

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

Reference: Data Sheet for 120 Topaz Pl. Crystal Bay SD, Lot 66
House Footprint: See attached
Building Setbacks: 35' front/rear, 15' side, 25' side street
Water Source: Private well
Number of Bedrooms: 4/480 GPD
Predetermined LTAR: 0.3 GPD/FT2 (ICHD)
Existing System Type: 25% Reduction (E-Z Flow)
Proposed Repair System Type: PPBPS
Distribution: Pressure manifold (existing)
Septic Tank Size: 1000/1000 gallons (existing)
Proposed Trench Bottom: 36" maximum (repair)

Line	Design Length	Actual Length
Blue 1 (ex)	**100'**	
Orange 2 (ex)	**100'**	
Blue 3 (ex)	**100'**	
Orange 4 (ex)	**100'**	
Pink 5		50'
Orange 6		50'
White 7		19'
Pink 8		28'
Blue 9		28'
Orange 10		30'
White 11		34'
White 12		29'
Pink 13		20'

Initial System: 400' (existing) **Repair System:** 288'

Comments:
MA&A evaluated this property to show adequate repair area for four bedrooms. The original permit showed a 12' x 12' addition to the back of the home. An addition of approximately 16' x 20' was built. This addition compromised the permitted repair area. The property was deeded in 1965 (BK 9, PG9); therefore we laid out the repair 5' from the property lines. The repair is laid

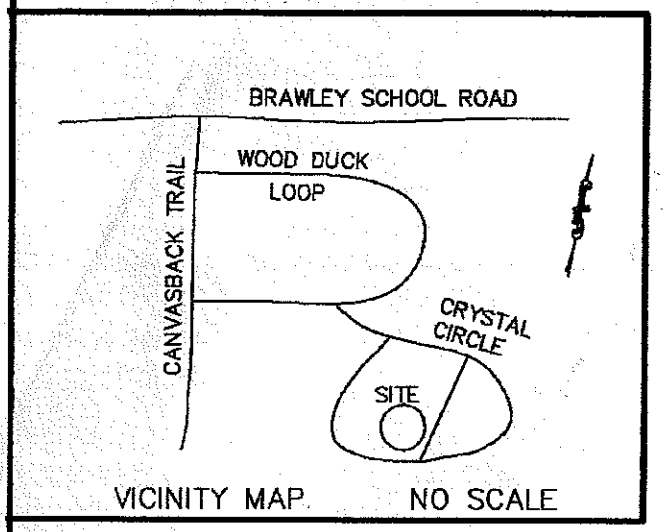
out in previously approved soil area. We perform soil observations to confirm LTAR. If the repair is ever needed, the out building will need to be removed.



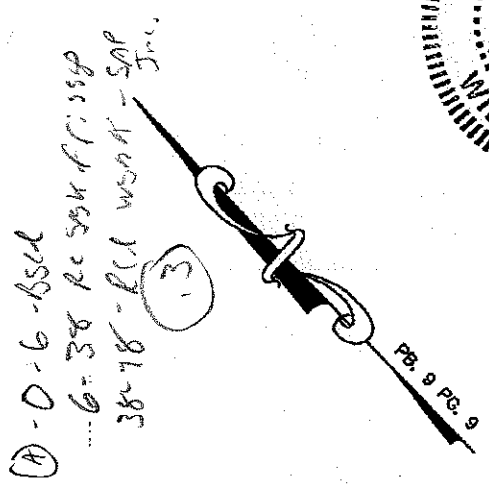
plat book 9, page 9, that the ratio of precision is 1':10,000, that this map was prepared in accordance with the General Statutes of North Carolina Chapter 89C.
my hand and seal on the 5, day of JULY,
A.D. 20 16.

WILLIAM M. ALLEN, PLS

NORTH CAROLINA PROFESSIONAL SEAL L3499 LAND SURVEYOR WILLIAM M. ALLEN



VICINITY MAP. NO SCALE



LOT 65
PAMELA JEAN MORRISON
728/141

(BASE BEARING)
S46°33'00"E
155.86'
OVERHEAD POWER
#4 REBAR
1/2" PIPE
60.00'
R/W
BLDG.
TANKS
LOT 66
0.46 AC.
S43°22'16"W
128.16'
TOPAZ PLACE
60' PUBLIC R/W
127.34'
54.9'
40.9'
2 STORY
FRAME & BRICK
COMP. ROOF
PORCH
Patio
40' SETBACK
WELL
LOT 67
CARL STOUT
2229/2243
N44°52'14"E
R=725.11
A=17.22'
(CHORD BEARING)
N43°42'39"W
17.22'
N46°33'00"W
142.00'
(TIE ONLY)
N04°33'58"E
44.92'
PK NAIL SET
CRYSTAL CIRCLE
60' PUBLIC R/W
60'

0' 20' 40' 100'
SCALE IN FEET

LEGEND
P.P. = POWER POLE
□ = DUKE POWER TRANS.
E.I.P. = EXISTING IRON FOUND
I.P.S. = #4 REBAR SET
R/W = RIGHT-OF-WAY

NOTES
1) THIS PROPERTY MAY BE SUBJECT TO ANY EASEMENTS AND/OR RIGHTS OF WAY OF RECORD.
2) ACREAGE COMPUTED BY THE

BOUNDARY / SEPTIC SURVEY

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

Sheet _1_ *of* _1_
PROPERTY ID #: 4646044904
COUNTY: Iredell

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

OWNER: Danny McGraw
ADDRESS: 120 Topaz Place, Mooresville, NC 28117
PROPOSED FACILITY: 4 bdrm
PROPOSED DESIGN FLOW (.1949): 480 GPD
LOCATION OF SITE: 120 Topaz Place, Crystal Bay Lot 66
APPLICATION DATE
DATE EVALUATED:
PROPERTY SIZE: 0.46 AC
PROPERTY RECORDED: 1965

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 4%	0-34	R C SBK	FR SS SP SEXP	N/A	48"	Few SAP	N/A	PS 0.3
		34-48	R CL WSBK	FR SS SP SEXP					
2	LS 4%	0-6	Br SCL WSBK	FR SS SP SEXP	N/A	48"	Few SAP	N/A	PS 0.3
		6-34	R C SBK	FR SS SP SEXP					
		34-48	R CL WSBK	FR SS SP SEXP					
A 3	18	0-6	BSCL WSBK	fr SSSP SexP	N/A	48	Inclusions N/A		.3
		6-38	RC SBK	fr SSSP SexP					
		38-48	RCL WSBK	fr SSSP SexP Few SAP Inc.					
4									

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	EXISITNG	576 FT2
System Type(s)	E-Z FLOW	PPBPS
Site LTAR	0.3 ICHD	0.3 ICHD

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

COMMENTS: