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

Sheet 1 of 7
PROPERTY ID #: 9603
COUNTY: Iredell

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

OWNER: Earl Edmonson
ADDRESS: —
APPLICATION DATE: 2/18/16
DATE EVALUATED: 3/18/16
PROPOSED FACILITY: SFR
PROPOSED DESIGN FLOW (.1949): 360 GPD
PROPERTY SIZE: 10.433 Acres
LOCATION OF SITE: 4272 Hickory Hwy
PROPERTY RECORDED: No
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	OTHER PROFILE FACTORS .1943 SOIL DEPTH	OTHER PROFILE FACTORS .1956 SAPRO CLASS	OTHER PROFILE FACTORS .1944 RESTR HORIZ	PROFILE CLASS & LTAR
P 1	LS 15%	0 - 12	BSCL, WSBK	VFR, SS, SP	Some Drainage Mottles 8" - 30"	44"	C-M SAP Incl. 10" - 44"	45"	.25
		12 - 34	RBCL, WABK	FR, SS, SP					
		34 - 44	RCL, WSBK	FR, SS, SP					
		45"	Rock	—					
P 2	LS 15%	0 - 7	BSL, GR	VFR, SS, SP	Brown Drain Mottles 18" - 39"	48"	F-C SAP Incl 40" - 48"	/	.25
		7 - 16	BSCL, WSBK	FR " "					
		16 - 42	RC, ABK	FR, S, P					
		42 - 48	RCL, WSBK	FR, SS, SP					
P 3	LS 15%	0 - 13	FILL	—	Drain Mottles 17" - 53" Chroma 3 32" - 53"	53"	C SAP Incl. 34 - 53"	/	.2
		13 - 16	ORGANIC	FR, SS, SP					
		16 - 53	RYL, WSBK/ VWSBK	FI, S, P					
P 4	LS 15%	0 - 19	FILL	—	Drain Mottles 27" - 40"	19" - 60"	C-M 43" - 60"	/	.25
		19 - 26	BSCL, WSBK	FR, SS, SP					
		26 - 41	RC, WABK	FR, S, P					
		41 - 60	RCL, WSBK	FR, SS, SP					

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	PS	PS
System Type(s)	Approved	Approved
Site LTAR	.35	.3

OTHER FACTORS (.1946): —
SITE CLASSIFICATION (.1948): PS
EVALUATED BY: SC
OTHER(S) PRESENT: S. Hoke, T. Edmonson, T. Slone, E. Jones

COMMENTS:

SOIL/SITE EVALUATION

(Continuation Sheet-Complete all field in full)

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

PROPERTY ID #: 9806
DATE OF EVALUATION: 3/10/18
COUNTY: Iredell

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
P1	NS 3%	0-19	BSCL, GR	VFR, SS, SP	/	36"	PS C-M SMO THK 24-36"	/	.275
		19-25	BSCL, WSBK	FR, SS, SP					
		25-36	RC, WSBK	FR, SS, SP					
		36-55	MASS SL SAP	VFR, SS, SP					
P2	LL 5%	0-6	BSCL, WSBK	VFR, SS, SP	/	22"	PS C-M SAP THK 12-22	/	.275 0-24 .35 24-60"
		6-22	RC, ABK	FR/FI, S, P					
		22-27	RCL, WSBK/MASS	FR, SS, SP					
		27-60	MASS S SAP	VFR, SS, SP					
P3	LL 8%	0-5	BSL, WSBK	VFR, SS, SP	/	30"	PS C-M SAP THK 12-30"	/	.275 0-15 .3 15-30 .35 30-60
		5-15	RC, FOR/MASS	FR, SS, SP					
		15-36	RCL, WSBK	FR " "					
		36-60	MASS S SAP	VFR " "					
P8	LL 8%	0-4	BSCL, WSBK	FR, SS, SP	/	29"	C-M SAP THK 9-28"	/	.275 0-20" .35 20-60
		4-12	RC, ABK	FR/FI, " "					
		12-28	RCL, WSBK	FR, SS, SP					
		28-60	MASS S SAP	VFR " "					
P9	SS 8%	0-10	FILL	—	/	28"	C-M 17"-28"	/	.275 10"-24" .35 24"-60"
		10-15	BSL, GR	FR, SS, SP					
		15-19	TRC, ABK	FR/FI, SS, SP					
		19-28	RCL, WSBK	FR, SS, SP					
		28-60	MASS S SAP	VFR, SS, SP					

