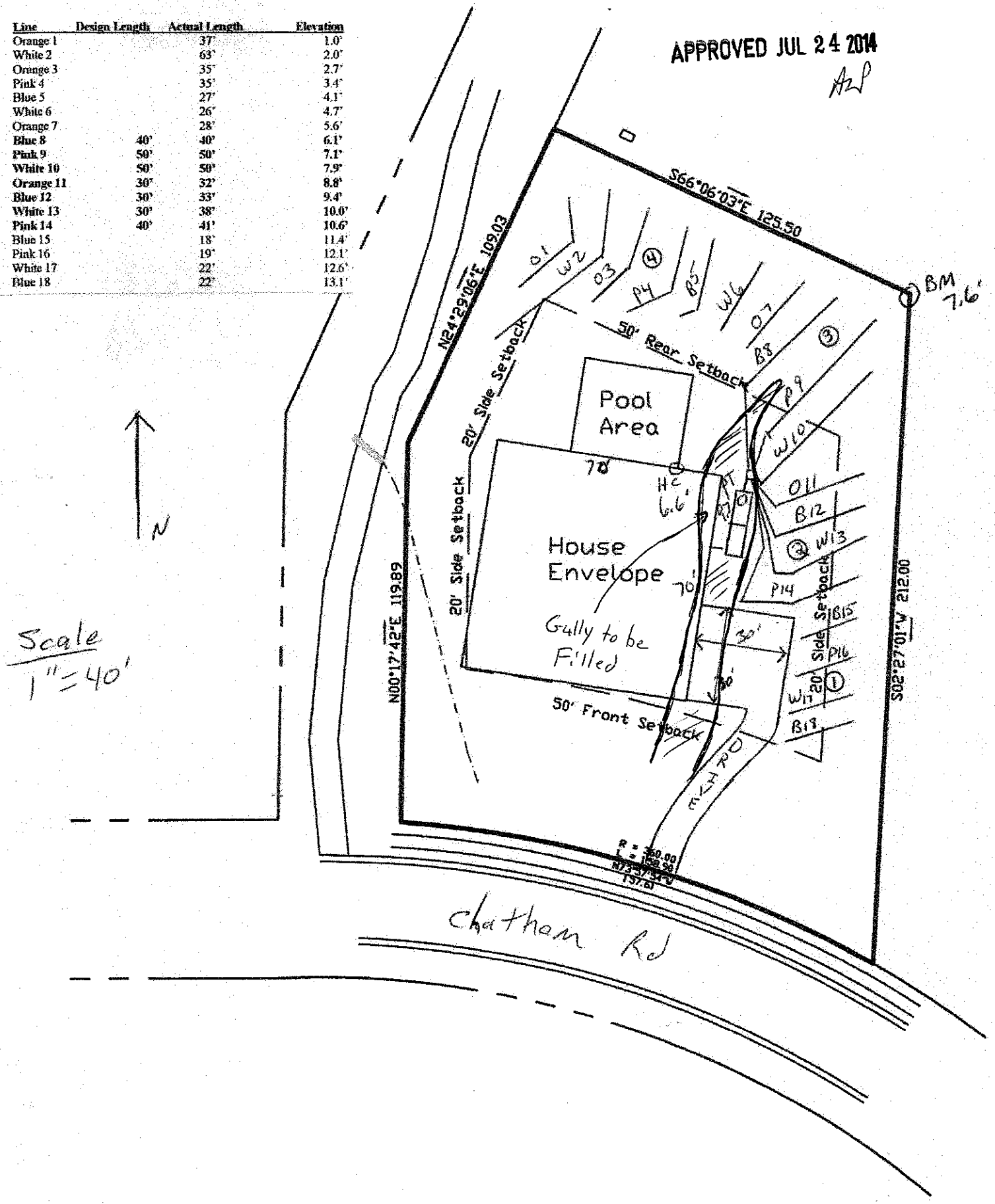
Line	Design Length	Actual Length	Elevation
Orange 1		37'	1.0'
White 2		63'	2.0'
Orange 3		35'	2.7'
Pink 4		35'	3.4'
Blue 5		27'	4.1'
White 6		26'	4.7'
Orange 7		28'	5.6'
Blue 8	**40'**	**40'**	**6.1'**
Pink 9	**50'**	**50'**	**7.1'**
White 10	**50'**	**50'**	**7.9'**
Orange 11	**30'**	**32'**	**8.8'**
Blue 12	**30'**	**33'**	**9.4'**
White 13	**30'**	**38'**	**10.0'**
Pink 14	**40'**	**41'**	**10.6'**
Blue 15		18'	11.4'
Pink 16		19'	12.1'
White 17		22'	12.6'
Blue 18		22'	13.1'

