

MICHAEL ATHANAS & ASSOCIATES
LICENSED SOIL SCIENTIST
1999 CANDLEWICK DRIVE
FORT MILL, S.C. 29715
803-802-4403 (office)
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Reference: Data Sheet for Tuskaroara Point, Lot 17
House Footprint: See attached
Building Setbacks: 35' front/rear, 15' side
Water Source: Private well
Number of Bedrooms: 4/480 GPD
Proposed LTAR: 0.3 GPD/FT2 (initial), 0.1 (repair)
Proposed System Type: PPBPS
Proposed Repair System Type: Drip Irrigation
Distribution: Low pressure-CVB
Flow per Orifice: 0.59 GPM
Orifice Size: 3/16"
System Flow: 35.4 GPM
Dosing Volume: 216 gallons
Pump Run Time: 6.1 minutes
Elevation Head: 2.8'
Friction Head: 1'
Pressure Head: 2'
Total Dynamic Head: 5.8'
Supply Line Length: 40' (2" SCH 40)
Septic/Pump Tank Size: 1000/1000 gallons
Proposed Trench Bottom: 36"

Line	Design Length	Panels	Actual Length	Elevation
Blue 1	**50'**	**11**	**50'**	**5.2'**
Orange 2	**85'**	**19**	**85'**	**6.9'**
White 3	**65'**	**15**	**65'**	**8.8'**
Pink 4	**45'**	**10**	**45'**	**9.6'**
Blue 5	**25'**	**5**	**25'**	**10.7'**

Initial System: 270' **Repair System:** 5900ft2
Pump Tank: 3.0' **House Corner:** 0.5' **Benchmark:** 11.2'

Comments:

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

Sheet ____ *of* ____
PROPERTY ID #: _____
COUNTY: _____

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER: _Bealer Homes_____ APPLICATION DATE_____
ADDRESS:_____ DATE EVALUATED: _____
PROPOSED FACILITY: _4 bdrm_____ PROPOSED DESIGN FLOW (.1949): _480 GPD_____ PROPERTY SIZE: _____
LOCATION OF SITE: __Tuskaroara Pt 17_____ PROPERTY RECORDED: _____
WATER SUPPLY: Ξ Private Public Ξ Well Spring Other _____
EVALUATION METHOD: Auger Boring Ξ Pit Cut TYPE OF WASTEWATER: Ξ 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 5%	0-27	R C SBK	FR SS SP		59"			PS 0.3 repair
		27-59	R CL WSBK	FR SS SP					
2	LS 12%	0-30	R CL WSBK	FR SS SP		30"	F-C SAP		PS 0.4 repair
		30-63	Ver L SAP M	VFR SS SP					
3	Left Side LS 5%	0-17	R C SBK	FR SS SP		42"	F-C SAP		PS 0.3-0.4 repair
		17-42	R CL WSBK	FR SS SP					
		42-56	L SAP M	VFR SS SP					
3	Right Side LS 5%	0-14	R C SBK	FR SS SP		25"	F-C SAP		PS 0.3-0.4 repair
		14-25	R CL WSBK	FR SS SP					
		25-58	L SAP M	VFR SS SP					

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	540 FT2	
System Type(s)	PPBPS	Drip Irrigation
Site LTAR	0.3	0.1

OTHER FACTORS (.1946): _____
SITE CLASSIFICATION (.1948): _____

EVALUATED BY: _M A & Associates_____
OTHER(S) PRESENT: _____

COMMENTS:_____

SOIL/SITE EVALUATION

(Continuation Sheet)

Sheet ____ of ____

DEPARTMENT OF ENVIRONMENT
AND NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL HEALTH

PROPERTY ID #: _____
DATE OF EVALUATION: _____
COUNTY: _____

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	OTHER PROFILE FACTORS .1943 SOIL DEPTH	OTHER PROFILE FACTORS .1956 SAPRO CLASS	OTHER PROFILE FACTORS .1944 RESTR HORIZ	PROFILE CLASS & LTAR
4	LS 5%	0-33	R C SBK	FR SS SP		54"	F-C SAP		PS 0.3 initial
		33-54	R CL WSBK	FR SS SP					
5	LS 5%	0-12	BrR CL WSBK	FR SS SP	Few Mn	58"			PS 0.3-0.275 initial
		12-33	R C SBK	FR SS SP					
		33-58	R CL WSBK	FR SS SP					
6	LS 10%	0-30	R C SBK	FR SS SP		30"			PS 0.3 Not in system area
		30-50	RY L SAP M	FR SS SP					
7	LS 5%	0-20	R C SBK	FR SS SP		20"			DRIP 0.1 repair
		20-	WR/incl C						
AB 1	LS 7%	0-36	R C SBK	FR SS SP		48"	F-C SAP		PS 0.3
		36-48	R CL WSBK	FR SS SP					

COMMENTS: _____

TUSKARORA POINT

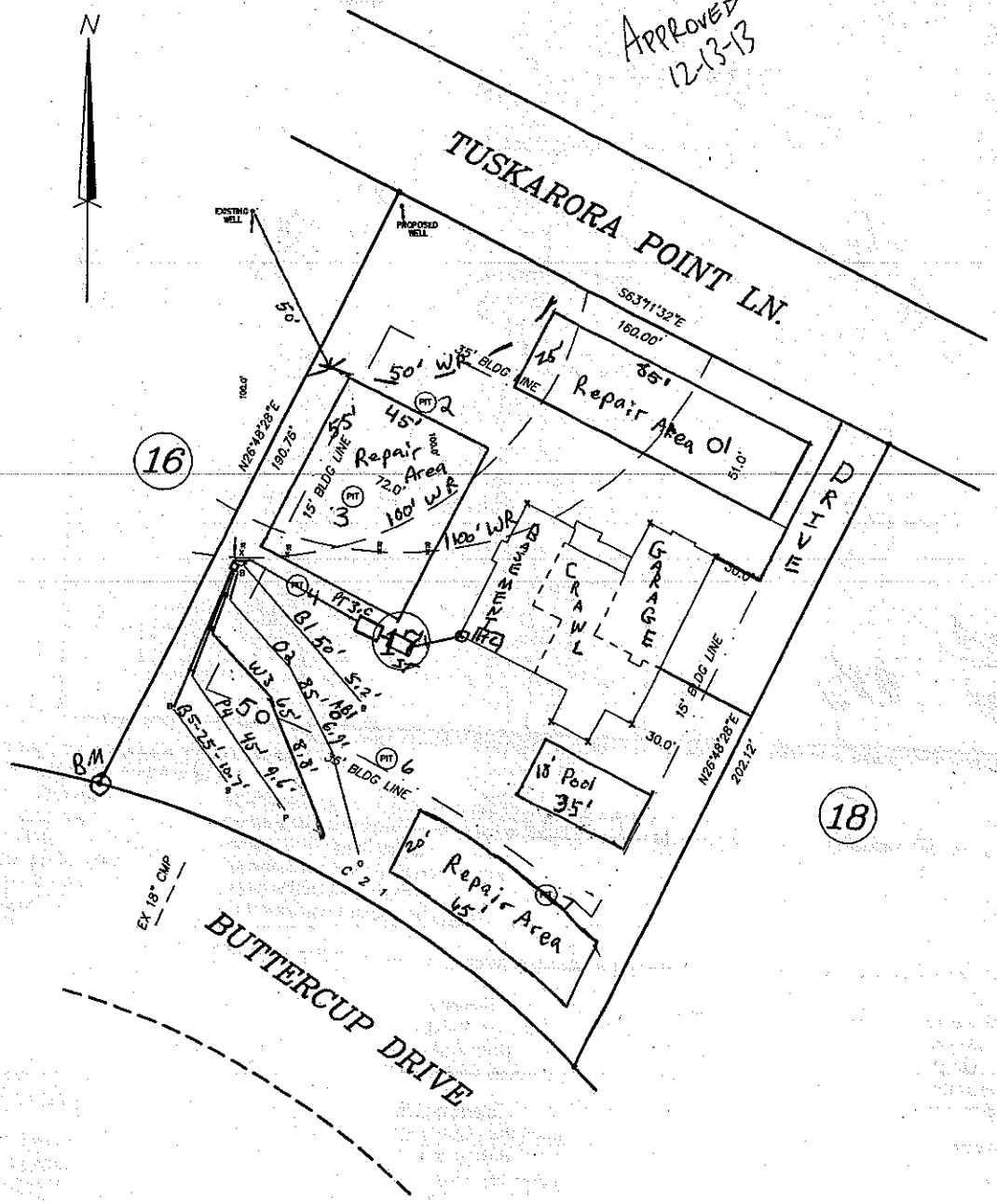
KENNETH BEALER HOMES, INC.

40 0 40 40

SCALE: 1" = 40'

CURVE TABLE

NUM	DELTA	ARC	RADIUS	BEARING	DISTANCE
C21	31°14'58"	162.41'	297.77'	N59°07'52"W	160.40'



Preliminary Site Plan

0.694 Ac. +/–

Lot 17 of TUSKARORA POINT

Davidson Township Iredell County, NC

(Property of WOODLAND & WATERVIEW, LLC)

A PRELIMINARY PLAT NOT FOR CONSTRUCTION, RECORDATION, SALES, OR CONVEYANCES