

APPROVED JUN 16 2015

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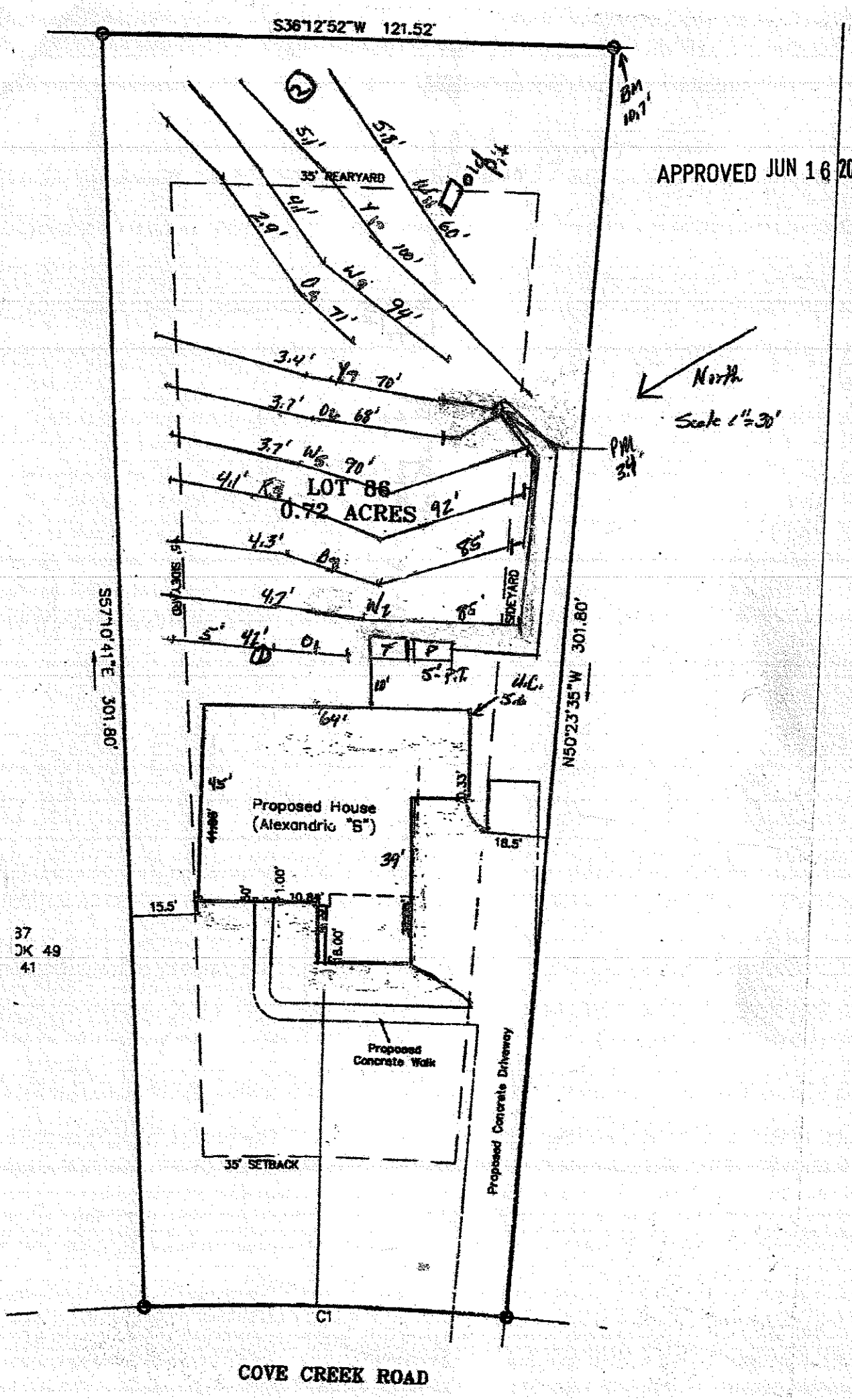
Reference: Data Sheet for Chesapeake Point Lot 86; Cove Creek Road; Iredell County, NC
House Footprint: 57' x 64'
Building Setbacks: 35' front/50' rear/15' side
Water Source: Community Water
Number of Bedrooms: 4/480 GPD
Predetermined LTAR: 0.25GPD/FT2 Initial; 0.3 GPD/FT2 Repair (ICHD)
Proposed System Type: 25% Reduction
Proposed Repair System Type: PPBPS
Distribution: Pressure Manifold
Flow per Tap: 5.48 GPM ½" SCH80 (O6,Y7) 7.11 GPM ½" SCH40 (Y2-W5)
Tap Size and Material: ½" SCH80 ½" SCH40
System Flow: 39.4 GPM
Dosing Volume: 210 Gallons
Pump Run Time: 5.32 minutes
Elevation Head: 6.6'
Friction Head: 2.74'
Pressure Head: 2'
Total Dynamic Head: 11.34'
Supply Line Length: 87'
Septic/Pump Tank Size: 1000/1000
Proposed Trench Bottom: 36"

Line	Design Length	Actual Length	Elevation
Orange 1		42'	5'
Yellow 2	**85'**	**85'**	**4.7'**
Blue 3	**85'**	**85'**	**4.3'**
Red 4	**90'**	**92'**	**4.1'**
White 5	**90'**	**90'**	**3.7'**
Orange 6	**65'**	**68'**	**3.7'**
Yellow 7	**65'**	**70'**	**3.4'**
Orange 8		71'	2.9'
White 9		94'	4.1'
Yellow 10		100'	5.1'
White 11		60'	5.8'

Initial System: 480' **Repair System:** 367' **Benchmark:** 10.7' Back right P/L corner
PM: 3.4' **Pump Tank:** 5' **House Corner:** 5.6'

Comments:

The purpose of this evaluation is to change the permit to a 4-bedroom, 25% reduction system. The area has been previously permitted by the Iredell County Health Department. The septic area has been kept in the same area. The house is currently under construction.