COMMENTS:

DENR/DEH

ON-SITE WASTEWATER SECTION

Sheet 4 of 7
PROPERTY ID #: 9603
COUNTY: Iredell

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

APPLICATION DATE 2/18/16
OWNER: Edmonson
DATE EVALUATED: 3/16/16
ADDRESS:
PROPERTY SIZE: 1.433 Acres
PROPOSED FACILITY: SFR
PROPOSED DESIGN FLOW (.1949): 360 GPD
PROPERTY RECORDED:
LOCATION OF SITE:
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	OTHER PROFILE FACTORS .1943 SOIL DEPTH	OTHER PROFILE FACTORS .1956 SAPRO CLASS	OTHER PROFILE FACTORS .1944 RESTR HORIZ	PROFILE CLASS & LTAR
A1	LS 20%	0-9	FILL		Drainage Mottles 11"-29"	30"	F SAP Incl 16-22"	/	.2-.225 9"-30" Pits for SAP needed.
		9-22	BSCL, GR	VFR, SS, SP					
		22-30	VRC, WSBK	FR, SS, SP					
		30-48	Mass SAP	VFR, SS, SP					
A2	LS 20%	0-9	BSCL/SCL, WSBK	VFR, SS, SP	/	36"	M SAP Incl. 28"-36"	/	.3
		9-30	RC, SBK	FR, SS, SP					
		30-36	RCL, WSBK	VFR, SS, SP					
		36-48	Mass SAP	VFR, SS, SP					
A3	SS 8%-10%	0-9	BSCL, WSBK	FR, SS, SP	/	40"	C-M SAP Incl 22"-40"	/	.3 0-24" .325 24-40"
		9-24	RC, SBK/WSBK	FR, SS, SP					
		24-40	RCL, WSBK/WSBK	VFR, SS, SP					
		40-48	Mass SAP						
A4	LS 10%	0-8	BSCL, WSBK	FR, SS, SP	/	27"	C-M SAP Incl 10"-27"	/	.3 .1 Drip
		8-20	RC, SBK	" " "					
		20-27	RCL, WSBK/WSBK	" " "					
		27-48	Mass SAP	VFR, SS, SP					

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	PS	PS
System Type(s)	Accepted	Accepted
Site LTAR	.35	.3

OTHER FACTORS (.1946):
SITE CLASSIFICATION (.1948): PS
EVALUATED BY:
OTHER(S) PRESENT: S. Nuce, E. Jones, T. Clarke, T. Slate

COMMENTS:

SOIL/SITE EVALUATION

(Continuation Sheet-Complete all field in full)

PROPERTY ID #: 9306
DATE OF EVALUATION: 3/16/22
COUNTY: Iredell

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

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 5	LL 7%	0-4	FSL	FR, SS, SP	few MOTTLES 4"-8"	27"	M SAP INCL. 4"-27"	/	.3 8"-48" VERY PRS.
		4-27	RCL, WSBK	FR, SS, SP					
		27-48	MASS SAP	VFR, SS, SP					
A 6	LS 15%	0-15	BSCL, WSBK	FR, SS, SP	/	48"	F-L-M SAP INCL 15-48"	/	.3
		15-32	RCL, SBK	" " "					
		32-48	RCL, SBK	" " "					
P 10	LL 5%	0-12	BSCL, WSBK	FR, SS, SP	/	26"	FS L-M SAP INCL. 20"-26"	/	.275 0"-22" .35 22"-60"
		12-19	RBL, ABK	" " "					
		19-26	RCL, WSBK	" " "					
		26-60	MASS S SAP	VFR, " "					
P 11	LL 10%	0-10	BSCL, WSBK	FR, SS, SP	/	28"	FS C-M INCL 24"-28"	/	.3 0-28" .35 28"-60"
		10-28	RCL, ABK	" " "					
		28-60	MASS S SAP	VFR " "					

COMMENTS:

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LEGEND

use the following standard abbreviations

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	NEXP (Non-expansive) 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		
	IV	SC (Sandy Clay) SiC (Silty Clay) C (Clay) O (Organic)	0.4 - 0.1 None	0.2 - 0.05 None		

MOIST	WET
VFR (Very Friable)	NS (Non-sticky)
FR (Friable)	SS (Slightly Sticky)
FI (Firm)	S (Sticky)
VFI (Very Firm v. Very Sticky)	VS (Very Sticky)
EFI (Extremely Firm)	NP (Non-plastic)
	SP (Slightly Plastic)
	P (Plastic)
	VP (Very Plastic)

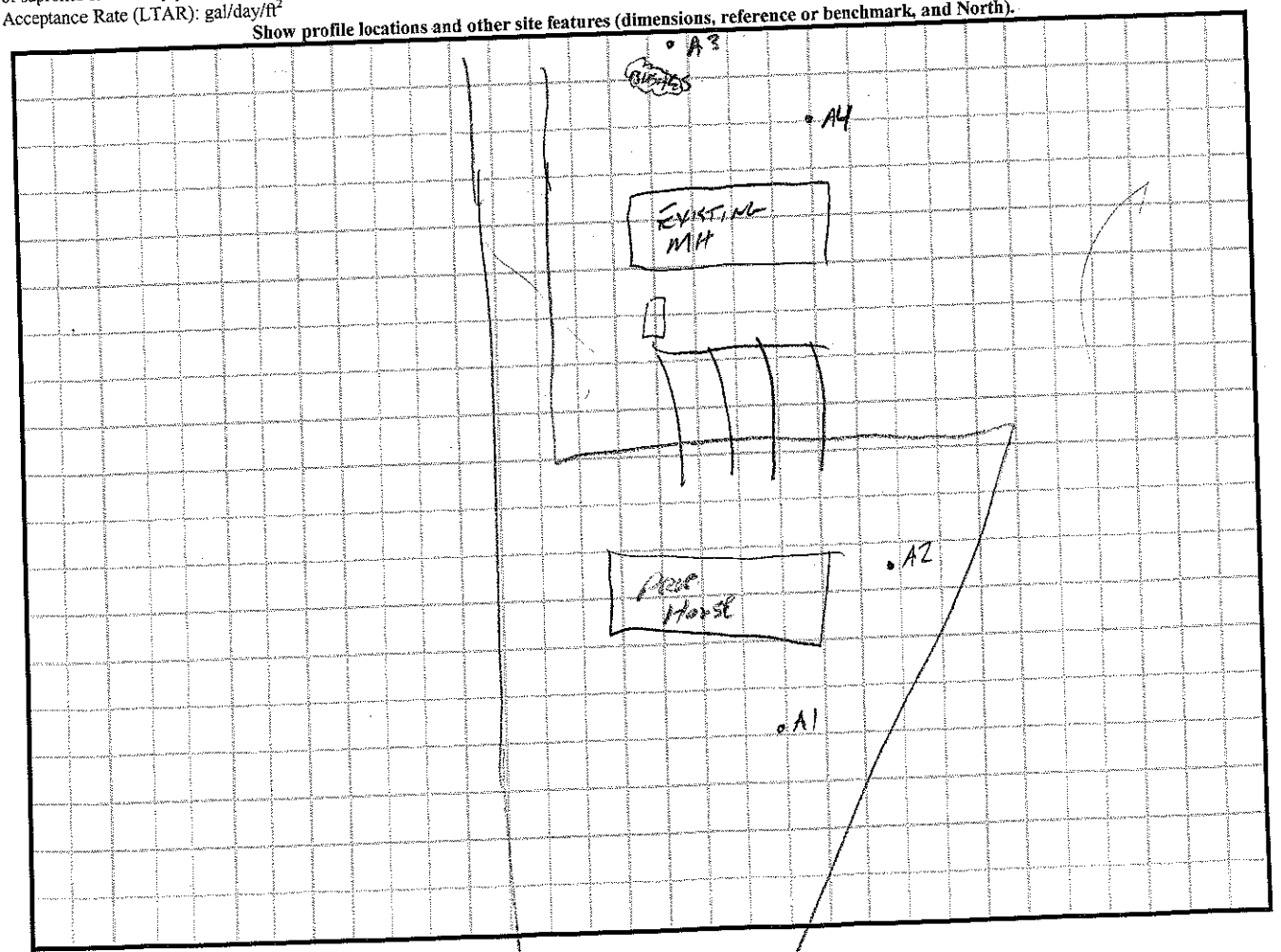
*Adjust LTAR due to depth, consistence, structure, soil wetness, landscape, position, wastewater flow and quality.

NOTES

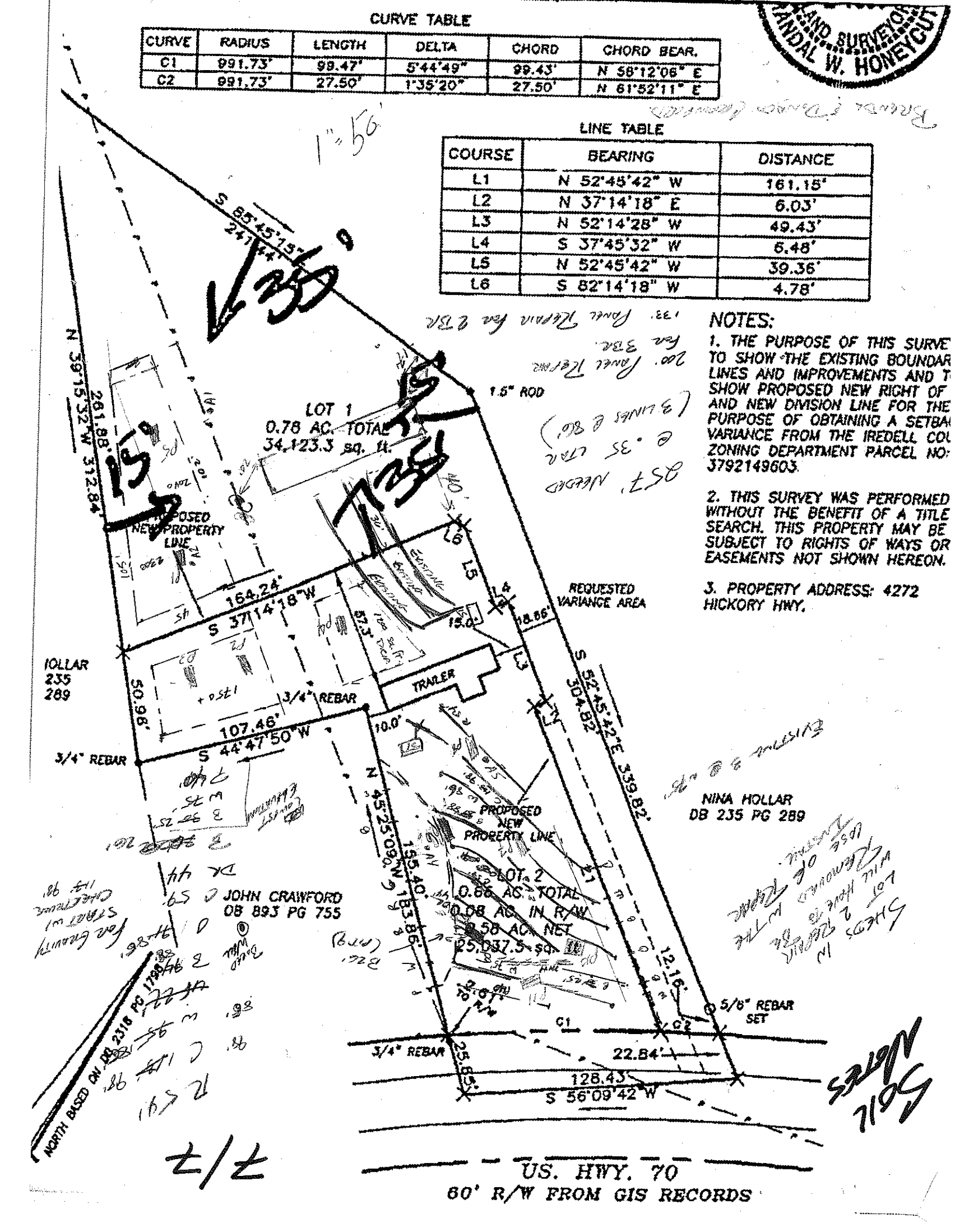
HORIZON DEPTH — In inches below natural soil surface
DEPTH OF FILL — In inches from land surface
RESTRICTIVE HORIZON — Thickness and depth from land surface
SAPROLITE — S(suitable) or U(unsuitable)
SOIL WETNESS — Inches from land surface to free water or inches from land surface to soil colors with chroma 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).



