BLDR-2023-29610

ICHD - ENVIRONMENTAL HEALTH DIVISION

Statesville Office (704) 878-5305 | Mooresville Office (704) 660-3625

PERMIT # RELAY-2023-41703

SEPTIC: IMPROVEMENT PERMIT / AUTHORIZATION TO CONSTRUCT / OPERATION PERMIT / EXISTING SYSTEM

PIN # 4770-38-2988

APPLICANT / OWNER: Ryan Rase | APPLICANT ADDRESS: 256 CEDAR ST, MOORESVILLE, NC 28115

SITE ADDRESS: 1363 TRIPLETT RD, CLEVELAND, NC 27013 | PHONE: (980) 722-5694 | ALT. PHONE: 9807225694

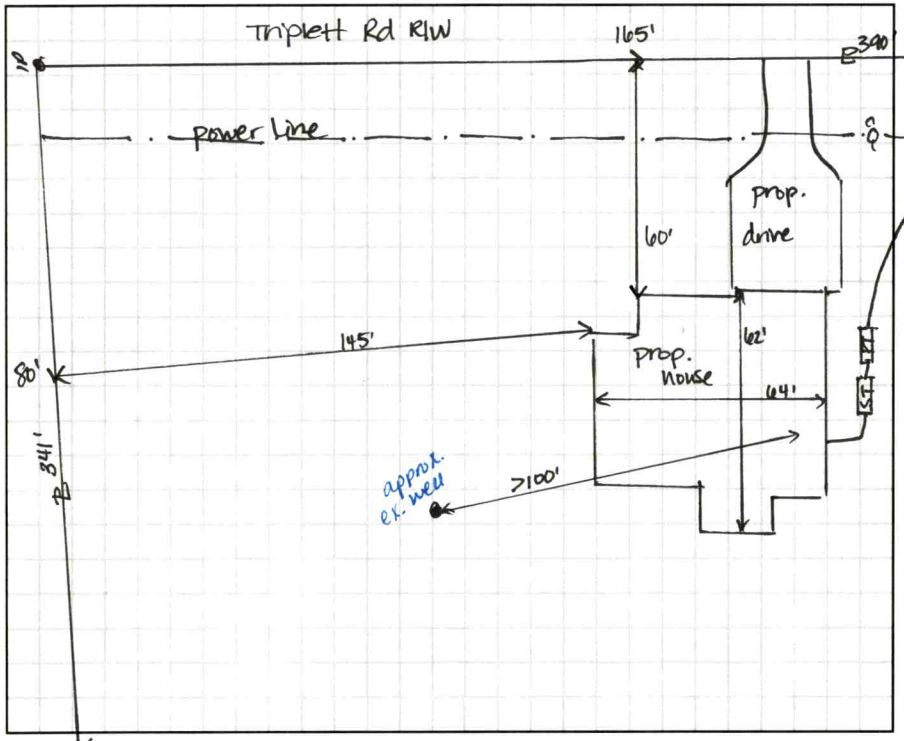
SITE DIRECTIONS: E NC 150 -> L 801 -> L Triplett -> lot on R | SAP CONTROLLED: YES ☑ NO ☐

SUBDIVISION: Robert McFarland | SECTION: N/A | LOT #: 1 | LOT AREA: 3 | DESIGN FLOW: 480 | L.T.A.R.: 0.25

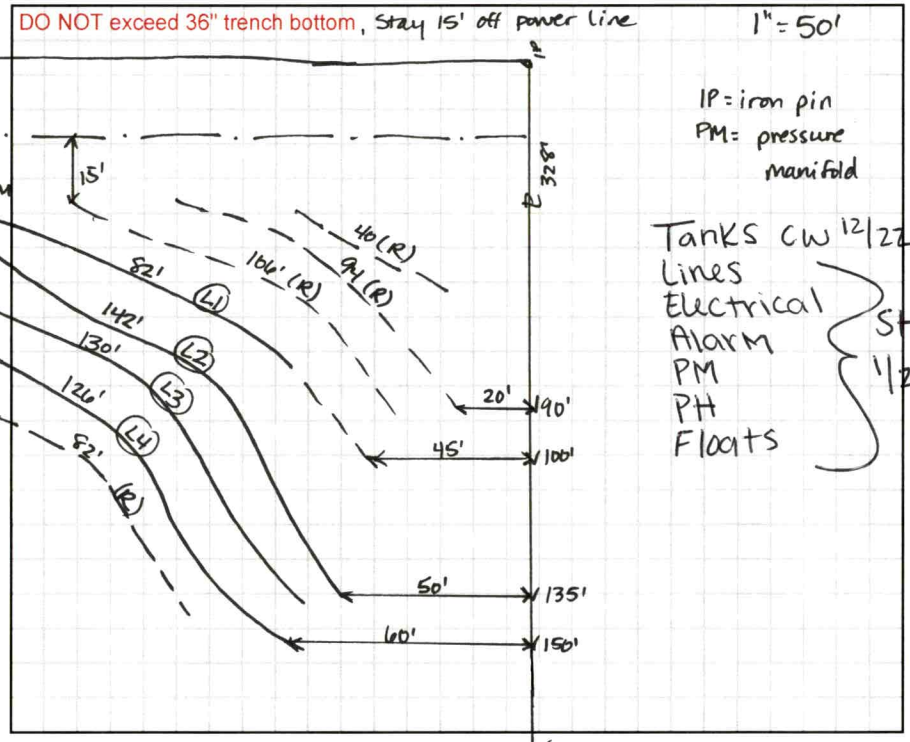
Septic Tank: 1000 (gal)	STB: Infiltrator	Date: —	☒ New System ☐ Repair ☐ Expansion	System Type:	☑ Residence	No. Bedrooms: 4	Water Supply: New Well
Pump Tank: 1000 (gal)	PT: Infiltrator	Date: —	System Description: 25% Reduction - PM		☐ Business	No. Persons: 8	
Pump Make:	Model:	Serial #:	Repair System Description: 50% Reduction		☐ Other	No. Employees: 0	
# Nitrification Fields: 1	# Lines: 4	Linear Ft.: 480	Maintenance Agreement Required: ☐ YES ☑ NO		☐ Slab	☑ Crawl Space	
Trench Width: 36	Trench Bottom Depth (Low side): 32		Gravel Depth: 0	☐ GRAVITY ☑ PRESSURE	☐ Basement w/ Plumbing	☐ Basement w/o Plumbing	

Comments / Conditions: Do not pave, grade, park, drive, or bury utilities in drainfield areas. Install on contour, divert all drainage away from drainfield. No foundation drains along tank side. Use 2" supply, 2' pressure head. L1 + L2: 3/4" SCH 40 tap, L3: 1/2" SCH 40 tap, L4: 1/2" SCH 40. Dose: 218.4 g Flow: 26.72 Runtime: 8 min Drawdown: 10.4"

INITIAL SITE SKETCH



AS BUILT SKETCH



Permit can be suspended or revoked if any false information is supplied toward securing the permit / any unauthorized changes are made to the site / any unauthorized changes are made in the installation of the system. CONTACT A LOCATOR SERVICE PRIOR TO ANY EXCAVATION

☐ IMPROVEMENT PERMIT with plat valid without expiration. ☑ IMPROVEMENT PERMIT with site plan valid for 60 mos. ☑ AUTHORIZATION TO CONSTRUCT valid for period equal to IMPROVEMENT PERMIT--not to exceed 60 mo.

Owner / Applicant Signature: _____ Date: _____ Installed By: Joe Thompson

IMPROVEMENT PERMIT by: D. Mebey Date: 12/6/23 OPERATION PERMIT by: Sydney Holland Date: 1-23-24

AUTHORIZATION TO CONSTRUCT by: D. Mebey Date: 12/6/23 Existing System Inspected By: _____ Date: _____

FOR SEPTIC FINAL INSPECTION CALL: 704-664-3703 BETWEEN 8am-9am the day the inspection is needed.

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

Sheet 1 of 1
PROPERTY ID #: 4770 35 2089
COUNTY: Iredell

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

Lot 3 ac

OWNER: Ryan Rase
ADDRESS: 256 Ceday St Mooresville NC 28115
PROPOSED FACILITY: 4BR
LOCATION OF SITE: 1363 Triplett Cleveland 27013
APPLICATION DATE
DATE EVALUATED: 3/2/23
PROPOSED DESIGN FLOW (.1949): 480 gpd
PROPERTY SIZE: 3.00
PROPERTY RECORDED: Y

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	HS/LS 8-10	0-3 3-19 19-30 30-60	SL - SBK C - SBK CL - WSBK SAP-M-SL	SSSP-FR SKP SP-FR SKP SSSP-FR SKP NSSNP-FR	Sap incl 19"+ minor YB 14"+	30"	S	N/A	PS 0.275
2	HS/L 6-10	0-3 3-14 14-40 40-60	SL - SBK C - SBK CL - WSBK SAP-M-SL	SSSP-FR SKP SP-FR-SKP SSSP-FR SKP SSNP-FR	Sap incl 14"+ YB throughout 14"-60"	40"	S	N/A	PS 0.25
3									
4									

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	480'	320'
System Type(s)	25%	50% PM
Site LTAR	0.25	0.25

OTHER FACTORS (.1946):
SITE CLASSIFICATION (.1948): PS
EVALUATED BY:
OTHER(S) PRESENT: R. Rase J. Thompson

COMMENTS:

Updated February 2014

LEGEND

use the following standard abbreviations

LANDSCAPE POSITION	GROUP	SOIL TEXTURE	CONVENTIONAL .1955 LTAR*	LPP .1957 LTAR*	MINERALOGY/ CONSISTENCE	STRUCTURE
CC (Concave Slope)	I	S (Sand)	1.2 - 0.8	0.6 - 0.4	SEXP (Slightly Expansive)	G (Single Grain)
CV (Convex Slope)		LS (Loamy Sand)			EXP (Expansive)	M (Massive)
D (Drainage Way)						CR (Crumb)
DS (Debris Slump)	II	SL (Sandy Loam)	0.8 - 0.6	0.4 - 0.3		GR (Granular)
FP (Flood Plain)		L (Loam)				SBK (Subangular Blocky)
FS (Foot Slope)						ABK (Angular Blocky)
H (Head Slope)	III	Si (Silt)	0.6 - 0.3	0.3 - 0.15		PL (Platy)
L (Linear Slope)		SiCL (Silty Clay Loam)				PR (Prismatic)
N (Nose Slope)		CL (Clay Loam)				
R (Ridge)		SCL (Sandy Clay Loam)			**MOIST**	**WET**
S (Shoulder Slope)		SiL (Silt Loam)				
T (Terrace)					VFR (Very Friable)	NS (Non-sticky)
	IV	SC (Sandy Clay)	0.4 - 0.1	0.2 - 0.05	FR (Friable)	SS (Slightly Sticky)
		SiC (Silty Clay)			FI (Firm)	S (Sticky)
		C (Clay)			VFI (Very Firm v. Very 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.

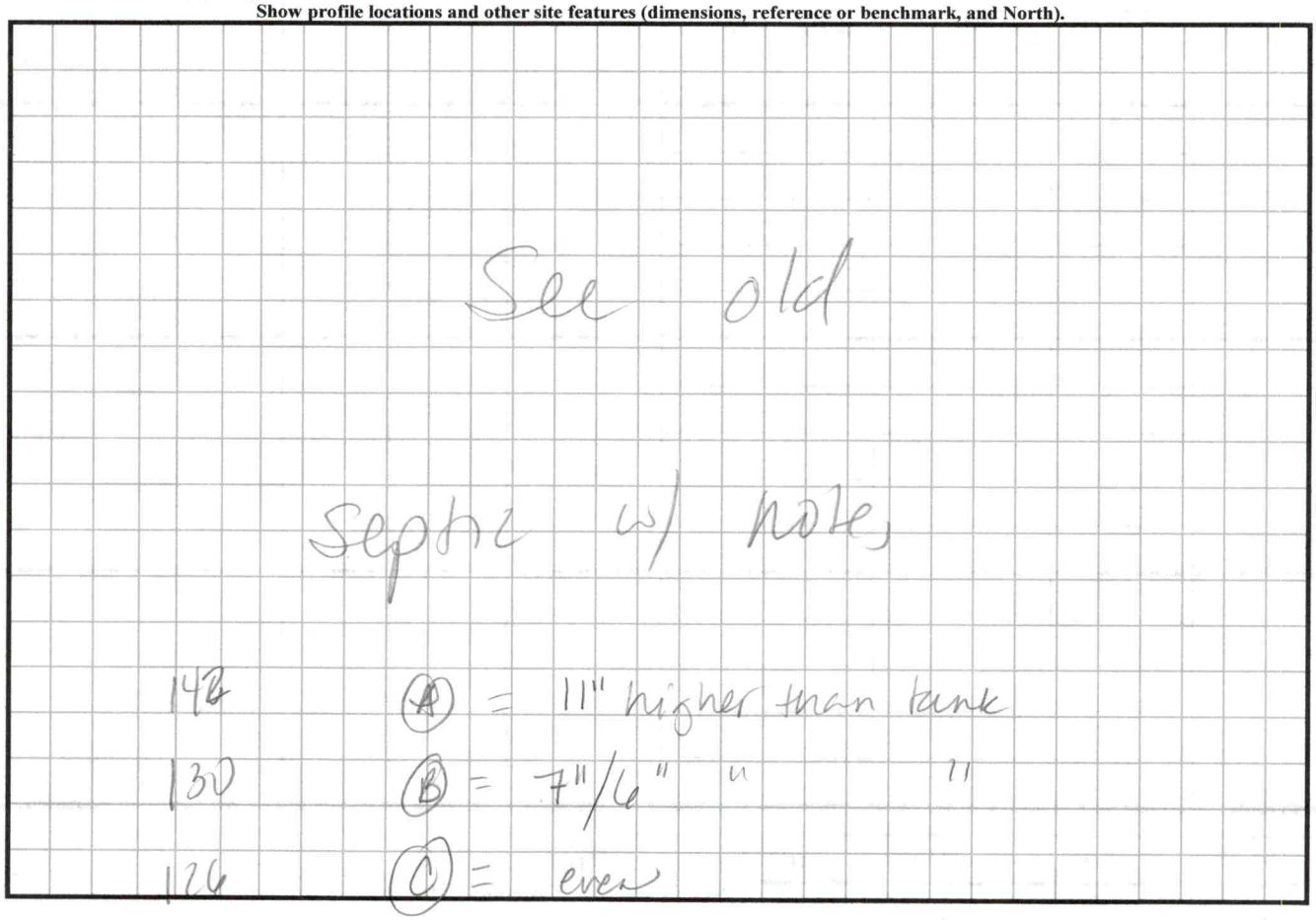
NOTES

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/ft²

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



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

Sheet 1 of 2
PROPERTY ID #: 4703988
COUNTY: Iredell

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

OWNER: Robert McFarland
ADDRESS: 3631 Amity Hill Rd, Statesville 28677
PROPOSED FACILITY: 4BR
PROPOSED DESIGN FLOW (.1949): 480
LOCATION OF SITE: 1363 Triplett
APPLICATION DATE: 6/10/22
DATE EVALUATED: 7/10/22
PROPERTY SIZE: 3
PROPERTY RECORDED: N

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	10%	0-9	FILL	—	Chroma 2 (2.5Y 7/2 @ 25") Chroma 2 25"+, YB	60"	N/A	N/A	PS 0.1
		9-14	SCL - SBK	SSSP- FR SEXP					
		14-30	C - SBK	↓					
		30-60	CL - WSBK						
2	10%	0-8	FILL	—	2.5Y 7/2 @ 25" some gley deep 25-37 trending PL	60"	N/A	N/A	PS 0.1
		8-25	C - SBK	SSSP FR/FI SEXP					
		25-37	C - ABK/SBK	SSSP-FR SEXP					
		37-60	CL - WSBK	1'					
3	10%	0-18	C - SBK	SSSP- FI/FR SEXP	Some plow pan/ large peds to 18" Heavy SAP content 2.5Y 7/1 18"+		N/A	N/A	PS 0.1
		18-60	CL - SBK	SSSP - FR SEW					
4	10	0-4	SCL - SBK	SSSP FR SEXP	YB throughout, fewest 25-36 small YB throughout sapr some large blocky peds 4-25		S		PS 0.25
		4-25	C - SBK (large peds)	SSSP- FI- SEXP					
		25-36	CL - SBK	SSSP-FR SEXP					
		36-60	SAP-S-PM	NSNP-FR					

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	480	Dnp
System Type(s)	25% - PM	4800
Site LTAR		

OTHER FACTORS (.1946): Chroma 2
SITE CLASSIFICATION (.1948): 0-18 18-48 CL
EVALUATED BY: D. Weber
OTHER(S) PRESENT: J. Thompson, R. Rase

COMMENTS:
(b) 0-16 16-44 46-60
(a) 0-8 8-32 32-60 Sap CVF common

Updated February 2014

LEGEND

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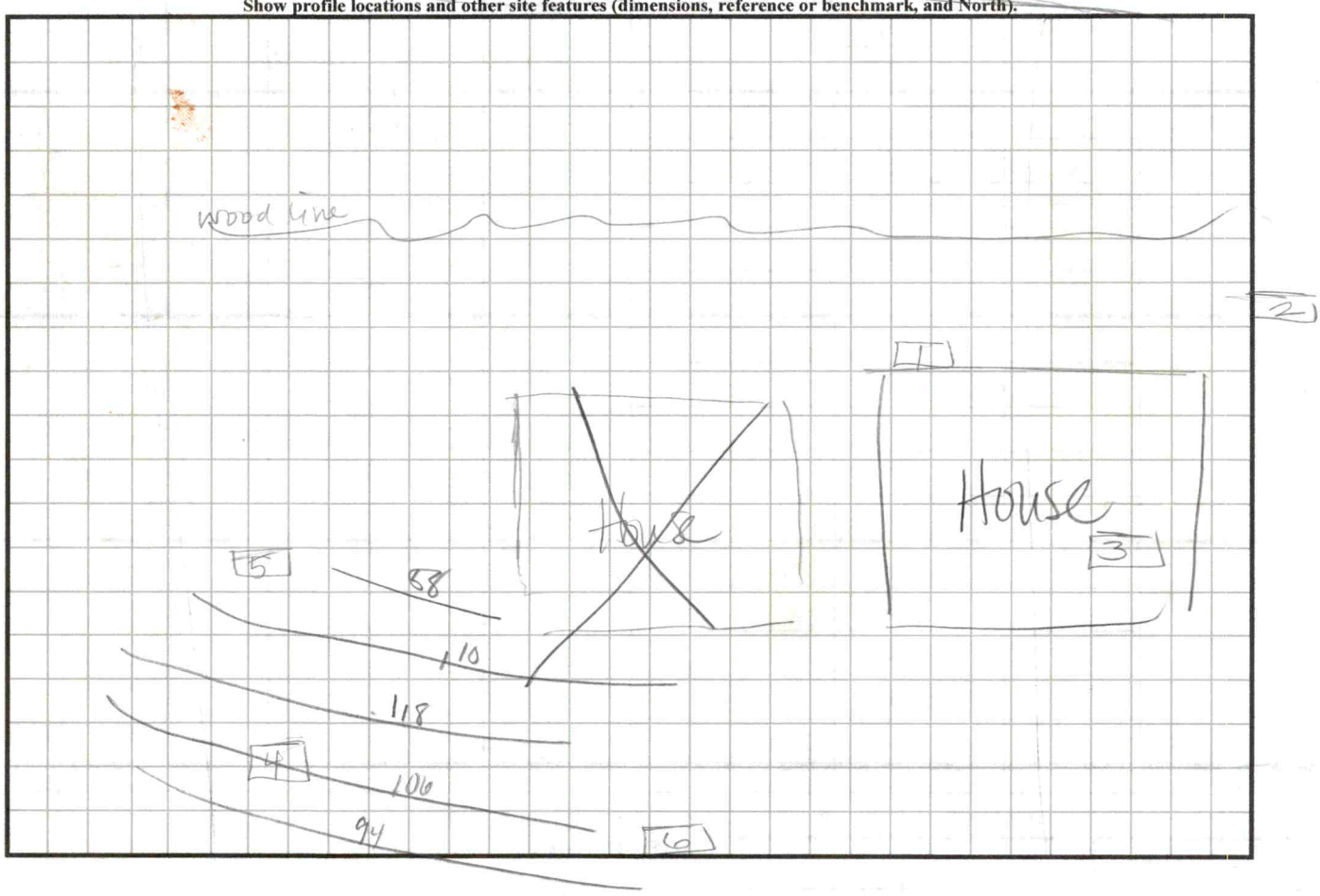
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Evaluation of saprolite shall be by pits.

Long-term Acceptance Rate (LTAR): gal/day/ft²

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



SOIL/SITE EVALUATION

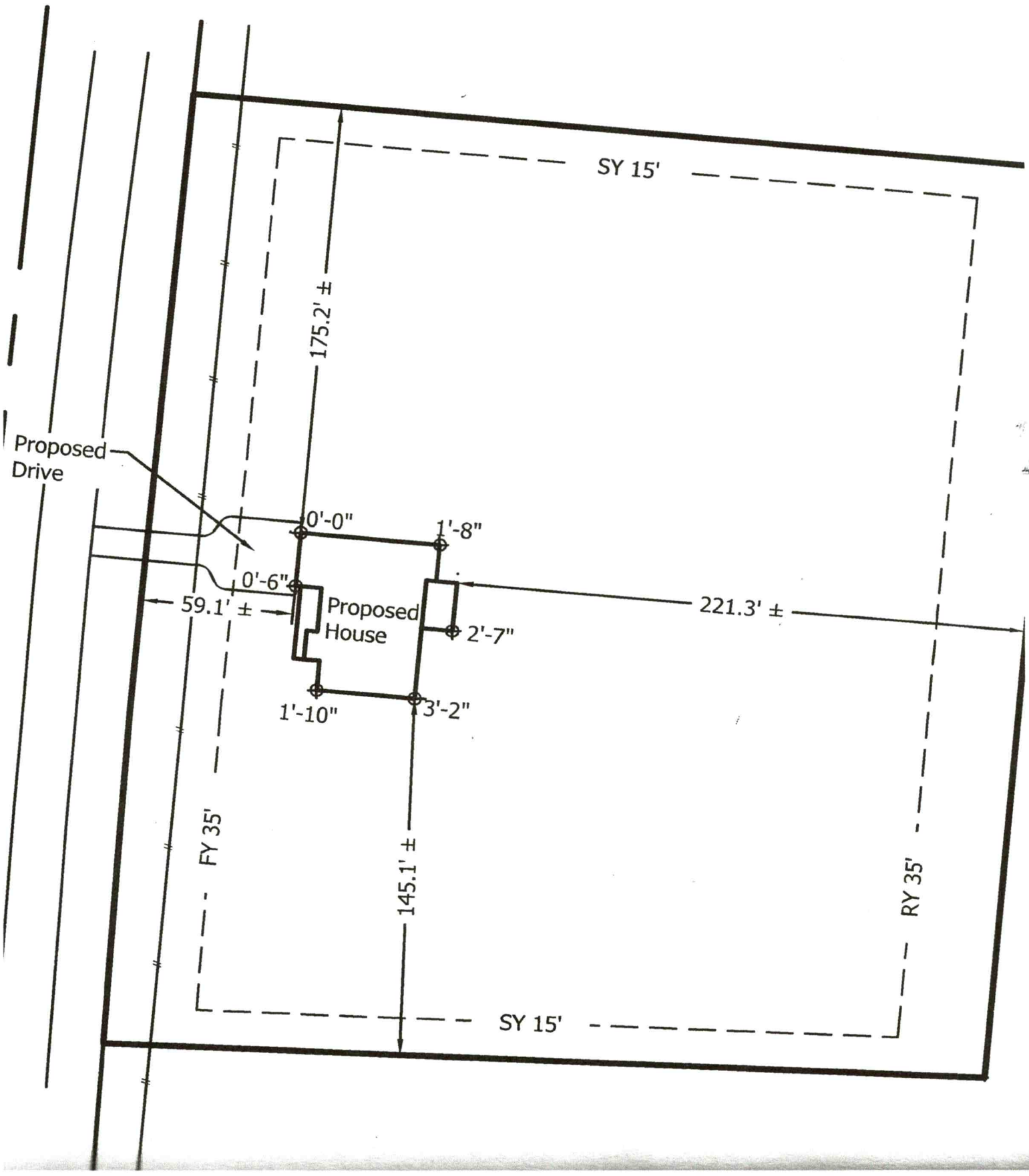
(Continuation Sheet-Complete all field in full)

