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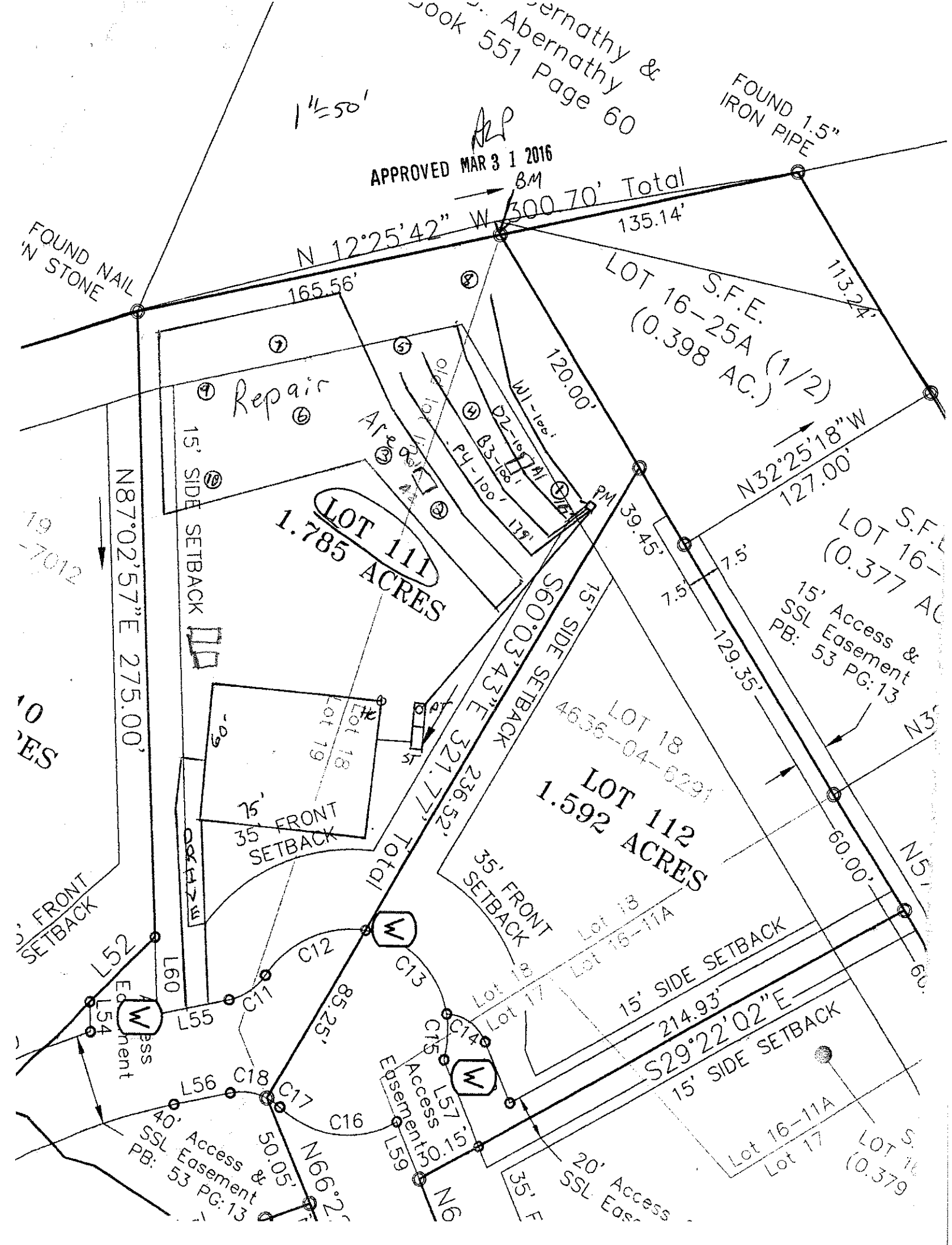
MICHAEL ATHANAS & ASSOCIATES
LICENSED SOIL SCIENTIST
561 Ennis Rd.
Weddington, NC 28173
(704) 576-3887

Reference: Data Sheet for 121 Leeward Shoals, Chesapeake Pt Lot 111
House Footprint: See attached plan
Building Setbacks: 35' front/rear, 15' side
Water Source: Community well
Number of Bedrooms: 4/480 GPD
Proposed LTAR: 0.3 GPD/FT2 (initial), 0.1 GPD/FT2 (repair)
Proposed System Type: 25% Reduction
Proposed Repair System Type: Drip Irrigation
Distribution: Pressure Manifold
Flow per Tap: 7.11 GPM
Tap Size and Material: ½" SCH 40
System Flow: 28.8 GPM
Dosing Volume: 175 Gallons
Pump Run Time: 6.1 minutes
Elevation Head: 13.7'
Friction Head: 2.2'
Pressure Head: 2'
Total Dynamic Head: 17.9'
Supply Line Length: 120'-2" PVC
Septic/Pump Tank Size: 1000/1000 gallons
Proposed Trench Bottom: 24-36"

Line	Design Length	Actual Length	Elevation
White 1	100'	110'	4.5'
Orange 2	100'	120'	5.2'
Blue 3	100'	131'	6.4'
Pink 4	100'	139'	7.2'

Initial System: 400' **Repair System:** 4800 FT2
Pump Tank: 13.2' **House Corner:** 13.4' **Benchmark:** 4.0'

Comments:


1"=50'
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FOUND NAIL 'N STONE
FOUND 1.5" IRON PIPE
N 12°25'42" W 300.70' Total
165.56'
135.14'
113.24'
120.00'
LOT 16-25A S.F.E. (0.398 AC.) (1/2)
Repair
15' SIDE SETBACK
N87°02'57"E 275.00'
LOT 111
1.785 ACRES
S60°03'43"E 321.77' Total
236.52'
N32°25'18"W
127.00'
39.45'
7.5'
7.5'
129.35'
15' Access & SSL Easement PB: 53 PG: 13
LOT 18
46.56-04-6291
LOT 112
1.592 ACRES
60.00'
35' FRONT SETBACK
75' FRONT SETBACK
DRIVE
60'
15' SIDE SETBACK
214.93'
S29°22'02"E
15' SIDE SETBACK
Lot 16-11A
Lot 17
Lot 18
L52
L54
L55
L56
L57
L59
L60
C11
C12
C13
C14
C15
C16
C17
C18
85.25'
50.05'
30.15'
40' Access & SSL Easement PB: 53 PG: 13
20' Access SSL Easement
N66°2
N6

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

PROPERTY ID #: _____
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 STE 200, Atlanta, GA 30340_____ DATE EVALUATED: _____
PROPOSED FACILITY: _4 bdrm_____ PROPOSED DESIGN FLOW (.1949): _480 GPD____ PROPERTY SIZE: ___1.822 AC__
LOCATION OF SITE: 121 Leeward Shoals, Chesapeake Pt lot 111_____ PROPERTY RECORDED: __2016_____
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 7%	0-5	Br CL WSBK	FR SS SP SEXP	N/A	48"	F-C SAP	N/A	PS 0.3
		5-40	R C SBK	FR SS SP SEXP					
		40-48	R CL WSBK	FR SS SP SEXP					
2	LS 7%	0-3	Br CL WSBK	FR SS SP SEXP	N/A	48"	F-C SAP	N/A	PS 0.3
		3-22	R C SBK	FR SS SP SEXP					
		22-48	R CL WSBK	FR SS SP SEXP					
3	LS 7%	0-4	Br CL WSBK	FR SS SP SEXP	F-C YB's CHR 2 @ 30"	30"	N/A	N/A	PS 0.25
		4-30	R C SBK	FR SS SP SEXP					
4	LS 7%	0-5	Br CL WSBK	FR SS SP SEXP	N/A	48"	F-C SAP	N/A	PS 0.3
		5-40	R C SBK	FR SS SP SEXP					
		40-48	R CL WSBK	FR SS SP SEXP					

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	1200 ft2	4800 ft2
System Type(s)	25% Reduction	Drip
Site LTAR	0.3	0.25

OTHER FACTORS (.1946): _____
SITE CLASSIFICATION (.1948): _____PS_____
EVALUATED BY: _____MA&A_____
OTHER(S) PRESENT: _____

COMMENTS: _____

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SOIL/SITE EVALUATION

(Continuation Sheet-Complete all field in full)

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

PROPERTY ID #: Ches Pt 111
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 7%	0-5	Br CL WSBK	FR SS SP SEXP	N/A	48"	F-C SAP	N/A	PS 0.3
		5-40	R C SBK	FR SS SP SEXP					
		40-48	R CL WSBK	FR SS SP SEXP					
6	LS 7%	0-5	Br CL WSBK	FR SS SP SEXP	F-C YB CHR 2 @ 24"	24"	N/A	N/A	PS 0.25
		5-24	R C SBK	FR SS SP SEXP					
7	LS 7%	0-30	YR C SBK	FR SS SP SEXP	N/A	48"	F-C SAP	N/A	PS 0.3
		30-48	R CL WSBK	FR SS SP SEXP					
8	LS 7%	0-30	R C SBK	FR SS SP SEXP	N/A	48"	N/A	N/A	PS 0.3
		30-48	R CL WSBK	FR SS SP SEXP					
9	LS 7%	0-4	Br CL WSBK	FR SS SP	N/A	48"	N/A	N/A	PS 0.3
		4-48	R C SBK	FR SS SP					

COMMENTS: _____

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SOIL/SITE EVALUATION

(Continuation Sheet-Complete all field in full)

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10	LS 5%	0-5	Br CL WSBK	FR SS SP SEXP	F-C YB CHR 2 @ 30"	30"	N/A	N/A	PS 0.25
		5-30	R C SBK	FR SS SP SEXP					
A1	LSS 6%	0-4	B Scl Gr	Fr SS SP SExP		68"	-	-	PS .3
		4-26	R C MFSBk	Fi S P SExP					
		26-41	R C MFSBk/SBk	Fi S P SExP					
		41-48	R C MFSBk	Fr SSS PS ExP	few sep				
		48-68	R CC w FSBk	Fr SSS PS ExP	Com sep				
A2	LSS 7%	0-6	B SCL Gr	Fr SS SP SExP		56"	-	-	PS .25 to 24" .2 to 28"
		6-17	R C MFABk	Fi S P SExP					
		17-24	R C WFABk	Fi SP SExP	few YB				
		24-56	R C WFABk	Fi S P SExP	Chr 2 28" Com YB com stripping Possible Litho				

COMMENTS:

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