

MICHAEL ATHANAS & ASSOCIATES
LICENSED SOIL SCIENTIST
361 Ennis Rd.
Weddington, NC 28173
(704) 576-3887

Reference: Data Sheet for 220 Hermance Rd., CL&T Sec 11 Lot 237
House Footprint: 45' x 60'
Building Setbacks: 35' front, 15' side, 50' lake
Water Source: Private well
Number of Bedrooms: 3/360 GPD
Proposed LTAR: 0.3 GPD/FT2
Proposed System Type: PPBPS
Proposed Repair System Type: Drip irrigation
Distribution: Pressure manifold
Flow per Tap: 3 @ 5.48 GPM, 1 @ 7.11 GPM
Tap Size: 3 @ ½" SCH 80, 1 @ ½" SCH 40
System Flow: 23.55 GPM
Dosing Volume: 172.8 gallons
Pump Run Time: 7.4 minutes
Elevation Head: 41.5'
Friction Head: 1.7'
Pressure Head: 2'
Total Dynamic Head: 45.2'
Supply Line Length: 130'
Septic/Pump Tank Size: 1000/1000 gallons
Proposed Trench Bottom: 36"

APPROVED APR 2 2 2015

Line	Design Length	Actual Length	Elevation
Blue 1 (ex.)	50'	50'	5.2'
Yellow 2 (ex.)	50'	50'	5.9'
Orange 3 (ex.)	50'	50'	7.0'
White 4	22'	22'	13.1'
Pink 5	22'	25'	16.1'
Orange 6	23'	25'	19.1'

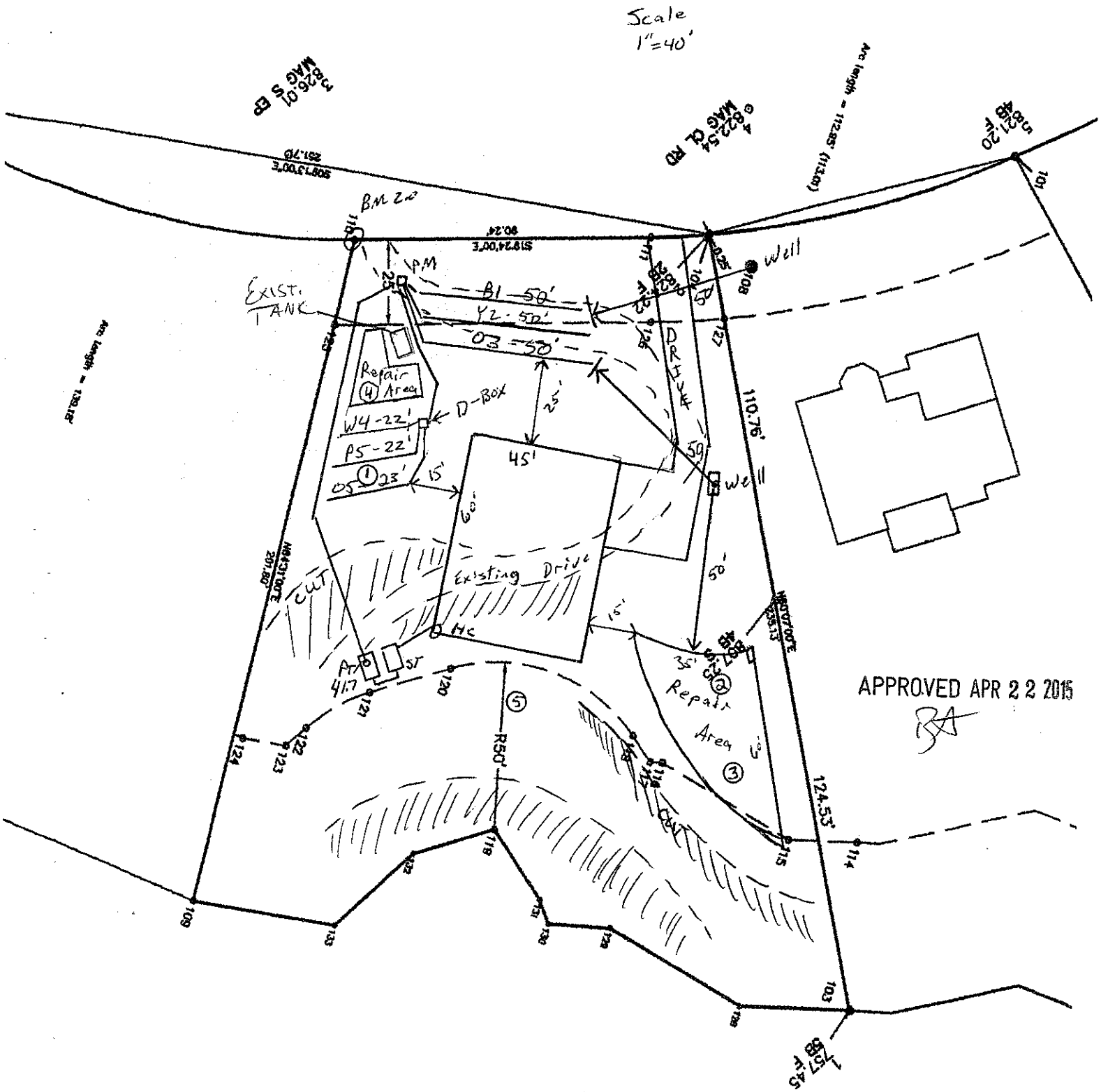
Initial System: 217' **Repair System:** 1200+ft2
Pump Tank: 41.7' **House Corner:** 39.2' **Benchmark:** 2.0'

