

APPROVED JUL 07 2014
ALP

MICHAEL ATHANAS & ASSOCIATES
LICENSED SOIL SCIENTIST
1999 CANDLEWICK DRIVE
FORT MILL, S.C. 29715
803-802-4403 (office)
803-802-4402 (fax)

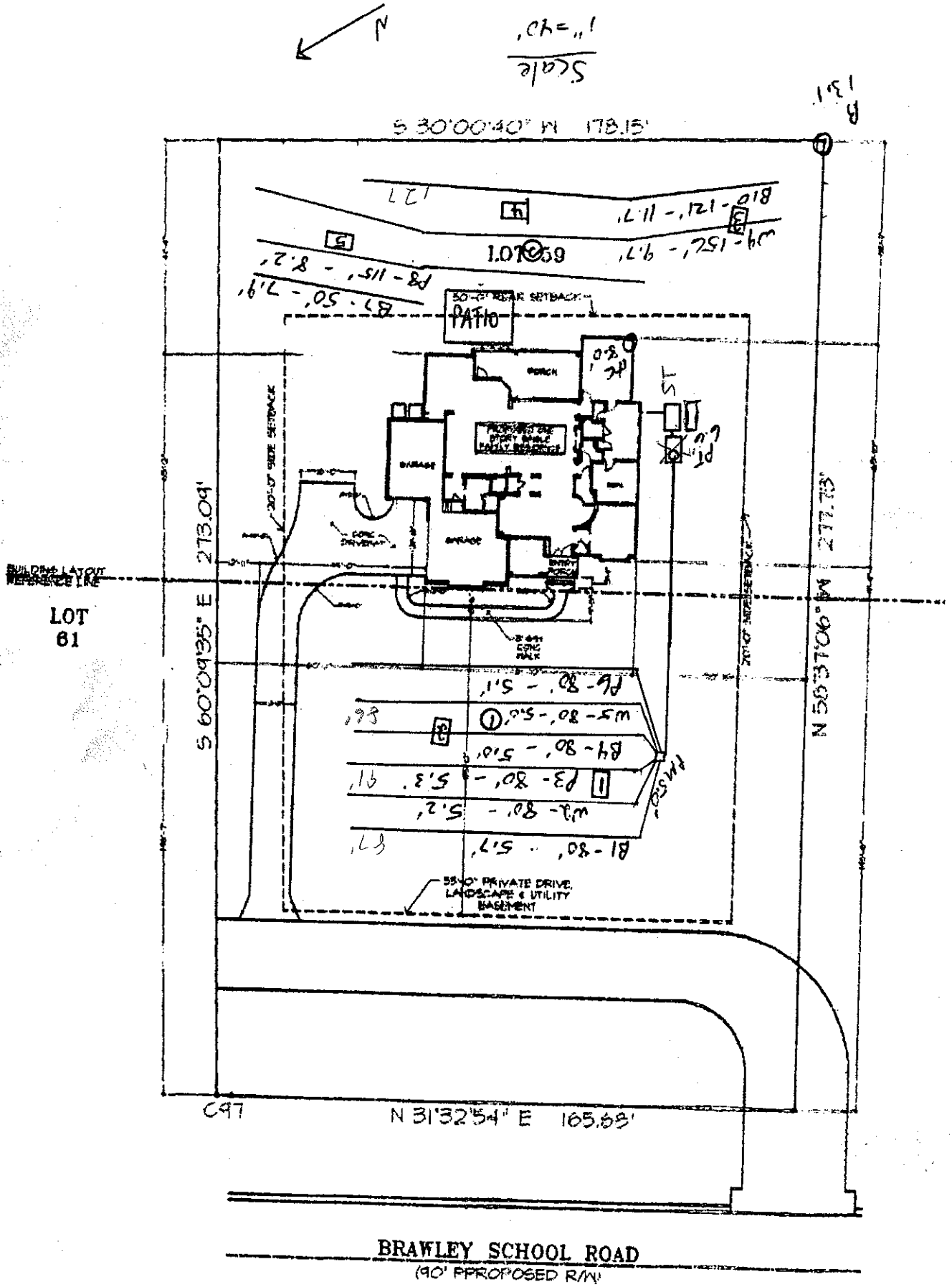
Reference: The Point Sec. 1B, Lot 59, 1849 Brawley School Rd.
House Footprint: See attached
Building Setbacks: 53'front, 50' rear, 20' side
Water Source: Community well
Number of Bedrooms: 4/480 GPD
Proposed LTAR: 0.25 GPD/FT2
Proposed System Type: 25% Reduction
Proposed Repair System Type: LPPPBPS
Distribution: Pressure manifold
Flow per Tap: 5.48 GPM
Tap Size and Material: ½" SCH 80
System Flow: 32.88 GPM
Dosing Volume: 210 gallons
Pump Run Time: 6.4 minutes
Elevation Head: 6.6'
Friction Head: 2.1'
Pressure Head: 2'
Total Dynamic Head: 10.7'
Supply Line Length: 85'
Septic/Pump Tank Size: 1500/1000 gallons
Proposed Trench Bottom: 36"

Line	Design Length	Actual Length	Elevation
Blue 1	**80'**	**86'**	**5.7'**
White 2	**80'**	**86'**	**5.2'**
Pink 3	**80'**	**86'**	**5.3'**
Blue 4	**80'**	**86'**	**5.0'**
White 5	**80'**	**86'**	**5.0'**
Pink 6	**80'**	**86'**	**5.1'**
Blue 7		50'	7.9'
Pink 8		115'	8.2'
White 9		156'	9.7'
Blue 10		121'	11.7'

Initial System: 480' **Repair System:** 442'
Pump Tank: 6.6' **House Corner:** 8.0' **Benchmark:** 13.1'

Comments:
Michael Athanas & Associates shot elevations in the front yard and determined the slope to be less than 2%.

APPROVED JUL 07 2014



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

Sheet 1 *of* 2
PROPERTY ID #: 4625967169
COUNTY: Iredell

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER: Jason Cooke _____ APPLICATION DATE _____
ADDRESS: Charlotte, NC _____ DATE EVALUATED: 6-18-14
PROPOSED FACILITY: 4 bdrm PROPOSED DESIGN FLOW (.1949): 480 GPD PROPERTY SIZE: 1.1 AC
LOCATION OF SITE: Point 1B lot 59 PROPERTY RECORDED: 9/17/1998
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	
P 1	LS 0-2%	0-5	FILL		Few YBs	55"	N/A	N/A	PS 0.3-0.25
	✓ MLP	5-20	R C ABK	FR SS SP					
		20-34	R C WSBK	FR SS SP					
		34-55	R CL WSBK	FR SS SP					
P 2	LS 0-2%	0-9	FILL		N/A	48"	N/A	N/A	PS 0.3-0.25
	✓ MLP	9-25	R C ABK	FR SS SP					
		25-48	R CL WSBK	FR SS SP					
P 3	LS 3% 6-12	0-13	Br SCL WSBK	FR SS SP	N/A	48"	N/A	N/A	PS 0.3
	12-22	13-20	R C SBK	FR SS SP					
	22-39	20-32	R C WSBK	FR SS SP					
	✓ MLP 39-49	32-48	R CL WSBK	FR SS SP					
P 4	LS 3-5%	0-4	Br SCL WSBK	FR SS SP	N/A	29"	F-C SAP PS	N/A	PS 0.3+
	✓ MLP	4-29	R C SBK	FR SS SP					
		29-56	VER L SAP M	FR SS SP					

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	1440 ft2	1326 ft2
System Type(s)	25% Red.	PPBPS
Site LTAR	.25	.25

OTHER FACTORS (.1946): _____
SITE CLASSIFICATION (.1948): PS
EVALUATED BY: MA&A APPROVED JUL 07 2014
OTHER(S) PRESENT: _____ MLP

COMMENTS: _____

SOIL/SITE EVALUATION

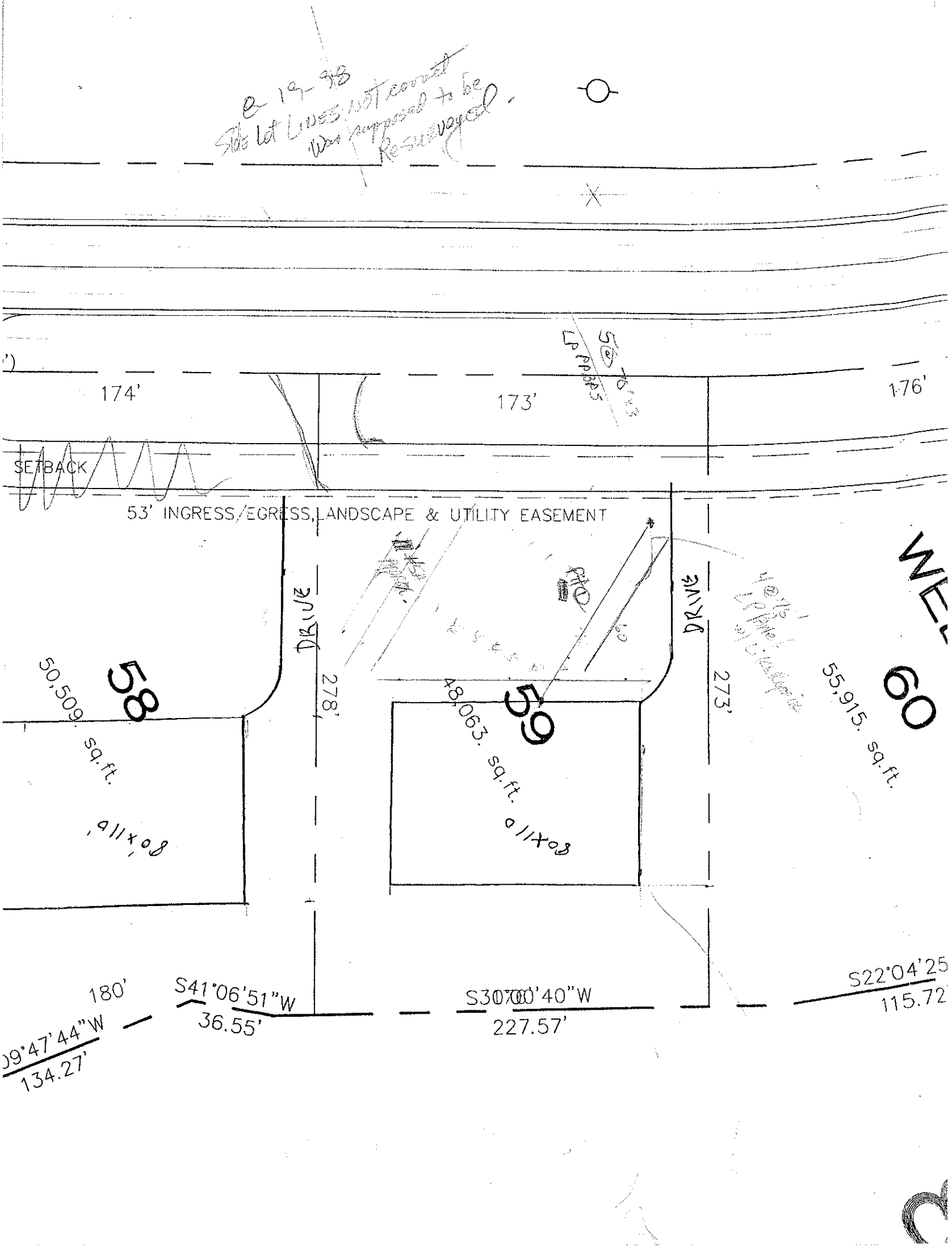
(Continuation Sheet)

DEPARTMENT OF ENVIRONMENT
AND NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL HEALTH

PROPERTY ID #: 4625967169
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
P 5	LS 4%	0-30	R C SBK	FR SS SP	N/A	30"	F-C SAP PS	N/A	PS 0.3+
		30-56	VER L SAP M	FR SS SP					
AB 1	LS 0-2%	0-30	R C SBK	FR SS SP	N/A	48"	N/A	N/A	PS 0.3
		30-48	R CL WSBK	FR SS SP					
AB 2	LS 3-5%	0-4	Br SCL WSBK	FR SS SP	N/A	29"	F-C SAP PS	N/A	PS 0.3+
		4-29	R C SBK	FR SS SP					
		29-48	VER L SAP M	FR SS SP					
P 5	SS 4-5% A2P	0-3	B SCL GR	FR SS SP SEP	com sp	29"	PS 54"		PS .3
		3-19	R C MFSBK	FR SS SP SEP					
		19-28	R CL MFSBK	FR SS SP SEP					
		28-54	VAR FSL SAP	FR SS SP SEP					
						APPROVED JUL 07 2014 A2P			

COMMENTS: Pit 5 recklassified to


e 19-98
Site Lot Lines not correct
Was proposed to be
Re-surveyed.
174'
173'
176'
SETBACK
53' INGRESS/EGRESS, LANDSCAPE & UTILITY EASEMENT
DRIVE
DRIVE
58
59
60
50,509. sq.ft.
48,063. sq.ft.
55,915. sq.ft.
278'
273'
S41°06'51"W
36.55'
S30°00'40"W
227.57'
S22°04'25
115.72
180'
09°47'44"W
134.27'

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

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

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER: CRI APPLICANT: _____
ADDRESS: _____ APPLICATION DATE: _____ DATE EVALUATED: 8-19-98
PROPOSED FACILITY: _____ PROPOSED DESIGN FLOW (.1949): _____ PROPERTY SIZE: _____
LOCATION OF SITE: Lot 59 phase 1B The Ponds 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	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		0-4	hpan scl						PS .3
		4-24	wtab R [illegible]	fr sssp					
		24-53	Sbk R[illegible]	fr ss sp					
			Restrictive ind Sbk						
2	#5A TCJ	0-4	sg-massive hksc	fr sssp					.25-.3
		4-31	wtab hpan scl	fi-fr sssp sspl					
3									
4									

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)		
System Type(s)		
Site LTAR		

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

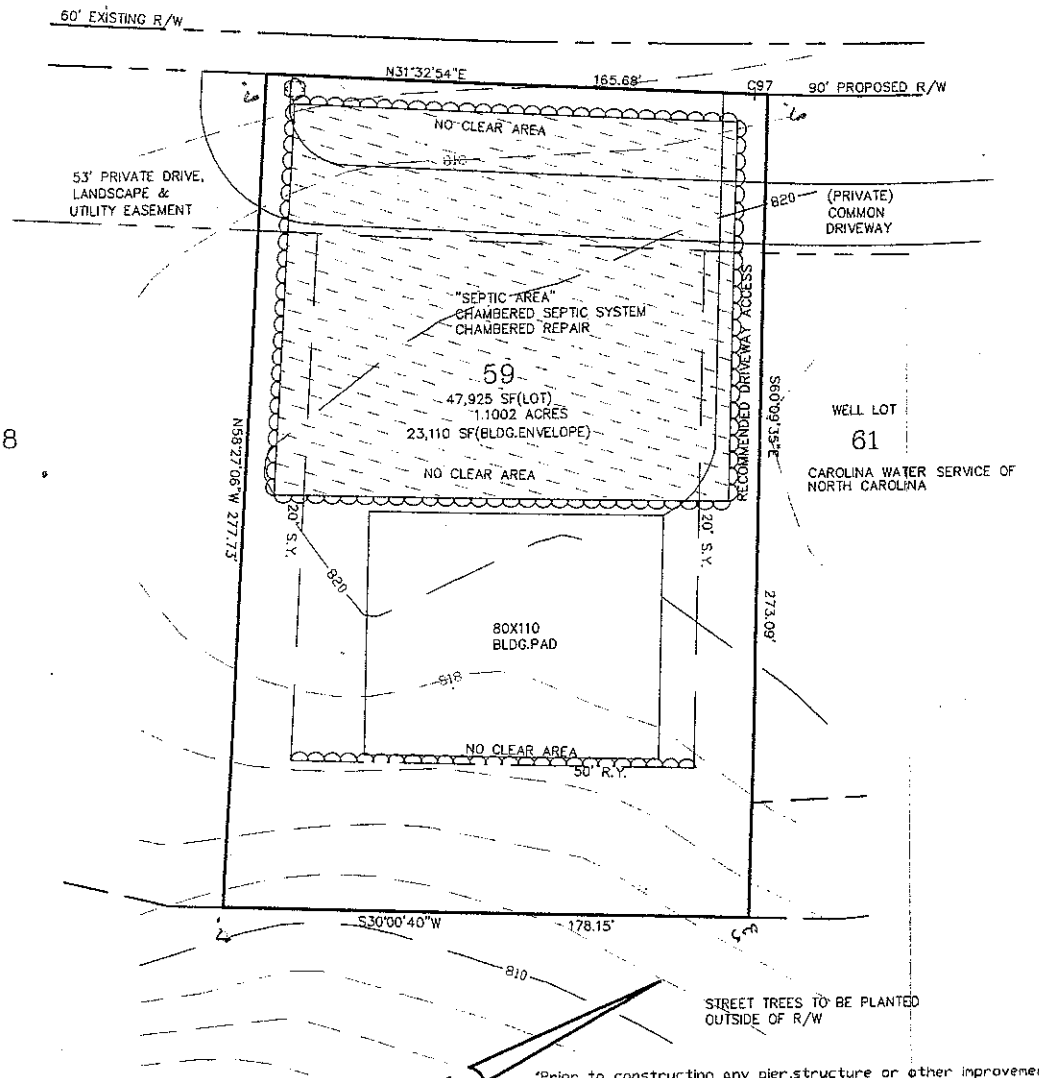
THE POINT

CURVE TABLE						
CURVE	LENGTH	RADIUS	TANGENT	CHORD	BEARING	DELTA
C97	4.27	745.00	2.14	4.27	N31°23'03"E	00°19'43"

90' PROPOSED R/W

60' EXISTING R/W

BRAWLEY SCHOOL ROAD (SR 1100)



LEGEND
R/W=RIGHT-OF-WAY
SSRW = SEWER R/W
MBS = MINIMUM BUILDING SETBACK
S.Y. = SIDE YARD
R.Y. = REAR YARD
PDE = PUBLIC DRAINAGE EASEMENT
FPE = FLOOD PROTECTION ELEVATION
=YOSHINO FLOWERING CHERRY

NORTH ORIENTED TO GRID(NAD '83)

"Prior to constructing any pier,structure or other improvement within any pier zone shown on this plat, a permit must be obtained by the applicable lot owner from Duke Energy Corporation in accordance with the terms of the applicable Lot Purchase and Sale agreement and the Declaration of Covenants,Conditions and Restrictions for The Point."

Piers may extend from the shore for a distance of 80 feet regardless of the water depth and may extend to a maximum length of 120 feet to achieve a water depth of 10 feet, measured at full pond. In no event may a pier extend more than 1/3 of the width of the cove in which it is located. The top decking of all piers must be at least 1 foot above the water surface at full pond.

PRELIMINARY PLAT NOT FOR CONSTRUCTION
RECORDATION,SALES OR CONVEYANCES

PHASE 1B LOT # 59

BRAWLEY SCHOOL ROAD

1.0002 ACRES 47,925 (SF)

WOODED

1"=50'

10/14/98

MD51BL59.DWG

BAR SCALE 1"=50'

0 25 50 100

VER.# 1/20/99

ESP ASSOCIATES, P.A.
engineering•surveying•planning
10915 Southern Loop Boulevard
Pineville, N.C. (704) 583-4949

OWNER COPY (INITIAL): GOLD

IREDELL COUNTY