ICHD - ENVIRONMENTAL HEALTH DIVISION

Statesville Office (704) 878-5305 Mooresville Office (704) 660-3625 PERMIT # AP 327612

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

PIN # 4677-88-2865

APPLICANT/OWNER: Freedom Homes APPLICANT ADDRESS: 1124 Charlotte Hwy Troutman NC 28166

SITE ADDRESS: 105 London Rd Mooresville NC 28115 PHONE: 704-881-2326 ALT. PHONE

SITE DIRECTIONS: (E) NC 150 → 150 past 150/152 split → (R) London → lot on corner of 150 SAP CONTROLLED: ☐ YES ☒ NO

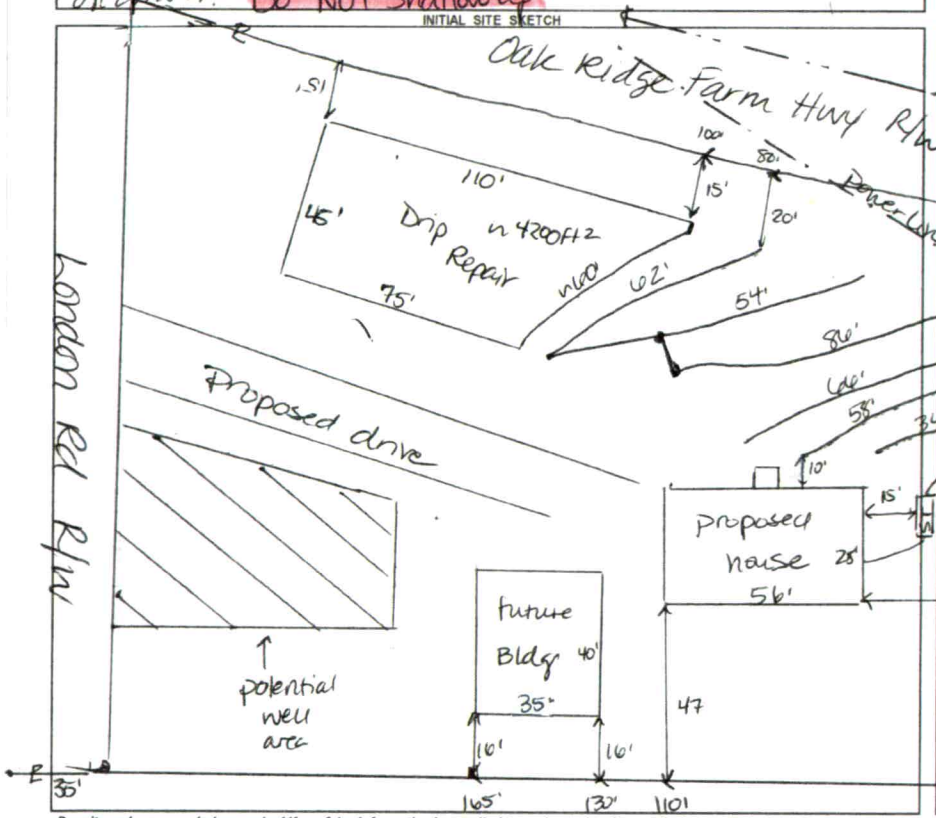
SUBDIVISION: Power Estates SECTION: 2 LOT # 10 LOT AREA: 1.161 ac DESIGN FLOW: 360 gpd L.T.A.R.: 0.25

Septic Tank	1000	(gal)	STB 760	Date 9/21/22	☒ New System ☐ Repair ☐ Expansion	System Type: I II (III) IV V VI	☒ Residence	No. Bedrooms	3	Water Supply
Pump Tank		(gal)	PT	Date	System Description:	25% Reduction	☐ Business	No. Persons	6	☒ Private
Pump Make		Model		Serial #	Repair System Description:	Drip - 3400 ft2 (exempt)	☐ Other	No. Employees		☐ Public
# Nitrification Fields	1	# Lines	6	Linear Ft 360'	Maintenance Agreement Required:	☐ YES ☒ NO	☐ Slab	☒ Crawl Space		☐ Community
Trench Width	36"	Trench Bottom Depth(Low side)	32"	Gravel Depth N/A	☒ GRAVITY	☐ PRESSURE	☐ Basement w/plumbing		☐ Basement w/o plumbing	

Comments / Conditions: Do not pave, grade, drive, park, or bury utilities in drainfield. Divert all drainage, install on contour. DO NOT shallow up

Property extends into R/W - make sure R/W is marked at install. (BOTH roads). Keep system 5' from any decks. Stay 15' from power line center & power pole

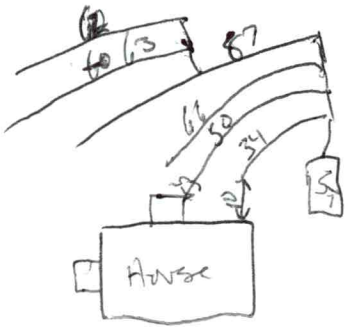
INITIAL SITE SKETCH



AS BUILT SKETCH

FOR SEPTIC FINAL INSPECTION CALL: 704-664-3703 between 8am-9am the day the inspection is needed. Be sure to speak with an inspector to confirm your time.

1"=50' IP = iron pin



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: Kristy Long Date: 6/16/22 Installed by: A J Remodeling

IMPROVEMENT PERMIT by: D. Meberg Date: 6/14/22 OPERATION PERMIT by: Matt Wi Date: 10/25/22

AUTHORIZATION TO CONSTRUCT by: D. Meberg Date: 6/14/22 Existing System Inspected by: Date:

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

Item	Date	Initials
Drain Lines Checked		
Tanks Checked		
Pressure Manifold or Valve Box Checked		
Pressure Head Set		
Electrical Checked		
Floats Set		
Alarm Checked		
Maintenance Contract Needed? Y / N		
Comments:		

Repairs Only	
	State Code
Failing System Code	
Type of Distribution	G or P
Type of Failure/Malfunction	
Primary Cause of Failure/Malfunction	
Age of System? _____	
Initial or Repair? _____	

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

Sheet 1 of 1
PROPERTY ID #: 4077882805
COUNTY: Iredell

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

OWNER: Lee Genail
ADDRESS: 17521 Mooresville Rd Mooresville
PROPOSED FACILITY: 3BR
PROPOSED DESIGN FLOW (.1949): 360 gpd
LOCATION OF SITE: 105 London Rd, Mooresville
APPLICATION DATE 5/3/22
DATE EVALUATED: 6/9/22
PROPERTY SIZE: 1.61
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	8%	0-5	scl Compact	SSSP-FI-SEVP	incl Sap common 26"+ 2.5 6/2 @ 14" minor YB 14-26, none 26"+	54"	N/A	N/A	PS 0.275
		5-20	C - SBK	SSSP-FR SEVP					
		20-54	CL - WSBK	"					
2	8%	0-5	SCL - SBK	SSSP-FR-SEVP	2.5Y 7/3 @ 25" incl Sap common 18"+ mixed in YB 51"+	51"	S (L)	N/A	PS 0.25
		5-24	C - SBK/ABK	↓					
		24-51	CL - SBK	↓					
		51-58	WSAP	NSNP-FR SEVP					
3	LS 8%	0-8	CL - SBK	SSSP-FR SEVP	2.5Y 7/3 @ 20" YB Sap incl common 23"+	60"	N/A	N/A	PS @ 18" PS 0.25
		8-23	C - SBK/ABK	↓					
		23-60	CL - SBK	↓					
4	LS 5%	0-7	CL - SBK	SSSP-FR SEVP	2.5Y 6/3 @ 18" Minor YB in C veins 15"+	55"	N/A (better layer)	N/A	PS 0.25
		7-24	C - SBK/ABK	↓					
		24-55	CL - SBK	↓					

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	360	3600
System Type(s)	25%	dnp
Site LTAR	0.25	0.25

OTHER FACTORS (.1946):
SITE CLASSIFICATION (.1948): PS
EVALUATED BY: D Weberg
OTHER(S) PRESENT: J McIntosh

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.

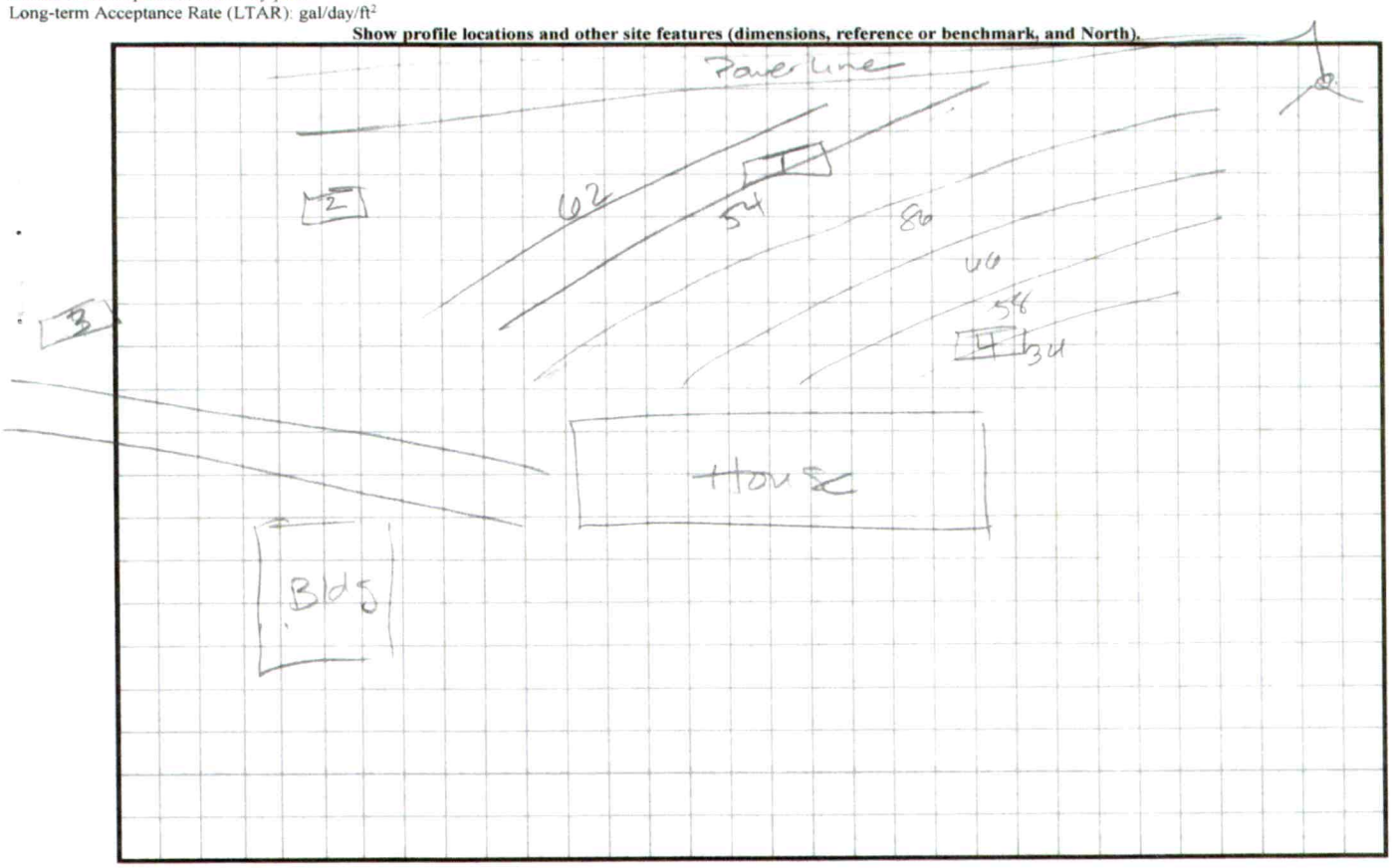
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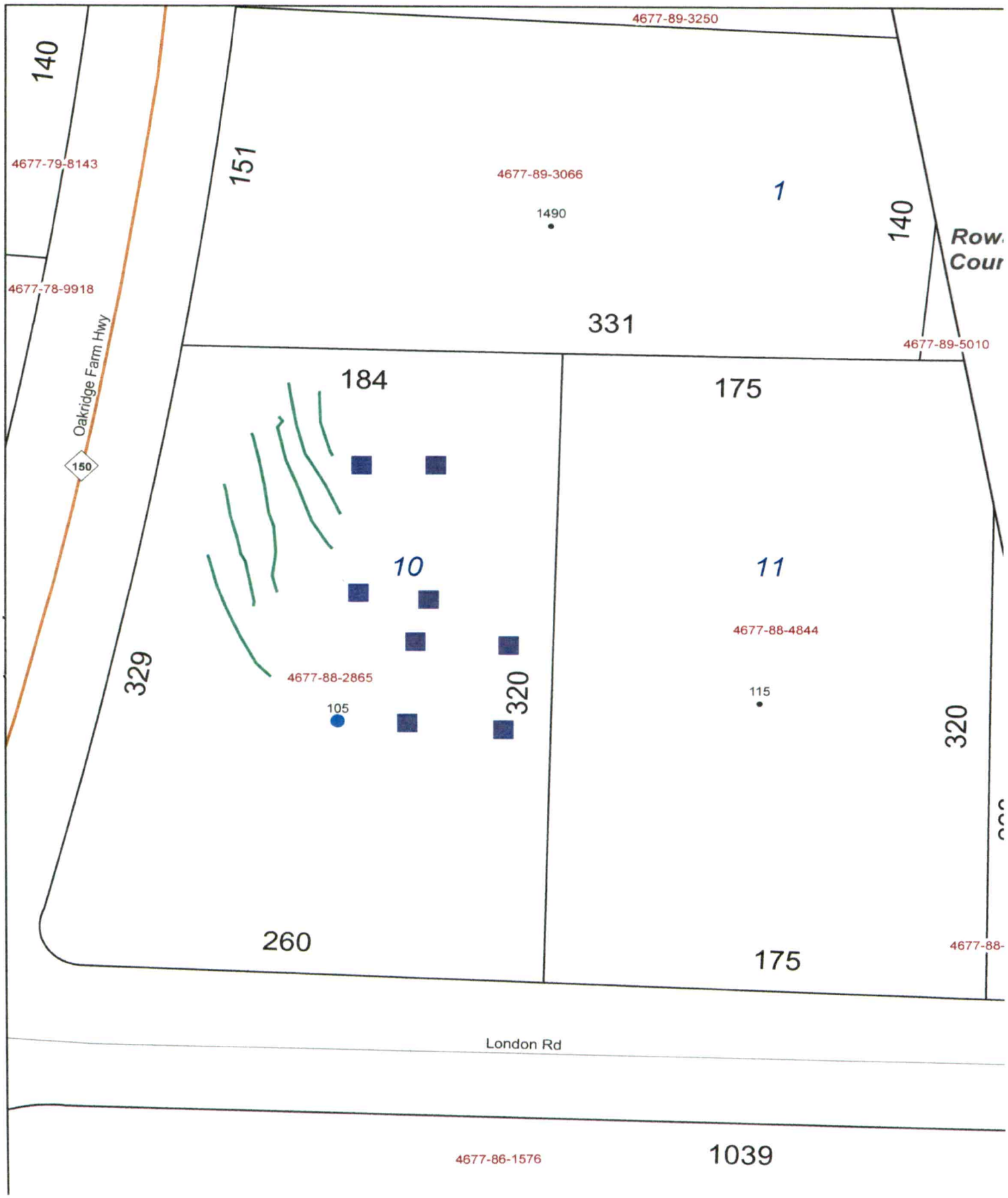
HORIZON DEPTH	In inches below natural soil surface
DEPTH OF FILL	In inches from land surface
RESTRICTIVE HORIZON	Thickness and depth from land surface
SAPROLITE	S(suitable) or U(unsuitable)
SOIL WETNESS	Inches from land surface to free water or inches from land surface to soil colors with chroma 2 or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

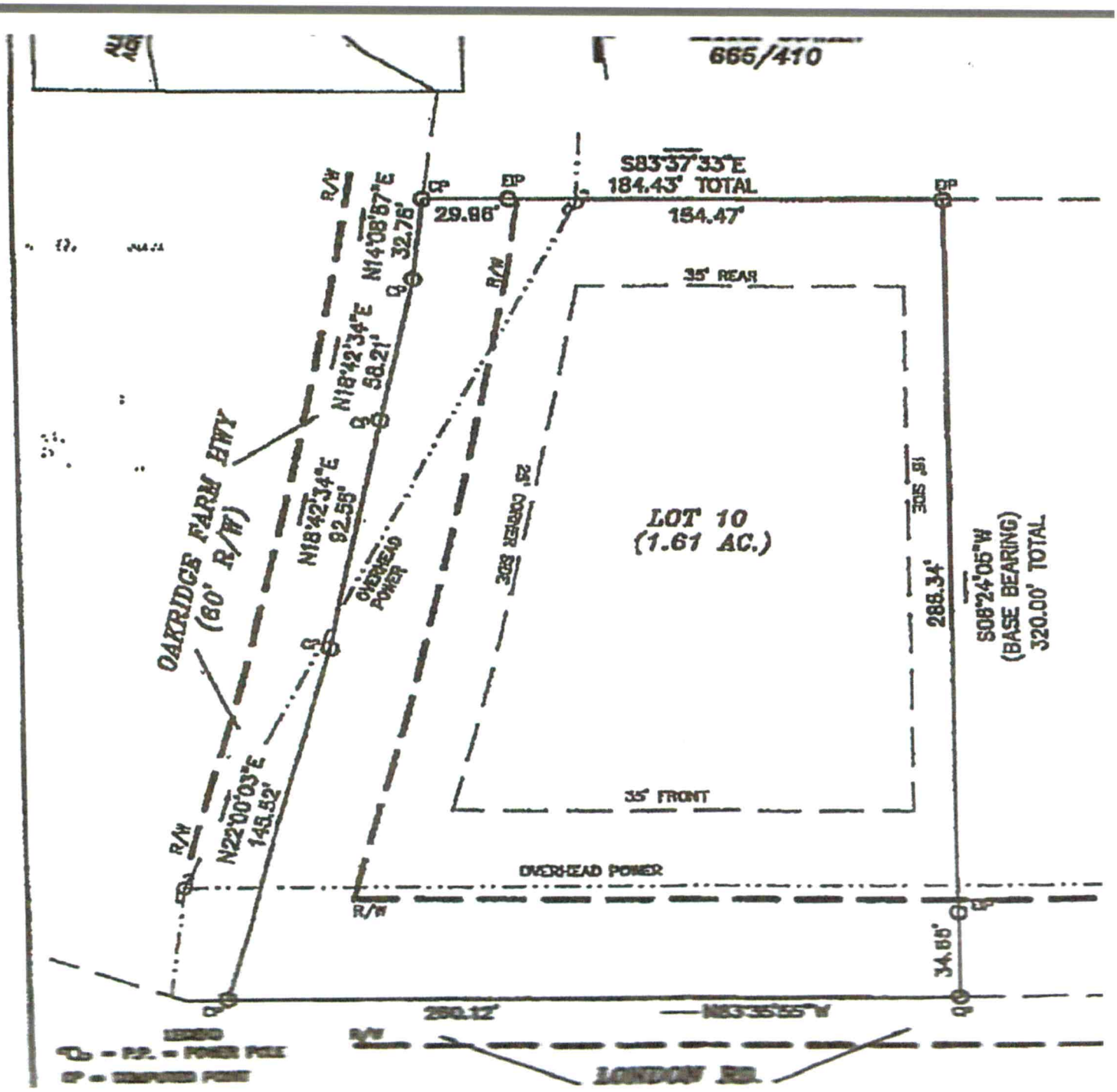
Evaluation of saprolite shall be by pits.

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

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




4677-89-3250
140
4677-79-8143
151
4677-89-3066
1490
1
140
Row
Cour
4677-78-9918
331
4677-89-5010
Oakridge Farm Hwy
150
184
175
10
11
4677-88-4844
329
4677-88-2865
105
320
115
320
260
175
4677-88-
London Rd
4677-86-1576
1039


665/410
S83°37'33"E
184.43' TOTAL
29.96'
154.47'
R/W
N14°08'87"E
32.76'
N18°42'34"E
58.21'
N18°42'34"E
92.55'
OAKRIDGE FARM HWY
(60' R/W)
N22°00'03"E
149.52'
35' REAR
LOT 10
(1.61 AC.)
288.34'
S08°24'05"W
(BASE BEARING)
320.00' TOTAL
35' FRONT
OVERHEAD POWER
34.66'
280.12'
N83°35'55"W
LONDON RD.