DENR (######)
Review (#####)


CURVE TABLE
CURVE | RADIUS | LENGTH | DELTA | CHORD | CHORD BEAR.
C1 | 991.73' | 99.47' | 5°44'49" | 99.43' | N 58°12'06" E
C2 | 991.73' | 27.50' | 1°35'20" | 27.50' | N 61°52'11" E
LINE TABLE
COURSE | BEARING | DISTANCE
L1 | N 52°45'42" W | 161.15'
L2 | N 37°14'18" E | 6.03'
L3 | N 52°14'28" W | 49.43'
L4 | S 37°45'32" W | 6.48'
L5 | N 52°45'42" W | 39.36'
L6 | S 82°14'18" W | 4.78'
NOTES:
1. THE PURPOSE OF THIS SURVE TO SHOW THE EXISTING BOUNDAR LINES AND IMPROVEMENTS AND T SHOW PROPOSED NEW RIGHT OF AND NEW DIVISION LINE FOR THE PURPOSE OF OBTAINING A SETBA VARIANCE FROM THE IREDELL COU ZONING DEPARTMENT PARCEL NO: 3792149603.
2. THIS SURVEY WAS PERFORMED WITHOUT THE BENEFIT OF A TITLE SEARCH. THIS PROPERTY MAY BE SUBJECT TO RIGHTS OF WAYS OR EASEMENTS NOT SHOWN HEREON.
3. PROPERTY ADDRESS: 4272 HICKORY HWY.
LAND SURVEYOR RANDAL W. HONEYCUT
1"=50'
S 65°45'15" E 241.44'
N 39°15'32" W 312.84'
261.88'
LOT 1
0.78 AC. TOTAL
34,123.3 sq. ft.
1.5" ROD
PROPOSED NEW PROPERTY LINE
EXISTING EDGE
EXISTING EDGE
S 37°14'18" W 164.24'
REQUESTED VARIANCE AREA
18.86'
15.0'
87.3'
TRAILER
HOLLAR 235 289
50.98'
3/4" REBAR
S 44°47'50" W 107.46'
3/4" REBAR
10.0'
S 52°45'42" E 339.82'
304.82'
NINA HOLLAR DB 235 PG 289
PROPOSED NEW PROPERTY LINE
LOT 2
0.66 AC. TOTAL
0.08 AC. IN R/W
0.58 AC. NET
25,037.5 sq. ft.
N 45°25'09" W 183.86'
155.40'
12.16'
JOHN CRAWFORD DB 893 PG 755
NORTH BASED ON DB 2318 PG 1799
2.67'
R/W
C1
C2
5/8" REBAR SET
3/4" REBAR
25.65'
22.84'
128.43'
S 56°09'42" W
US. HWY. 70
60' R/W FROM GIS RECORDS