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

Sheet 1 of 3
PROPERTY ID #: 3906
COUNTY: Iredell

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

OWNER: R. Kelly
ADDRESS:
APPLICATION DATE
DATE EVALUATED: 4/7/16
PROPOSED FACILITY: SFR
PROPOSED DESIGN FLOW (.1949): 480 GPD
PROPERTY SIZE: .96 Acre
LOCATION OF SITE: 106 Knox Haven Mooresville Knox Haven 7/10
PROPERTY RECORDED:
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
A 1	LL/LS 5%	0-26	RCL, SBK	FR, SS, SP	/	48"	C-M SAP INCL 23"-48"	/	.3 0-22" .325 22"-48"
		26-48	RCL, SBK/WSBK	FR, SS, SP					
A 2	LL 5%	0-8	FILL	—	/	48"	C-M SAP INCL 35"-48"	/	.3
		8-12	BCL, WSBK	FR, SS, SP					
		12-16	RC, SBK	FR, SS, SP					
		16-44	RC, ABK/SBK	FR/FI, SS/S, SP/P					
		44-48	RCL,	FR, SS SP					
A 3	LS/FS 9%	0-6	BSCL, WSBK	FR, SS, SP	/	48"	F SAP INCL BOTTOM PROFILE	/	.3
		6-48	RC, SBK	FR, SS, SP					
A 4	SS 9%	0-6	BSCL, WSBK	FR, SS SP	/	48"	F-L SAP INCL 30"-48"	/	.3
		6-48	RC, SBK	" " "					

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	PS	PS
System Type(s)	Approved	Approved
Site LTAR	.3	.3

OTHER FACTORS (.1946):
SITE CLASSIFICATION (.1948): PS
EVALUATED BY: SC
OTHER(S) PRESENT: Ray Kelly

COMMENTS:

LEGEND

use the following standard abbreviations

2/2

LANDSCAPE POSITION	GROUP	SOIL TEXTURE	CONVENTIONAL .1955 LTAR*	LPP .1957 LTAR*	MINERALOGY/ CONSISTENCE	STRUCTURE
CC (Concave Slope) CV (Convex Slope) D (Drainage Way) DS (Debris Slump) FP (Flood Plain) FS (Foot Slope) H (Head Slope) L (Linear Slope) N (Nose Slope) R (Ridge) S (Shoulder Slope) T (Terrace)	I	S (Sand) LS (Loamy Sand)	1.2 - 0.8	0.6 - 0.4	SEXP (Slightly Expansive) EXP (Expansive)	G (Single Grain) M (Massive) CR (Crumb) GR (Granular) SBK (Subangular Blocky) ABK (Angular Blocky) PL (Platy) PR (Prismatic)
	II	SL (Sandy Loam) L (Loam)	0.8 - 0.6	0.4 - 0.3		
	III	Si (Silt) SiCL (Silty Clay Loam) CL (Clay Loam) SCL (Sandy Clay Loam) SiL (Silt Loam)	0.6 - 0.3	0.3 - 0.15		
					MOIST	WET
	IV	SC (Sandy Clay) SiC (Silty Clay) C (Clay)	0.4 - 0.1	0.2 - 0.05	VFR (Very Friable) FR (Friable) FI (Firm) VFI (Very Firm to Very Sticky)	NS (Non-sticky) SS (Slightly Sticky) S (Sticky) VS (Very Sticky)
		O (Organic)	None	None	EFI (Extremely Firm)	NP (Non-plastic) SP (Slightly Plastic) P (Plastic) VP (Very Plastic)

*Adjust LTAR due to depth, consistence, structure, soil wetness, landscape, position, wastewater flow and quality.

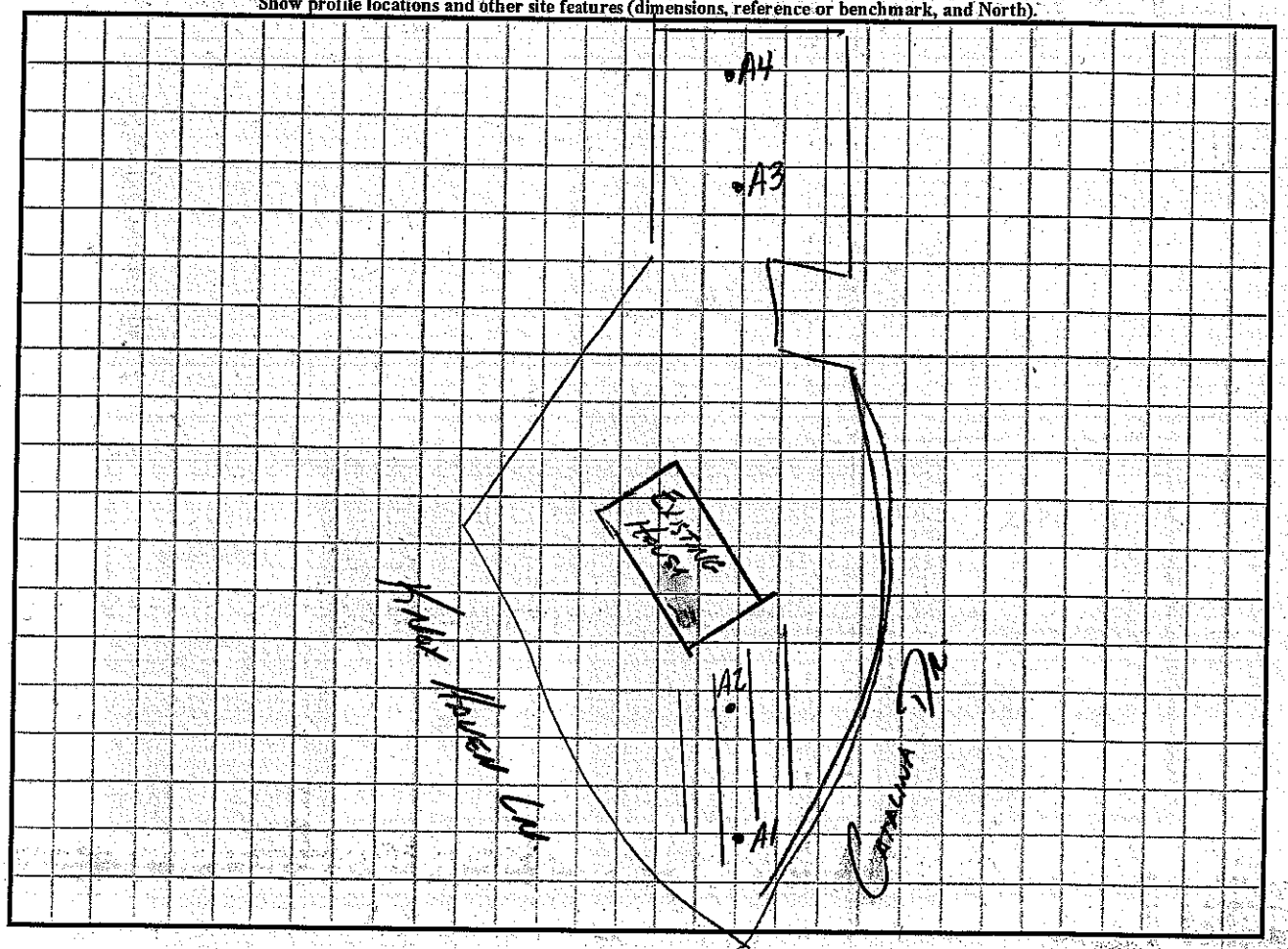
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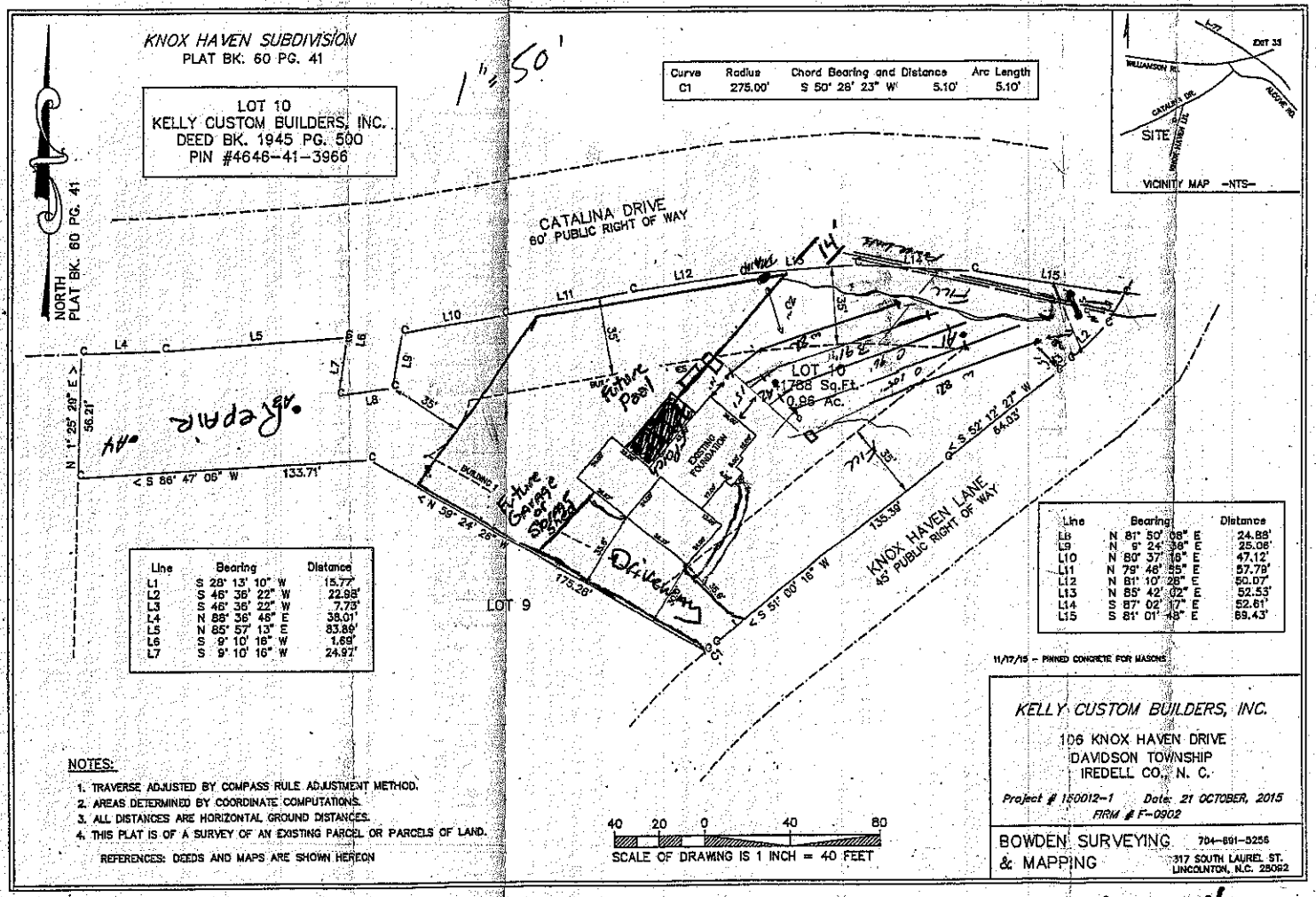
HORIZON DEPTH	In inches below natural soil surface
DEPTH OF FILL	In inches from land surface
RESTRICTIVE HORIZON	Thickness and depth from land surface
SAPROLITE	S(suitable) or U(unsuitable)
SOIL WETNESS	Inches from land surface to free water or inches from land surface to soil colors with chroma 2 or less - record Munsell color chip designation
CLASSIFICATION	S (Suitable), PS (Provisionally Suitable), or U (Unsuitable)

