

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

Reference: Data Sheet for 119 Charthouse Ln., Chesapeake Point Lot 106
House Footprint: See attached plan
Building Setbacks: 88' front, 15' side, 35' rear
Water Source: Community water
Number of Bedrooms: 4/480 GPD
Predetermined LTAR: 0.3 GPD/FT2
Proposed System Type: 25% Reduction
Proposed Repair System Type: PPBPS
Distribution: Pressure Manifold
Flow per Tap: 1 @ 5.48, 2 @ 7.11 GPM
Tap Size and Material: 1 @ ½" SCH 80, 2 @ ½" SCH 40
System Flow: 19.7 GPM
Dosing Volume: 175 gallons
Pump Run Time: 8.9 minutes
Elevation Head: 11.9'
Friction Head: 0.9'
Pressure Head: 2'
Total Dynamic Head: 14.8'
Supply Line Length: 100' 2" PVC
Septic/Pump Tank Size: 1000/1000 gallons
Proposed Trench Bottom: 36" maximum

OK JGH
APPROVED FEB 18 2016

Line	Design Length	Actual Length	Elevation
White 1		52'	2.3'
Blue 2		96'	2.9'
Orange 3	**110'**	**121'**	**4.2' (1/2" SCH 80)**
Yellow 4	**145'**	**142'**	**5.1' (1/2" SCH 40)**
Pink 5	**145'**	**149'**	**5.7' (1/2" SCH 40)**
Blue 6		110'	6.4'
Yellow 7		59'	6.9'

Initial System: 400' **Repair System:** 317'
Pump Tank: 11.1' **House Corner:** 9.9' **Benchmark:** 5.4'

Comments:
This lot was previously approved for a four bedroom residence at a LTAR of 0.3 GPD/FT2. The house box is larger than previously permitted. The septic system is designed in the same approved area. MA&A performed two soil observations for confirmation.

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

Sheet _1_ *of* _1_
PROPERTY ID #: _4636121503_
COUNTY: _Iredell_

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

OWNER: _CP II LLC_ APPLICATION DATE_____
ADDRESS: _3125 Presidential Pkwy, Atlanta GA_ DATE EVALUATED: _____
PROPOSED FACILITY: ___4 bdrm_____ PROPOSED DESIGN FLOW (.1949): _480 GPD_____ PROPERTY SIZE: __0.746 AC_____
LOCATION OF SITE: _Chesapeake Pt Lot 106, 119 Charthouse Ln_ PROPERTY RECORDED: __2015_____
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
AB 1	LS 8%	0-20	R C SBK	FR SS SP SEXP	N/A	48"	F-C SAP	N/A	PS 0.3
		20-48	R CL WSBK	FR SS SP SEXP					
AB 2	LS 8%	0-40	R C SBK	FR SS SP SEXP	N/A	48"	N/A	N/A	PS 0.3
		40-48	R CL WSBK	FR SS SP SEXP					
3									
4									

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	1200 FT2	768+ FT2
System Type(s)	25% Reduction	PPBPS
Site LTAR	0.3	0.3

OTHER FACTORS (.1946): _____
SITE CLASSIFICATION (.1948): ___PS_____
EVALUATED BY: _____M A & A_____
OTHER(S) PRESENT: _____

COMMENTS: _____

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APPROVED AUG 2 1 2015

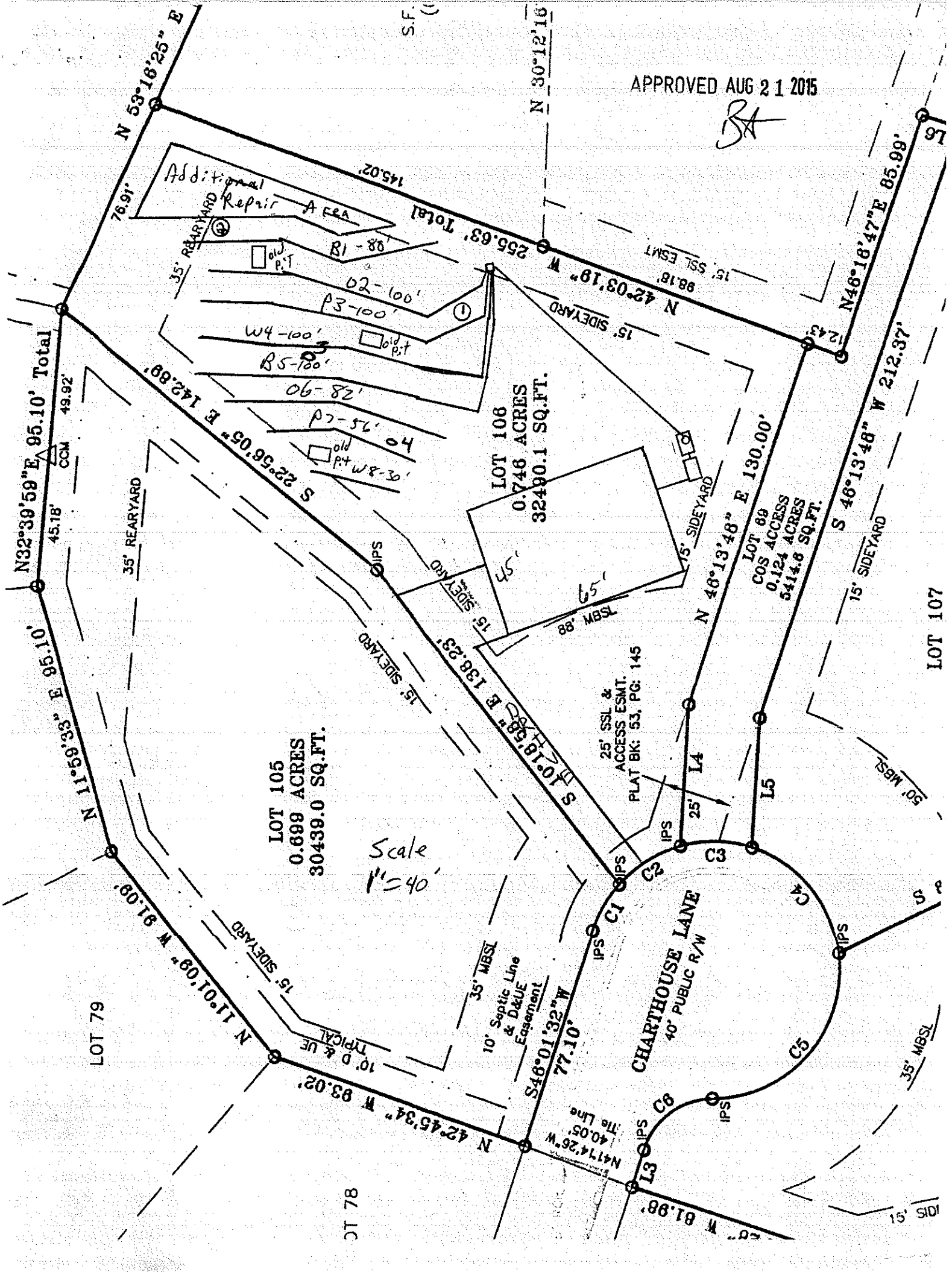
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			.1941 STRUCTURE/ TEXTURE	.1941 CONSISTENCE/ MINERALOGY	.1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	
AB 1	LS 8%	0-4	Br SL GR	FR SS SP	N/A	48"	N/A	N/A	PS 0.3
		4-16	R SCL WSBK	FR SS SP					
		16-28	YB SCL WSBK	FR SS SP					
		28-48	R C SBK	FR SS SP					
AB 2	LS 8%	0-10	R C SBK	FR SS SP	N/A	40"	F-C SAP	N/A	PS 0.3
		10-40	R CL WSBK	FR SS SP					
		40-48	SL SAP M	VFR SS SP					
3	LS 6%	0-48	CLMSBK	SSSP	NA	48"	MANY INC @ 30"	N/A	.3
4	LS 6%	0-23	CLMSBK	SSSP	NA	48"	NA	NA	.3
		23-42	CMSBK	SSSP					
		42-48	CLMSBK	SSSP					

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OTHER(S) PRESENT: _____

COMMENTS: _____


APPROVED AUG 2 1 2015
Additional Repair Area
B1 - 88'
02 - 100'
P3 - 100'
W4 - 100'
B5 - 100'
06 - 82'
P7 - 56'
04
W8 - 30'
old P.T
old P.T
old P.T
35' REARYARD
15' SIDEYARD
15' SSL ESMT
LOT 108
0.746 ACRES
32490.1 SQ.FT.
LOT 105
0.699 ACRES
30439.0 SQ.FT.
LOT 69
COS ACCESS
0.124 ACRES
5414.8 SQ.FT.
LOT 107
LOT 79
LOT 78
CHARTHOUSE LANE
40' PUBLIC R/W
25' SSL & ACCESS ESMT. PLAT BK: 53, PG: 145
10' Septic Line & D&UE Easement
10' D & UE TYPICAL
35' MBSL
50' MBSL
88' MBSL
IPS
C1
C2
C3
C4
C5
C6
L3
L4
L5
N 53°16'25" E
145.02'
Total
76.91'
N 30°12'16"
N 42°03'19" W 255.63' Total
98.18'
12.43'
N46°18'47"E 85.99'
S 46°13'48" W 212.37'
N 46°13'48" E 130.00'
S 22°56'05" E 142.89'
N32°39'59"E 95.10' Total
49.92'
45.18'
CCM
N 11°59'33" E 95.10'
S 10°18'58" E 138.23'
N 11°01'09" W 91.09'
N 42°45'34" W 93.02'
S46°01'32"W 77.10'
N41°14'26"W 40.05'
The Line
S 81.98'
Scale 1"=40'