S36°12'52"W 121.52'
BM 101.7'
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35' REARYARD
Old Pit
North
Scale 1"=30'
PM 3.4'
LOT 86
0.72 ACRES
92'
85'
SIDEYARD
S57°40'41"E 301.80'
N50°23'35"W 301.80'
T
P
5' P.T.
U.C.
64'
45'
Proposed House
(Alexandria "S")
39'
18.5'
15.5'
10.83'
1.00'
5.00'
Proposed Concrete Walk
Proposed Concrete Driveway
35' SETBACK
C1
37
DK 49
41
COVE CREEK ROAD

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

Sheet 1 *of* 1
PROPERTY ID #: Lot 86; Chesapeake Pointe
COUNTY: Iredell

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SOIL/SITE EVALUATION *for* ON-SITE WASTEWATER SYSTEM

OWNER: CP II LLC
ADDRESS: 3125 Presidential Parkway; Suite 200; Atlanta, GA 30340
PROPOSED FACILITY: 4-Bedroom Residence
PROPOSED DESIGN FLOW (.1949): 480 GPD
LOCATION OF SITE: Lot 86; Chesapeake Pointe Subdivision; Cove Creek Loop
APPLICATION DATE
DATE EVALUATED: 05/12/2015
PROPERTY SIZE: 0.72 Acres
PROPERTY RECORDED: 4/30/2007

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	
AB 1	L 1-2%	0"-28"	R C SBK	SS SP FR NEXP		48"	Few to common saporlite inclusions.	None	.3
		28"-48"	R CL WSBK	SS SP FR NEXP					
AB 2	L 3-5%	0"-36"	R C SBK	SS SP FR NEXP		48"	Few to common saporlite inclusions.	None	.3
		36"-48"	R CL WSBK	SS SP FR NEXP					

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	1440 FT2	1101 FT2
System Type(s)	25% Reduction	PPBPS
Site LTAR	.3	.3

OTHER FACTORS (.1946):
SITE CLASSIFICATION (.1948):
EVALUATED BY: Michael Athanas and Associates
OTHER(S) PRESENT:

COMMENTS:

Lot 86 Chesapeake Pointe Fast Track Septic System Information

Number of Bedrooms	5
Basement or Crawl	**Crawl Space**
Design Flow (gpd)	600
LTAR (gpd/ft2)	0.3
Primary System Type	**LP PPBPS**
No. Lines	5 (See Table)
Total Linear Feet	335
Trench Width	2' min.
Trench Spacing	8' min.
Pump Required	Yes
Distribution Device	Gate Valve Box w/ LPP Distribution
Maintenance Agreement Required	Yes
Length and Diameter of Supply Pipe	150' of 2" SCH 40 PVC
Size of laterals	1 1/4" SCH 40 PVC
Flow Rate through the system	37.5 gpm
Elevation head	Approx. 9.3'
Pressure head	3.0'
Friction head	4.1'
20% Contingency	3.3'
Total Head	19.7'
Pump Requirements	37.5 gpm @ 19.7' of head; use Goulds WE05H pump or equivelent with compatible electrical
Maximum Dosing Volume	270 gal -2.2 doses/day @ design flow*
Volume of water pumped per dose	Calculated to specific tank by measure or dealer engineering specifications (1 cubic ft. of water equals 7.48 gal.)
Pump Run per dose	approx. 7.2 min.
Check Valve	Yes
Siphon Break hole	No
Repair System	**LP PPBPS (.25 LTAR)**
Total Linear Feet	423

***Before placement of cap block, one panel on each line near the center of the field should be observed filling to make certain that it does not overflow top chamber into air chambers of panel. If overflow occurs, reduce floats by 25 gallons and reset until no overflow is observed.**

Table 1: Summary of Primary and Repair Nitrification Line Specifications

Line No.	Use	Line Color	System Type	Line Length (Ft.)	Rod Reading Elev. (Ft.)	Panels	Holes	Hole Spacing	Hole Size (In.)
1	Repair	Orange	LPPPBPS	88	5.0				
2	Repair	Pink	LPPPBPS	89					
3	Repair	Red	LPPPBPS	82					
4	Repair	White	LPPPBPS	89					
5	Repair	Orange	LPPPBPS	75					
6	System	Red	LPPPBPS	60 endfed	3.4	13	13	1 per panel	5/32"
7	System	White	LPPPBPS	55 endfed		12	12	1 per panel	5/32"
8	System	Pink	LPPPBPS	75 centerfed		17	17	1 per panel	5/32"
9	System	Red	LPPPBPS	75 centerfed		17	17	1 per panel	5/32"
10	System	White	LPPPBPS	70 centerfed	6.8	16	16	1 per panel	5/32"
						Total: 75	Total: 75 (1 in each panel turned up)		
				Total System: 335'					
				Total Repair: 423'					

Tank	Red	1000 gal (2 compartment)	6.7
Pump Tank	Red	1000 gal.	6.7
House	Blue		7.5