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

Reference: Point 1B, Lot 15, 177 Chatham rd
House Footprint: See attached plan
Building Setbacks: 50' front/rear, 20' side
Water Source: Community well
Number of Bedrooms: 4/480 GPD/FT2
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: 35.99 GPM
Dosing Volume: 219.6 gallons
Pump Run Time: 6.1 minutes
Elevation Head: 8.6'
Friction Head: 0.2'
Pressure Head: 2'
Total Dynamic Head: 10.8'
Supply Line Length: 10'
Septic/Pump Tank Size: 1500/1000
Proposed Trench Bottom: 36"

Line	Design Length	# of Panels	Actual Length	Elevation
Orange 1			37'	1.0'
White 2			63'	2.0'
Orange 3			35'	2.7'
Pink 4			35'	3.4'
Blue 5			27'	4.1'
White 6			26'	4.7'
Orange 7			28'	5.6'
Blue 8	**40' 46**	**9**	**40'**	**6.1'**
Pink 9	**~~50'~~ 49**	**11**	**50'**	**7.1'**
White 10	**~~50'~~ 45**	**11**	**50'**	**7.9'**
Orange 11	**~~30'~~ 33**	**7**	**32'**	**8.8'**

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AcP

Line	Design Length	# of Panels	Actual Length	Elevation
Blue 12	~~30'~~ 33'	7	**33'**	**9.4'**
White 13	~~30'~~ 33	7	**38'**	**10.0'**
Pink 14	**40'**	9	**41'**	**10.6'**
Blue 15			18'	11.4'
Pink 16			19'	12.1'
White 17			22'	12.6'
Blue 18			22'	13.1'

Initial System: 270' **Repair System:** 332'
Pump Tank: 9.7' **House Corner:** 6.6' **Benchmark:** 7.6'

Comments:
All gullies must be filled.

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

Sheet 1 *of* 1
PROPERTY ID #: 4635057871
COUNTY: Iredell

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

OWNER: Richard Bischof APPLICATION DATE
ADDRESS: 115 Ivy Creek LN, Mooresville, NC DATE EVALUATED:
PROPOSED FACILITY: 4 bdrm PROPOSED DESIGN FLOW (.1949): 480 GPD PROPERTY SIZE: 0.72
LOCATION OF SITE: Point 1B Lot 15 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) .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	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					
2	LS 5%	0-32	R C SBK	FR SS SP	N/A	48"	N/A	N/A	PS 0.3
	B1 SC	32-48	R CL WSBK	FR SS SP					.3
3	LS 7%	0-6	Br SCL WSBK	FR SS SP	N/A	48"	N/A	N/S	PS 0.3
	B2 SC	6-38	R C SBK	FR SS SP					.3
		38-48	R CL WSBK	FR SS SP					
4	LS 7%	0-38	R C SBK	FR SS SP	N/A	48"	N/A	N/A	PS 0.3
	B3 SC	38-48	R CL WSBK	FR SS SP					.3

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	810 FT2	810 FT2
System Type(s)	PPBPS	PPBPS
Site LTAR	0.3	0.3

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

COMMENTS: APPROVED 24 2014