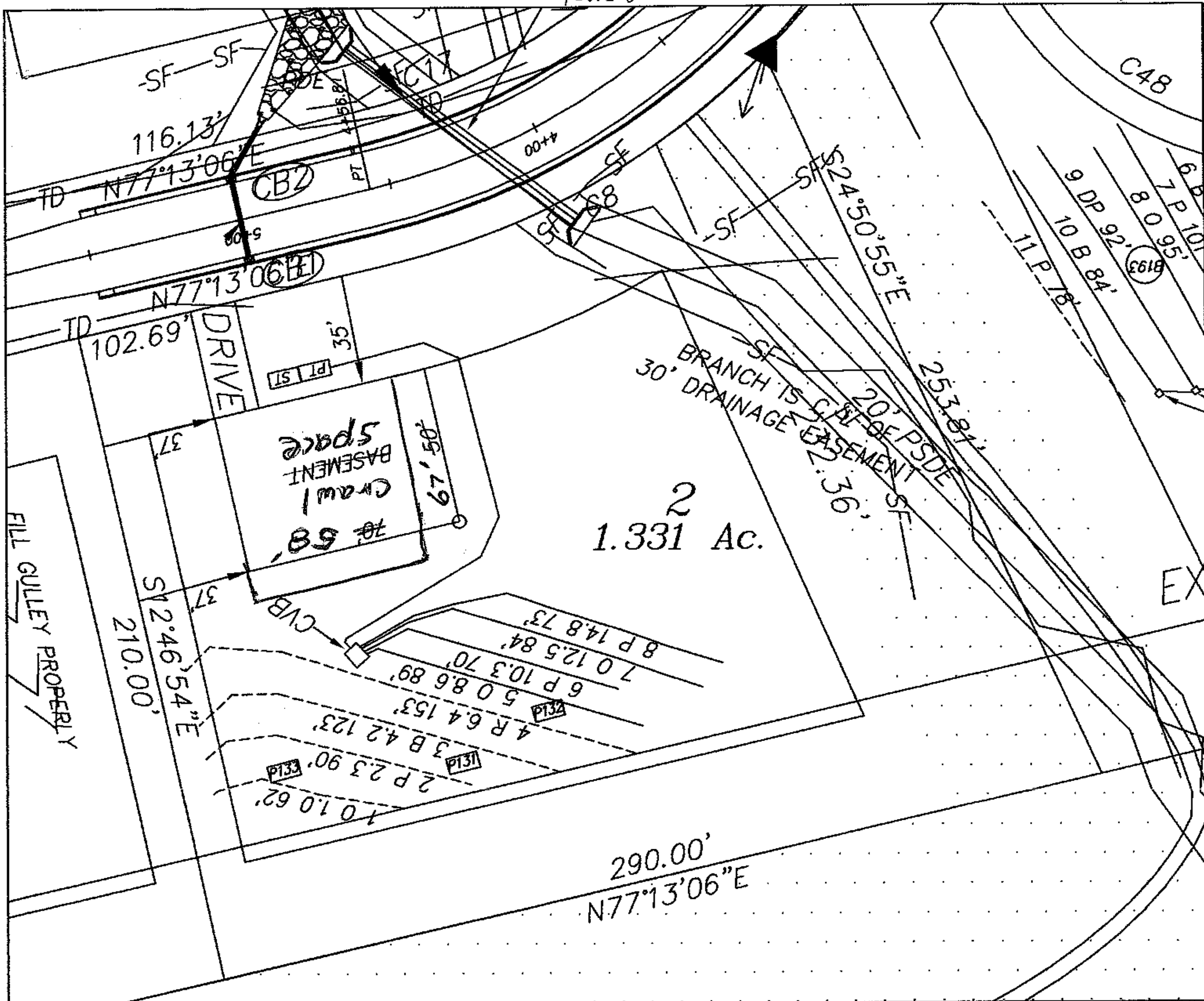
Revised 3-1-07

Revised for AC 3-30-07



LEGEND

☐	House Box.
——	System lines.
- - - -	Repair lines.
○	House Corner Shot.
▲	T.B.M.

GRAPHIC SCALE
1" = 50'

50 0 50 100

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THIS MAP ONLY REFLECTS EXISTING SOIL SUITABILITY FOR ON-SITE SEPTIC TANK SYSTEMS.

PLEASE REFER TO ATTACHED SOIL REPORT FOR ADDITIONAL SITE SPECIFIC INFORMATION

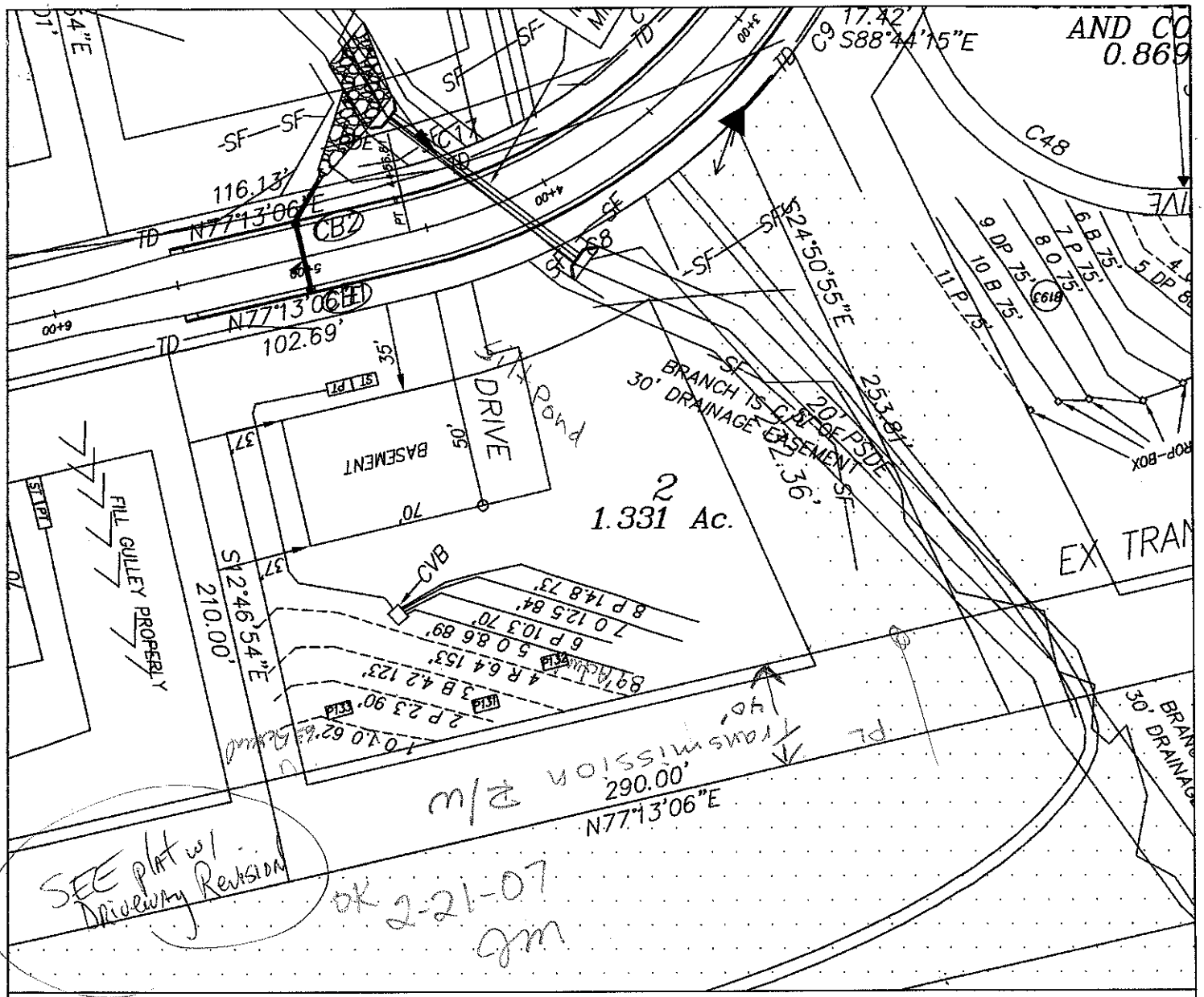
ROLLANS SOIL & ENVIRONMENTAL SERVICES
2120 GRAHAM ROAD
MOUNT ULLA, NC 28125
PHONE/FAX: (704) 278-0989
ASHLEY ROLLANS, NC LICENSED SOIL SCIENTIST
MOBILE: (704) 746-5046
EMAIL: ROLLANSFORTCJ@AOL.COM

MAP TITLE: SITE PLAN & DRAINFIELD AREAS

PROJECT NAME: BD OF NC / WINDING FOREST

LOCATION/DATE: PERTH ROAD, IREDELL COUNTY, NORTH CAROLINA, JUNE 2006

JOB #:	01-1135
FILE:	C:\JOBS\01-1135
PROJECT MGR.:	C.B.F.
FIELD WORK:	C.B.F. & A.L.P.
DRAWN BY:	C.B.F.



LEGEND

- House Box.
- System lines.
- Repair lines.
- House Corner Shot.
- T.B.M.

GRAPHIC SCALE
1" = 60'

60 0 60 120

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JOB #: 01-1135
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PROJECT MGR.: C.B.F.
FIELD WORK: C.B.F. & A.L.P.
DRAWN BY: A.L.P.

CALCULATIONS

Location WINDING FOREST

Project Number 01-1135

Lot No: Lot 2

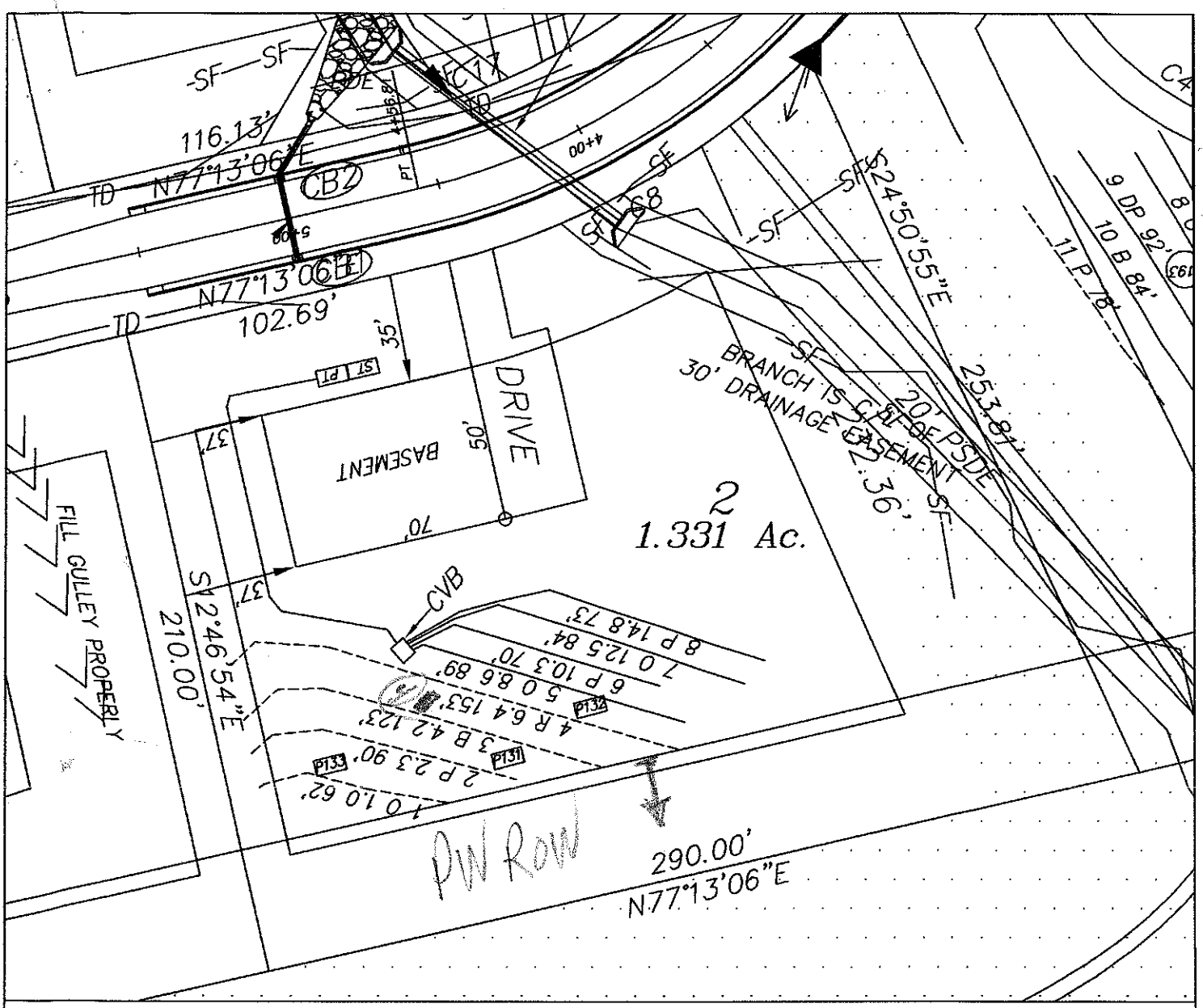
No. of Bedrooms	4	
Design Flow	480	$^{gal}/_{day}$
LTAR	0.3	$^{gal}/_{ft^2\ day}$
PPBPS? (YES OR NO)	YES	
Supply Line Length	141	ft.
Supply Line Volume	24.534	gal.
Required Feet of Line	266.6667	ft.
Amount of Line from Layout	305	ft.
Gallons per Minute	28.7	$^{gal}/_{min}$
Required Septic Tank Capacity	1000	gal.
Minimum Standard Tank Size	1000	
Panel Volume	3.6	gal.
# of Panels	70	
Dosing Volume	168.84	gal.

Note: Dosing Volume based on 33% of # of panels times 3.6 gal/panel

FRICTION FACTOR INTERPOLATER
2" SCH 40 PVC

GPM	*f*
20	0.84
	-0.88
25	1.27
	-1.28
30	1.78
	-1.76
35	2.37
	-2.25
40	3.03
43.07	3.48
45	3.77
48.14	4.28
50	4.58
57.11	5.89
60	6.42

Tank Draw Down	8.0	*Generic Draw Down of 21 gal.per in.*
Pump Run Time	5.88	minutes
Elevation Head	22.7	ft.
Pressure Head	2	ft.
Friction Factor	1.8	ft./100 ft. *(From the interpolater.)*
Friction Head	2.54	ft.
Total Dynamic Head (+15%)	31.32	ft.



LEGEND

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