

Mitchell Environmental, P.A.

**SITE EVALUATION FOR USE OF ON-SITE SEWAGE
DISPOSAL SYSTEMS
for
PARKER SPRINGS SUBDIVISION
CHATHAM COUNTY, NORTH CAROLINA**

Submitted to:

Chatham County Public Health Department
Environmental Health Division
80 East Street
Pittsboro, North Carolina 27312

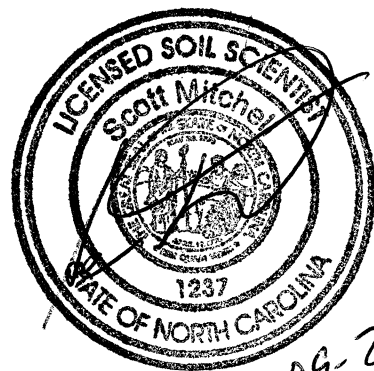
Prepared for:

Parker Springs, LLC
4441 Six Forks Road
Suite 106-142
Raleigh, North Carolina 27609

Prepared by:

Scott Mitchell, PE, LSS
Rob Caron
Jeff Bullard
Robin Eddy

DATE: January 9, 2008
PROJECT NO.: 5506



01-09-2008

PO Box 341
Office: 919-557-4682

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I. Introduction

On various dates in 2006, a preliminary site evaluation for use of on-site sewage disposal systems was completed for proposed Parker Springs Subdivision in east Chatham County. The 87 acre tract (*PIN 9773-60-6982.000*) evaluated for this proposed subdivision is located east of Mount Gilead Church Road, immediately east of the intersection of Mount Gilead Church Road and Silverberry Road. After the preliminary site evaluation was completed, proposed lot lines were flagged, and a more detailed evaluation was completed for each proposed lot. The detailed site evaluation was completed on various dates in 2007.

Concurrent with the detailed soil evaluation for each lot, proposed septic system nitrification fields were flagged on all lots. Several lots will utilize off-site or remote nitrification fields for waste treatment and disposal. Remote nitrification fields will be installed on individual parcels that are perpetually tied by deed to the lot served, as long as the remote nitrification field is required. Proposed nitrification lines for all remote systems have been flagged as well. Plans illustrating flagged nitrification fields and house locations are included with this report to illustrate that each lot does have sufficient space for a complete initial system and full repair if needed. Additionally, the large majority of nitrification fields (*45 of 50*) were flagged with individual lines spaced on 10-foot centers, regardless of soil depth. This purpose for this approach is to provide for an additional factor of safety in individual designs as well as to readily accommodate LPP or subsurface drip system layouts where required. The 5 remaining lots have individual nitrification lines flagged on 9-foot centers, due to exceptional soil depth that should easily accommodate conventional nitrification trenches.

II. Status of Site Improvements and Vegetative Cover

The entire tract is covered with forest vegetation of various ages and degrees of maturity. The only improvements observed on the site include remnants of an abandoned structure and cemetery near the east boundary of the site. A soil road leads to the observed improvements. Other improvements may be present but were not observed.

III. Method of Evaluation and Soil Moisture Conditions

Soils on the site were evaluated using a combination of hand auger borings and soil pits installed using a tracked excavator. The entire detailed evaluation was completed during drought conditions, hence observed soil moisture was minimal. Outside of jurisdictional streams, no standing water was observed at any location on the site.

IV. Soils Analysis

According to the Chatham County Soil Survey, the site is covered by soils of the Badin-Nanford Complex, Cid-Lignum Complex, Georgeville Series, Georgeville-Badin Complex and Nanford-Badin Complex. Each of these soils has moderate limitations for septic system nitrification fields due to slow percolation rates. Provisionally suitable soils represented by the above listed soil series have formed in Carolina Slate Belt rocks and other fine grained rocks.

Floodprone areas of the site were not evaluated due to their unsuitable landscape position. Additionally, several areas on the property were found to be unsuitable or potentially unsuitable for conventional nitrification fields due to improvements listed above, shallow depth to expansive or mixed-mineralogy clays, saprolite or bedrock, landscape position, compaction, gullies, remnant ditches from past land use activities and/or evidence of a shallow seasonal high water table. Soil suitability observations for each auger boring and soil pit are detailed on high

visibility flagging. Mitchell Environmental staff utilize a color coding system to indicate the provisionally suitable soil depth range as follows:

- Red : 36"+
- Pink and Black stripe : 30" to < 36"
- Blue and White stripe : 24" to < 30"
- Yellow : 18" to < 24"
- Orange and Yellow combination : 12" to < 18"
- Orange : < 12"

The attached map indicates the approximate boundary of provisionally suitable soil depth ranges on the site. Observed soils on this site exhibit various controlling textures including clay loam, silty clay loam, silty clay and clay. Conventional sewage systems for proposed lots should be designed for a long-term acceptance rate of 0.3-0.275 gpd/ft² for conventional trench systems and 0.15-0.075 gpd/ft² for nitrification fields that utilize pressure distribution and LPP or subsurface drip dispersal.

V. Proposed Use and Source of Water Supply

Upon approval, the site will be subdivided into 50 lots for 4 or 5 bedroom, single-family homes. Individual septic systems will be installed on each lot or on off-site/remote nitrification fields. Potable water will be supplied by a connection to the Chatham County public water supply system.

VI. Certification Statement

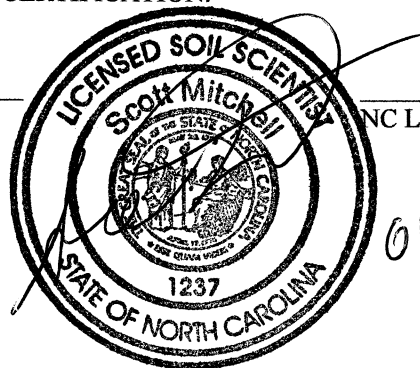
CERTIFICATION OF REVIEW BY LICENSED SOIL SCIENTIST

I HEREBY CERTIFY THAT LOT(S) 1-50 SHOWN ON THIS PLAT FOR PARKER SPRINGS SUBDIVISION HAVE BEEN REVIEWED AS APPROPRIATE AND WITH RESPECT TO THE LAWS AND RULES FOR SEWAGE TREATMENT AND DISPOSAL SYSTEMS IN NORTH CAROLINA (*15A NCAC 18A .1900*) AS AMENDED FROM TIME TO TIME. AS OF THIS DATE, AND BASED ON THIS REVIEW OF EXISTING SITE CONDITIONS THE LOTS NUMBERED ABOVE ON THIS PLAT WILL PRESUMABLY MEET THESE REGULATIONS.

PRELIMINARY CERTIFICATION DOES NOT REPRESENT APPROVAL OR A PERMIT FOR ANY SITE WORK, NOR DOES IT GUARANTEE ISSUANCE OF AN IMPROVEMENT PERMIT FOR ANY LOT. FINAL SITE APPROVAL FOR ISSUANCE OF IMPROVEMENT PERMITS IS BASED ON REGULATIONS IN FORCE AT THE TIME OF PERMITTING AND IS DEPENDENT ON SATISFACTORY COMPLETION OF INDIVIDUAL SITE EVALUATIONS FOLLOWING APPLICATION FOR AN IMPROVEMENT PERMIT DETAILING A SPECIFIC USE AND SITING.

ANY CHANGE IN USE OR ANY SITE ALTERATION MAY RESULT IN SUSPENSION OR REVOCATION OF CERTIFICATION.

DATE



LICENSED SOIL SCIENTIST (SEAL)

01-09-2008

Representative Soil Profile Descriptions

Soil Profile Description

Project: Parker Springs #5506
 Date: 11/3/2007
 Location ID: Off Site - K
 Landscape Position: Ridge top
 Completed By: Jeff Bullard
 Weather Conditions: Sunny
 Slope: 0-6%
 Mitchell Environmental, PA

Horizon	Depth (inches)	Texture	Matrix Color (Munsell Moist)	Mottles or Redoximorphic Features		Structure			Consistence		
				Color (Munsell Moist)	Abundance	Type	Grade	Class	Moist	Stickiness	Plasticity
A	0-10	CL	7.5YR 5/6	-	-	SBK	2	VF	FR	SS	SP
B1	10 - 30	SIC L	2.5YR 4/8	-	-	SBK	2	VF	FR	SS	SP
B2	30 - 36+	SIC L	2.5YR 4/8	10YR 5/6	20%	SBK	2	VF	FR	SS	SP

Suitability Class											
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Restrictive Horizons Encountered? _____

If So, At What Depth(s)? _____

Overall Suitability: _____

Comments: _____

Soil Profile Description

Project: Parker Springs #5506
 Date: 11/3/2007
 Location ID: Grave yard area (near lot 19)
 Landscape Position: Ridge top

Completed By: Jeff Bullard
 Mitchell Environmental, PA
 Weather Conditions: Sunny
 Slope: 0-2%

Horizon	Depth (inches)	Texture	Matrix Color (Munsell Moist)	Mottles or Redoximorphic Features		Structure		Consistence			
				Color (Munsell Moist)	Abundance	Type	Grade	Class	Moist	Stickiness	Plasticity
O	0-2		10YR 3/2	-	-				FR	SO	PO
A	2-10	SIC	7.5YR 5/4	2.5YR 6/2 // 5YR 4/4	multicolor	GR	1	F	FR	MS	MP
B	10-24	SC	7.5YR 5/8	2.5YR 6/2 // 5YR 4/6	multicolor	PR	3	2-2.5"	FI	VS	VP
C	24+	SC	10YR 6/6	multicolor		MA	0	2-2.5"	FI	MS	PO

Suitability Class

Restrictive Horizons Encountered? _____

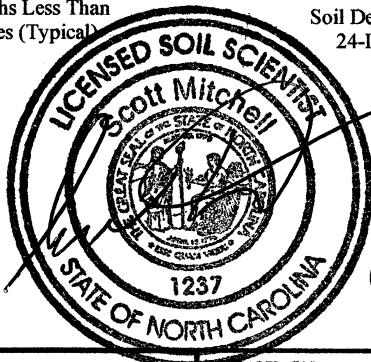
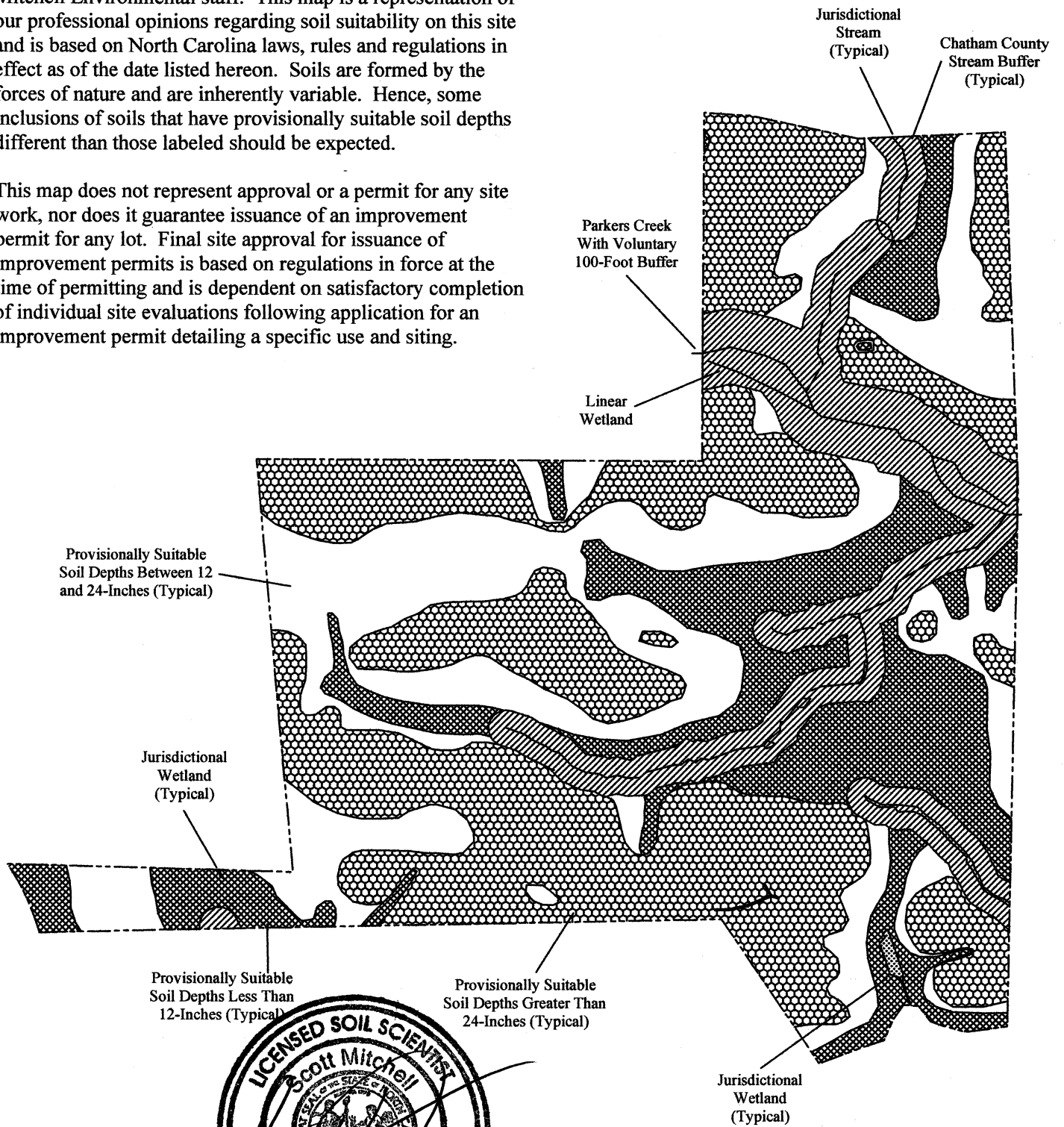
If So, At What Depth(s)? _____

Overall Suitability: _____

Comments: _____

This map illustrates soil suitability observations made by Mitchell Environmental staff. This map is a representation of our professional opinions regarding soil suitability on this site and is based on North Carolina laws, rules and regulations in effect as of the date listed hereon. Soils are formed by the forces of nature and are inherently variable. Hence, some inclusions of soils that have provisionally suitable soil depths different than those labeled should be expected.

This map does not represent approval or a permit for any site work, nor does it guarantee issuance of an improvement permit for any lot. Final site approval for issuance of improvement permits is based on regulations in force at the time of permitting and is dependent on satisfactory completion of individual site evaluations following application for an improvement permit detailing a specific use and siting.



01-08-2008



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PREPARED FOR: Parker Springs, LLC
 318 West Millbrook Road
 Raleigh, North Carolina 27609

DATE: January 8, 2007 SCALE: 1" = 400'

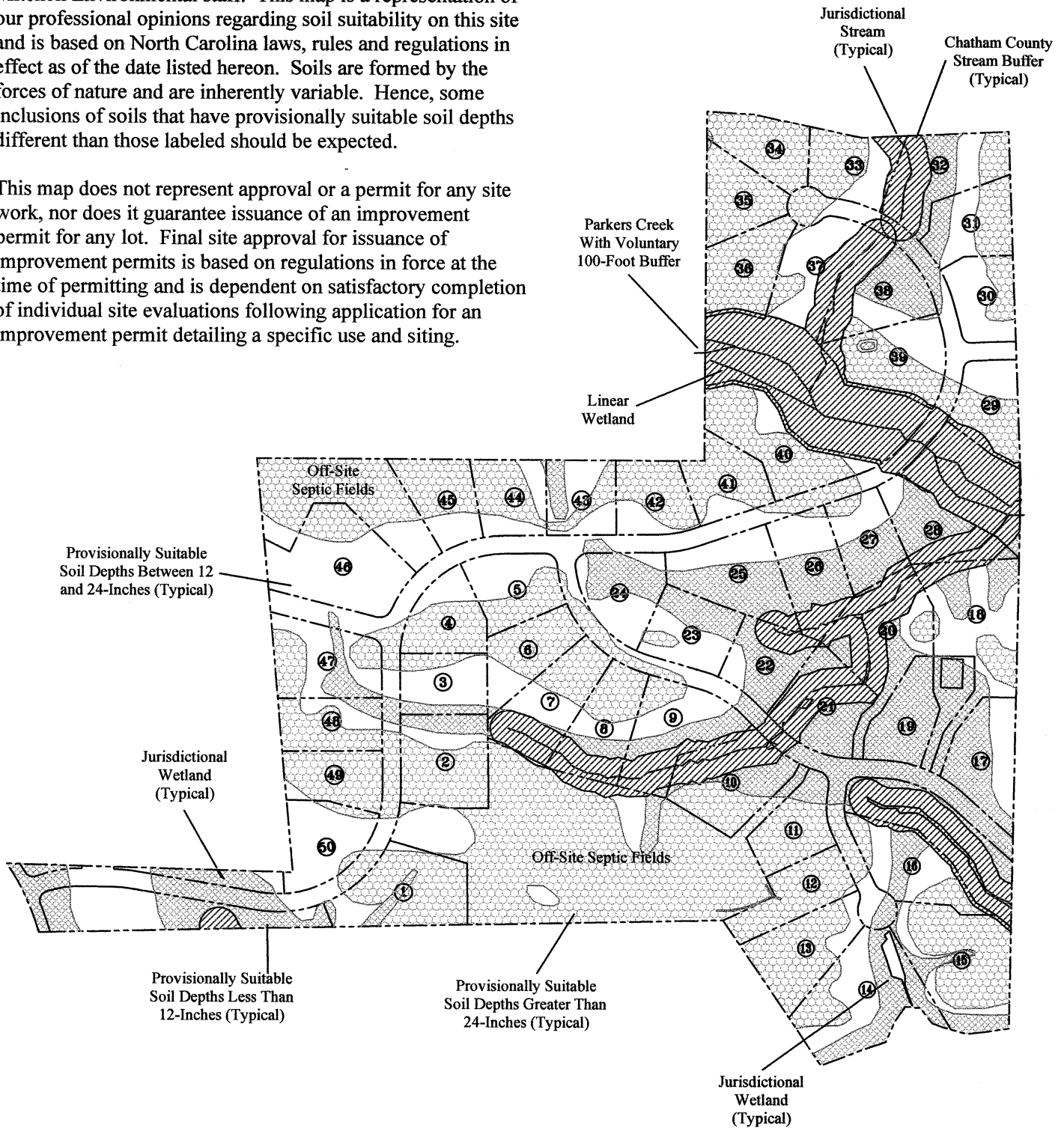
SOIL SCIENTIST CONTACT:
 SCOTT MITCHELL, PE, LSS

PARKER SPRINGS S/D
CHATHAM COUNTY

**OVERALL SOIL
 SUITABILITY MAP**

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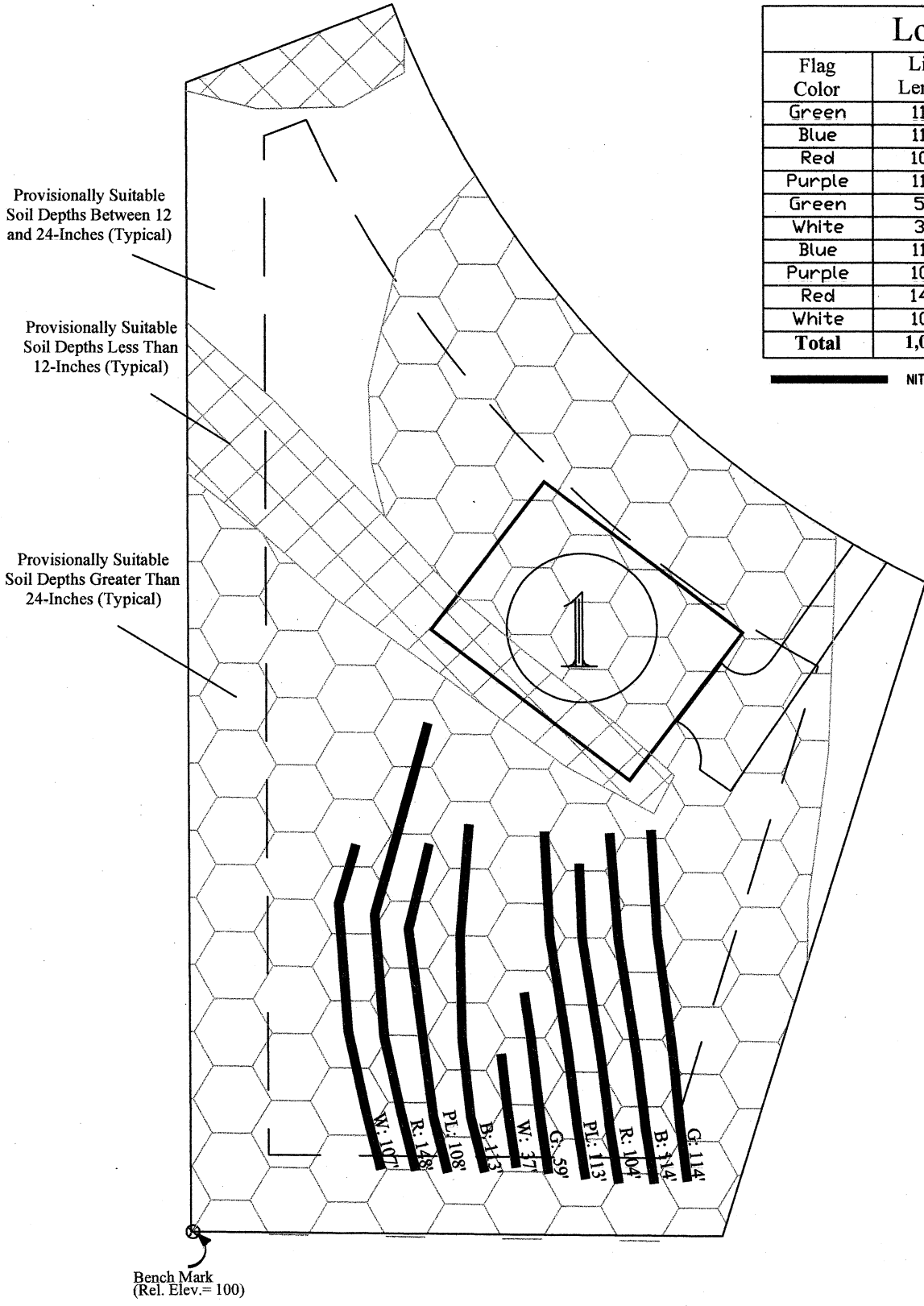
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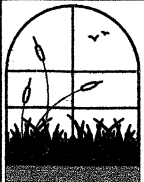
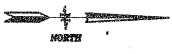
PARKER SPRINGS S/D
CHATHAM COUNTY
OVERALL SOIL SUITABILITY
MAP (WITH LOTS)



Lot 1		
Flag Color	Line Length	Relative Elevation
Green	114'	105.9
Blue	114'	105.8
Red	104'	105
Purple	113'	104.6
Green	59'	104.6
White	37'	104.2
Blue	113'	103.6
Purple	108'	102.8
Red	148'	102
White	107'	101.7
Total	1,017'	

————— NITRIFICATION LINES

Note: Nitrification Lines Flagged on 10-Foot Centers.



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PREPARED FOR: *Parker Springs, LLC*
 c/o Rusty Ammons

DATE: JAN 8, 2008 SCALE: 1" = 50'

SOIL SCIENTIST CONTACT:
 SCOTT MITCHELL, PE, LSS

PARKER SPRINGS
 CHATHAM COUNTY, NC

LOT 1
 INITIAL & REPAIR SYSTEM

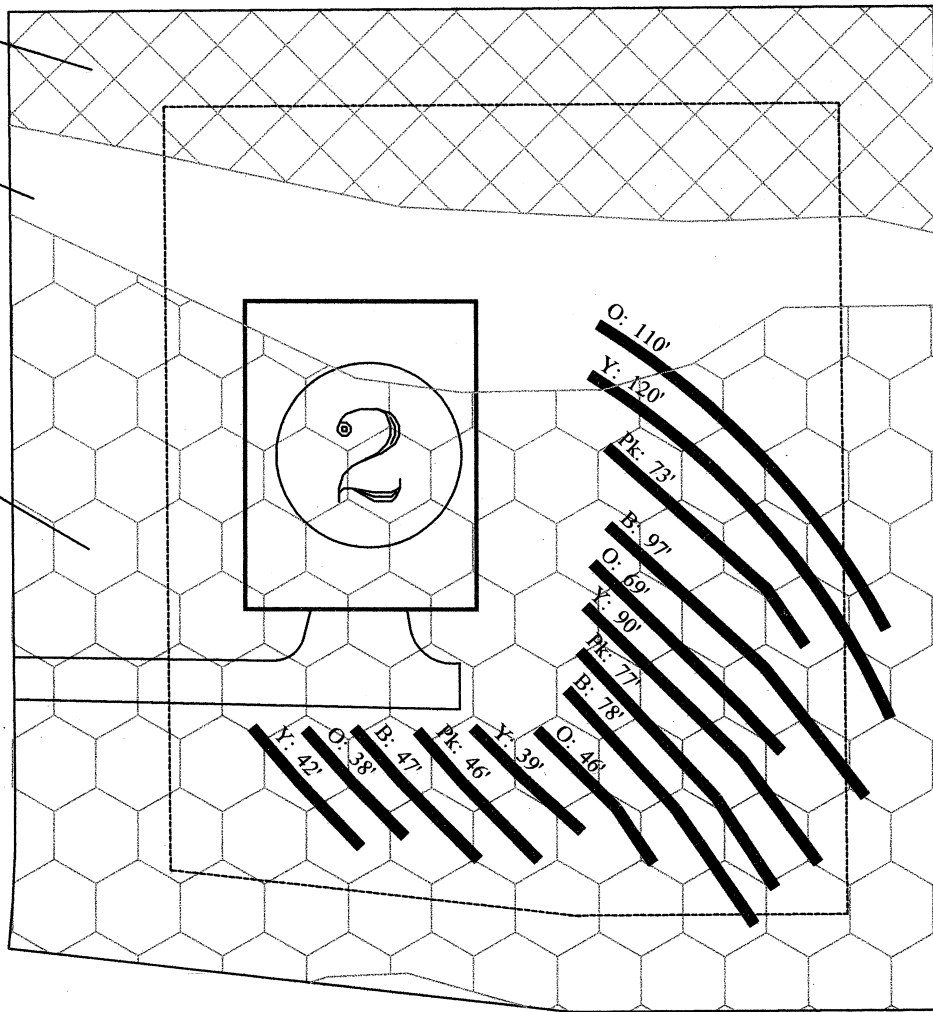
Lot 2		
Flag Color	Line Length	Relative Elevation
Yellow	42'	105.8
Orange	38'	105.3
Blue	47'	105
Pink	46'	104.6
Yellow	39'	103.9
Orange	46'	103.8
Blue	78'	103.2
Pink	77'	102.9
Yellow	90'	102.2
Orange	70'	101.8
Blue	100'	101.1
Pink	75'	100.7
Yellow	130'	99.6
Orange	120'	98.7
Total	993'	

————— NITRIFICATION LINES

Provisionally Suitable
Soil Depths Less Than
12-Inches (Typical)

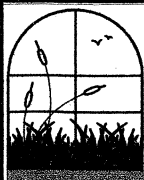
Provisionally Suitable
Soil Depths Between 12
and 24-Inches (Typical)

Provisionally Suitable
Soil Depths Greater Than
24-Inches (Typical)



Note: Nitrification
Lines Flagged on
10-Foot Centers.

Bench Mark
(Rel. Elev. = 100)



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PARKER SPRINGS
CHATHAM COUNTY, NC

LOT 2
INITIAL SYSTEM

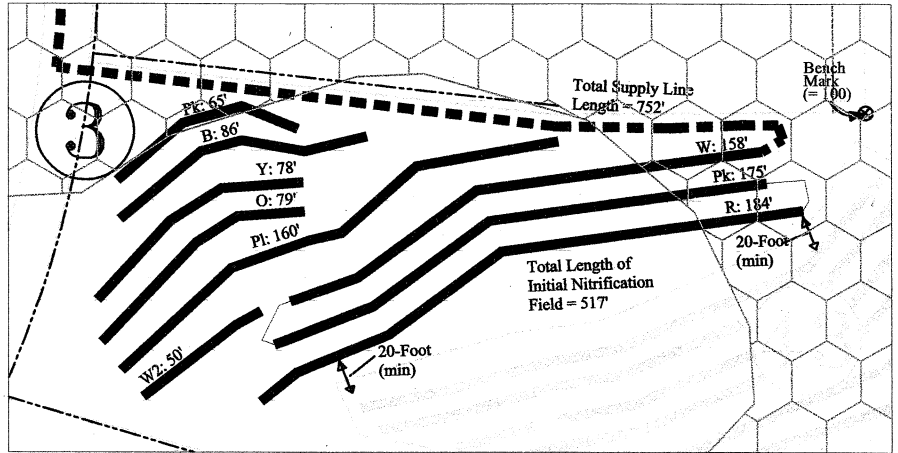
Serial Distribution System

Detail View (Scale: 1" = 60')

Lot 3 - Offsite Field		
Flag Color	Line Length	Relative Elevation
Pink	65'	100.4
Blue	86'	99.5
Yellow	78'	99.5
Orange	79'	98.9
Purple	160'	98
White	208'	97.3
Pink	175'	96.7
Red	184'	96.1
Total	1,035'	

 NITRIFICATION LINES
 REMOTE SEPTIC SUPPLY LINES

Note: Nitrification Lines Flagged on 10-Foot Centers.

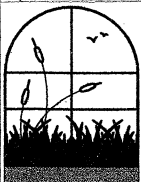
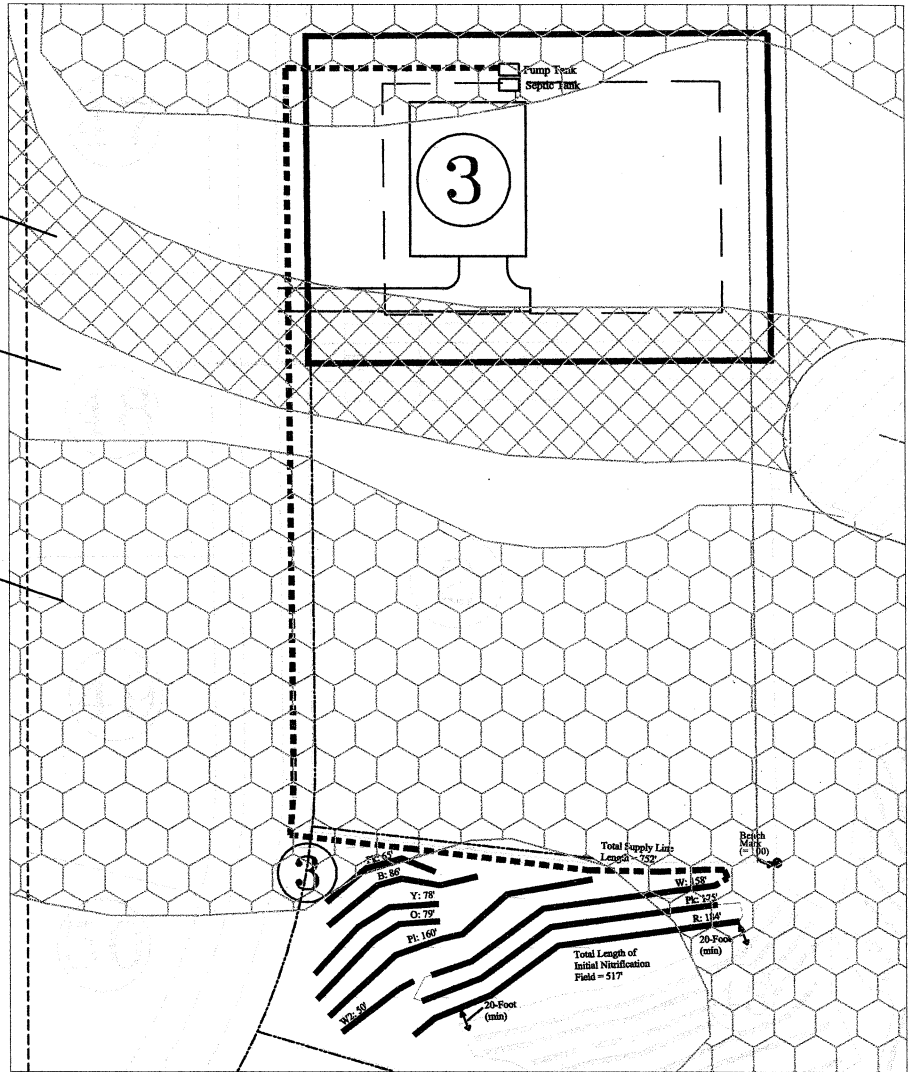


Overview (Scale: 1" = 100')

Provisionally Suitable Soil Depths Less Than 12-Inches (Typical)

Provisionally Suitable Soil Depths Between 12 and 24-Inches (Typical)

Provisionally Suitable Soil Depths Greater Than 24-Inches (Typical)



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 c/o Rusty Ammons

DATE: JAN 8, 2008

SCALE: See above

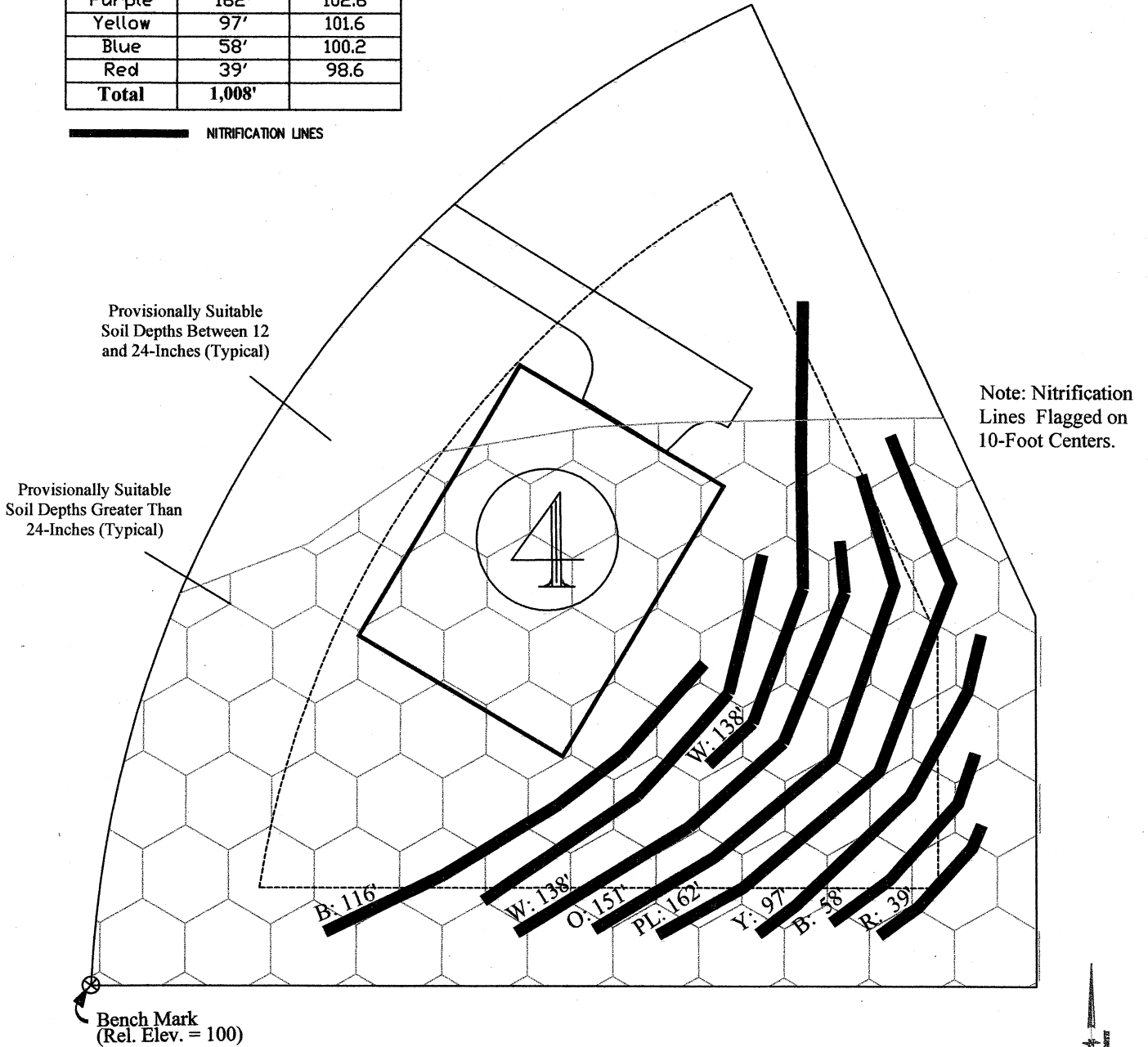
SOIL SCIENTIST CONTACT:
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PARKER SPRINGS
 RALEIGH, NC - CHATHAM COUNTY

LOT 3
INITIAL & REPAIR SYSTEM

Lot 4		
Flag Color	Line Length	Relative Elevation
Blue	116'	108.7
Red	122'	108
Pink	125'	106.7
White	138'	105.4
Orange	151'	104.2
Purple	162'	102.6
Yellow	97'	101.6
Blue	58'	100.2
Red	39'	98.6
Total	1,008'	

————— NITRIFICATION LINES



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PREPARED FOR: *Parker Springs, LLC*
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DATE: JAN 8, 2008

SCALE: 1" = 40'

SOIL SCIENTIST CONTACT:



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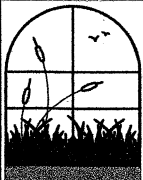
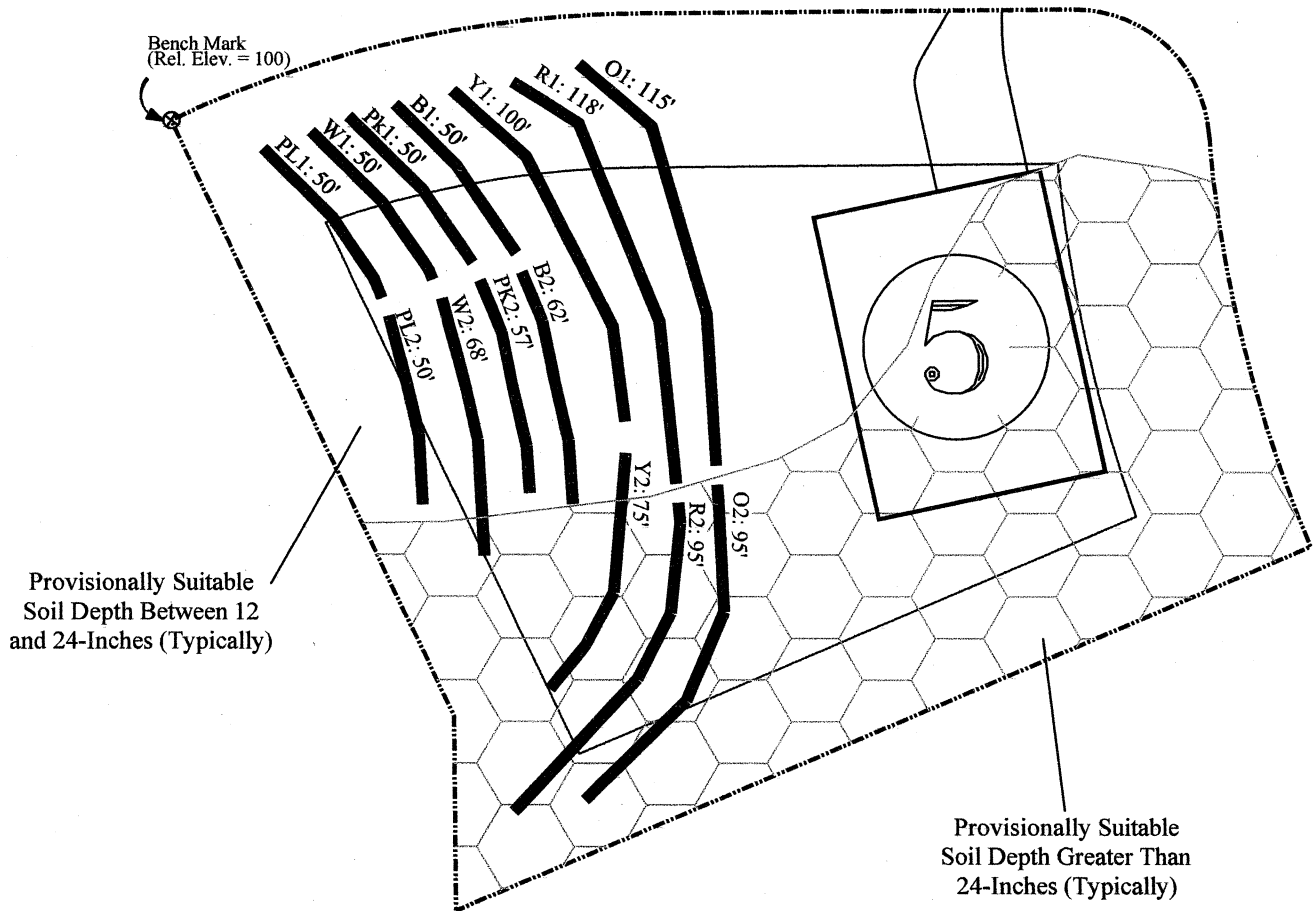
PARKER SPRINGS
CHATHAM COUNTY, NC

LOT 4
INITIAL & REPAIR SYSTEM

Lot 5		
Flag Color	Line Length	Relative Elevation
Purple	105'	108.5
White	123'	107.7
Pink	112'	107.2
Blue	117'	106.3
Yellow	180'	105.4
Red	218'	104.3
Orange	215'	103.4
Total	1,070'	

Note: Nitrification Lines Flagged on 10-Foot Centers.

 FLAGGED NITRIFICATION LINE
 HOUSE FOOT PRINT = 80' X 60'



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c/o **Rusty Ammons**

DATE: JAN 8, 2008

SCALE: 1" = 50'

SOIL SCIENTIST CONTACT:

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PARKER SPRINGS
 CHATHAM COUNTY, NC

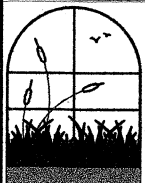
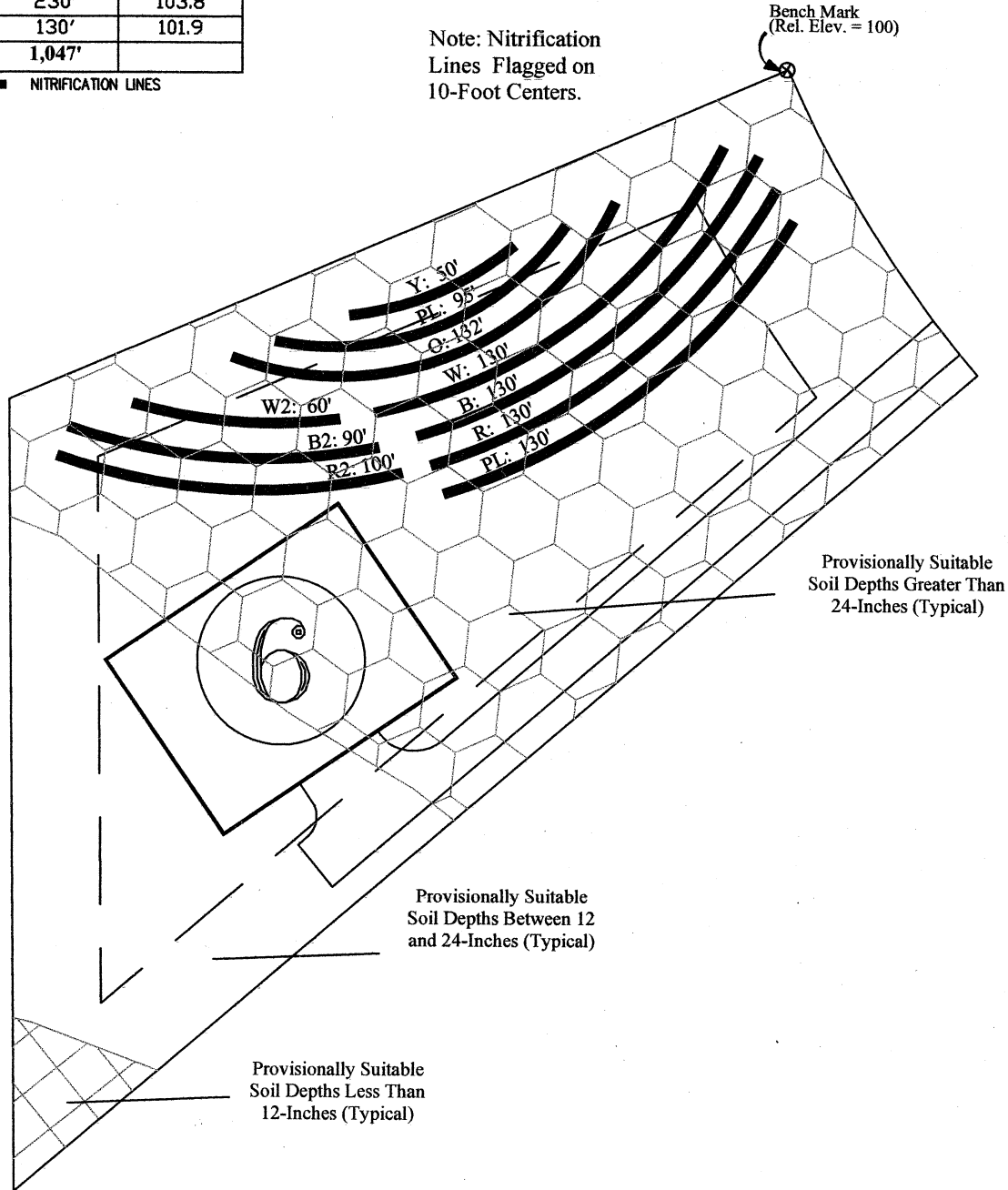
LOT 5
INITIAL & REPAIR SYSTEM

Lot 6		
Flag Color	Line Length	Relative Elevation
Yellow	50'	110.6
Pink	95'	109.7
Orange	132'	108.7
White	190'	107.3
Blue	220'	105.6
Red	230'	103.8
Purple	130'	101.9
Total	1,047'	

————— NITRIFICATION LINES

Note: Nitrification Lines Flagged on 10-Foot Centers.

Bench Mark
(Rel. Elev. = 100)



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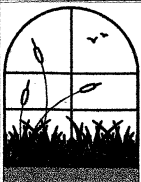
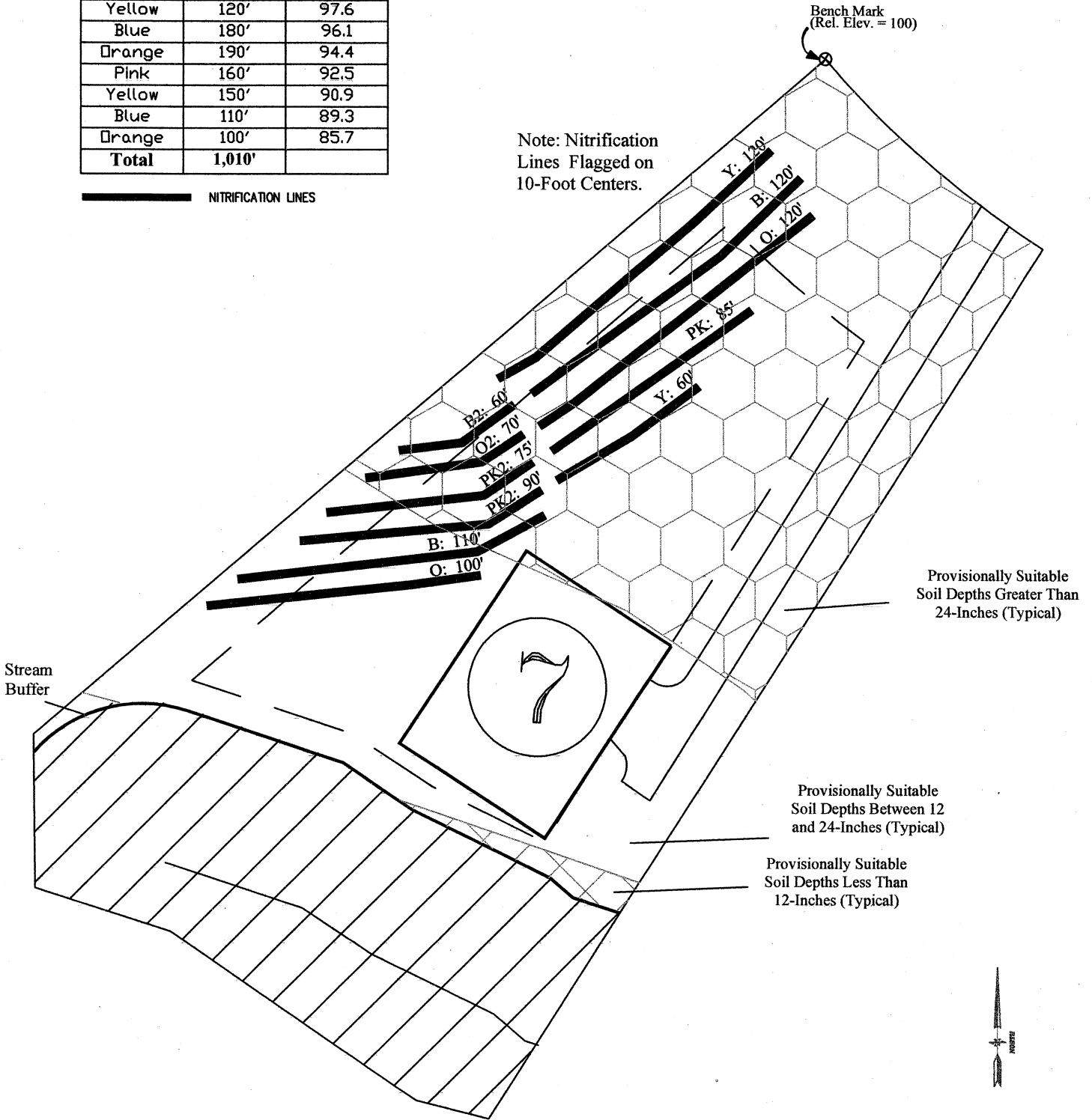
PARKER SPRINGS
CHATHAM COUNTY, NC

LOT 6
INITIAL & REPAIR SYSTEM

Lot 7		
Flag Color	Line Length	Relative Elevation
Yellow	120'	97.6
Blue	180'	96.1
Orange	190'	94.4
Pink	160'	92.5
Yellow	150'	90.9
Blue	110'	89.3
Orange	100'	85.7
Total	1,010'	

———— NITRIFICATION LINES

Note: Nitrification Lines Flagged on 10-Foot Centers.



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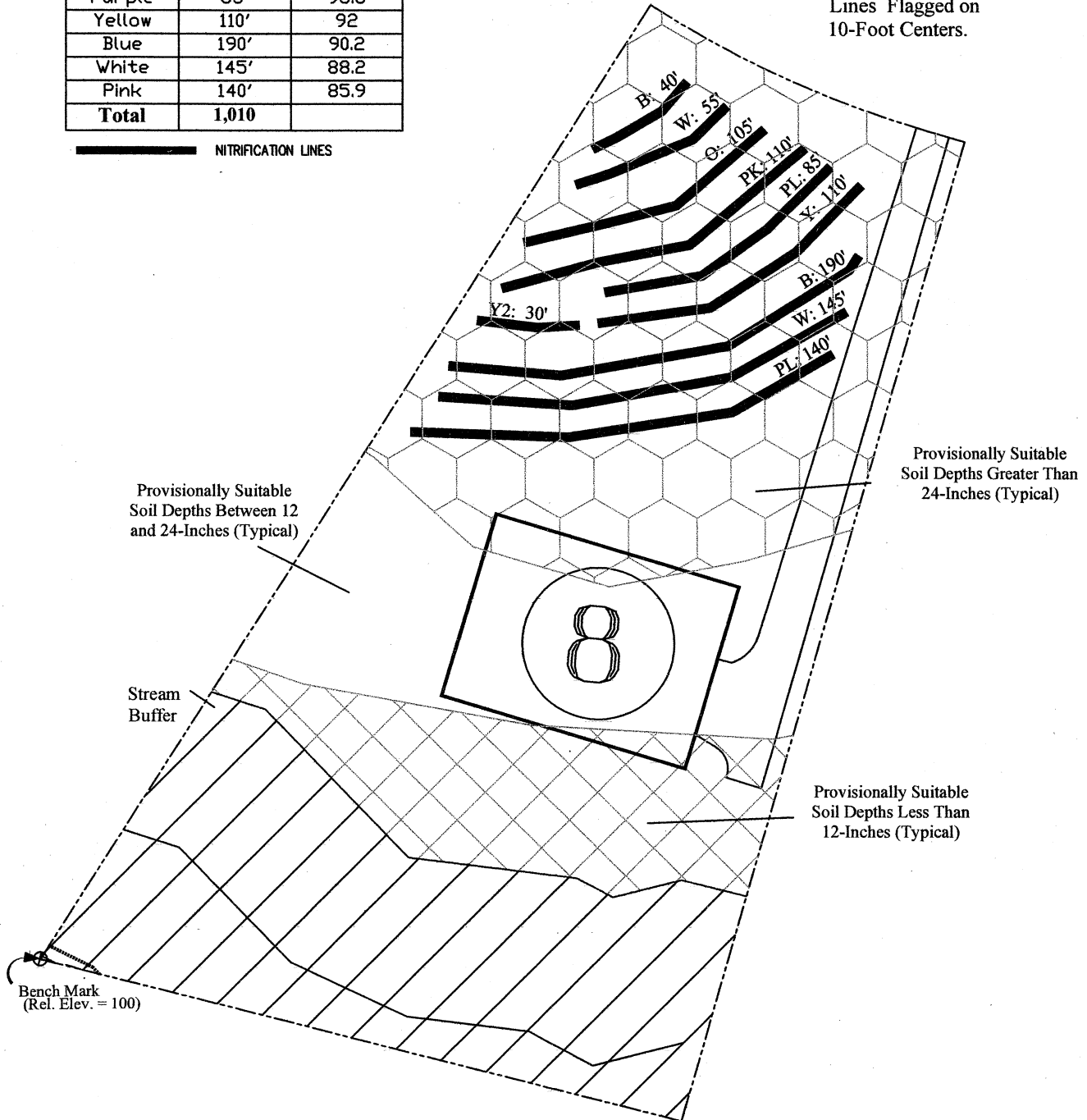
PARKER SPRINGS
CHATHAM COUNTY, NC

LOT 07
INITIAL & REPAIR SYSTEM

Lot 8		
Flag Color	Line Length	Relative Elevation
Blue	40'	98.9
White	55'	98.2
Orange	105'	97
Pink	110'	95.2
Purple	85'	93.6
Yellow	110'	92
Blue	190'	90.2
White	145'	88.2
Pink	140'	85.9
Total	1,010	

————— NITRIFICATION LINES

Note: Nitrification Lines Flagged on 10-Foot Centers.



Provisionally Suitable Soil Depths Between 12 and 24-Inches (Typical)

Provisionally Suitable Soil Depths Greater Than 24-Inches (Typical)

Stream Buffer

Provisionally Suitable Soil Depths Less Than 12-Inches (Typical)

Bench Mark (Rel. Elev. = 100)



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DATE: JAN 8, 2008

SCALE: 1" = 50'

SOIL SCIENTIST CONTACT:
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PARKER SPRINGS
CHATHAM COUNTY, NC

LOT 8
INITIAL & REPAIR SYSTEM

Lot 9

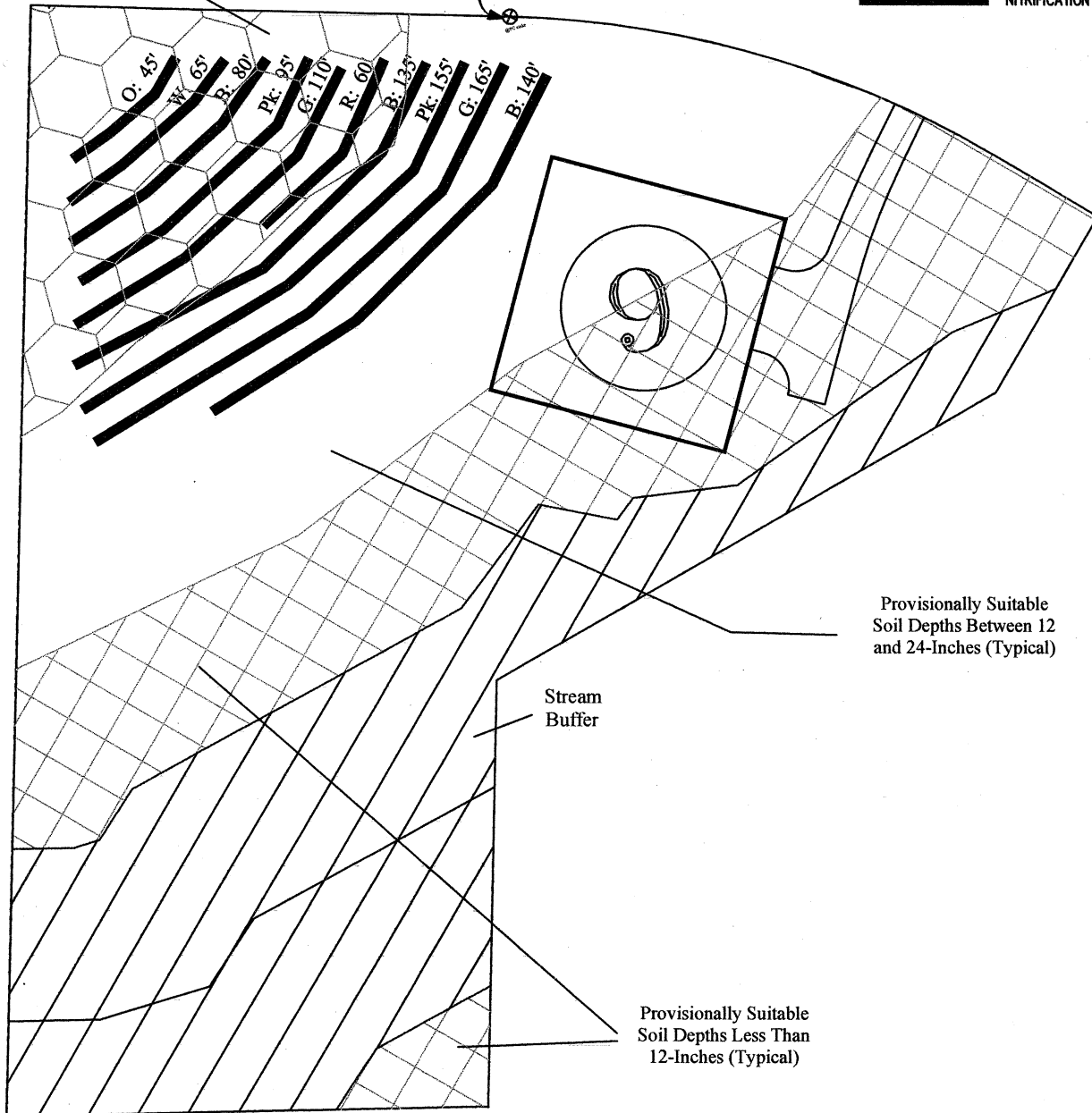
Note: Nitrification Lines Flagged on 10-Foot Centers.

Flag Color	Line Length	Relative Elevation
Orange	45'	105.7
White	65'	104.3
Blue	80'	103.1
Pink	90'	101.8
Green	110'	100.4
Red	60'	99.4
Blue	135'	97.6
Pink	155'	95.8
Green	165'	93.9
Blue	140'	91.7
Total	1,045	

NITRIFICATION LINES

Provisionally Suitable Soil Depths Greater Than 24-Inches (Typical)

Bench Mark (Rel. Elev.=100)



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DATE: JAN 8, 2008 SCALE: 1" = 50'



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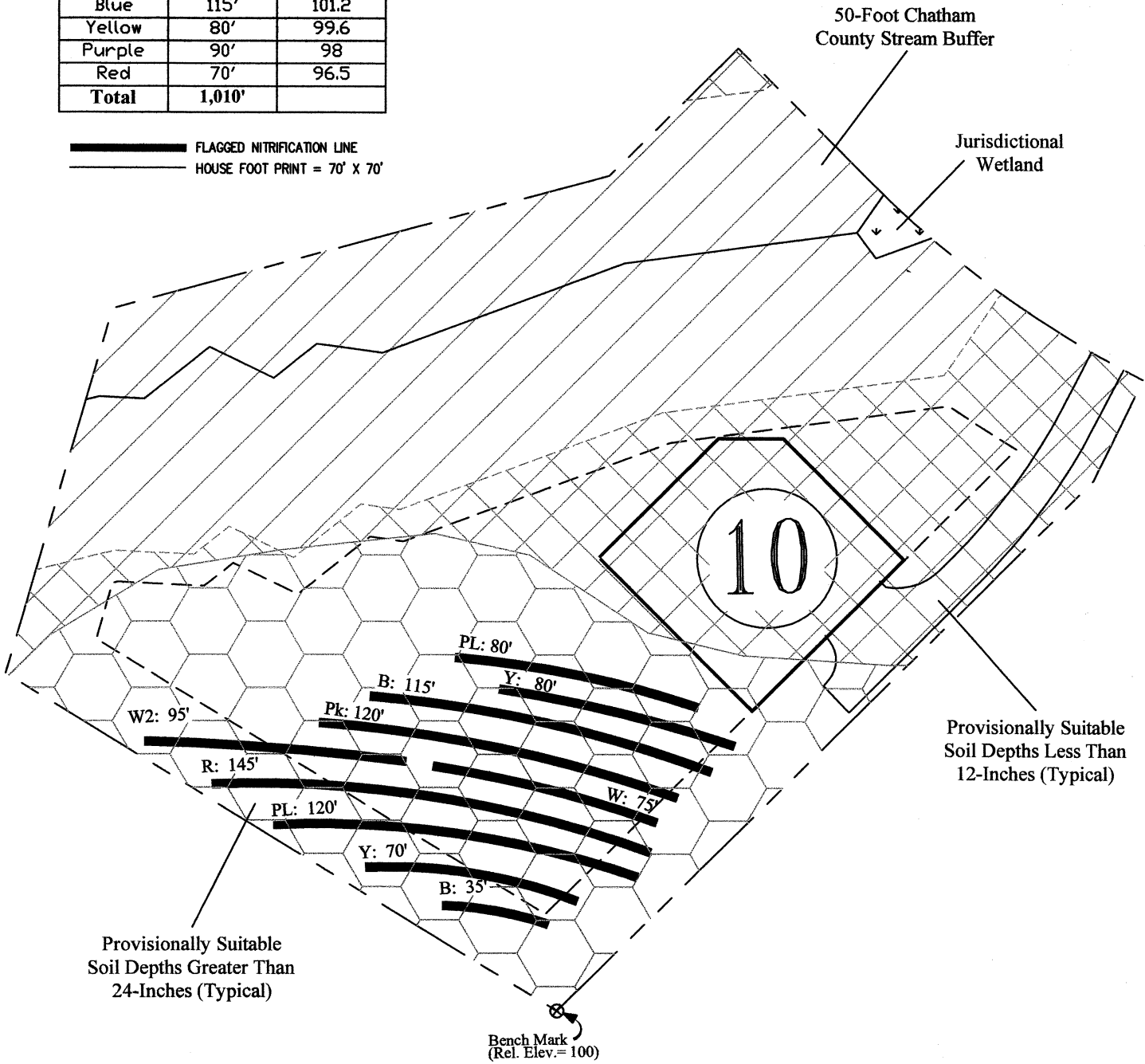
PARKER SPRINGS
 CHATHAM COUNTY, NC

LOT 9
 INITIAL & REPAIR SYSTEM

Lot 10		
Flag Color	Line Length	Relative Elevation
Blue	35'	108.6
Yellow	70'	107.7
Purple	120'	106.8
Red	145'	105.9
White	165'	105
Pink	120'	103
Blue	115'	101.2
Yellow	80'	99.6
Purple	90'	98
Red	70'	96.5
Total	1,010'	

Note: Nitrification Lines Flagged on 10-Foot Centers.

 FLAGGED NITRIFICATION LINE
 HOUSE FOOT PRINT = 70' X 70'



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c/o Rusty Ammons

DATE: January 8, 2008

SCALE: 1" = 50'

SOIL SCIENTIST CONTACT:



SCOTT MITCHELL, PE, LSS

PARKER SPRINGS
 CHATHAM COUNTY, NC

LOT 10
INITIAL & REPAIR SYSTEM

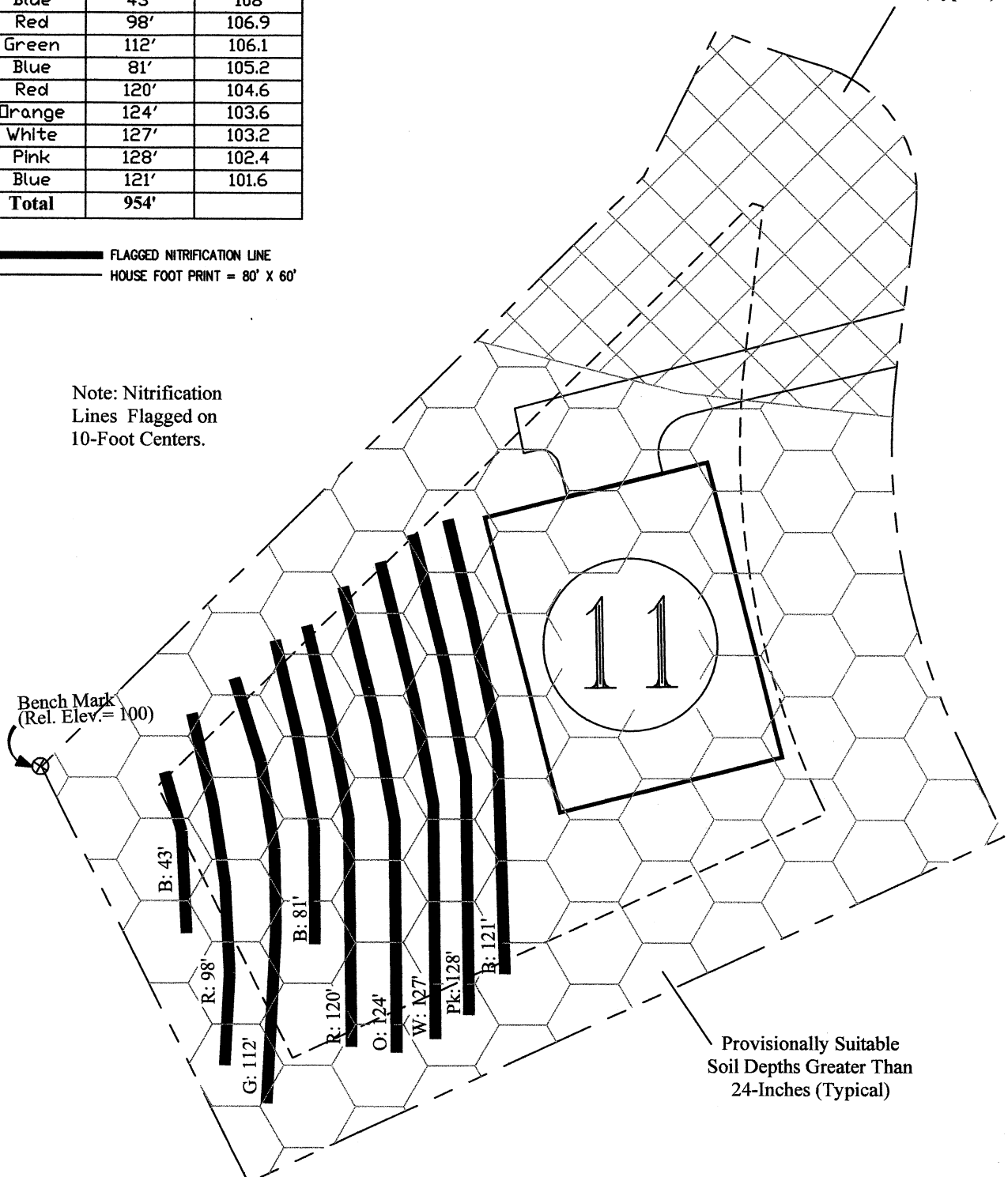
Lot 11		
Flag Color	Line Length	Relative Elevation
Blue	43'	108
Red	98'	106.9
Green	112'	106.1
Blue	81'	105.2
Red	120'	104.6
Orange	124'	103.6
White	127'	103.2
Pink	128'	102.4
Blue	121'	101.6
Total	954'	

Provisionally Suitable
Soil Depths Between 12
and 24-Inches (Typical)

 FLAGGED NITRIFICATION LINE
 HOUSE FOOT PRINT = 80' X 60'

Note: Nitrification
Lines Flagged on
10-Foot Centers.

Bench Mark
(Rel. Elev. = 100)



Provisionally Suitable
Soil Depths Greater Than
24-Inches (Typical)



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PREPARED FOR: *Parker Springs, LLC*
c/o *Rusty Ammons*

DATE: January 8, 2008

SCALE: 1" = 40'

SOIL SCIENTIST CONTACT:


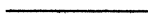
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PARKER SPRINGS
CHATHAM COUNTY, NC

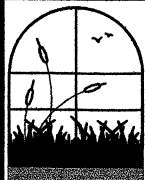
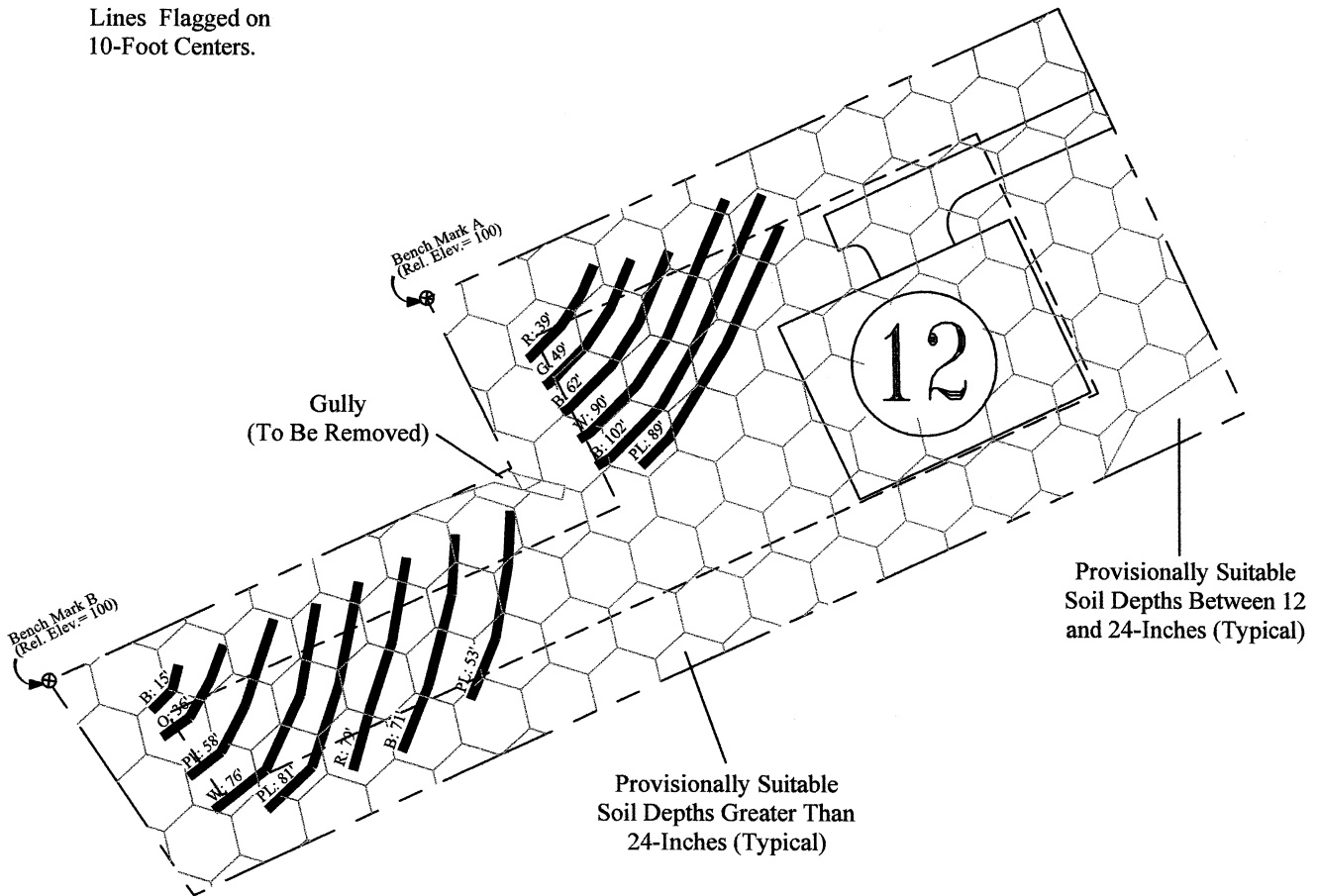
LOT 11
INITIAL & REPAIR SYSTEM

Lot 12A (initial)		
Flag Color	Line Length	Relative Elevation
Red	40'	95.3
Green	50'	94
Blue	60'	92.6
White	90'	90.9
Blue	102'	88.3
Purple	90'	87.7
Green	100'	86.8
Total	535'	

Lot 12B (repair)		
Flag Color	Line Length	Relative Elevation
Blue	15'	104.5
Orange	35'	104
Pink	60'	103.5
White	75'	103
Purple	80'	101.8
Red	80'	100.4
Blue	70'	99
Purple	55'	97.3
Total	470'	

 FLAGGED NITRIFICATION LINE
 HOUSE FOOT PRINT = 80' X 60'

Note: Nitrification Lines Flagged on 10-Foot Centers.



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PREPARED FOR: **Parker Springs, LLC**
c/o Rusty Ammons

DATE: January 8, 2008 SCALE: 1" = 60'

SOIL SCIENTIST CONTACT:
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 CHATHAM COUNTY, NC



LOT 12
INITIAL & REPAIR SYSTEM

Lot 13

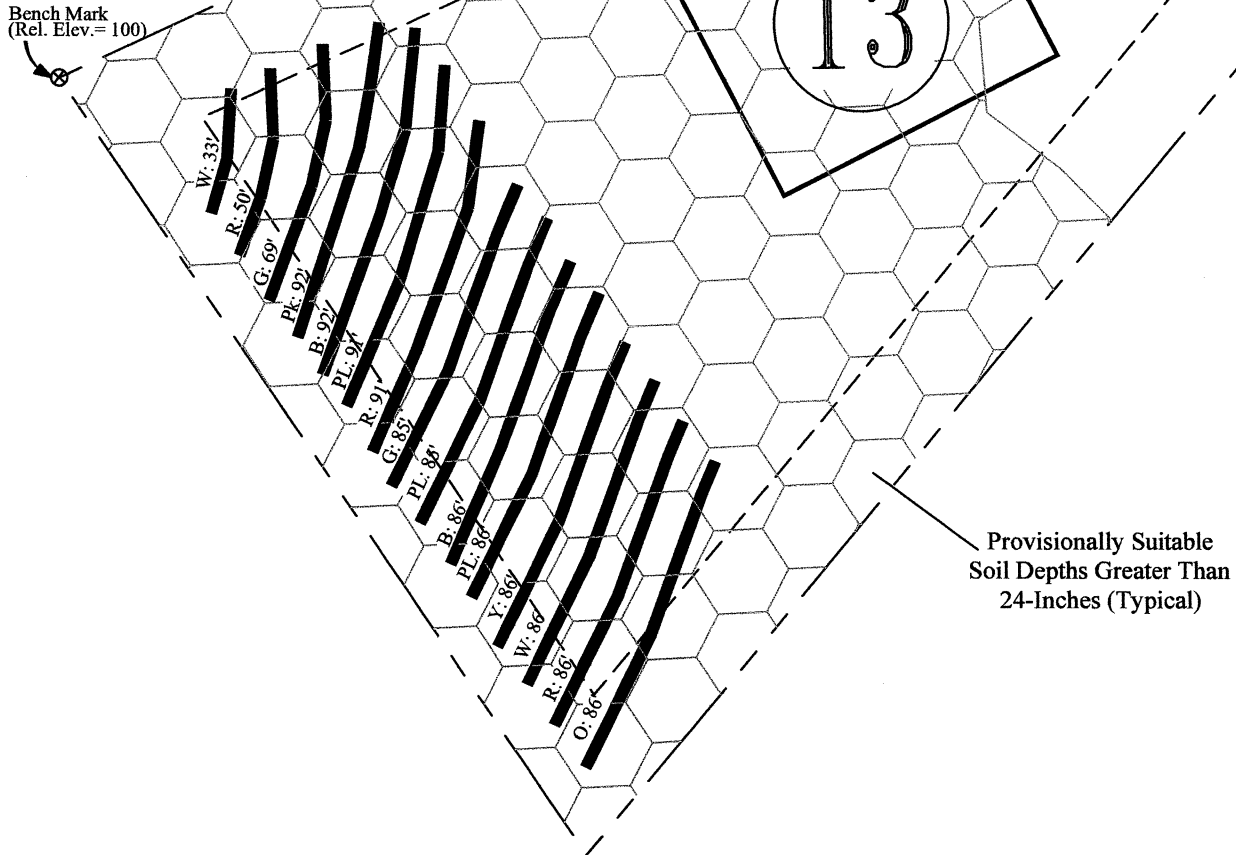
Flag Color	Line Length	Relative Elevation
White	35'	98.8
Red	50'	97.8
Green	70'	96.8
Pink	90'	95.9
Blue	95'	94.6
Purple	90'	94.1
Red	90'	93
Green	85'	91.9
Purple	85'	91
Blue	85'	90.2
Purple	85'	89.2
Yellow	85'	88.1
White	85'	87.4
Red	85'	86
Orange	85'	84.8
Total	1,195'	

Provisionally Suitable
Soil Depths Between 12
and 24-Inches (Typical)

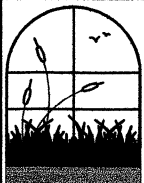
Note: Nitrification
Lines Flagged on
10-Foot Centers.

 FLAGGED NITRIFICATION LINE
 HOUSE FOOT PRINT = 80' X 60'

Bench Mark
(Rel. Elev. = 100)



Provisionally Suitable
Soil Depths Greater Than
24-Inches (Typical)



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DATE: January 8, 2008

SCALE: 1" = 50'

SOIL SCIENTIST CONTACT:



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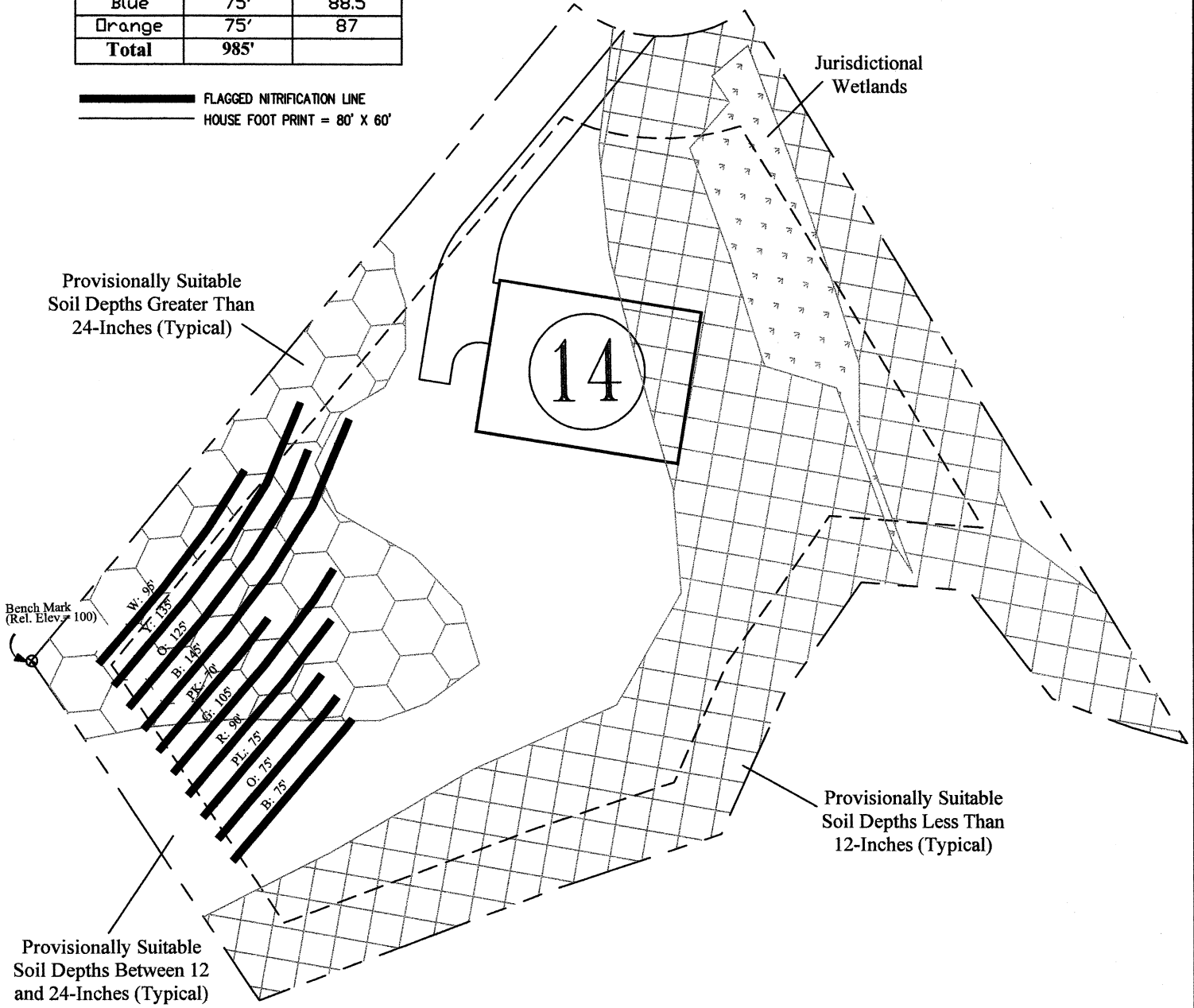
PARKER SPRINGS
CHATHAM COUNTY, NC

LOT 13
INITIAL & REPAIR SYSTEM

Lot 14		
Flag Color	Line Length	Relative Elevation
White	95'	98.9
Yellow	135'	97.7
Orange	125'	96.5
Blue	145'	95
Pink	70'	93.8
Green	105'	92.6
Red	90'	91.2
Purple	75'	89.8
Blue	75'	88.5
Orange	75'	87
Total	985'	

Note: Nitrification Lines Flagged on 10-Foot Centers.

 FLAGGED NITRIFICATION LINE
 HOUSE FOOT PRINT = 80' X 60'



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PREPARED FOR: *Parker Springs, LLC*
 c/o *Rusty Ammons*

DATE: January 8, 2008 SCALE: 1" = 60'

SOIL SCIENTIST CONTACT:
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PARKER SPRINGS
 CHATHAM COUNTY, NC

LOT 14
 INITIAL & REPAIR SYSTEM

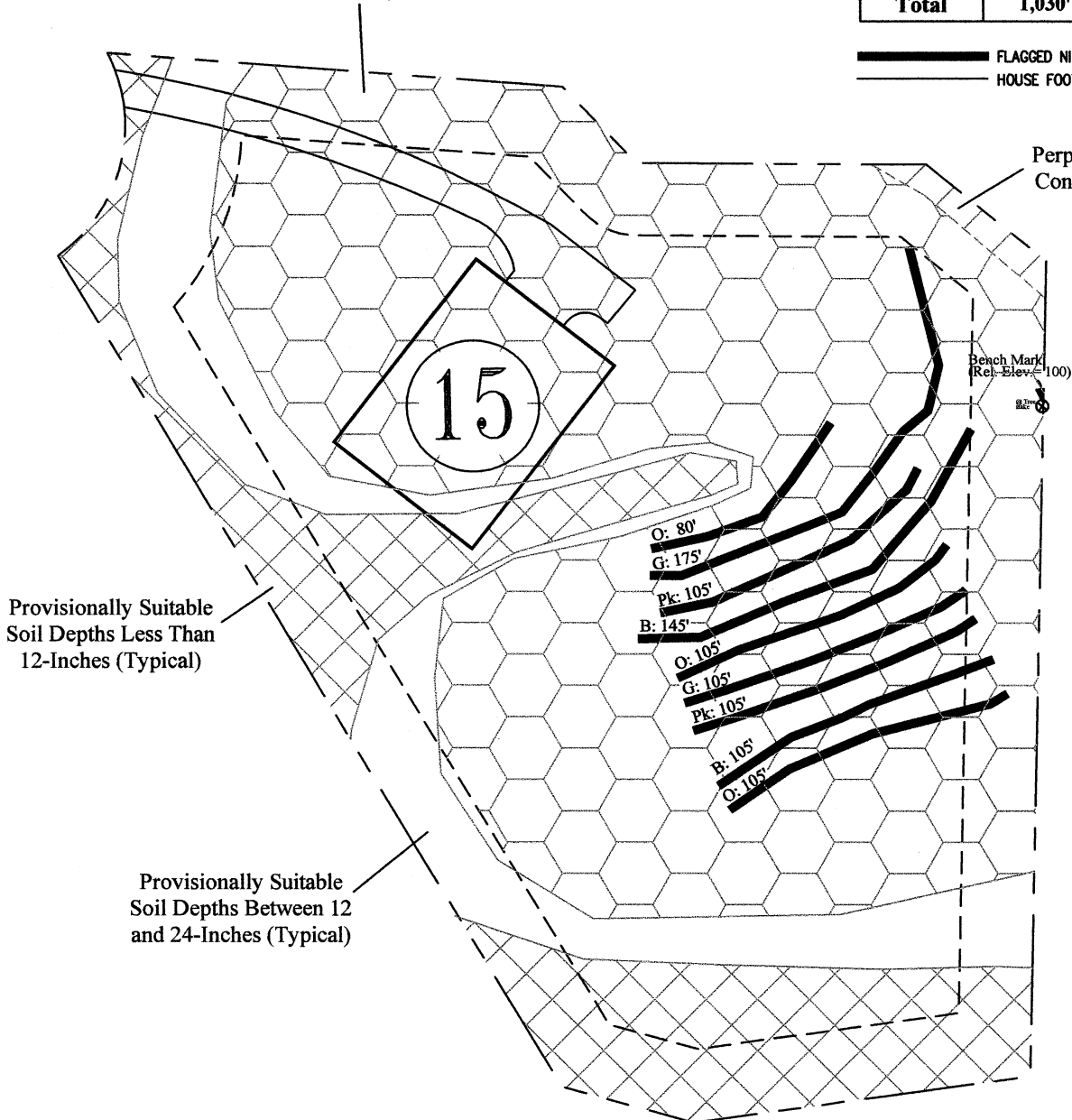
Note: Nitrification Lines Flagged on 10-Foot Centers.

Lot 15		
Flag Color	Line Length	Relative Elevation
Orange	80'	102.8
Green	175'	102.1
Pink	105'	101.1
Blue	145'	100.5
Orange	105'	99.5
Green	105'	97.8
Pink	105'	97.2
Blue	105'	95.6
Orange	105'	94.5
Total	1,030'	

Provisionally Suitable Soil Depths Greater Than 24-Inches (Typical)

 FLAGGED NITRIFICATION LINE
 HOUSE FOOT PRINT = 80' X 60'

Perpetual Stream Buffer Conservation Easement



Provisionally Suitable Soil Depths Less Than 12-Inches (Typical)

Provisionally Suitable Soil Depths Between 12 and 24-Inches (Typical)



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PREPARED FOR: **Parker Springs, LLC**
c/o Rusty Ammons

DATE: January 8, 2008 SCALE: 1" = 60'

SOIL SCIENTIST CONTACT:
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PARKER SPRINGS
 CHATHAM COUNTY, NC

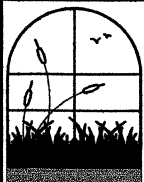
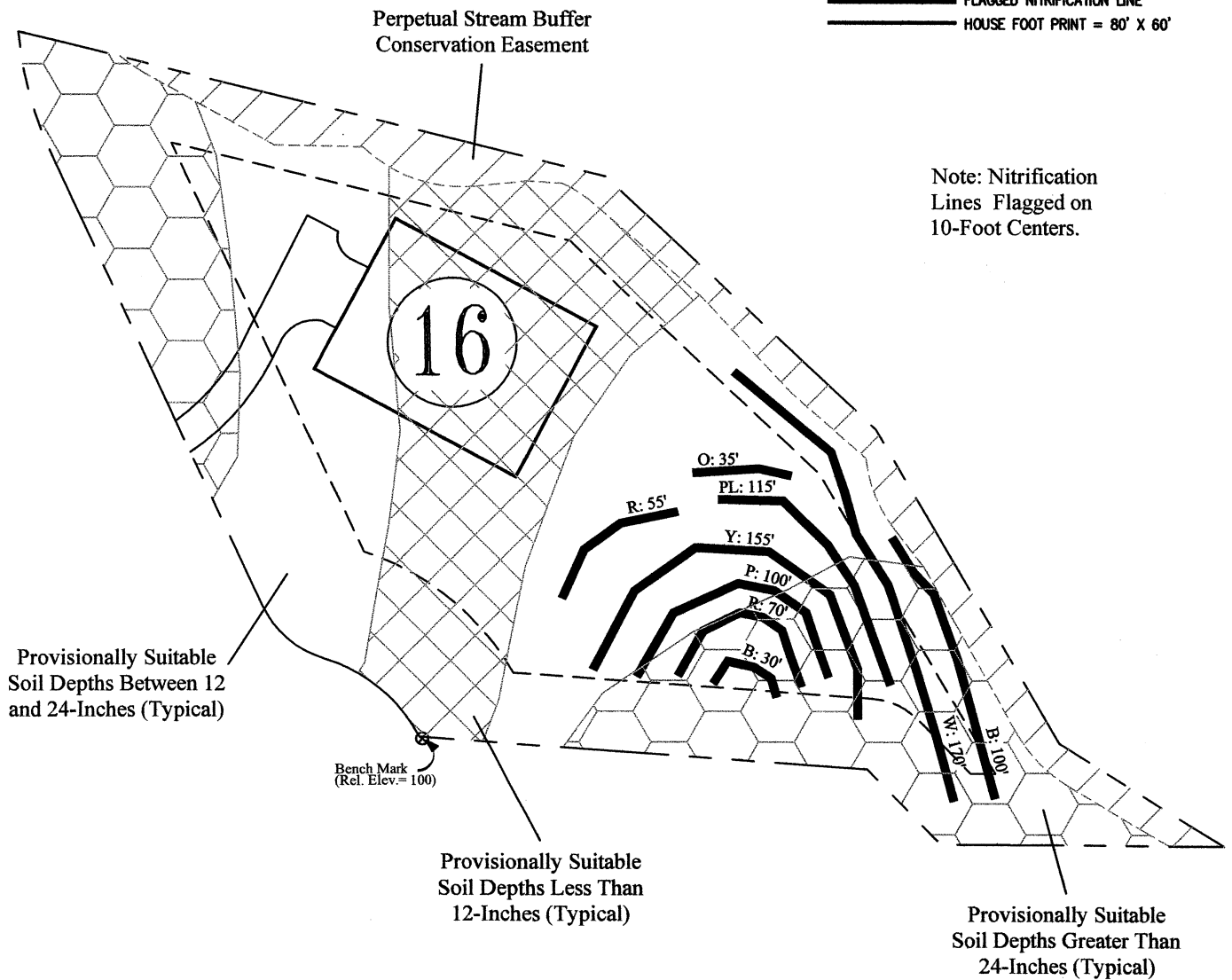
LOT 15
INITIAL & REPAIR SYSTEM

Lot 16

Flag Color	Line Length	Relative Elevation
Blue	30'	99.5
Red	70'	98.7
Pink	100'	98.4
Yellow	155'	97.8
Red	55'	96.9
Purple	115'	96.9
Orange	35'	96.3
White	170'	95.2
Blue	100'	94.1
Total	830'	

FLAGGED NITRIFICATION LINE
 HOUSE FOOT PRINT = 80' X 60'

Note: Nitrification Lines Flagged on 10-Foot Centers.



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SCALE: 1" = 60'

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CHATHAM COUNTY, NC

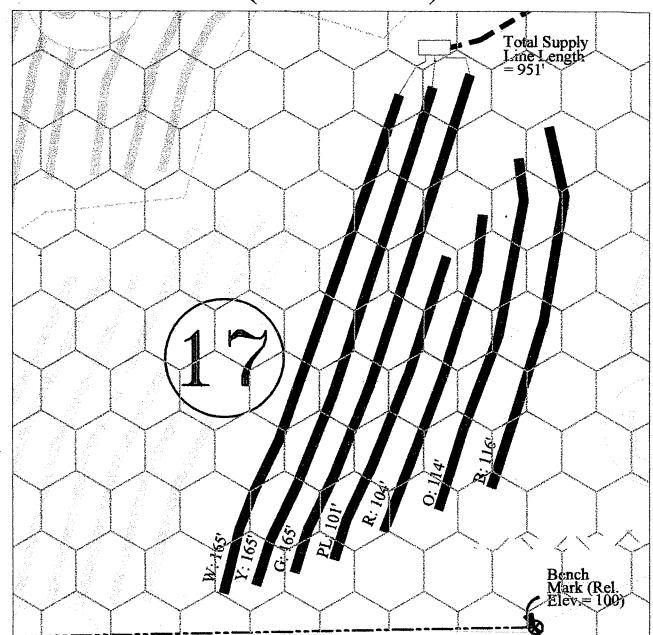
LOT 16
INITIAL & REPAIR SYSTEM

Lot 17 - Offsite Field		
Flag Color	Line Length	Relative Elevation
Blue	116'	107.3
Orange	114'	106.8
Red	104'	106.4
Purple	101'	105.9
Green	165'	104.5
Yellow	165'	103.5
White	165'	102.8
Total	930'	

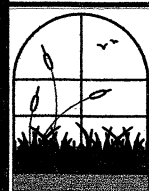
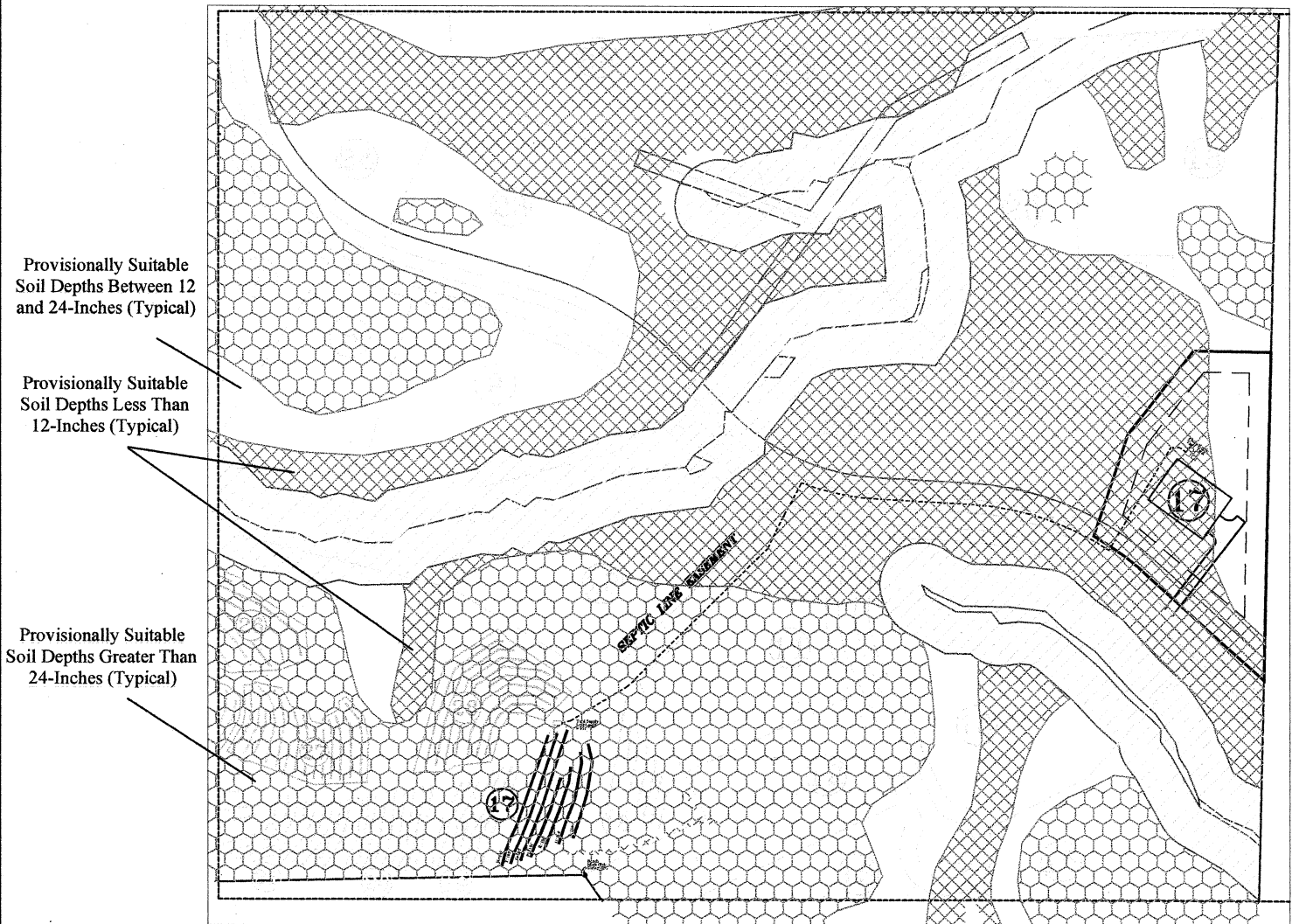
 NITRIFICATION LINES
 REMOTE SEPTIC SUPPLY LINES

Nitrification Lines Flagged on 10-Foot Centers.

Detail View (Scale: 1" = 60')



Overview (Scale: 1" = 200')



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 DATE: JAN 8, 2008 SCALE: See above
 SOIL SCIENTIST CONTACT:
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PARKER SPRINGS
 RALEIGH, NC - CHATHAM COUNTY
LOT 17
INITIAL & REPAIR SYSTEM

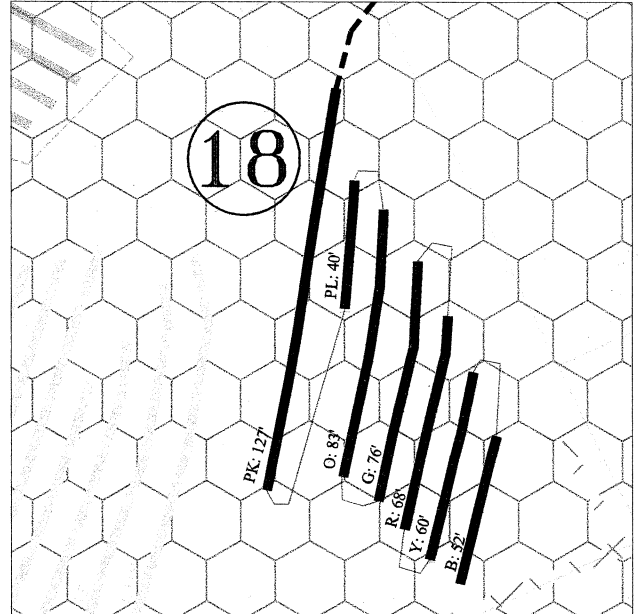
Lot 18 - Offsite Field

Flag Color	Line Length	Relative Elevation
Pink	127'	90.3
Purple	40'	90.6
Orange	83'	91.7
Green	76'	92.6
Red	68'	93.9
Yellow	60'	95
Blue	52'	96.2
Total	506'	

 NITRIFICATION LINES
 REMOTE SEPTIC SUPPLY LINE

Note: Nitrification Lines Flagged on 9-Foot Centers.

Detail View (Scale: 1" = 60')

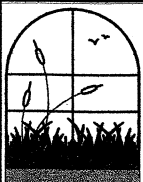
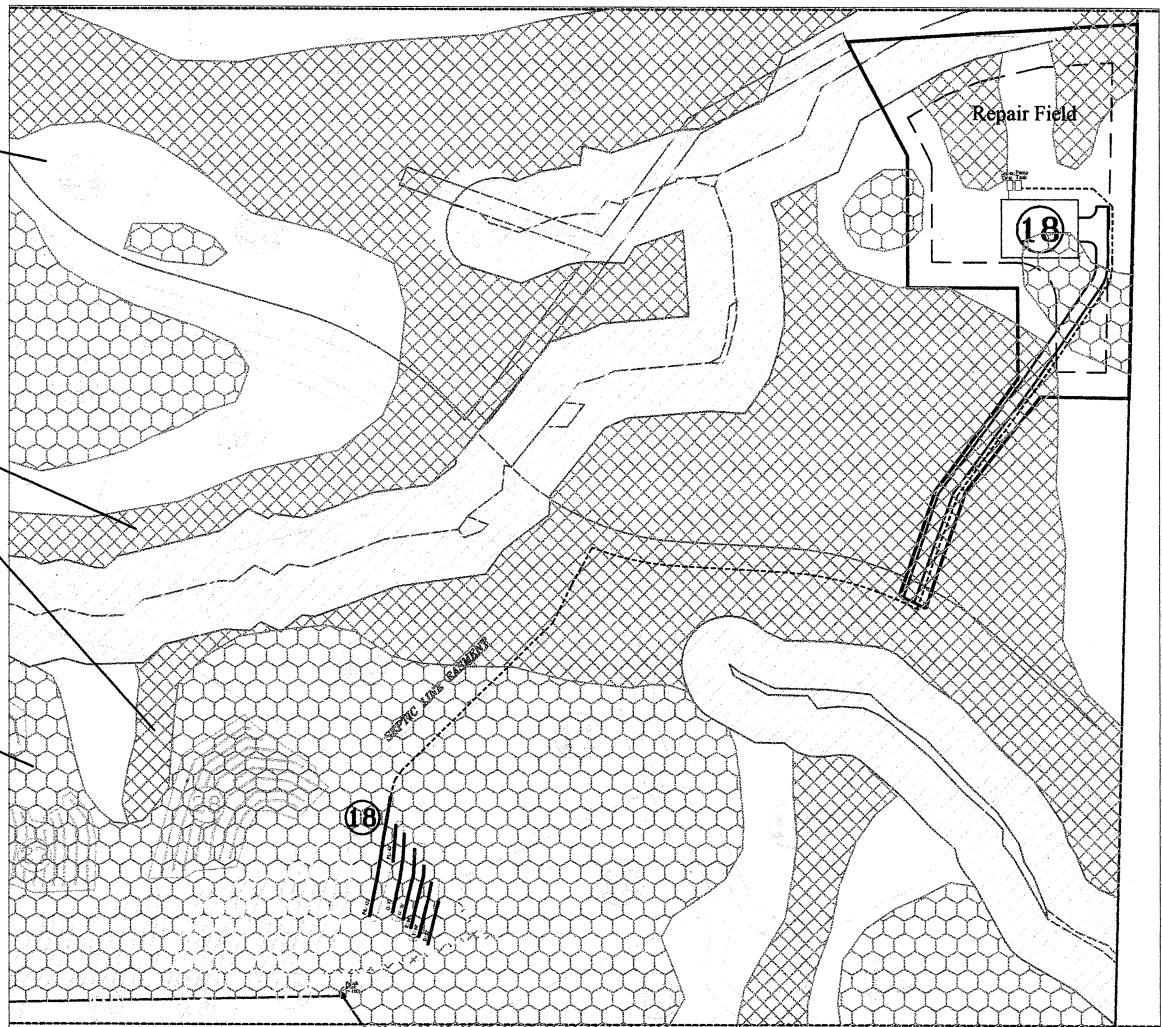


Overview (Scale: 1" = 200')

Provisionally Suitable Soil Depths Between 12 and 24-Inches (Typical)

Provisionally Suitable Soil Depths Less Than 12-Inches (Typical)

Provisionally Suitable Soil Depths Greater Than 24-Inches (Typical)



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DATE: JAN 8, 2008

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PARKER SPRINGS
RALEIGH, NC - CHATHAM COUNTY

LOT 18
INITIAL & REPAIR SYSTEM

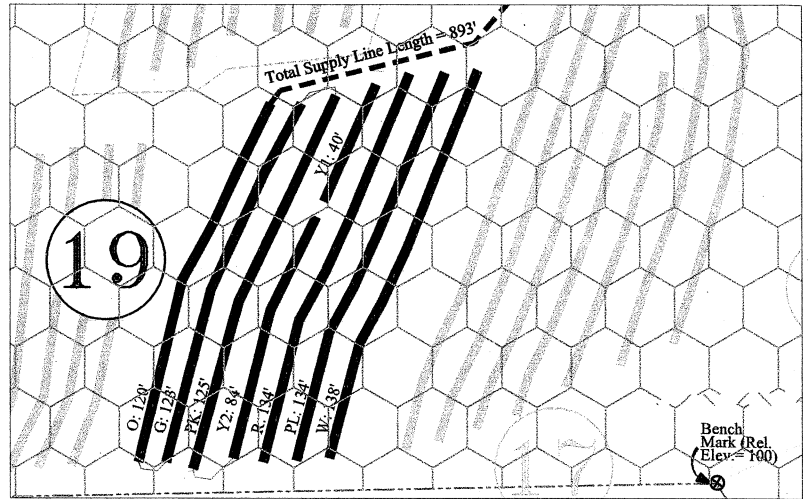
Serial Distribution System

Detail View (Scale: 1" = 60')

Lot 19 - Offsite Field		
Flag Color	Line Length	Relative Elevation
White	138'	91.3
Purple	134'	91.1
Red	134'	90.9
Yellow	124'	90.6
Pink	125'	90.5
Green	123'	90.4
Orange	120'	90.4
Total	898'	

 NITRIFICATION LINES
 REMOTE SEPTIC SUPPLY LINE

Note: Nitrification Lines Flagged on 9-Foot Centers.

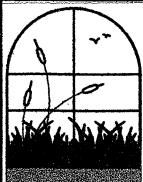
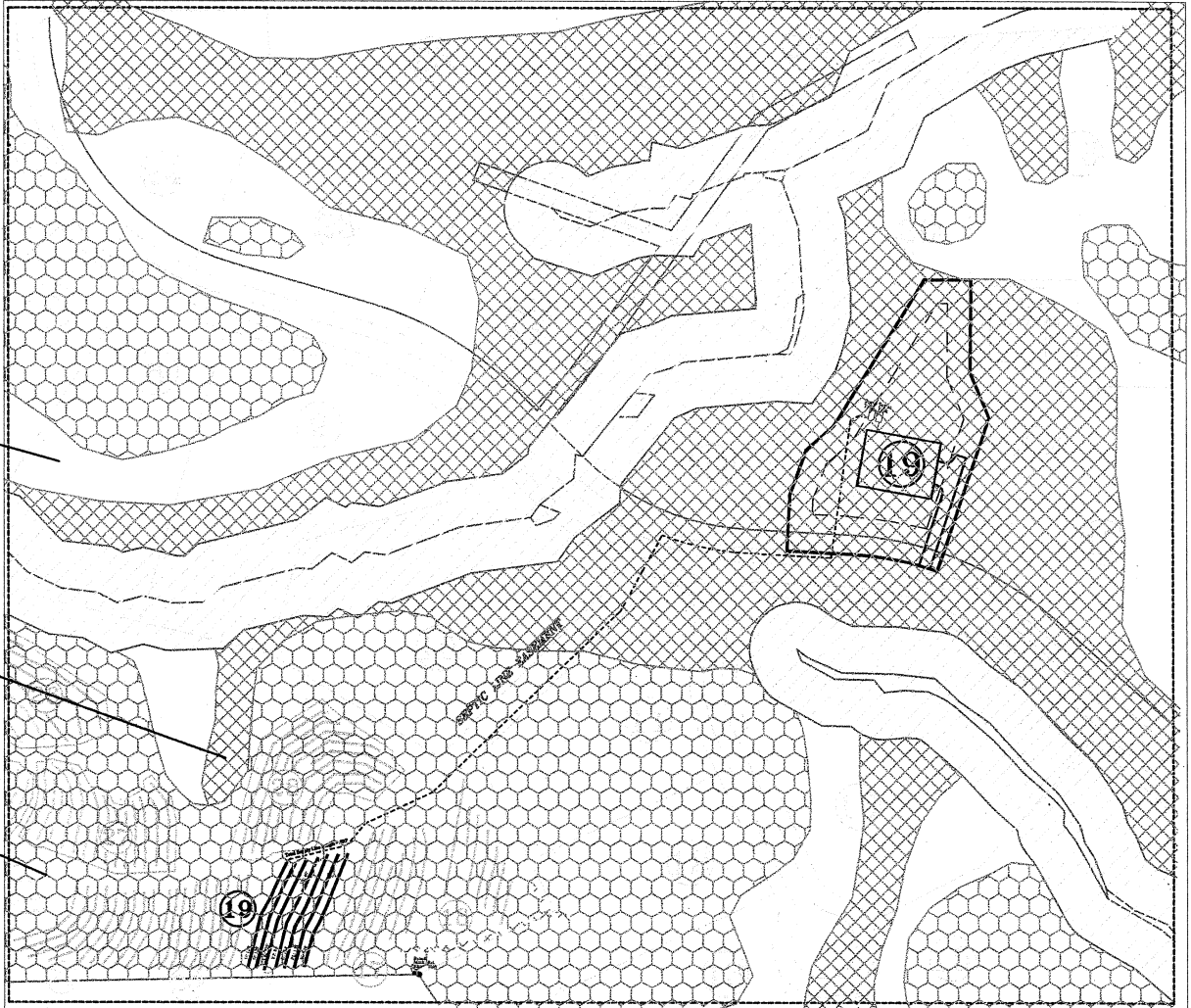


Overview (Scale: 1" = 200')

Provisionally Suitable Soil Depths Between 12 and 24-Inches (Typical)

Provisionally Suitable Soil Depths Less Than 12-Inches (Typical)

Provisionally Suitable Soil Depths Greater Than 24-Inches (Typical)



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SCALE: See above

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PARKER SPRINGS
 RALEIGH, NC - CHATHAM COUNTY

LOT 19
INITIAL & REPAIR SYSTEM

Lot 20 - Offsite Field

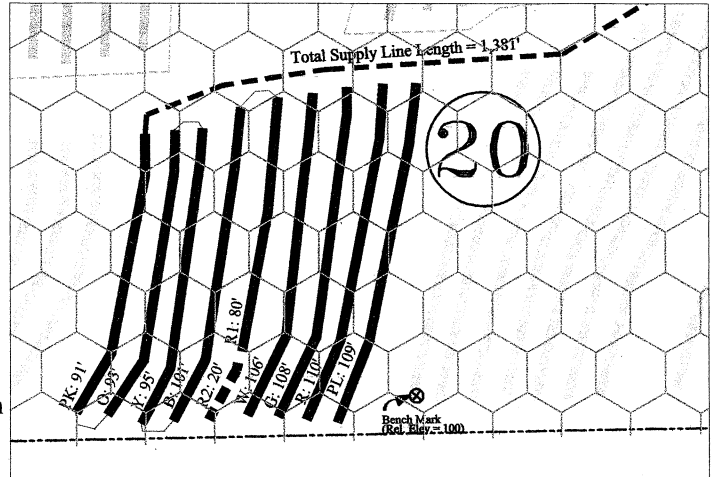
Flag Color	Line Length	Relative Elevation
Pink	91'	98.3
Orange	93'	98.3
Yellow	95'	98.7
Blue	101'	99
Red	100'	99.2
White	106'	99.4
Green	108'	99.6
Red	110'	99.6
Purple	109'	99.7
Total	913'	

 NITRIFICATION LINES
 REMOTE SEPTIC SUPPLY LINE

Note: Nitrification Lines Flagged on 9-Foot Centers.

Serial Distribution System

Detail View (Scale: 1" = 60')

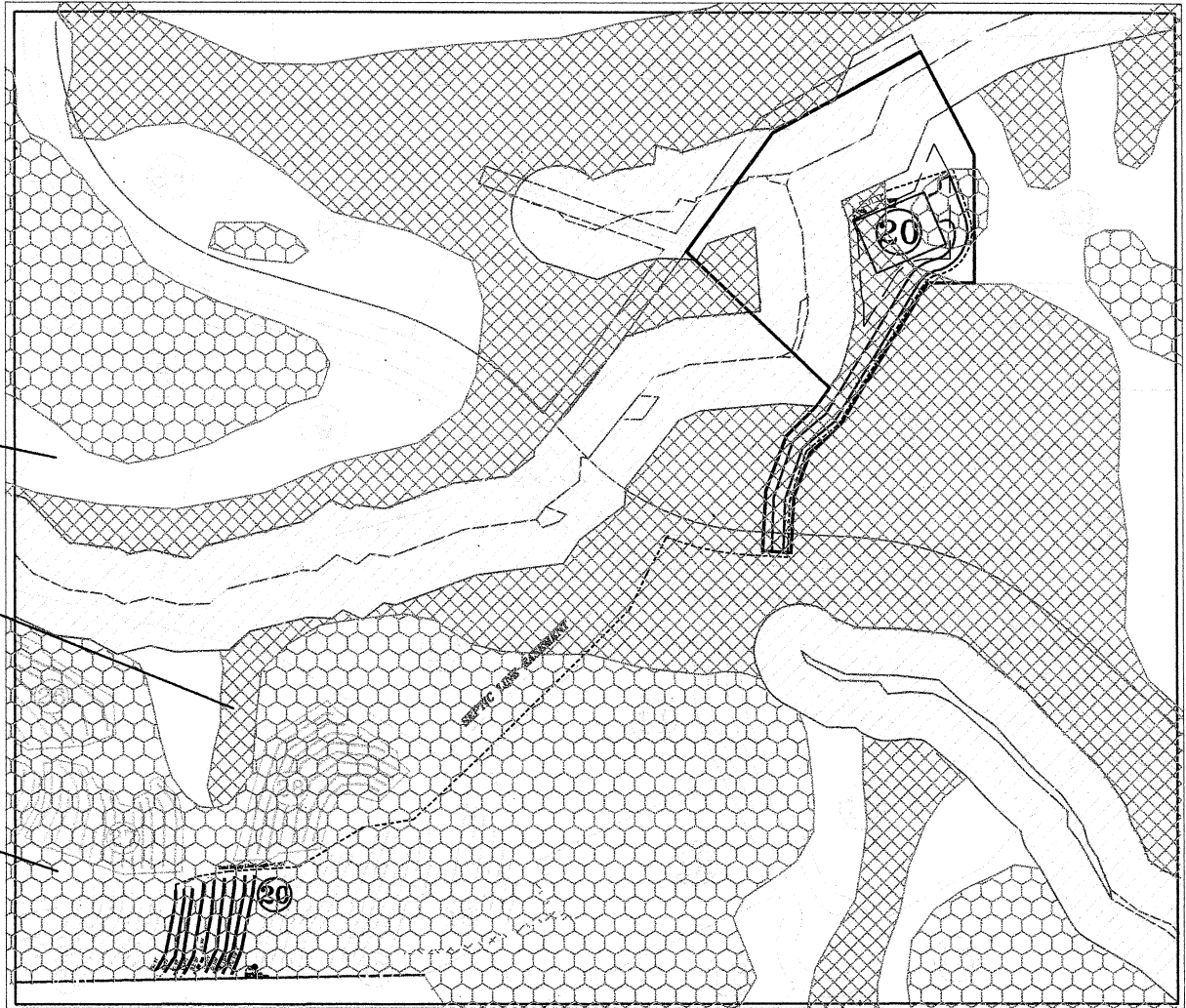


Overview (Scale: 1" = 200')

Provisionally Suitable Soil Depths Between 12 and 24-Inches (Typical)

Provisionally Suitable Soil Depths Less Than 12-Inches (Typical)

Provisionally Suitable Soil Depths Greater Than 24-Inches (Typical)



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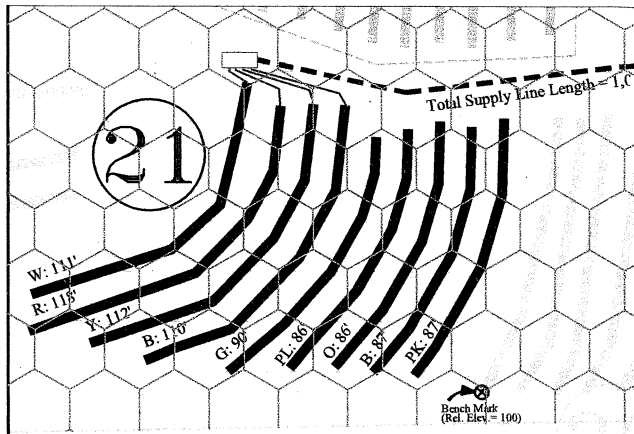
LOT 20
INITIAL & REPAIR SYSTEM

Lot 21 - Offsite Field		
Flag Color	Line Length	Relative Elevation
Pink	87'	94.4
Blue	87'	95.5
Orange	86'	95.9
Purple	86'	96.5
Green	90'	96.8
Blue	110'	97.5
Yellow	112'	98.2
Red	118'	98.7
White	111'	99.1
Total	887'	

 NITRIFICATION LINES
 REMOTE SEPTIC SUPPLY LINE

Note: Nitrification Lines Flagged on 9-Foot Centers.

