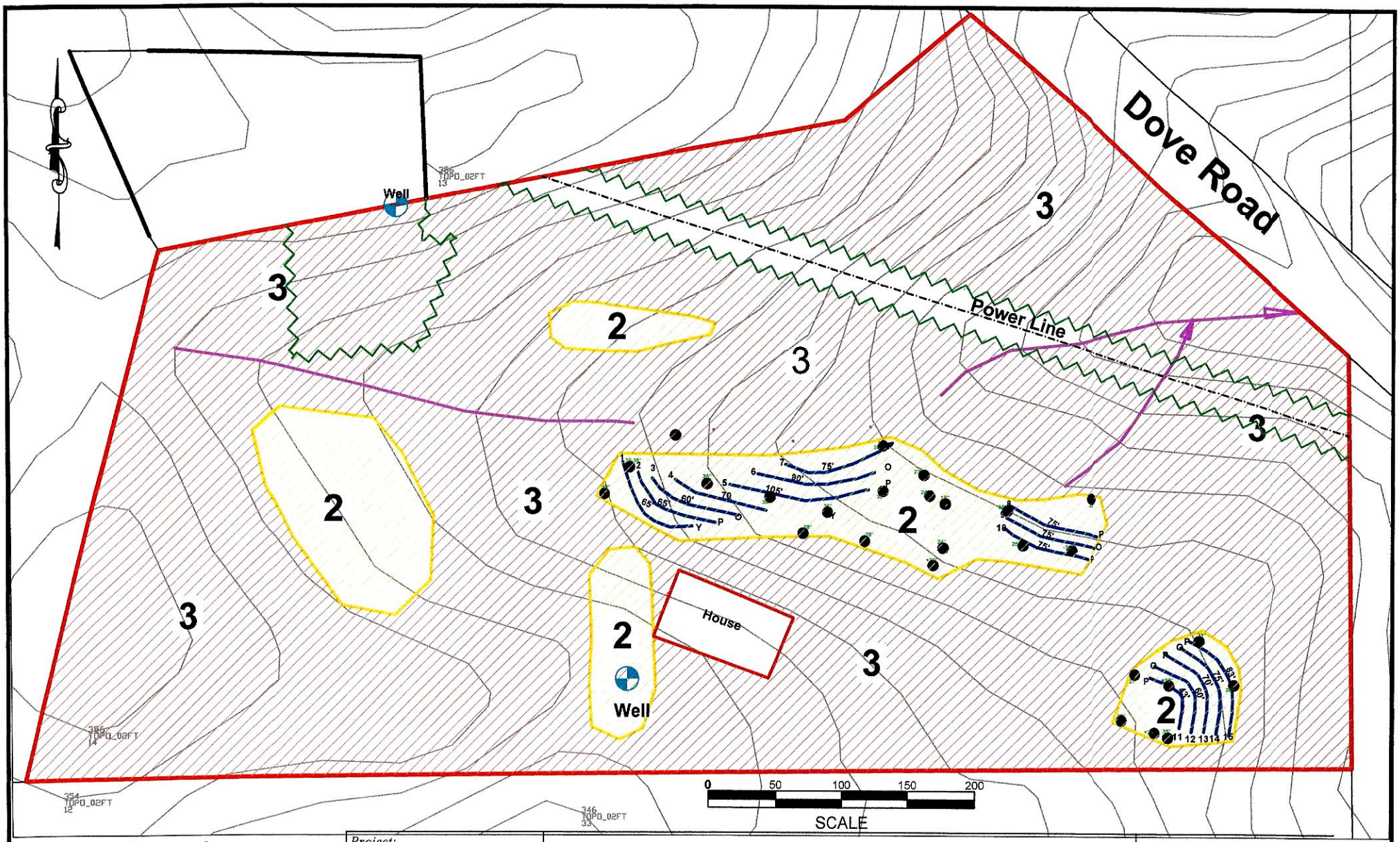
DRAIN FIELD SPECIFICATIONS

ROBERTO SANTOS SEPTIC SYSTEMS

Dwelling - Five Bedroom constructed house

Initial System - 465 linear ft. of conventional septic system drain field. Use trenches 2, 3, 4, 5, 6 & 7 as shown on the attached site plan. Use a pump system and pressure manifold for effluent distribution. See attached tap chart for the design of the manifold. Site LTAR = 0.35 to 0.40 gal./sq. ft. of trench bottom. Use proprietary measures (Easy Flow) for a 25 percent reduction in drain field trench requirements.

Repair System - 556 linear ft. of ultra-shallow (at grade) conventional septic system drain field trenches. Use trenches 8, 9, 10, 11, 12, 13, 14 & 15 as shown on the attached site plan. Use a pump system and dual pressure manifolds for effluent distribution. Site LTAR = 0.30 to 0.40 gal./sq. ft. of trench bottom. Use proprietary measures (Easy Flow) for a 25 percent reduction in drain field trench requirements.



Legend

- 2 — Provisionally Suitable to Unsuitable
- 3 — Unsuitable
- Surface Drains
- Woods Line

Project:	10.16 acre tract
Client:	Roberto Santos
CAD File:	RobertoSantos
Scale:	1" = 100
Date:	June 18, 2018

Daniel J. Bliley

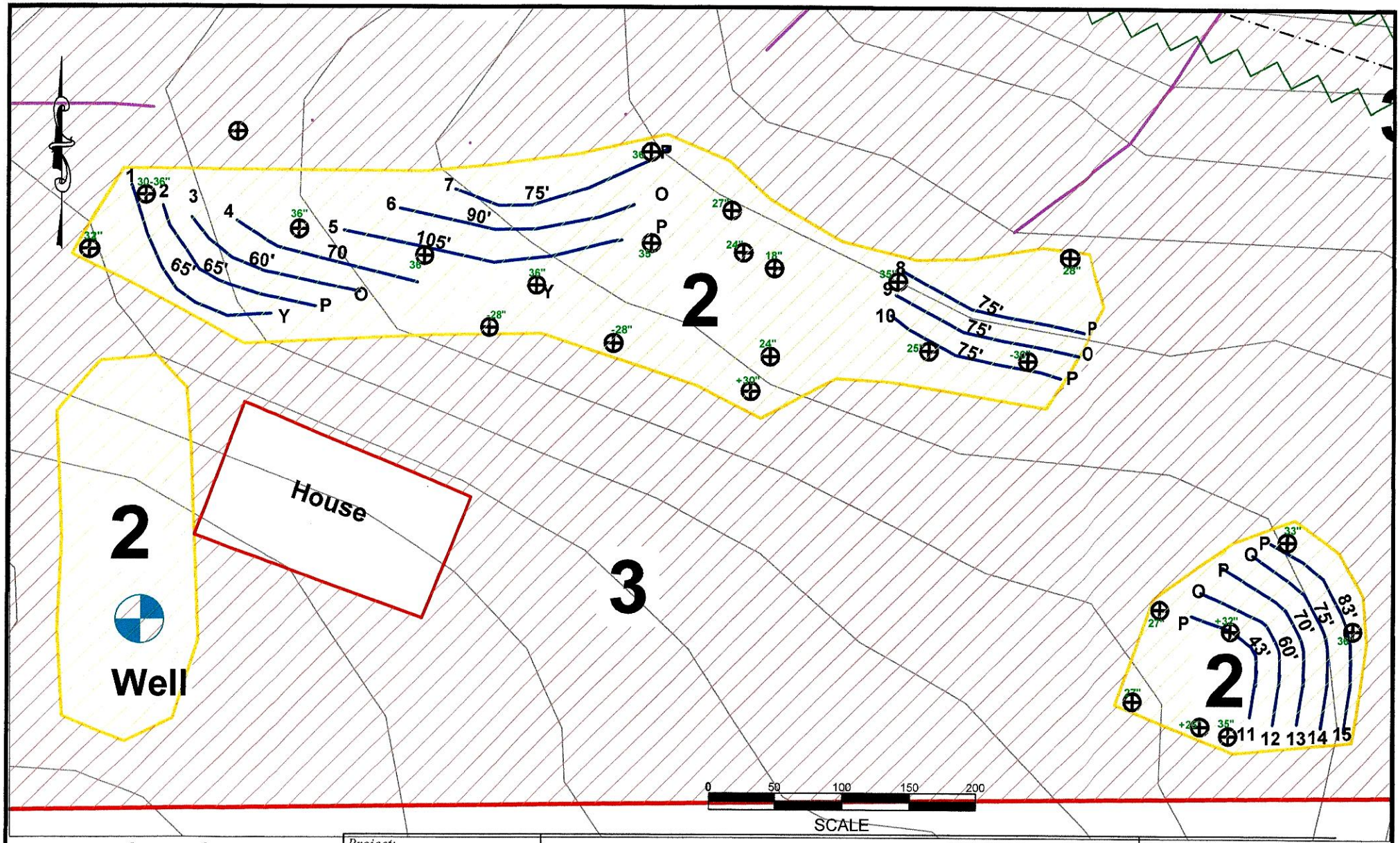
Soils and Land Use Consultant

614 South Second Street - Smithfield NC 27577

Phone/Fax: (919) 934-8610 - Email: dbliley1@nc.rr.com

Legend

- Flagged Drain Field Trenches
- Soil Borings and Depths



Legend

- 2 — Provisionally Suitable to Unsuitable
- 3 — Unsuitable
- Surface Drains
- Woods Line

Project:	10.16 acre tract
Client:	Roberto Santos
CAD File:	RobertoSantos
Scale:	1" = 50'
Date:	June 18, 2018

Daniel J. Bliley

Soils and Land Use Consultant

614 South Second Street - Smithfield NC 27577

Phone/Fax: (919) 934-8610 - Email: dbliley1@nc.rr.com

Legend

- Flagged Drain Field Trenches
- Soil Borings and Depths

TAP CHART - INITIAL SYSTEM - ROBERTO SANTOS

Bench Mark		is = 100.00	Location of BM					**Elevation Head**	6.00
Pump tank elev.			100.00	**Pump elev.**	95.00		**Manifold elev.**		101.00
line	**color**	**rod read**	**Elevation**	**length**	**hole size**	**flow/tap**	**gal/day**	**trench area**	**LINE LTAR**
1			100.00		NA		0.00	0	#DIV/0!
2	P		100.00	65	SCH80 1/2	5.48	90.98	195	0.4666
3	O		100.00	60	SCH80 1/2	5.48	90.98	180	0.5054
4	Y		100.00	70	SCH80 1/2	5.48	90.98	210	0.4332
5	P		100.00	105	SCH40 1/2	7.11	118.04	315	0.3747
6	O		100.00	90	SCH40 1/2	7.11	118.04	270	0.4372
7	P		100.00	75	SCH80 1/2	5.48	90.98	225	0.4044
8			100.00		NA		0.00	0	#DIV/0!
		total	**feet =**	**465**	**gal/min =**	**36.14**		**LTAR =**	**0.3500**
								LTAR + %5	**0.3675**
% of Dose Vol.		75		**Des. Flow**	**600**			**(ltar W/ INOV)**	0.4667
Dose Volume		226.69		**Pump Run=**	16.60			**(ltar W/ INOV + 5%**	0.4900
Dose Pump Time		6.27		**Tank Gal/IN**					
Drawdown in Inches		#DIV/0!							

TAP CHART - REPAIR - ROBERTO SANTOS

Bench Mark		is = 100.00	Location of BM					**Elevation Head**	6.00
Pump tank elev.			100.00	**Pump elev.**	95.00		**Manifold elev.**		101.00
line	**color**	**rod read**	**Elevation**	**length**	**hole size**	**flow/tap**	**gal/day**	**trench area**	**LINE LTAR**
8	**P**		100.00	75	SCH80 1/2	5.48	82.22	225	0.3654
9	**O**		100.00	75	SCH80 1/2	5.48	82.22	225	0.3654
10	**P**		100.00	75	SCH80 1/2	5.48	82.22	225	0.3654
11+12	**P-O**		100.00	103	SCH40 1/2	7.11	106.68	309	0.3452
13	**P**		100.00	70	SCH80 1/2	5.48	82.22	210	0.3915
14	**O**		100.00	75	SCH80 1/2	5.48	82.22	225	0.3654
15	**P**		100.00	83	SCH80 1/2	5.48	82.22	249	0.3302
			100.00		NA		0.00	0	#DIV/0!
		total	**feet =**	**556**	**gal/min =**	**39.99**		**LTAR =**	**0.3000**
								LTAR + %5	**0.3150**
% of Dose Vol.		75		**Des. Flow**	**600**			**(ltar W/ INOV)**	0.4000
Dose Volume		271.05		**Pump Run=**	15.00			**(ltar W/ INOV + 5%**	0.4200
Dose Pump Time		6.78		**Tank Gal/IN**					
Drawdown in Inches		#DIV/0!							