Comments:

This property has an existing 2 bedroom PPBPS system (install with 150' of line). Michael Athanas & Associates are proposing to add new PPBPS to make to system capable of supporting 3 bedrooms. We are adding 67' to bring the total length of line to 217'. The manifold will have one 1/2" SCH 80 tap for each of the existing lines. One ½" SCH 40 tap will go to a distribution box feeding W4, P5, and O6 equally. The existing tank must be pumped, crushed, and filled. The current gravel drive covers part of the existing system and must be removed.

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BA


Scale
1"=40'
MAG S EB
MAG Q RD
BM 2
EXIST. TANK
Repair ④ Area
W4-22'
P5-22'
05 ① 23'
D-Box
B1 - 50'
Y2 - 50'
03 - 50'
DRIVE
Well
Well
45'
60'
Existing Drive
CUT
CUT
Repair Area ③
R50'
⑤
② 35'
110.76'
124.53'
APPROVED APR 2 2 2015

DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL HEALTH
ON-SITE WASTEWATER SECTION

Sheet _1_ *of* _2_
PROPERTY ID #: 4638016823_
COUNTY: _Iredell_

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

APPROVED APR 2 2 2015

OWNER: _Primestone Partners_ APPLICATION DATE_____
ADDRESS: 1600 Hoots Rd Yadkinville NC_ DATE EVALUATED: _____
PROPOSED FACILITY: __3 bdrm_____ PROPOSED DESIGN FLOW (.1949): _360 GPD_____ PROPERTY SIZE: _0.71 AC_____
LOCATION OF SITE: _220 Hermance, CL&T Sec 11 Lot 237_____ PROPERTY RECORDED: _9/7/1976_____
WATER SUPPLY: Ξ Private ☐ Public Ξ Well ☐ Spring ☐ Other _____
EVALUATION METHOD: Ξ Auger Boring ☐ Pit ☐ Cut TYPE OF WASTEWATER: Ξ Sewage ☐ Industrial Process ☐ Mixed

PROFILE #	.1940 LANDSCAPE POSITION/ SLOPE %	HORIZON DEPTH (IN.)	SOIL MORPHOLOGY (.1941)		OTHER PROFILE FACTORS				PROFILE CLASS & LTAR
			.1941 STRUCTURE/ TEXTURE	.1941 CONSISTENCE/ MINERALOGY	.1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	
1	LS 35%	0-10	RY SCL WSBK	FR SS SP	N/A	48"	F-C SAP	N/A	PS 0.3
		10-33	R C SBK	FR SS SP					
		33-48	R CL WSBK	FR SS SP					
2	LS 30%	0-18	R C SBK	FR SS SP	N/A	36"	PS	N/A	PS 0.3
		18-36	R CL WSBK	FR SS SP					
		36-48	SL SAP M	FR SS SP					
3	LS 30%	0-3	Br SL WSBK	FR SS SP	N/A	36"	F-C SAP PS	N/A	PS 0.3
		3-8	YR SCL WSBK	FR SS SP					
		8-28	R C SBK	FR SS SP					
		28-36	R SCL WSBK	FR SS SP					
		36-48	SL SAP M	FR SS SP					
4	LS 35%	0-12	FILL		N/A	48"	N/A	N/A	PS 0.3
		12-48	R C SBK	FR SS SP					

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	400 FT2	1200FT2
System Type(s)	PPBPS	DRIP
Site LTAR	0.3	0.1

OTHER FACTORS (.1946): _____
SITE CLASSIFICATION (.1948): _____PS_____
EVALUATED BY: __M A & Associates_____
OTHER(S) PRESENT: _____

COMMENTS: _____

SOIL/SITE EVALUATION

(Continuation Sheet)

DEPARTMENT OF ENVIRONMENT
AND NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL HEALTH

APPROVED APR 22 2015

PROPERTY ID #: 4638016823
DATE OF EVALUATION:
COUNTY: IREDELL

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
5	LS 5%	0-40	FILL						US

COMMENTS: