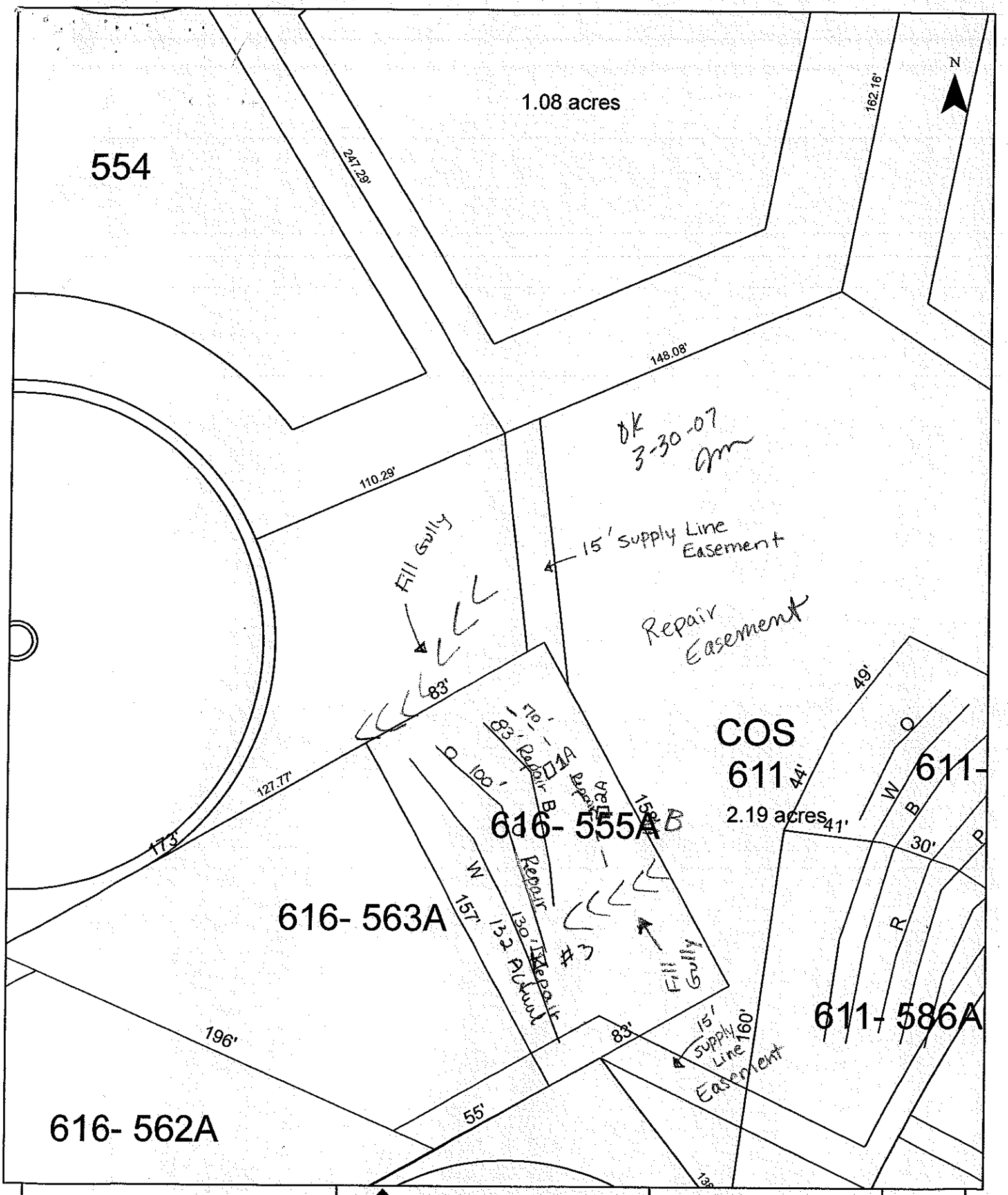
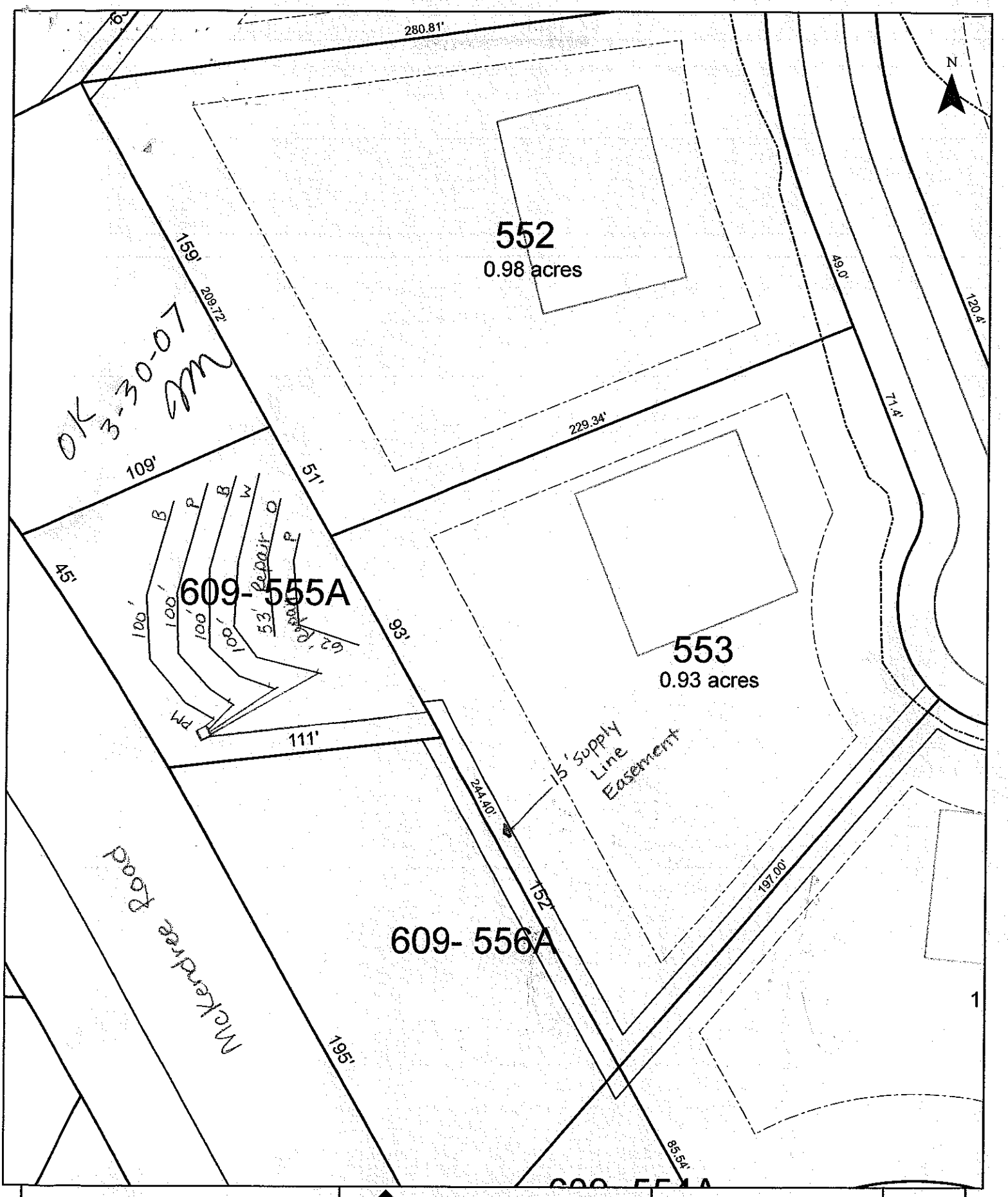
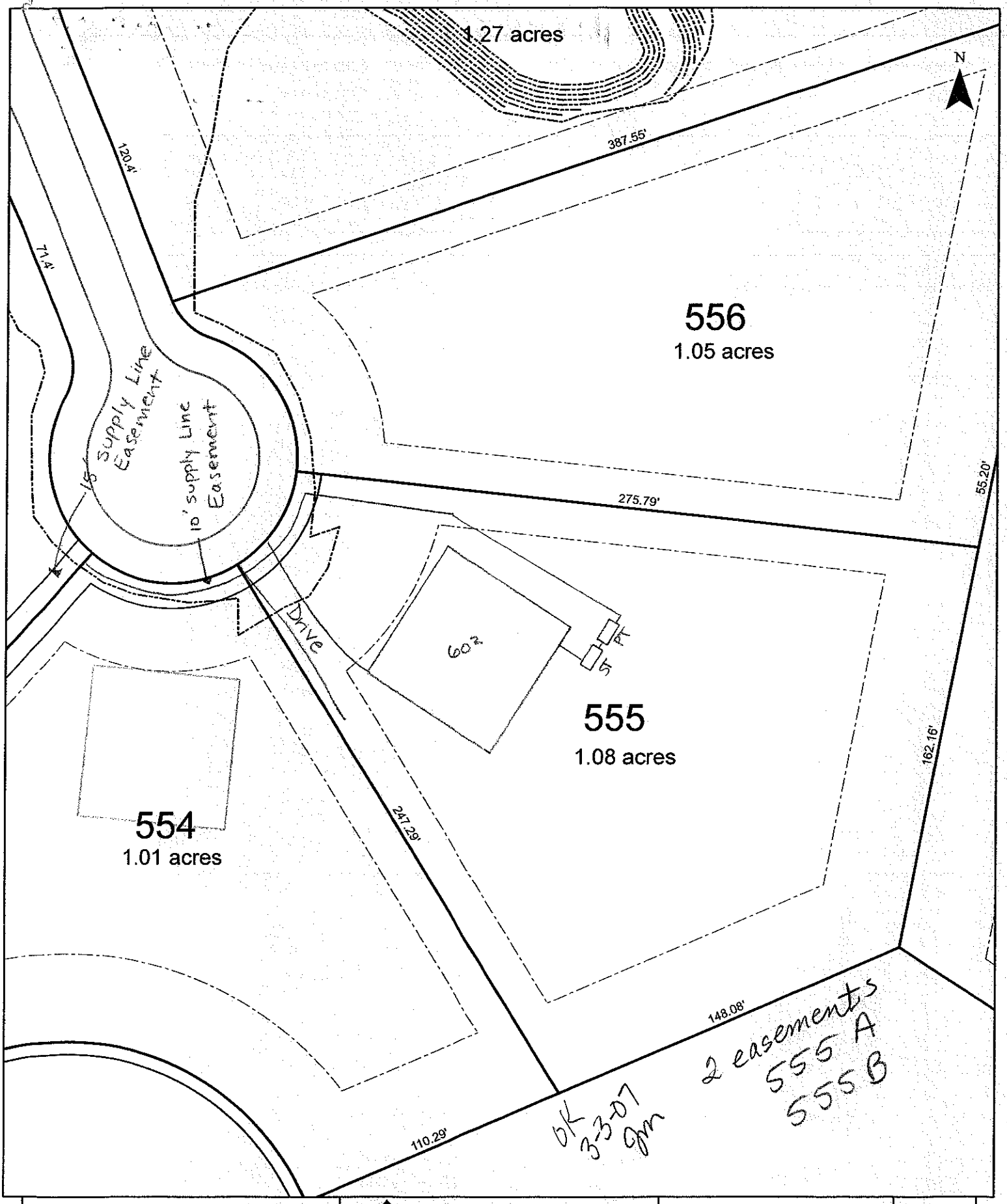


Scale: 1 inch equals 50 feet	S&ME	The Farms - Phase V	FIGURE
Drawn by: JBP		Lot 555	2
Reviewed by: KS		Iredell County, NC	
Date: February, 2007	ENVIRONMENTAL SERVICES · ENGINEERING · TESTING	S&ME Project #1588-05-070	



Scale: 1 inch equals 50 feet	S&ME	The Farms - Phase V	FIGURE
Drawn by: JBP		Lot 555	2
Reviewed by: KS		Iredell County, NC	
Date: February, 2007	ENVIRONMENTAL SERVICES · ENGINEERING · TESTING	S&ME Project #1588-05-070	



Scale: 1 inch equals 50 feet	S&ME	The Farms - Phase V	FIGURE
Drawn by: JBP		Lot 555	1
Reviewed by: KS		Iredell County, NC	
Date: February, 2007	ENVIRONMENTAL SERVICES • ENGINEERING • TESTING	S&ME Project #1588-05-070	

Lot 555 The Farms Fast Track Septic System Information

Number of Bedrooms	**4**
Basement or Crawl	**Basement w/ Plumbing**
Design Flow (gpd)	**480**
Primary System LTAR (gpd/ft2)	**0.3**
Primary System Type	**25% Reduction**
No. Lines	4 (See Table)
Total Linear Feet	400
Trench Width	3' min.
Trench Spacing	9' min.
Pump Required	Yes
Distribution Device	Pressure Manifold
Maintenance Agreement Required	No
Length and Diameter of Supply Pipe	710' of 2.5" SCH 40 PVC
Flow Rate through the system	22 gpm
Elevation head	Approx. 24.5'
Pressure head	2.0'
Friction head	2.3'
20% Contingency	5.8'
Total Head	34.6'
Pump Requirements	22 gpm @ 34.6' of head To be designed by installer.
Maximum Dosing Volume	240 gal -2.0 doses/day @ design flow
Volume of water pumped per dose	Calculated to specific tank by measure or dealer engineering specifications (1 cubic ft. of water equals 7.48 gal.)
Pump Run per dose	approx. 10.9 min.
Check Valve	Yes
Siphon Break hole	No
Repair System	**LP PPBPS**
Total Linear Feet	498
Repair Loading Rate	0.25

Table: Summary of Primary and Repair Nitrification Line Specifications

Line No.	Use	Line Color	System Type	Line Length (Ft.)	Rod Reading Elevation (Ft.)
1	System	Blue	25% Reduction	100 endfed	820.5
2	System	Pink	25% Reduction	100 endfed	
3	System	Blue	25% Reduction	100 endfed	
4	System	White	25% Reduction	100 endfed	
5	Repair	Orange	LP PPBPS	53	
6	Repair	Pink	LP PPBPS	62	
7	Repair	White	LP PPBPS	130	
8	Repair	Orange	LP PPBPS	100	
9	Repair	Blue	LP PPBPS	83	812
10	Repair		LP PPBPS	70	
				Total System: 400'	
				Total Repair: 498'	

Tank	Red	1500 gal (2 compartment)	790.0
Pump Tank	Red	1500 gal.	790.0
House	Blue		793.0

Manifold Information	
Tap Size (In.)	1/2
Tap Material	SCH 80 PVC
No. Taps	4
Barrel Size (In.)	4
Barrel Material	SCH 80 PVC
Flow (gpm)/Tap	5.5

Note: Elevations estimated from 1 foot site specific topographic map and must be verified before obtaining an ATC. System and repair located offsite on easement 609-555A
Fill all gullies.

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: Farms II _____ APPLICATION DATE _____
ADDRESS: _____ DATE EVALUATED: _____
PROPOSED FACILITY: _____ PROPOSED DESIGN FLOW (.1949): _____ PROPERTY SIZE: _____
LOCATION OF SITE: Lot 555B _____ PROPERTY RECORDED: _____
WATER SUPPLY: ☐ Private ☒ Public ☒ Well ☐ Spring ☐ Other _____
EVALUATION METHOD: ☐ Auger Boring ☒ Pit ☐ Cut TYPE OF WASTEWATER: ☐ Sewage ☐ Industrial Process ☐ Mixed

PROFILE #	.1949 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	
1A	L	0-4	MoGR SL	FR SS/SP	Br		C sap		0.25-0.3
		4-30	WK ABK C	FR SS/SP	Red				
		30-51	WK ABK CL	FR SS/SP	Red				
2A	L	0-20	WK ABK C	FR SS/SP	Red		F/C sap		0.3
		20-48	mo/WK SBK CL	FR SS/SP	Red				
3	6%	0-12	WK SBK RBC	fr ss sp					.3
		12-50	mo FSBK RC	fr ss sp					
		50-60	mo-WK SBK	A-YRCL fr ss sp					
4									

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

OTHER FACTORS (.1946): _____
SITE CLASSIFICATION (.1948): _____
EVALUATED BY: _____
OTHER(S) PRESENT: _____

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

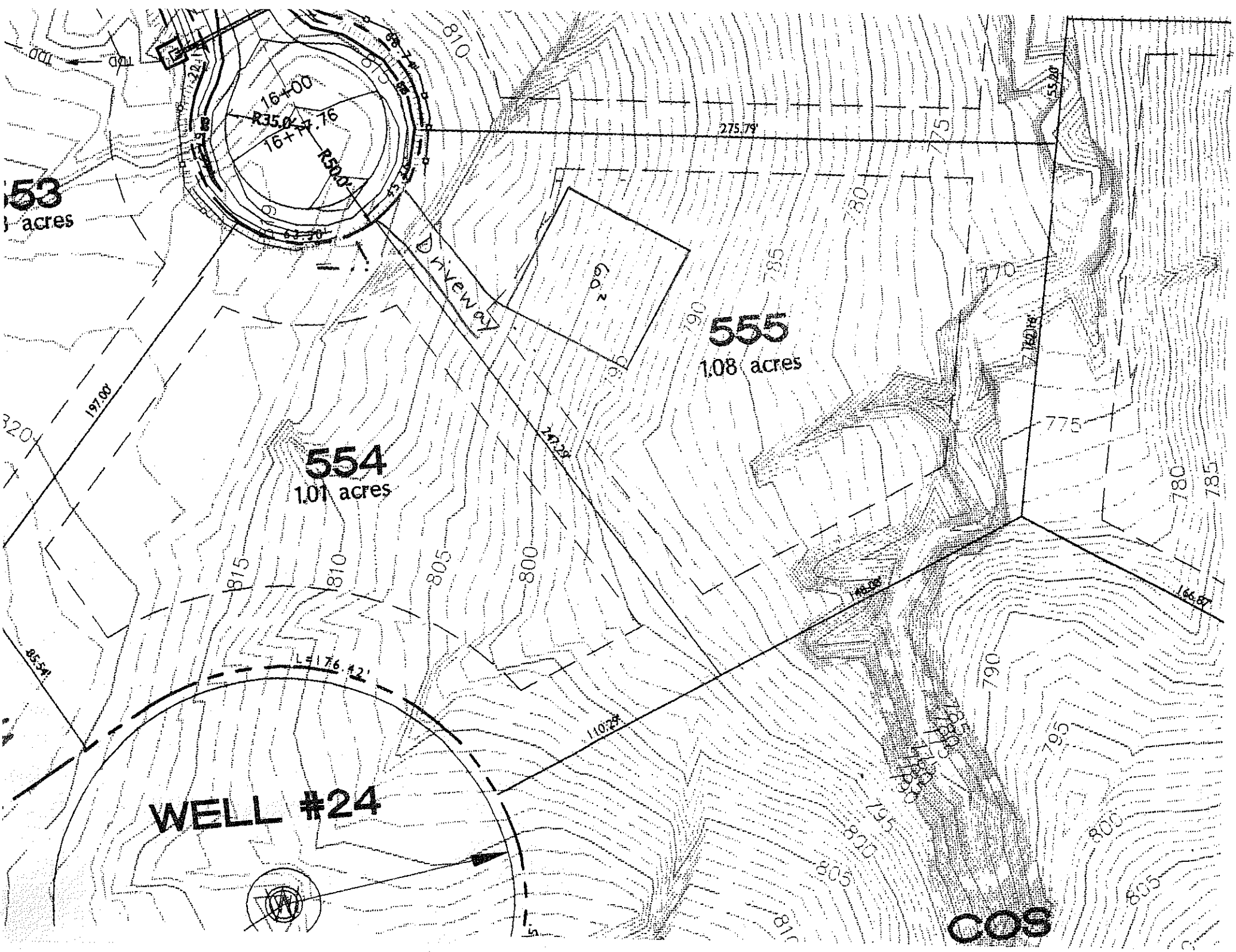
OWNER: Farms V — APPLICATION DATE _____
ADDRESS: _____ DATE EVALUATED: _____
PROPOSED FACILITY: House — PROPOSED DESIGN FLOW (.1949): 480 — PROPERTY SIZE: _____
LOCATION OF SITE: Lot 555 — PROPERTY RECORDED: _____
WATER SUPPLY: ☐ Private ☒ Public ☒ Well ☐ Spring ☐ Other _____
EVALUATION METHOD: ☐ Auger Boring ☒ Pit ☐ Cut — TYPE OF WASTEWATER: ☒ Sewage ☐ Industrial Process ☐ Mixed

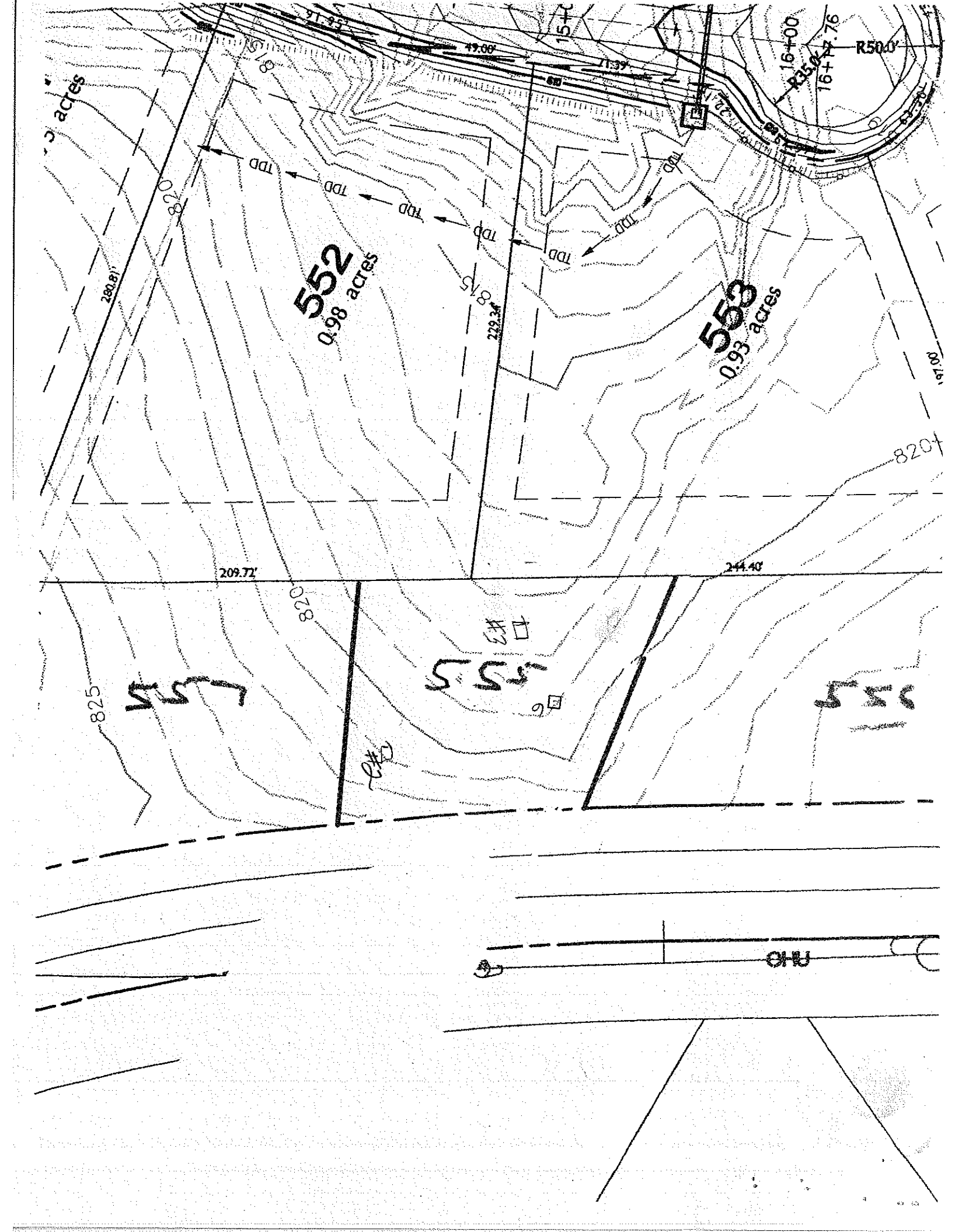
PROFILE #	.1940 LANDSCAPE POSITION/ SLOPE %	HORIZON DEPTH (IN.)	SOIL MORPHOLOGY (.1941) STRUCTURE/ TEXTURE	SOIL MORPHOLOGY (.1941) CONSISTENCE/ MINERALOGY	OTHER PROFILE FACTORS .1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1935 SAPRIC CLASS	.1944 REDOX. MORPH.	PROFILE CLASS & LTAR
1	pit #6 L	0-8	WK SBK SCL	FR SS/SP	Red Br				
		8-39	Mo SBK/ WK ABK C	Fi/Fr SS/SP	Red		C sap		
		39-48	Mo SBK CL	FR SS/SP	Lt Red		C sap		0.3
2	#2	0-4	mo gr sl	fr ss/sp	DK Br				
		4-27	mo sbk/abk C	fr ss/sp	Red				
		27-51	mo sbk cl	fr ss/sp	Red few/com inc. sap				.3
3	#3 LCC 480	0-6	WK GR SCL	FR SS/SP	DK Br				
		6-42	Mo ABK/Mo SBK C	FR SS/SP	Red				
		42-54	WK SBK C	FR SS/SP	Red		C sap	(Relic yel Br)	0.3
4									

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

OTHER FACTORS (.1946): _____
SITE CLASSIFICATION (.1948): _____
EVALUATED BY: _____
OTHER(S) PRESENT: _____

COMMENTS: _____


553
acres
554
1.01 acres
555
1.08 acres
WELL #24
Driveway
275.79'
247.29'
197.00'
166.88'
110.75'
85.54'
L=176.12'
R35.00'
R50.00'
16+00
16+77.76
63.70'
60.2'
810
815
805
800
795
790
785
780
775
770
760
755
820
COS


552
0.98 acres
553
0.93 acres
TOP
TOP
TOP
TOP
TOP
TOP
280.81'
229.34'
209.72'
244.40'
49.00'
91.85'
R50.0'
16+00
16+47.76
820
825
828
815
818
CMU