

# Horizon Wind Energy

Wind Lease Offer (100 acres, one 1.8MW turbine, 1/4 mile road, 1/4 mile of cable and a house)

**Assumptions:**

Turbine	<b>Vestas V90</b>	
Turbine size	<b>1.8</b>	megawatts
# of turbines	<b>1</b>	
Acres/turbine	<b>100</b>	acres <i>140 per acre</i>
Feet of road/turbine	<b>1320</b>	feet
Feet of cable/turbine	<b>1320</b>	feet
House	<b>1</b>	
CPI Inflation (Horizon)	<b>2.0%</b>	

Year	Turbine Payment	Acreage Payment	Road Payment	Cable Payment	House Payment	Total Payment
Development 1	\$ -	\$ 4,000.00	\$ -	\$ -	\$ -	\$ 4,000.00
2	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
3	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
4	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
5	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Construction</b>	<b>\$ 4,968.36</b>	<b>\$ 1,656.12</b>	<b>\$ 1,457.39</b>	<b>\$ 364.35</b>	<b>\$ 1,104.08</b>	<b>\$ 9,550.30</b>
Operation 1	\$ 5,067.73	\$ 1,689.24	\$ 1,486.53	\$ 371.63	\$ 1,126.16	\$ 9,741.30
2	\$ 5,169.09	\$ 1,723.03	\$ 1,516.27	\$ 379.07	\$ 1,148.69	\$ 9,936.13
3	\$ 5,272.47	\$ 1,757.49	\$ 1,546.59	\$ 386.65	\$ 1,171.66	\$ 10,134.85
4	\$ 5,377.92	\$ 1,792.64	\$ 1,577.52	\$ 394.38	\$ 1,195.09	\$ 10,337.55
5	\$ 5,485.47	\$ 1,828.49	\$ 1,609.07	\$ 402.27	\$ 1,218.99	\$ 10,544.30
6	\$ 5,595.18	\$ 1,865.06	\$ 1,641.25	\$ 410.31	\$ 1,243.37	\$ 10,755.19
7	\$ 5,707.09	\$ 1,902.36	\$ 1,674.08	\$ 418.52	\$ 1,268.24	\$ 10,970.29
8	\$ 5,821.23	\$ 1,940.41	\$ 1,707.56	\$ 426.89	\$ 1,293.61	\$ 11,189.70
9	\$ 5,937.65	\$ 1,979.22	\$ 1,741.71	\$ 435.43	\$ 1,319.48	\$ 11,413.49
10	\$ 6,056.41	\$ 2,018.80	\$ 1,776.55	\$ 444.14	\$ 1,345.87	\$ 11,641.76
11	\$ 6,177.54	\$ 2,059.18	\$ 1,812.08	\$ 453.02	\$ 1,372.79	\$ 11,874.60
12	\$ 6,301.09	\$ 2,100.36	\$ 1,848.32	\$ 462.08	\$ 1,400.24	\$ 12,112.09
13	\$ 6,427.11	\$ 2,142.37	\$ 1,885.29	\$ 471.32	\$ 1,428.25	\$ 12,354.33
14	\$ 6,555.65	\$ 2,185.22	\$ 1,922.99	\$ 480.75	\$ 1,456.81	\$ 12,601.42
15	\$ 6,686.76	\$ 2,228.92	\$ 1,961.45	\$ 490.36	\$ 1,485.95	\$ 12,853.44
16	\$ 6,820.50	\$ 2,273.50	\$ 2,000.68	\$ 500.17	\$ 1,515.67	\$ 13,110.51
17	\$ 6,956.91	\$ 2,318.97	\$ 2,040.69	\$ 510.17	\$ 1,545.98	\$ 13,372.72
18	\$ 7,096.05	\$ 2,365.35	\$ 2,081.51	\$ 520.38	\$ 1,576.90	\$ 13,640.18
19	\$ 7,237.97	\$ 2,412.66	\$ 2,123.14	\$ 530.78	\$ 1,608.44	\$ 13,912.98
20	\$ 7,382.73	\$ 2,460.91	\$ 2,165.60	\$ 541.40	\$ 1,640.61	\$ 14,191.24
21	\$ 7,530.38	\$ 2,510.13	\$ 2,208.91	\$ 552.23	\$ 1,673.42	\$ 14,475.07
22	\$ 7,680.99	\$ 2,560.33	\$ 2,253.09	\$ 563.27	\$ 1,706.89	\$ 14,764.57
23	\$ 7,834.61	\$ 2,611.54	\$ 2,298.15	\$ 574.54	\$ 1,741.02	\$ 15,059.86
24	\$ 7,991.30	\$ 2,663.77	\$ 2,344.11	\$ 586.03	\$ 1,775.84	\$ 15,361.06
25	\$ 8,151.13	\$ 2,717.04	\$ 2,391.00	\$ 597.75	\$ 1,811.36	\$ 15,668.28
26	\$ 8,314.15	\$ 2,771.38	\$ 2,438.82	\$ 609.70	\$ 1,847.59	\$ 15,981.64
27	\$ 8,480.43	\$ 2,826.81	\$ 2,487.59	\$ 621.90	\$ 1,884.54	\$ 16,301.28
28	\$ 8,650.04	\$ 2,883.35	\$ 2,537.35	\$ 634.34	\$ 1,922.23	\$ 16,627.30
29	\$ 8,823.04	\$ 2,941.01	\$ 2,588.09	\$ 647.02	\$ 1,960.68	\$ 16,959.85
30	\$ 8,999.50	\$ 2,999.83	\$ 2,639.85	\$ 659.96	\$ 1,999.89	\$ 17,299.04
31	\$ 9,179.49	\$ 3,059.83	\$ 2,692.65	\$ 673.16	\$ 2,039.89	\$ 17,645.03
32	\$ 9,363.08	\$ 3,121.03	\$ 2,746.50	\$ 686.63	\$ 2,080.69	\$ 17,997.93
33	\$ 9,550.34	\$ 3,183.45	\$ 2,801.43	\$ 700.36	\$ 2,122.30	\$ 18,357.88
34	\$ 9,741.35	\$ 3,247.12	\$ 2,857.46	\$ 714.37	\$ 2,164.74	\$ 18,725.04
35	\$ 9,936.18	\$ 3,312.06	\$ 2,914.61	\$ 728.65	\$ 2,208.04	\$ 19,099.54
36	\$ 10,134.90	\$ 3,378.30	\$ 2,972.90	\$ 743.23	\$ 2,252.20	\$ 19,481.53
37	\$ 10,337.60	\$ 3,445.87	\$ 3,032.36	\$ 758.09	\$ 2,297.24	\$ 19,871.16
38	\$ 10,544.35	\$ 3,514.78	\$ 3,093.01	\$ 773.25	\$ 2,343.19	\$ 20,268.59
39	\$ 10,755.24	\$ 3,585.08	\$ 3,154.87	\$ 788.72	\$ 2,390.05	\$ 20,673.96
40	\$ 10,970.34	\$ 3,656.78	\$ 3,217.97	\$ 804.49	\$ 2,437.85	\$ 21,087.44
41	\$ 11,189.75	\$ 3,729.92	\$ 3,282.33	\$ 820.58	\$ 2,486.61	\$ 21,509.19
42	\$ 11,413.55	\$ 3,804.52	\$ 3,347.97	\$ 836.99	\$ 2,536.34	\$ 21,939.37
43	\$ 11,641.82	\$ 3,880.61	\$ 3,414.93	\$ 853.73	\$ 2,587.07	\$ 22,378.16
44	\$ 11,874.65	\$ 3,958.22	\$ 3,483.23	\$ 870.81	\$ 2,638.81	\$ 22,825.72
45	\$ 12,112.15	\$ 4,037.38	\$ 3,552.90	\$ 888.22	\$ 2,691.59	\$ 23,282.24
46	\$ 12,354.39	\$ 4,118.13	\$ 3,623.95	\$ 905.99	\$ 2,745.42	\$ 23,747.88
47	\$ 12,601.48	\$ 4,200.49	\$ 3,696.43	\$ 924.11	\$ 2,800.33	\$ 24,222.84
48	\$ 12,853.51	\$ 4,284.50	\$ 3,770.36	\$ 942.59	\$ 2,856.33	\$ 24,707.30
49	\$ 13,110.58	\$ 4,370.19	\$ 3,845.77	\$ 961.44	\$ 2,913.46	\$ 25,201.44
50	\$ 13,372.79	\$ 4,457.60	\$ 3,922.68	\$ 980.67	\$ 2,971.73	\$ 25,705.47
<b>Total</b>						<b>\$ 837,464.04</b>



## Soil Test Results

<b>Prepared For:</b> Harris, Richard <b>Farm:</b> Home <b>Field:</b> All <b>County:</b> Randolph, IN	<b>Crop Zone:</b> <b>Crop Year:</b>  <b>Prepared By:</b> Harvest Land Yield Pro
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Layer Name: Soil Test

Date Sampled: December 22, 2004

SampleID	pH	BpH	OM	CEC	P1	K	Mg	Ca	K%	Mg%	Ca%	Base	Ca:M	Mg:K
1	5.3	6.5	1.9	10	89	252	174	1172	3	7	29	40	4.0	2.3
2	6.9	7.0	1.6	9	45	230	611	2424	3	28	68	100	2.4	8.7
3	7.1	7.0	1.5	10	73	206	796	2696	3	32	65	100	2.0	12.6
4	5.9	6.7	1.7	9	119	314	316	1640	4	14	44	62	3.1	3.3
5	5.9	6.8	1.6	8	83	362	327	1675	6	16	50	71	3.1	2.9
6	6.5	7.0	1.8	8	52	240	537	2257	4	27	69	100	2.5	7.3
7	6.9	7.0	1.8	10	61	283	740	2656	4	31	66	100	2.2	8.5
8	6.3	6.9	1.9	8	100	345	414	2017	5	20	60	86	2.9	3.9
9	7.4	7.0	1.9	10	134	328	686	2881	4	27	69	100	2.5	6.8
10	7.2	7.0	1.7	10	173	379	723	2521	5	30	64	100	2.1	6.2
11	5.8	6.7	2.0	10	184	588	271	1739	8	11	44	64	3.9	1.5
12	5.6	6.6	1.7	10	147	394	250	1519	5	10	38	53	3.6	2.1
13	6.0	6.8	1.9	9	110	328	334	1890	5	15	53	73	3.4	3.3
14	6.0	6.8	1.9	9	122	358	307	1796	5	15	52	72	3.5	2.8
15	6.3	6.9	1.5	9	238	359	400	2134	5	19	62	87	3.2	3.6
16	6.3	6.9	2.2	10	397	495	515	2488	6	21	61	88	2.9	3.4
17	6.8	7.0	1.6	10	84	253	679	2533	3	29	67	100	2.2	8.7
18	5.8	6.7	1.4	9	201	359	329	1569	5	15	42	62	2.9	3.0
19	5.5	6.6	1.3	9	140	285	231	1282	4	10	35	49	3.3	2.6
20	5.5	6.6	1.5	10	120	303	259	1412	4	11	36	51	3.3	2.8
21	5.7	6.6	1.9	11	85	286	348	1920	3	13	42	58	3.3	4.0
22	6.3	6.9	1.6	9	71	308	615	2054	4	27	55	87	2.0	6.5
23	6.8	7.0	1.9	10	65	199	712	2696	3	30	68	100	2.3	11.7
24	6.9	7.0	2.2	9	56	256	586	2413	4	27	69	100	2.5	7.5
25	7.0	7.0	2.2	10	93	270	744	2567	4	31	66	100	2.1	9.0
26	6.1	6.8	2.4	9	79	275	399	1736	4	19	50	73	2.6	4.7
27	6.3	6.9	1.8	9	42	235	515	2178	3	23	60	86	2.5	7.1
28	6.0	6.7	2.1	12	39	281	689	2181	3	23	45	71	1.9	8.0
29	6.3	6.8	2.9	11	99	370	513	2236	5	20	53	77	2.6	4.5
30	6.5	6.9	2.9	9	89	504	425	2091	7	20	59	87	3.0	2.7
31	7.4	7.0	2.6	20	154	423	798	6536	3	16	81	100	4.9	6.2
32	6.4	6.9	2.9	11	168	403	610	2522	5	24	60	89	2.5	4.9
33	7.1	7.0	2.4	9	167	306	615	2261	5	29	66	100	2.2	6.6
34	5.1	6.4	1.9	11	440	497	137	953	6	5	22	33	4.2	0.9
35	5.2	6.5	1.7	9	350	459	151	878	6	7	23	36	3.5	1.1
36	6.9	7.0	2.2	11	75	252	820	2817	3	32	66	100	2.1	10.6
37	5.9	6.7	1.9	11	80	219	426	2091	3	16	48	67	2.9	6.3
38	7.0	7.0	1.8	10	42	168	670	2778	2	28	70	100	2.5	13.0

Average: 6.3 6.8 1.9 10 128 326 491 2190 4 20 55 80 2.9 5.6

## Prescription Summary

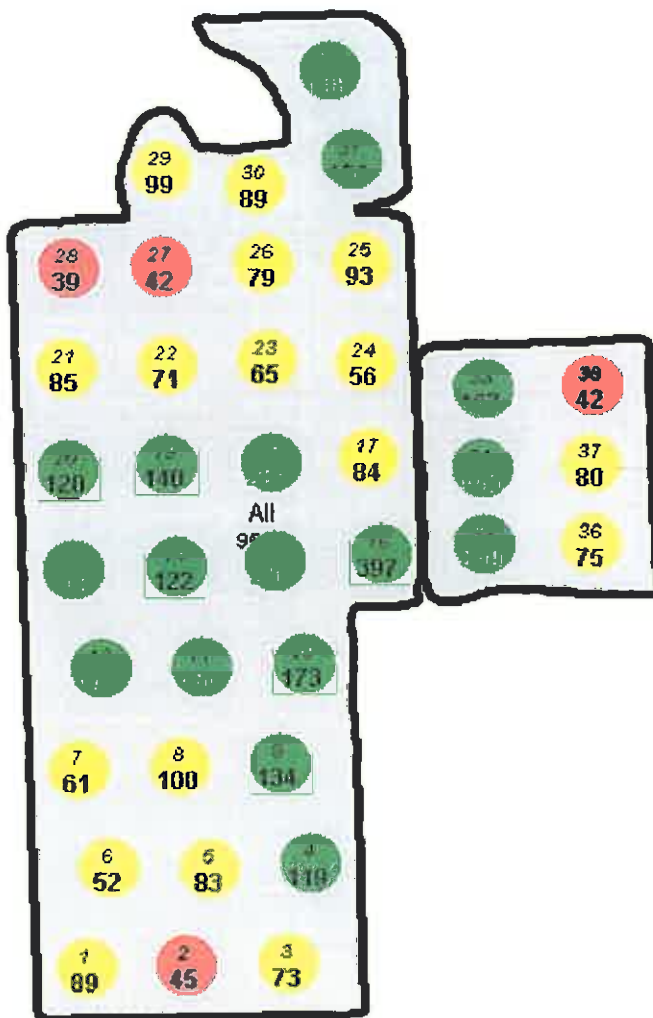
<b>Prepared For:</b> Harris, Richard <b>Farm:</b> Home <b>Field:</b> All <b>County:</b> Randolph, IN	<b>Crop Zone:</b> Unknown <b>Crop Year:</b> 2005  <b>Prepared By:</b>
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Scale = 326 feet/inch

Product Summary			Potash	Acres
<b>Operation:</b> 140 - 50 4Y - K_Rec			Below 100	38.21
<b>Product:</b> Potash			100 to 200	24.36
<b>Area (acres)</b>	<b>Rate (lb/acre)</b>		200 to 300	20.46
<b>Total:</b> 95.82	<b>Average:</b> 230.00		300 to 400	10.39
<b>App:</b> 57.62	<b>Minimum:</b> 114.00		Above 500	2.41
	<b>Maximum:</b> 464.00			
<b>Quantity:</b> 6.62 (tons)				

<b>Prepared For:</b> Harris, Richard <b>Farm:</b> Home <b>Field:</b> All <b>County:</b> Randolph, IN	<b>Crop Zone:</b> <b>Crop Year:</b>  <b>Prepared By:</b> Harvest Land Yield Pro
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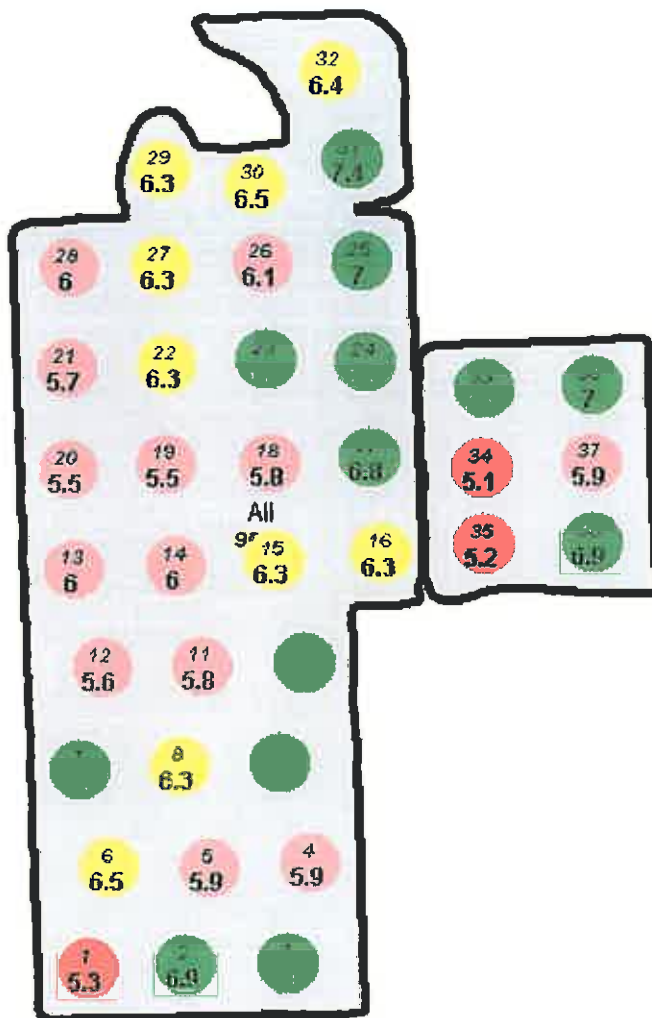


Scale = 326 feet/inch

<b>Layer Summary</b> Layer: Soil Test Attribute: P1	<b>P1</b>  Below 50  50 to 100  Above 100	<b>Sites</b> 4 17 17
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pH

<b>Prepared For:</b> Harris, Richard <b>Farm:</b> Home <b>Field:</b> All <b>County:</b> Randolph, IN	<b>Crop Zone:</b> <b>Crop Year:</b>  <b>Prepared By:</b> Harvest Land Yield Pro
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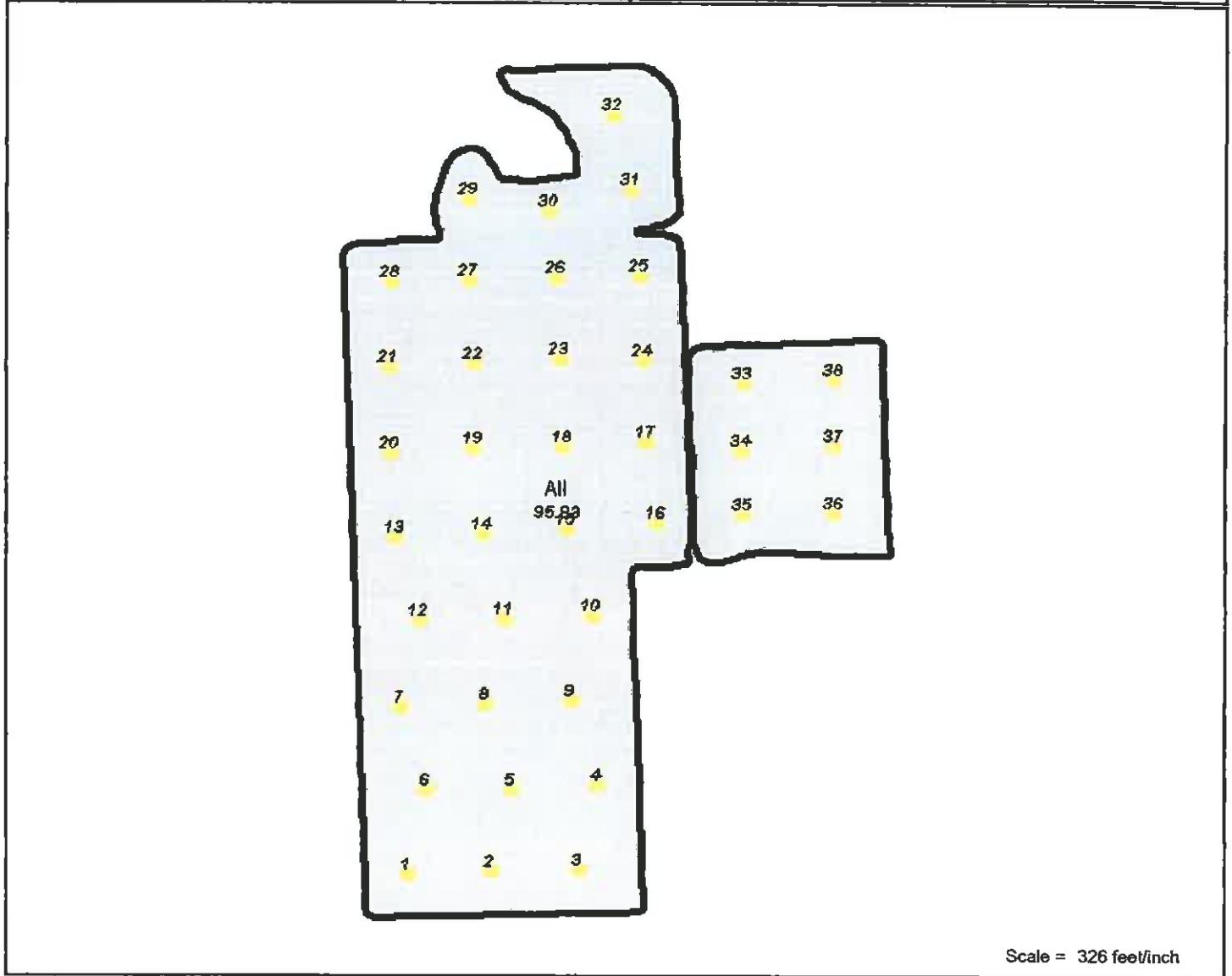


Scale = 326 feet/inch

Layer Summary	pH	Sites
Layer: Soil Test	Below 5.5	5
Attribute: pH	5.5 to 6.2	11
	6.2 to 6.5	9
	Above 6.5	13

## SampleID

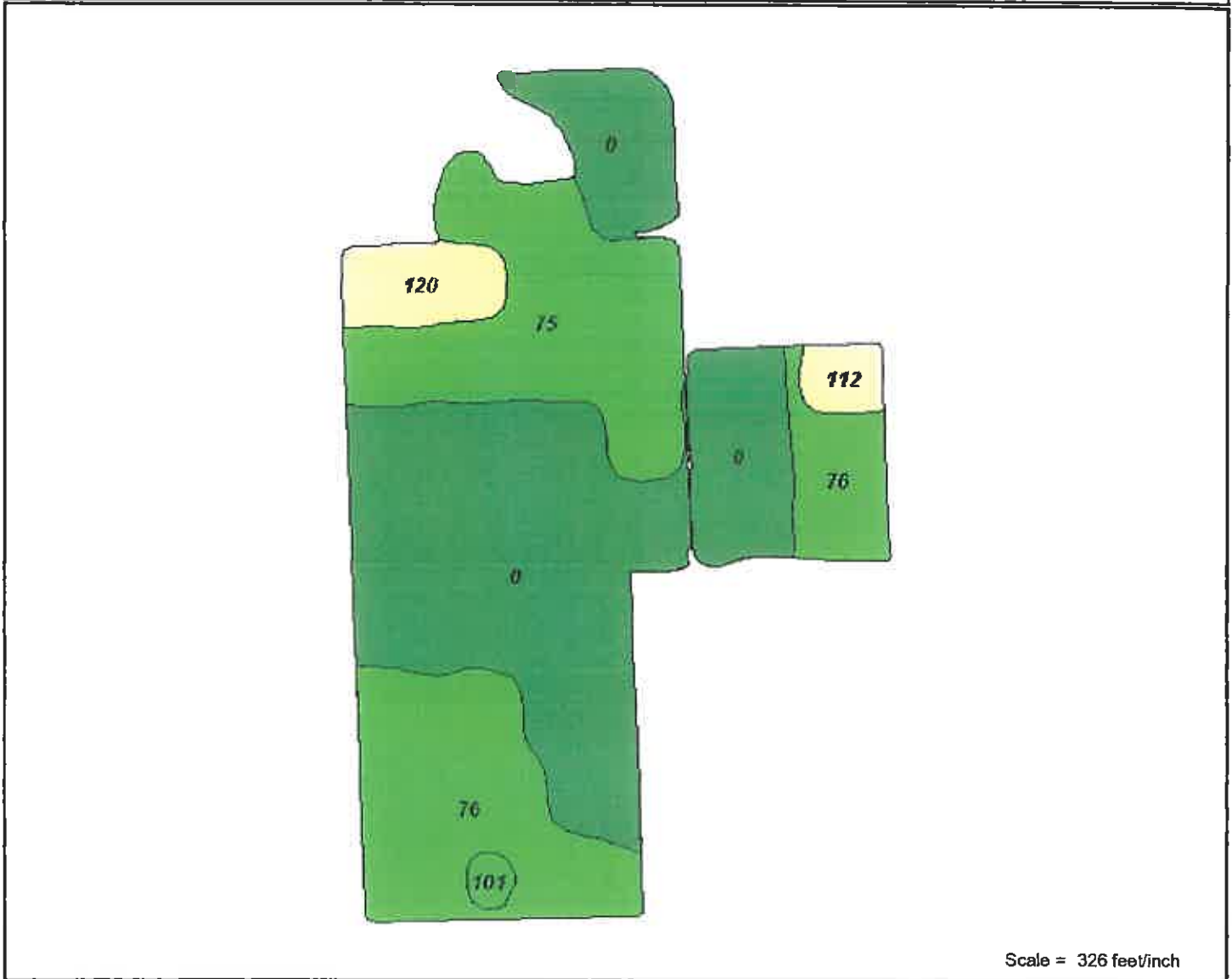
<b>Prepared For:</b> Harris, Richard <b>Farm:</b> Home <b>Field:</b> All <b>County:</b> Randolph, IN	<b>Crop Zone:</b> <b>Crop Year:</b>  <b>Prepared By:</b> Harvest Land Yield Pro
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<b>Layer Summary</b> Layer: Soil Test Attribute: SampleID	
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## Prescription Summary

<b>Prepared For:</b> Harris, Richard <b>Farm:</b> Home <b>Field:</b> All <b>County:</b> Randolph, IN	<b>Crop Zone:</b> Unknown <b>Crop Year:</b> 2005  <b>Prepared By:</b>
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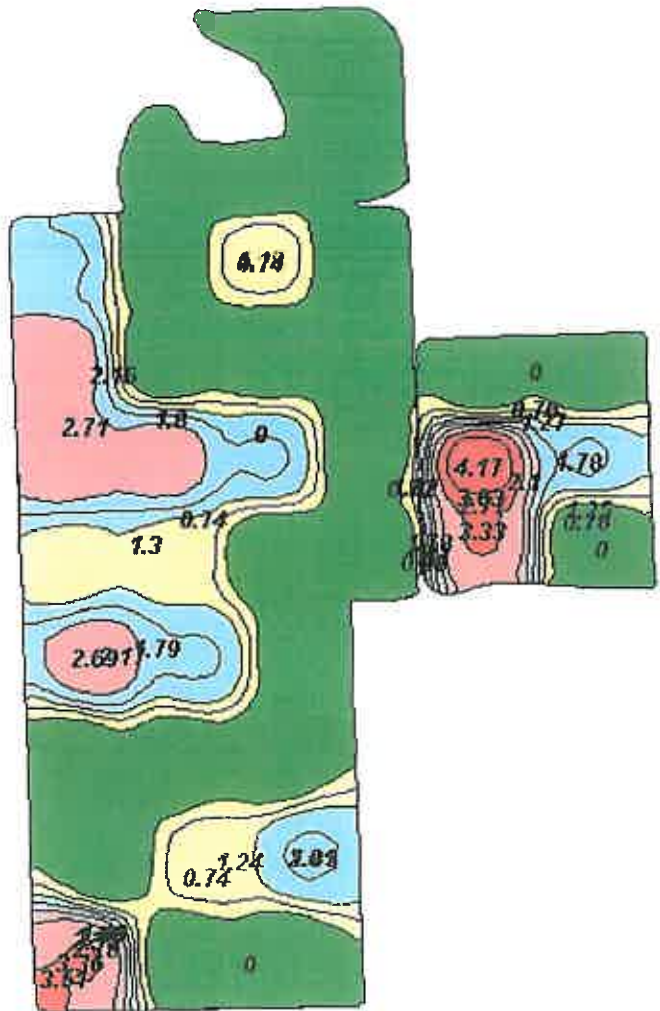
Scale = 326 feet/inch

<b>Product Summary</b>			<b>P2O5</b>		<b>Acres</b>
<b>Operation:</b> 140 - 50 4Y - P			<span style="display: inline-block; width: 15px; height: 10px; background-color: #4CAF50; border: 1px solid black;"></span>	Below 52	46.81
<b>Product:</b> P2O5			<span style="display: inline-block; width: 15px; height: 10px; background-color: #8BC34A; border: 1px solid black;"></span>	52 to 104	42.71
<b>Area (acres)</b>	<b>Rate (unit/acre)</b>		<span style="display: inline-block; width: 15px; height: 10px; background-color: #FFF9C4; border: 1px solid black;"></span>	104 to 156	6.31
<b>Total:</b>	95.83	<b>Average:</b>	81.00	<span style="display: inline-block; width: 15px; height: 10px; background-color: #BBDEFB; border: 1px solid black;"></span>	156 to 208
<b>App:</b>	49.02	<b>Minimum:</b>	75.00	<span style="display: inline-block; width: 15px; height: 10px; background-color: #FFCDD2; border: 1px solid black;"></span>	208 to 260
<b>Quantity:</b>	3987 (units)	<b>Maximum:</b>	120.00	<span style="display: inline-block; width: 15px; height: 10px; background-color: #FF0000; border: 1px solid black;"></span>	Above 260



## Prescription Summary

<b>Prepared For:</b> Harris, Richard <b>Farm:</b> Home <b>Field:</b> All <b>County:</b> Randolph, IN	<b>Crop Zone:</b> Unknown <b>Crop Year:</b> 2005  <b>Prepared By:</b>
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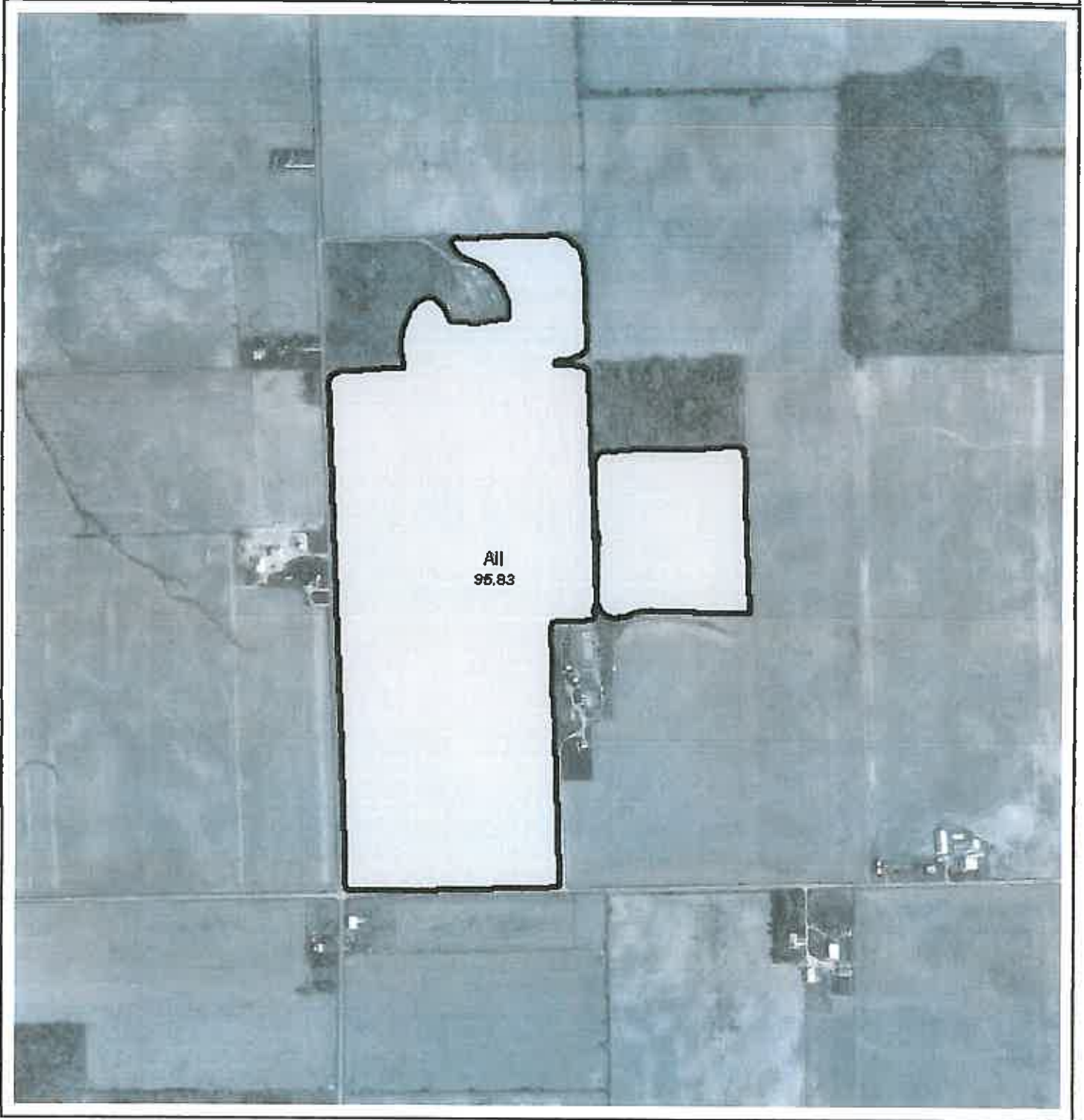


Scale = 326 feet/inch

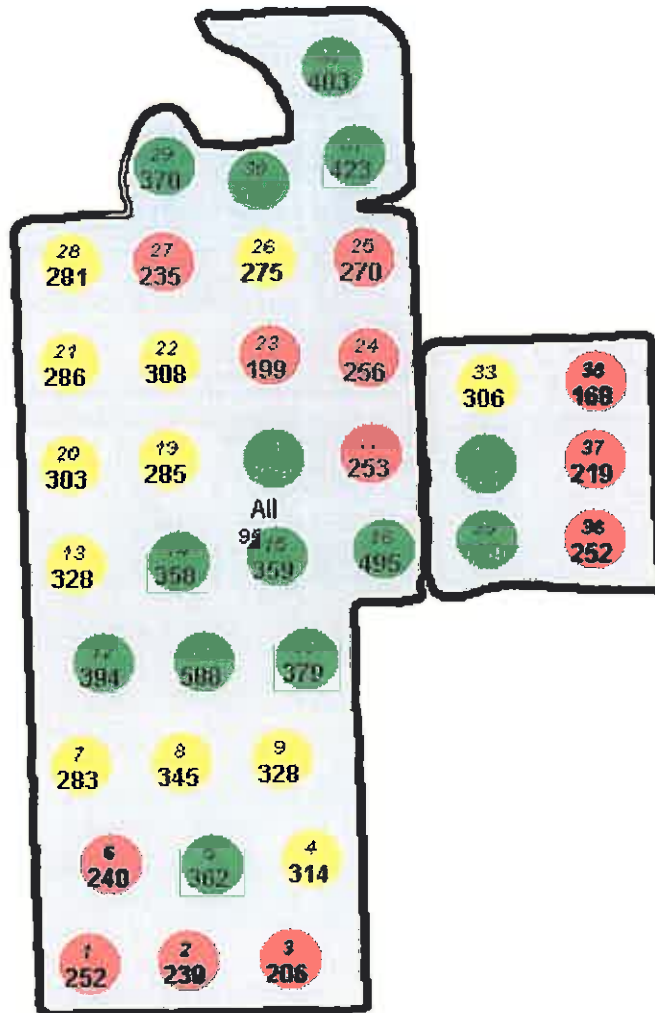
<b>Product Summary</b>			<b>Lime Recommendation</b>	<b>Acres</b>
<b>Operation:</b> 140 - 50 4Y - Lime_Rec			<div style="display: flex; align-items: center;"> <div style="width: 15px; height: 15px; background-color: #388e3c; margin-right: 5px;"></div>           Below 0.50         </div>	49.84
<b>Product:</b> Lime Recommendation			<div style="display: flex; align-items: center;"> <div style="width: 15px; height: 15px; background-color: #f1c40f; margin-right: 5px;"></div>           0.50 to 1.50         </div>	17.15
<b>Area (acres)</b>			<div style="display: flex; align-items: center;"> <div style="width: 15px; height: 15px; background-color: #5dade2; margin-right: 5px;"></div>           1.50 to 2.50         </div>	15.94
<b>Total:</b>	95.83	<b>Average:</b>	<div style="display: flex; align-items: center;"> <div style="width: 15px; height: 15px; background-color: #e91e63; margin-right: 5px;"></div>           2.50 to 3.50         </div>	10.44
<b>App:</b>	45.99	<b>Minimum:</b>	<div style="display: flex; align-items: center;"> <div style="width: 15px; height: 15px; background-color: #e74c3c; margin-right: 5px;"></div>           Above 3.50         </div>	2.46
		<b>Maximum:</b>		
<b>Quantity:</b>	88.6 (tons)			

## Field Map

<b>Prepared For:</b> Harris, Richard <b>Farm:</b> Home <b>Field:</b> All <b>County:</b> Randolph, IN	<b>Crop Zone:</b> <b>Crop Year:</b> <b>Prepared By:</b>
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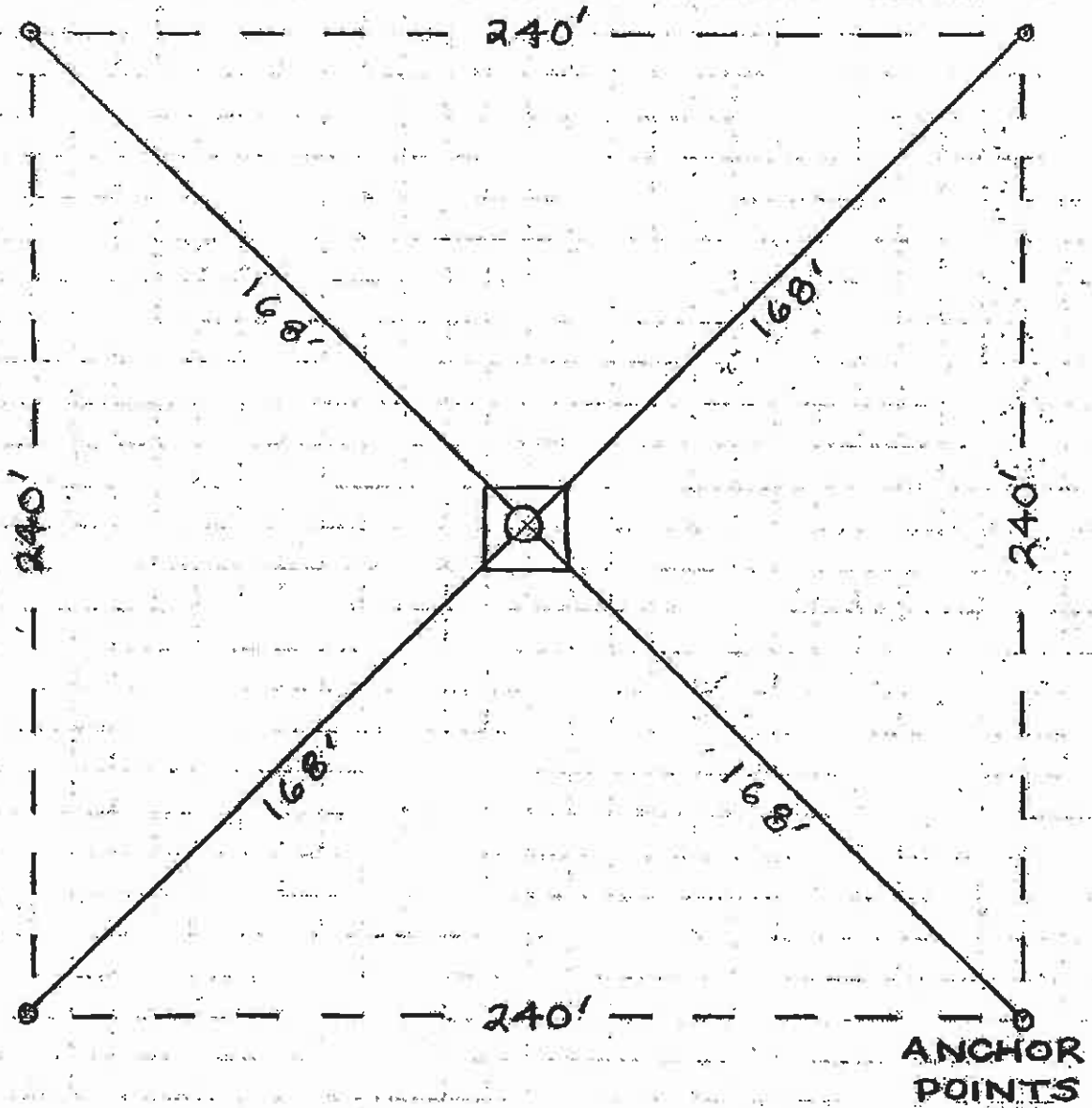
<b>Prepared For:</b> Harris, Richard <b>Farm:</b> Home <b>Field:</b> All <b>County:</b> Randolph, IN	<b>Crop Zone:</b> <b>Crop Year:</b> <b>Prepared By:</b> Harvest Land Yield Pro
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Scale = 326 feet/inch

Layer Summary	K	Sites
Layer: Soil Test	Below 275	13
Attribute: K	275 to 350	11
	Above 350	14

# TYPICAL MET TOWER CONFIGURATION



1.32  
acw