evaluation. The ICHD may show any changes or modifications they deem necessary to the proposed system on the ICHD Permits or attached site plan. The ICHD must approve each lot and only the ICHD can issue

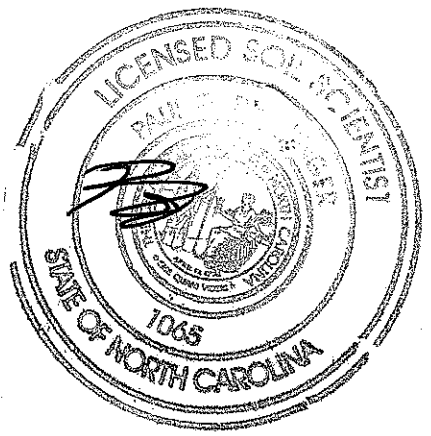
these permits. The ICHD should verify all soil suitability and system specifications, required setbacks, and whether a professional engineer plan is required before permitting and/or septic system installation. The attached soil profile descriptions are only valid for the described hand auger borings. Soil evaluations and system layouts are done based on interpretations of the rules governing wastewater treatment and disposal systems and are not guarantees for site approval or future septic system performance.

If you have any questions or require additional information please contact us at your convenience.

Sincerely,

Penninger Soil Consulting, PLLC

Paul G. Penninger, L.S.S.
Soil Scientist

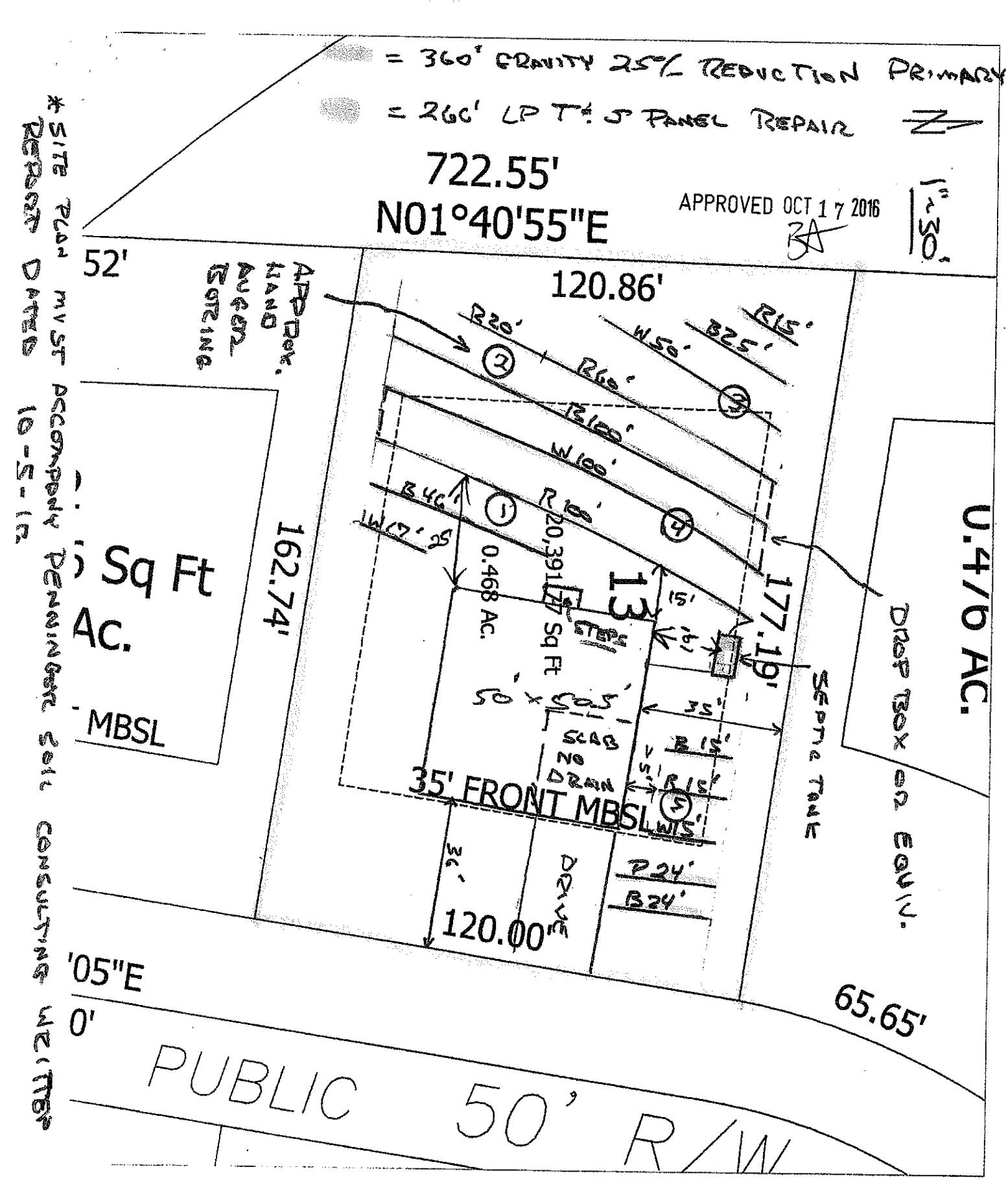


Attachments:

1. ICHD Septic Improvement Permit Application
2. Proposed Site Plan and System Information

Copy: ICHD

C:\Users\Paul G. Penninger\Documents\2016 Projects\16-139 Bruce Porter - \Lot 13\Bruce Porter - Lot 13 - Expedited Review Summary Letter.doc



Lot 13 Lone Pine Meadows Septic
Site Plan – Bruce Porter - 10-5-16

APPROVED OCT 17 2016

Lone Pine Meadow Lot 13 Expedited Review System Information (Pg 1 of 1)

Bruce Porter - October 5, 2016

Number of Bedrooms	3
Basement or Crawl	**Crawl - Slab Garage**
Design Flow (gpd)	360
LTAR (gpd/sqft)	0.25
Primary System Type	**Gravity 25 Percent Reduction**
No. Lines	3 lines @ 100 ft; 1 line @60 ft. (See Site Plan)
Total Linear Feet	360
Trench Width	3' min.
Trench Spacing	9' min.
Trench Depth	36 inches High Side
Pump Required	No
Distribution Device	Drop Boxes (Drop Boxes or other ICHD approved devices may be utilized)
Maintenance Agreement Required	No
Repair System	**Low Pressure T&J Panel**
Total Linear Feet	266 ft shown (240 ft. required)
Repair LTAR (gpd/sqft)	0.25
Repair Trench Depth	36 in. High Side

Note: Installer and ICHD shall verify all line locations, tank locations, and elevations prior to installation.

- System is to be installed according to ICHD Permit requirements or policies.
- These specifications are to satisfy the ICHD Expedited Review checklist and are not intended to represent an Engineered System Design or Permit.
- Expedited Review system information and site plan must accompany Penninger Soil Consulting written report dated October 5, 2016.
- Installer to verify required setbacks with the ICHD prior to installation.

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:

BA

APPROVED OCT 17 2016

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

OWNER: Bryan Porter
ADDRESS: 132 Longhart Ln
PROPOSED FACILITY: 3 bd
LOCATION OF SITE: Cane Pine Mountain Rd
APPLICATION DATE: 10-5-16
DATE EVALUATED: 11
PROPOSED DESIGN FLOW (.1949): 360
PROPERTY SIZE: .468 ac
PROPERTY RECORDED:
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) STRUCTURE/ TEXTURE	SOIL MORPHOLOGY (.1941) CONSISTENCE/ MINERALOGY	OTHER PROFILE FACTORS .1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	PROFILE CLASS & LTAR
1	L -5%	0-7	WSBK SL	FR SS/SP	br				PS .3
		7-30	MSBK/ABK C	FI S/P	RD F	10YR 5/8		1 thin	
		30-59	WSBK CL	FR SS/SP	M WET	C SAP			
2	L -6%	0-9	WSBK SL-SCL	FR SS/SP	br				PS .3
		9-36	MSBK/ABK C	FI S/P	MW F SAP				
		36-59	WSBK C	FR SS/SP	M C SAP				
3	L -6%	0-9	WSBK SCL		br				PS .25-.3 36" LL
		9-60	MSBK/ABK C	FI S/P	MOD	F 10YR 5/8			
4	L -6%	0-11	WSBK SCL	FR SS/SP	br				PS .3
		11-36	ABK C	FI S/P	F SAP				
		36-54	MSBK CL	FR SS/SP	MOD	C SAP			

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	PS	PS
System Type(s)	2SC	T:J
Site LTAR	.25-.30 .2	

OTHER FACTORS (.1946):
SITE CLASSIFICATION (.1948): PS
EVALUATED BY: PSP
OTHER(S) PRESENT: much LC approved by ICW

COMMENTS: must add expiry permit soil consultant
written request submitted 10-5-16

Updated February 2014

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

Sheet 2 of 2
PROPERTY ID #:
COUNTY:

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

APPROVED OCT 17 2016
RA

OWNER: Bruce Pace
ADDRESS: 132 Conch Ln
PROPOSED FACILITY: 3 BR PROPOSED DESIGN FLOW (.1949): 360
LOCATION OF SITE:
APPLICATION DATE
DATE EVALUATED: 10-3-16
PROPERTY SIZE:
PROPERTY RECORDED:

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
1	SL 3 2-5%	0-9	WSBK SL	FR SS/SP	b				PS .3
		9-48	ABK C	FR SP	rd	f 10YR 5/6			
		48-57	SBK LS	FR SS/SP	gy/rd	f < 50			
2									
3									
4									

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	100%	100%
System Type(s)	Std	Rs
Site LTAR	1	1

OTHER FACTORS (.1946):
SITE CLASSIFICATION (.1948):
EVALUATED BY:
OTHER(S) PRESENT:

COMMENTS: