

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

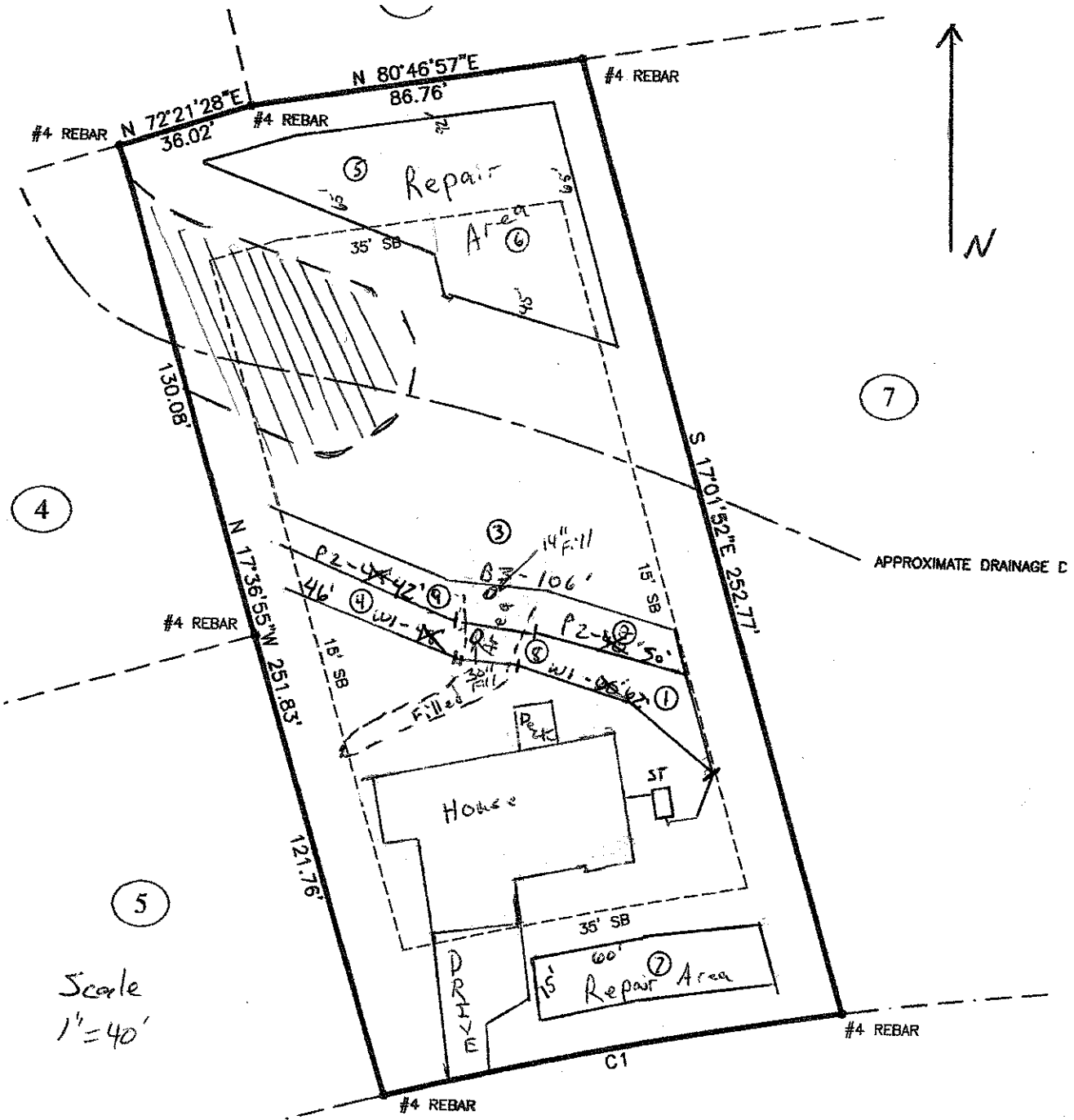
Reference: Data Sheet for Blackberry Creek Sec. 2 Lot 6: 494 McKendree Rd
House Footprint: See Attached
Building Setbacks: 35' front/rear, 15' side
Water Source: Community Well
Number of Bedrooms: 3/360 GPD
Proposed LTAR: 0.3 GPD/FT2
Proposed System Type: 25% Reduction
Proposed Repair System Type: Drip Irrigation
Distribution: Gravity-drop boxes/end cap
Septic Tank Size: 1000 gallons
Proposed Trench Bottom: 36"

Line	Design Length	Actual Length
White 1	60'/48'	60'/48'
Pink 2	40'/48'	40'/48'
Blue 3	106'	106'

Initial System: 302' **Repair System:** 3600 FT2

Comments:
The large gully in the initial system area has been filled. M A & A have marked the location of the filled gully in red flags and have laid out the system. We are proposing to stop and start the lines (W1, P2) in natural soil and to run a solid pipe across the fill area. The builder has connected to the community water system of The Farms and no longer needs a well. We have performed additional soil observations to expand the repair area and to show the area of fill.

APPROVED MAY 2 7 2015



APPROVED MAY 2 7 2015

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

PROPERTY ID #: 4626298255_
COUNTY: _Iredell___

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

APPROVED MAY 2 7 2015

OWNER: _Sean Gallagher_____ APPLICATION DATE_____
ADDRESS: _____ DATE EVALUATED: _____
PROPOSED FACILITY: _3 bdrm_____ PROPOSED DESIGN FLOW (.1949): _360 GPD_____ PROPERTY SIZE: _0.701 AC_____
LOCATION OF SITE: _Blackberry Creek Lot 6_____ PROPERTY RECORDED: _11/9/2000_____
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)		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 5%	0-28	R C SBK	FR SS SP	N/A	53"	N/A	N/A	PS 0.3
		28-53	R CL WSBK	FR SS SP					
2	LS 7%	0-5	Br CL WSBK	FR SS SP	N/A	48"	N/A	N/A	PS 0.3
		5-38	R C SBK	FR SS SP					
		38-48	R CL WSBK	FR SS SP					
3	LS 7%	0-14	R CL WSBK	FR SS SP	N/A	46"	F-C SAP	N/A	PS 0.3+
		14-46	RY L WSBK	FR SS SP					
		46-54	Ver SL/L SAP M	VFR SS SP					
4	LS 5%	0-40	R C SBK	FR SS SP	N/A	48"	N/A	N/A	PS 0.3
		40-48	R CL WSBK	FR SS SP					

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	900 FT2	3600+FT2
System Type(s)	25% Reduction	DRIP
Site LTAR	0.3	0.1

OTHER FACTORS (.1946): _____
SITE CLASSIFICATION (.1948): _____PS_____

EVALUATED BY: ___MA & Associates_____
OTHER(S) PRESENT: _____

COMMENTS: _____

SOIL/SITE EVALUATION

(Continuation Sheet)

DEPARTMENT OF ENVIRONMENT
AND NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL HEALTH

APPROVED MAY 27 2015

PROPERTY ID #: 4626298255
DATE OF EVALUATION:
COUNTY: IREDELL

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
5	LS 5%	0-4	Br CL WSBK	FR SS SP	N/A	50"	N/A	N/A	PS 0.3
		4-20	R C SBK	FR SS SP					
		20-38	R CL WSBK	FR SS SP					
		38-50	R L WSBK	FR SS SP					
6	LS 7%	0-24	R CL WSBK	FR SS SP	N/A	35"	F-C SAP C-M SAP	N/A	PS 0.3-0.4
		24-35	R L WSBK	FR SS SP					
		35-60	L SAP M	VFR SS SP					
7	LS 5%	0-36	R C SBK	FR SS SP	N/A	48"	N/A	N/A	PS 0.3
		36-48	R CL WSBK	FR SS SP					
8	LS 5%	0-10	FILL		N/A	48"	F-C SAP	N/A	PS 0.3
		10-28	R C SBK	FR SS SP					
		28-48	R CL WSBK	FR SS SP					
9	LS 5%	0-22	R C SBK	FR SS SP	N/A	48"	F-C SAP	N/A	PS 0.3
		22-48	R CL WSBK	FR SS SP					

COMMENTS:



OK ECHP 12/3/14 GL

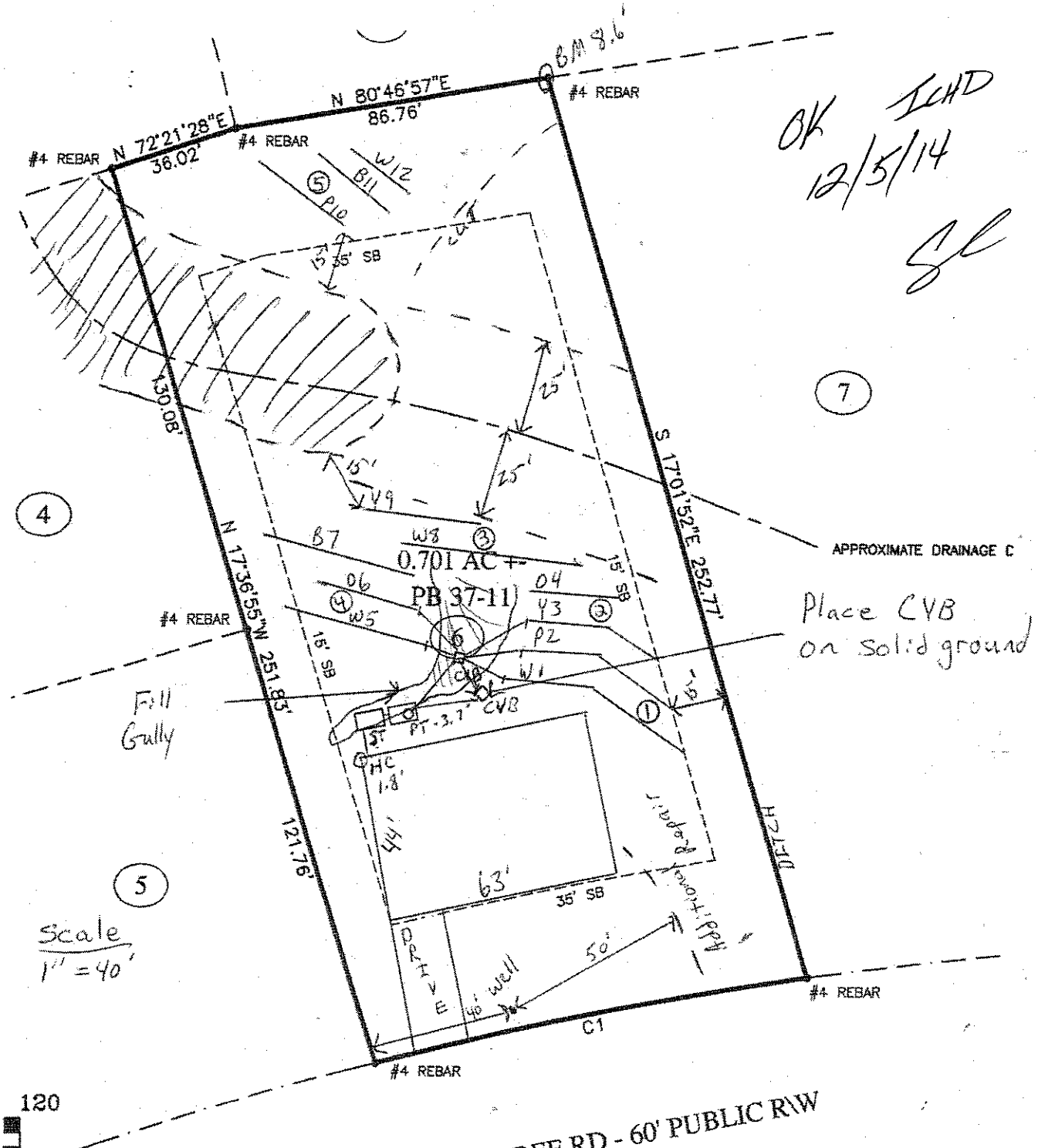
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361 Ennis Rd.
Weddington, NC 28173
(704) 576-3887

Reference: Data Sheet for Blackberry Creek Sec. 2 Lot 6: 494 McKendree Rd
House Footprint: 45' x 63'
Building Setbacks: 35' front/rear, 15' side
Water Source: Private well
Number of Bedrooms: 3/360 GPD
Proposed LTAR: 0.3 GPD/FT2
Proposed System Type: PPBPS
Proposed Repair System Type: PPBPS
Distribution: Low pressure-CVB
Flow per Orifice: 0.59 GPM
Orifice Size: 3/16"
System Flow: 27.14 GPM
Dosing Volume: 165.6 gallons
Pump Run Time: 6.1 minutes
Elevation Head: 2.6'
Friction Head: 0.4'
Pressure Head: 2'
Total Dynamic Head: 5'
Supply Line Length: 20'
Septic/Pump Tank Size: 1000/1000 gallons
Proposed Trench Bottom: 36"

Line	Design Length	# of Panels	Actual Length	Elevation
White 1	**55'**	**13**	**56'**	**6.1'**
Pink 2	**40'**	**9**	**45'**	**7.4'**
Yellow 3	**35'**	**8**	**38'**	**7.9'**
Orange 4			27'	8.8'
White 5	**40'**	**9**	**40'**	**6.1'**
Orange 6	**30'**	**7**	**30'**	**7.9'**
Blue 7			44'	9.6'
White 8			51'	10.1'
Yellow 9			31'	12.1'
Pink 10			30'	14.7'
Blue 11			25'	13.7'
White 12			20'	12.7'

Initial System: 200' **Repair System:** 228'
Pump Tank: 3.7' **House Corner:** 1.8' **Benchmark:** 8.6'

Comments:
The large gully in the initial system area should have the debris cleaned out and filled with clean fill. Some slight grading and shaping may be necessary in the drainfield area.

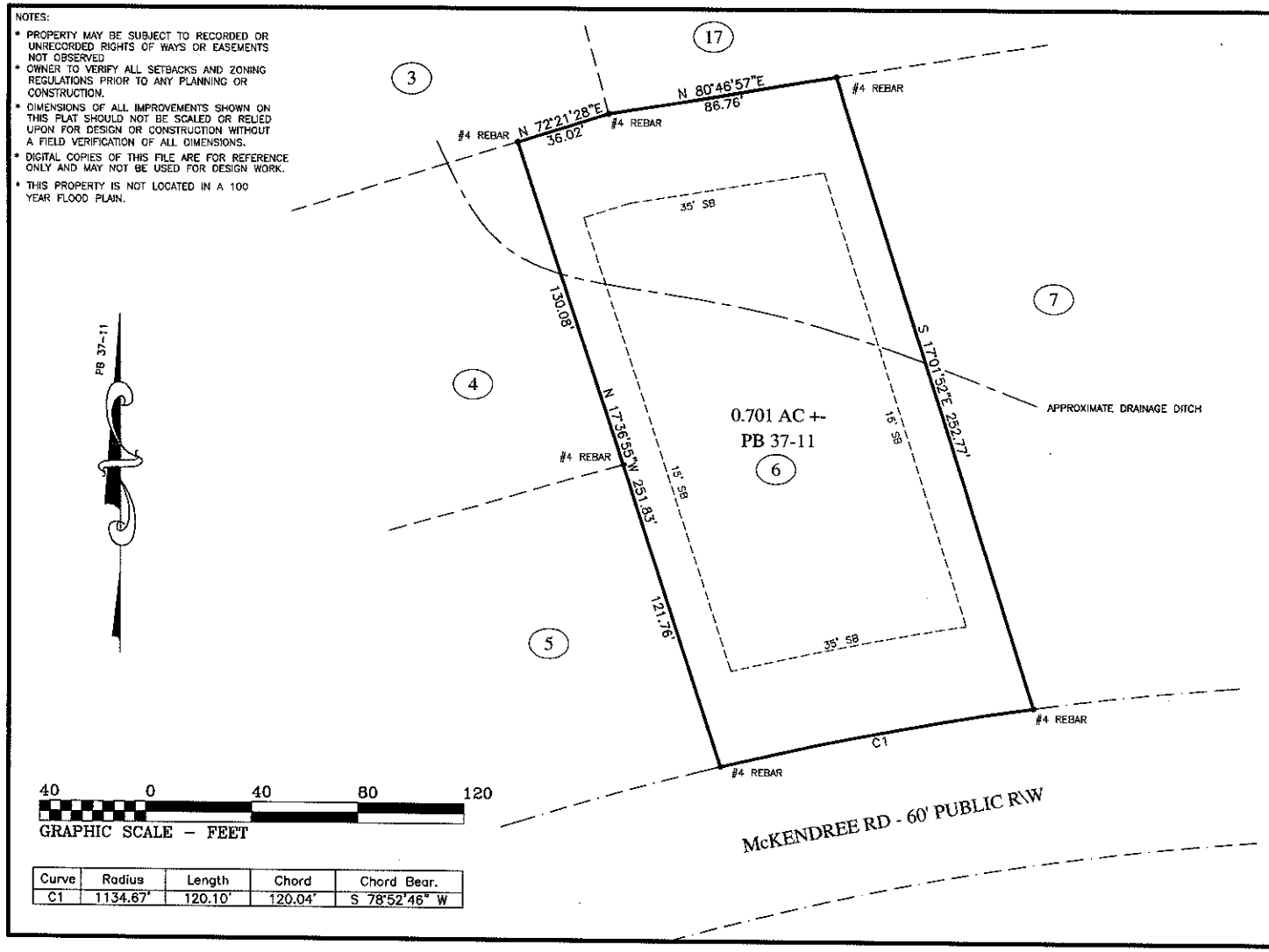


OK ICHD
12/5/14
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Line	Design Length	Actual Length	Elevation
White 1	**55'**	**56'**	**6.1'**
Pink 2	**40'**	**45'**	**7.4'**
Yellow 3	**35'**	**38'**	**7.9'**
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Yellow 9		31'	12.1'
Pink 10		30'	14.7'
Blue 11		25'	13.7'
White 12		20'	12.7'

NOTES:

- PROPERTY MAY BE SUBJECT TO RECORDED OR UNRECORDED RIGHTS OF WAYS OR EASEMENTS NOT OBSERVED
- OWNER TO VERIFY ALL SETBACKS AND ZONING REGULATIONS PRIOR TO ANY PLANNING OR CONSTRUCTION.
- DIMENSIONS OF ALL IMPROVEMENTS SHOWN ON THIS PLAT SHOULD NOT BE SCALED OR RELIED UPON FOR DESIGN OR CONSTRUCTION WITHOUT A FIELD VERIFICATION OF ALL DIMENSIONS.
- DIGITAL COPIES OF THIS FILE ARE FOR REFERENCE ONLY AND MAY NOT BE USED FOR DESIGN WORK.
- THIS PROPERTY IS NOT LOCATED IN A 100 YEAR FLOOD PLAIN.



Curve	Radius	Length	Chord	Chord Bear.
C1	1134.67'	120.10'	120.04'	S 78°52'46" W

PHYSICAL SURVEY
FOR

JASPER BUILDERS

LOT #6, BLACKBERRY CREEK 2

OCTOBER 28, 2014	DB: 1726	PG: 117
SCALE: 1" = 40'	DB:	PG:
	PB: 37	PG: 11

DAVIDSON TOWNSHIP
IREDELL COUNTY, NC

DEDMON SURVEYS

CHUCK POOVEY, PLS #3762
ROBERT DEDMON, PLS #3899
3704 NC HIGHWAY #16 NORTH
P.O. BOX 494 - DENVER, NC 28037
PHONE: 704/483/4908
FAX: 704/483/2170
WWW.DEDMONSURVEYS.COM

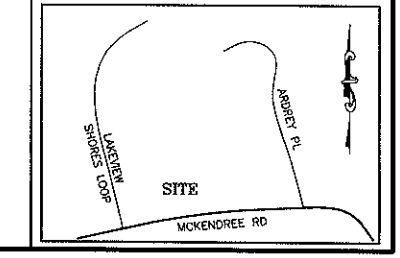
NORTH CAROLINA PROFESSIONAL SEAL L-3899 LAND SURVEYOR ROBERT N. DEDMON

"I CERTIFY THIS PLAT WAS DRAWN FROM AN ACTUAL SURVEY AND IS CORRECT AND TRUE TO THE BEST OF MY KNOWLEDGE."

Robert J. Dedmon 3899
PROFESSIONAL LAND SURVEYOR LICENSE NO.

SURV. BY: JR	DRAWN: RD	JOB# JRBBC6

VICINITY MAP



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

PROPERTY ID #: 4626298255
COUNTY: Iredell

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER: ~~Lee Easter~~ James
ADDRESS: ~~227 Hideaway Ln.; Mooresville NC~~
APPLICATION DATE
DATE EVALUATED:
PROPOSED FACILITY: 3 bdrm PROPOSED DESIGN FLOW (.1949): 360 GPD PROPERTY SIZE: 0.701 AC
LOCATION OF SITE: Blackberry Creek Lot 6 PROPERTY RECORDED: 11/9/2000
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	LS 5%	0-28	R C SBK	FR SS SP	N/A	53"	N/A	N/A	PS 0.3
		28-53	R CL WSBK	FR SS SP					
2	LS 7%	0-5	Br CL WSBK	FR SS SP	N/A	48"	N/A	N/A	PS 0.3
		5-38	R C SBK	FR SS SP					
		38-48	R CL WSBK	FR SS SP					
3	LS 7%	0-14	R CL WSBK	FR SS SP	N/A	46"	F-C SAP	N/A	PS 0.3+
		14-46	RY L WSBK	FR SS SP					
		46-54	Ver SL/L SAP M	VFR SS SP					
4	LS 5%	0-40	R C SBK	FR SS SP	N/A	48"	N/A	N/A	PS 0.3
		40-48	R CL WSBK	FR SS SP					

OK
ECHD
12-2-14
SE

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	400 ft²	456 ft²
System Type(s)	PPBPS	PPBPS
Site LTAR	.3	.3

OTHER FACTORS (.1946):
SITE CLASSIFICATION (.1948): PS
EVALUATED BY: M A & Assoc
OTHER(S) PRESENT:

COMMENTS:

SOIL/SITE EVALUATION

(Continuation Sheet)

Sheet _2__ of _2__

DEPARTMENT OF ENVIRONMENT
AND NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL HEALTH

PROPERTY ID #: 4626298255___
DATE OF EVALUATION: ___________
COUNTY: _IREDELL_____

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	
5	LS 5%	0-4	Br CL WSBK	FR SS SP	N/A	50"	N/A	N/A	PS 0.3
		4-20	R C SBK	FR SS SP					
		20-38	R CL WSBK	FR SS SP	MANY SAP INCL.				OK 12-2-14 SC
		38-50	R L WSBK	FR SS SP	38-50 ICHD				

COMMENTS: ____