Evaluation of saprolite shall be by pits.

Long-term Acceptance Rate (LTAR): gal/day/ft^2

Show profile locations and other site features (dimensions, reference or benchmark, and North).




KNOX HAVEN SUBDIVISION
PLAT BK. 60 PG. 41
LOT 10
KELLY CUSTOM BUILDERS, INC.
DEED BK. 1945 PG. 500
PIN #4646-41-3966
NORTH PLAT BK. 60 PG. 41
CATALINA DRIVE
60' PUBLIC RIGHT OF WAY
KNOX HAVEN LANE
45' PUBLIC RIGHT OF WAY
LOT 9
LOT 10
21788 Sq.Ft.
0.96 Ac.
Future Patio
Future Garage or Storage
Driveway
EXISTING FOUNDATION
BRICK
BUILDING 1
N 1° 25' 29" E 56.21'
< S 86° 47' 06" W 133.71'
< N 59° 24' 26" W 175.26'
< S 51° 00' 16" W 135.39'
QC S 52° 12' 27" W 64.03'
Curve | Radius | Chord Bearing and Distance | Arc Length
C1 | 275.00' | S 50° 28' 23" W 5.10' | 5.10'
Line | Bearing | Distance
L1 | S 28° 13' 10" W | 15.77'
L2 | S 46° 36' 22" W | 22.98'
L3 | S 46° 36' 22" W | 7.73'
L4 | N 86° 36' 48" E | 38.01'
L5 | N 85° 57' 13" E | 83.86'
L6 | S 9° 10' 16" W | 1.69'
L7 | S 9° 10' 16" W | 24.92'
Line | Bearing | Distance
L8 | N 81° 50' 08" E | 24.88'
L9 | N 9° 24' 38" E | 25.06'
L10 | N 80° 37' 16" E | 47.12'
L11 | N 79° 46' 55" E | 57.79'
L12 | N 81° 10' 28" E | 50.07'
L13 | N 85° 42' 02" E | 52.53'
L14 | S 87° 02' 17" E | 52.61'
L15 | S 81° 01' 48" E | 69.43'
SITE
VICINITY MAP -NTS-
11/17/15 - PINNED CONCRETE FOR MASONS
NOTES:
1. TRAVERSE ADJUSTED BY COMPASS RULE ADJUSTMENT METHOD.
2. AREAS DETERMINED BY COORDINATE COMPUTATIONS.
3. ALL DISTANCES ARE HORIZONTAL GROUND DISTANCES.
4. THIS PLAT IS OF A SURVEY OF AN EXISTING PARCEL OR PARCELS OF LAND.
REFERENCES: DEEDS AND MAPS ARE SHOWN HEREON
40 20 0 40 80
SCALE OF DRAWING IS 1 INCH = 40 FEET
KELLY CUSTOM BUILDERS, INC.
106 KNOX HAVEN DRIVE
DAVIDSON TOWNSHIP
IREDELL CO., N. C.
Project # 150012-1 Date: 21 OCTOBER, 2015
FIRM # F-0902
BOWDEN SURVEYING & MAPPING
704-891-5256
317 SOUTH LAUREL ST.
LINCOLNTON, N.C. 28092