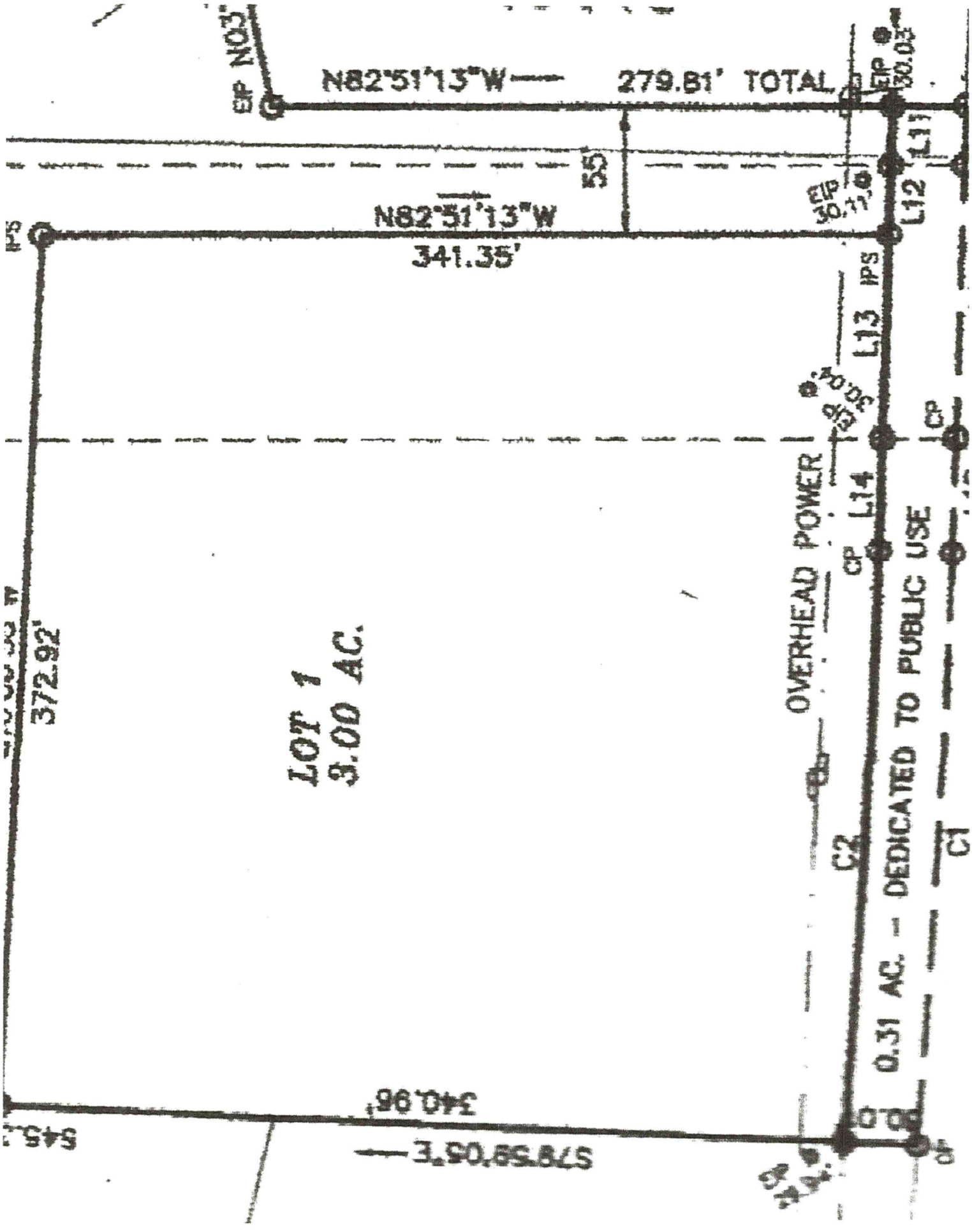
DEPARTMENT OF HEALTH AND HUMAN SERVICES
DIVISION OF PUBLIC HEALTH
ENVIRONMENTAL HEALTH SECTION
ON-SITE WATER PROTECTION BRANCH

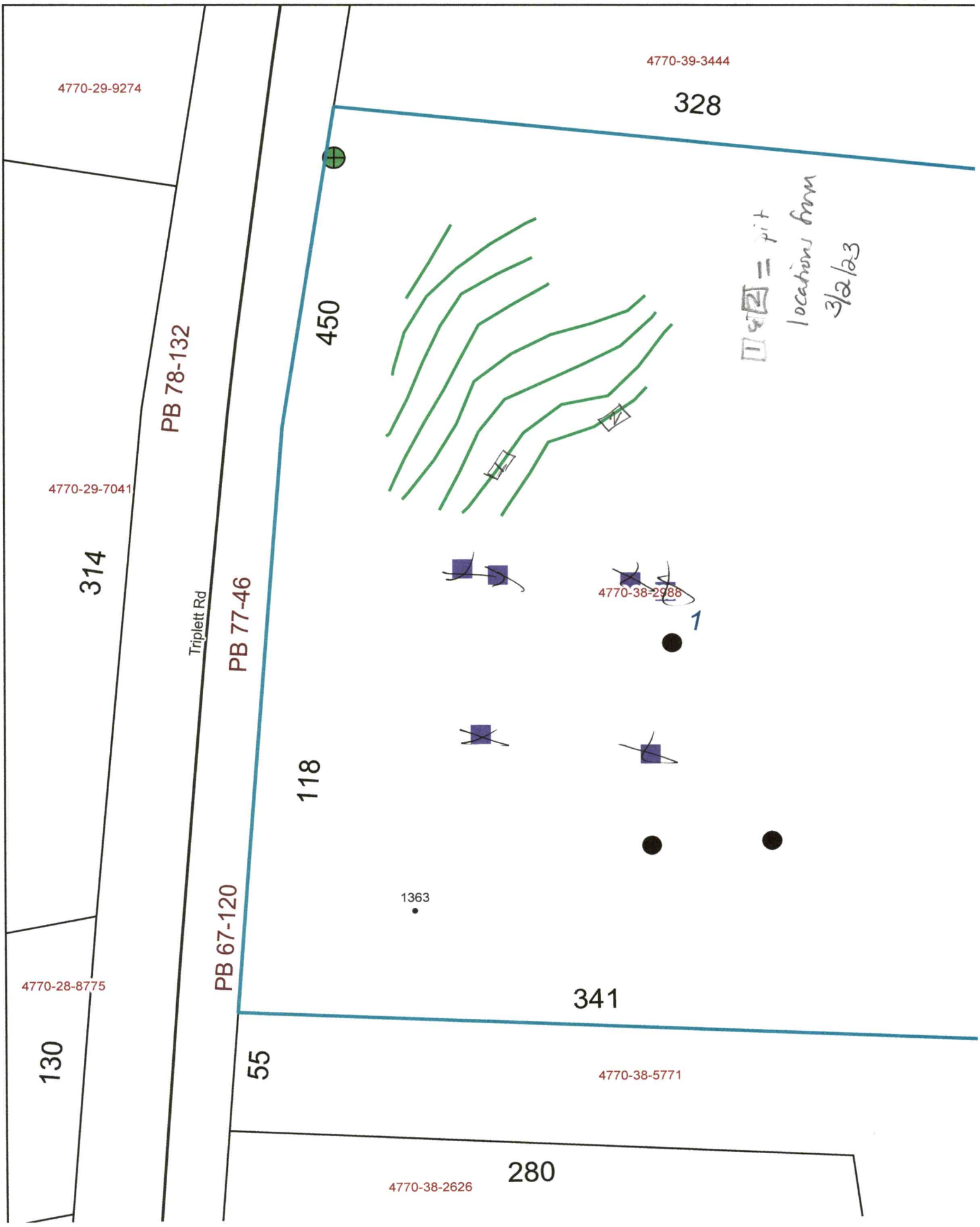
PROPERTY ID #: 47703829885
DATE OF EVALUATION: 7/18/22
COUNTY: Iredell

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
5	12%	0-20	C - ABK	SSSP-FI/FR-SEXP	large peds in C layer sap incl. common 20"+	46"	S	N/A	PS 0.25
		20-46	CL - SBK/ABK	SSSP - FI/FR SEXP					
		46-60	SAP-S-M	NSNP-FR					
			speckled w/						
			YB & C veins						
6	12%	0-8	SCL - SBK	SSSP-FR-SEXP	heavy sap content 30"+, YB mottles in sap/CL layer	60"		N/A	PS 0.25
		8-30	C - large ABK	SSSP-FI/FR SEXP					
		30-60	CL/SAP-SBK	SSSP-FR-SEXP					
7	15	0-18	C - SBK	SSSP-FR-SEXP	chroma 1S/2S 18"+ "Tiger Dirt"	48	N/A	N/A	PS 0.1
		18-48	CL - SBK	"					

COMMENTS: _____


SY 15'
175.2' ±
Proposed
Drive
0'-0"
1'-8"
0'-6"
59.1' ±
Proposed
House
221.3' ±
2'-7"
1'-10"
3'-2"
FY 35'
145.1' ±
RY 35'
SY 15'


EIP NO3'
N82°51'13"W
279.81' TOTAL
EIP
30.03'
L11
55'
L12
EIP
30.11'
N82°51'13"W
341.35'
IPS
L13
IPS
30.04'
CP
CP
L14
OVERHEAD POWER
372.92'
LOT 1
3.00 AC.
C2
C1
0.31 AC. - DEDICATED TO PUBLIC USE
340.96'
S79°59'05"E


4770-29-9274
4770-39-3444
328
PB 78-132
450
4770-29-7041
314
Triplett Rd
PB 77-46
4770-38-2988
1
118
1363
PB 67-120
4770-28-8775
341
130
55
4770-38-5771
280
4770-38-2626
1 of 2 = pit locations from 3/2/23