Detail View (Scale: 1" = 60')

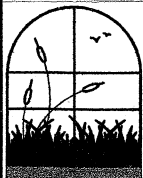
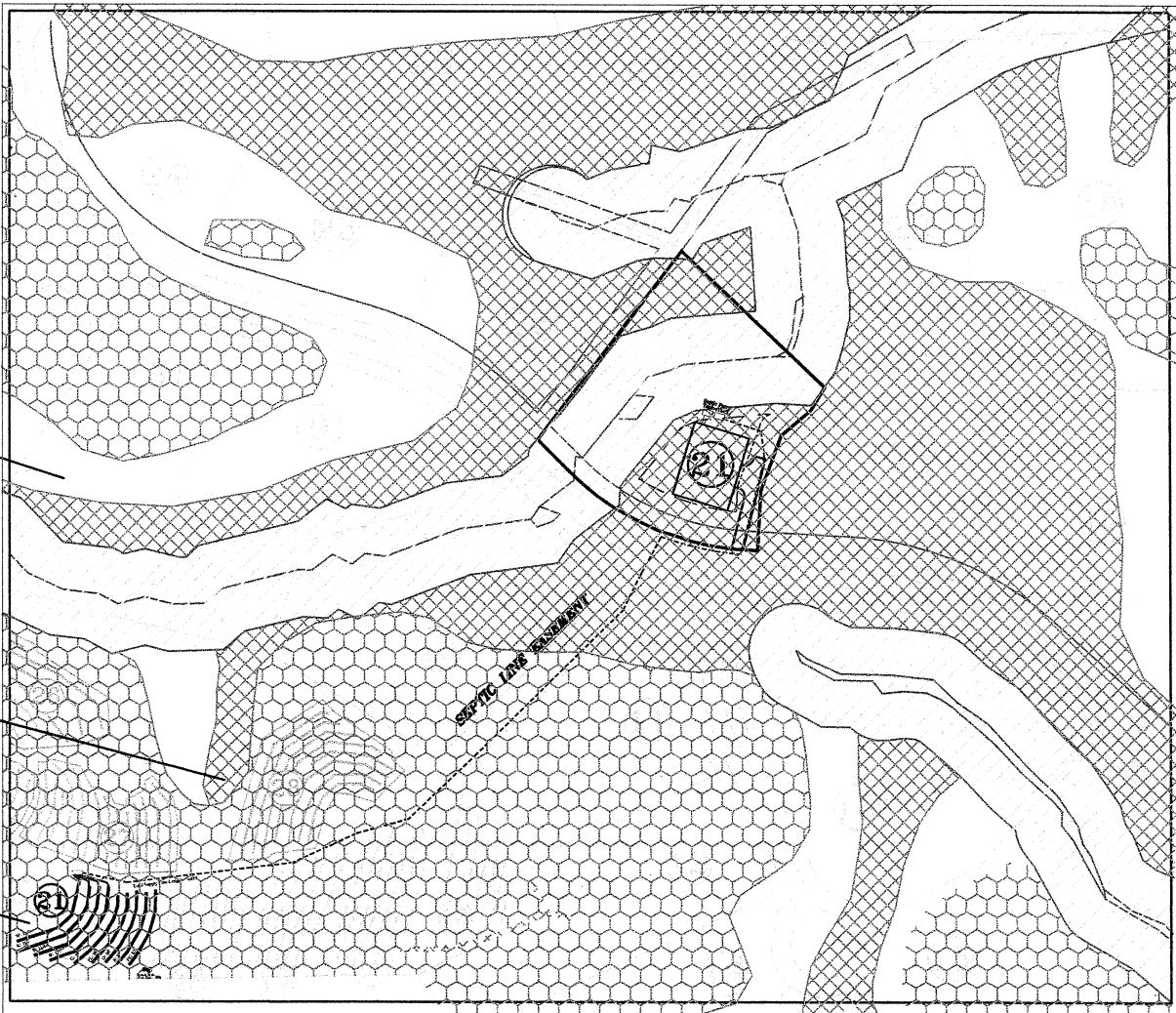


Overview (Scale: 1" = 200')

Provisionally Suitable Soil Depths Between 12 and 24-Inches (Typical)

Provisionally Suitable Soil Depths Less Than 12-Inches (Typical)

Provisionally Suitable Soil Depths Greater Than 24-Inches (Typical)



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SCALE: See above

SOIL SCIENTIST CONTACT:
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PARKER SPRINGS
 RALEIGH, NC - CHATHAM COUNTY

LOT 21
INITIAL & REPAIR SYSTEM

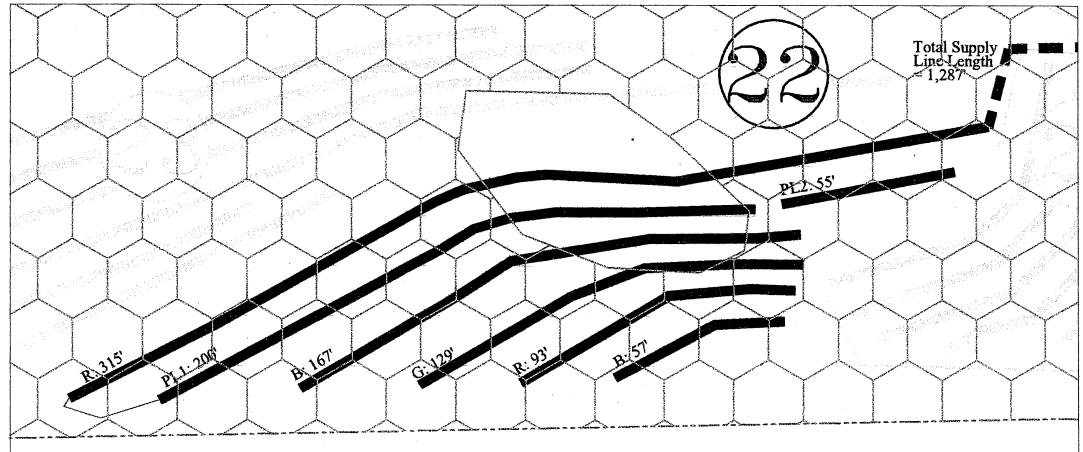
Lot 22 - Offsite Field

Flag Color	Line Length	Relative Elevation
Red	315'	107.5
Purple	260'	106.9
Blue	167'	106.3
Green	129'	105.6
Red	93'	105.1
Blue	57'	104.5
Total	1,016'	

Serial Distribution System

Detail View (Scale: 1" = 60')

 NITRIFICATION LINES
 REMOTE SUPPLY LINE



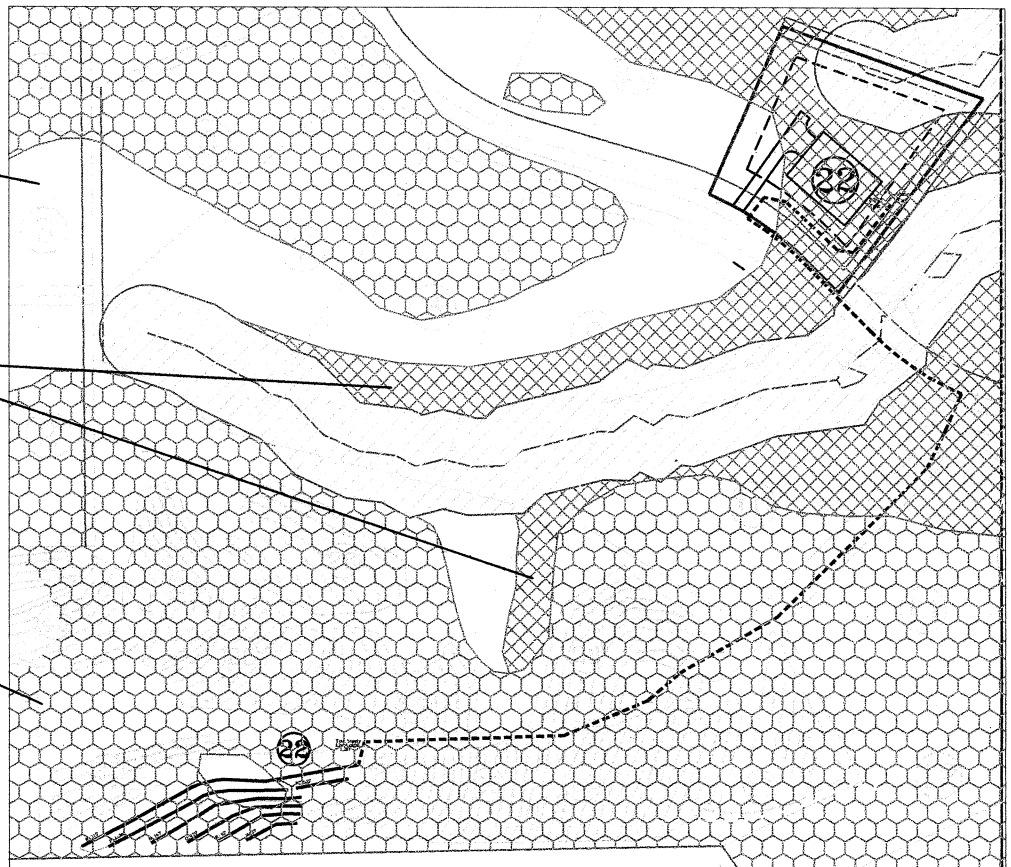
Note: Nitrification Lines Flagged on 10-Foot Centers.

Overview (Scale: 1" = 200')

Provisionally Suitable Soil Depths Between 12 and 24-Inches (Typical)

Provisionally Suitable Soil Depths Less Than 12-Inches (Typical)

Provisionally Suitable Soil Depths Greater Than 24-Inches (Typical)



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PARKER SPRINGS
CHATHAM COUNTY, NC

LOT 22
INITIAL & REPAIR SYSTEM

Lot 23 - Offsite Field

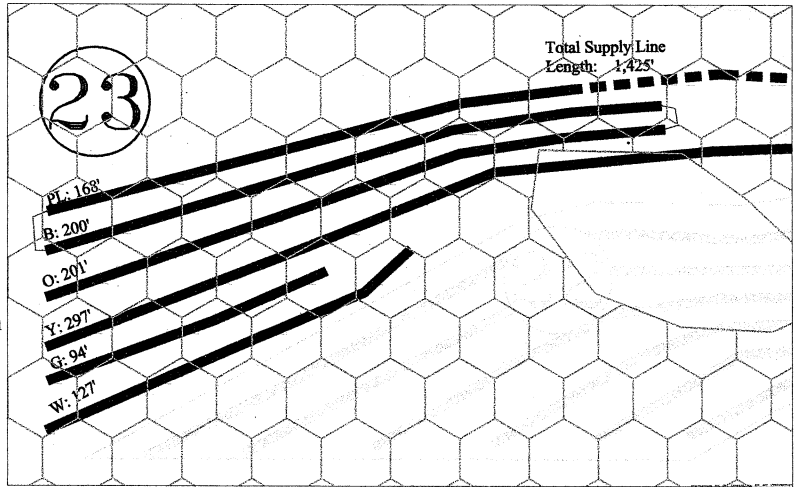
Flag Color	Line Length	Relative Elevation
Purple	168'	105.3
Blue	200'	105.6
Orange	201'	106.2
Yellow	297'	106.8
Green	94'	107.3
White	127'	107.7
Total	1,087'	

 NITRIFICATION LINES
 REMOTE SEPTIC SUPPLY LINE

Note: Nitrification Lines Flagged on 10-Foot Centers.

Serial Distribution System

Detail View (Scale: 1" = 60')

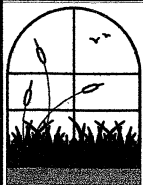
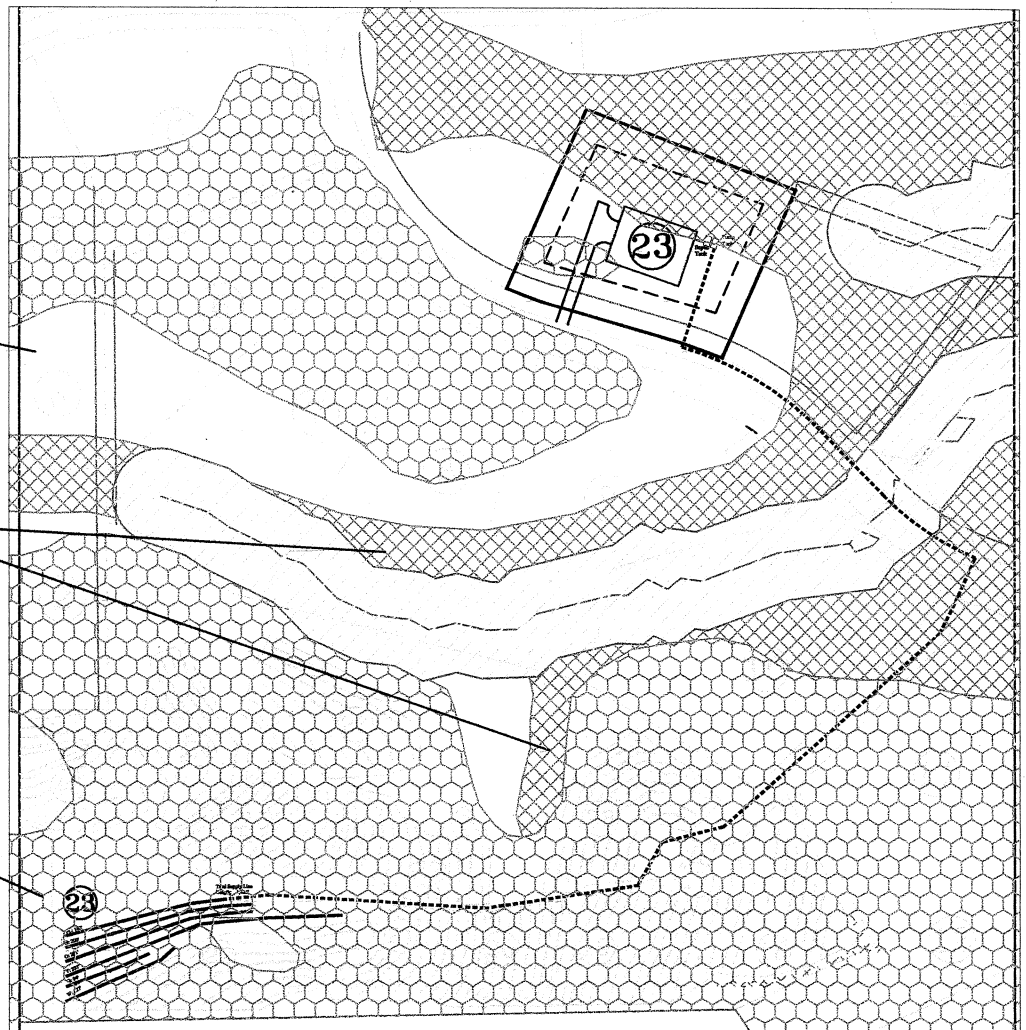


Overview (Scale: 1" = 200')

Provisionally Suitable Soil Depths Between 12 and 24-Inches (Typical)

Provisionally Suitable Soil Depths Less Than 12-Inches (Typical)

Provisionally Suitable Soil Depths Greater Than 24-Inches (Typical)



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DATE: JAN 8, 2008 SCALE: See above

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PARKER SPRINGS
 CHATHAM COUNTY, NC

LOT 23
INITIAL & REPAIR SYSTEM

Lot 25 - Offsite field

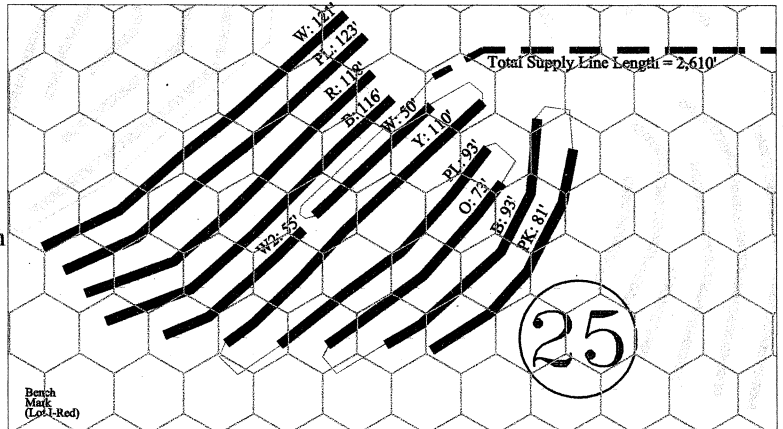
Flag Color	Line Length	Relative Elevation
White	121'	96.9
Purple	123'	95.3
Red	118'	96.3
Blue	116'	95.9
Pink	111'	95.3
Yellow	110'	95
Purple	93'	94.9
Orange	73'	94.6
Blue	93'	94.2
Pink	81'	94
Total	1,032'	

 NITRIFICATION LINES
 REMOTE SEPTIC SUPPLY LINE

Nitrification Lines Flagged on 10-Foot Centers.

Serial Distribution System

Detailed View (Scale: 1" = 60')

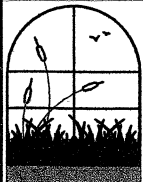
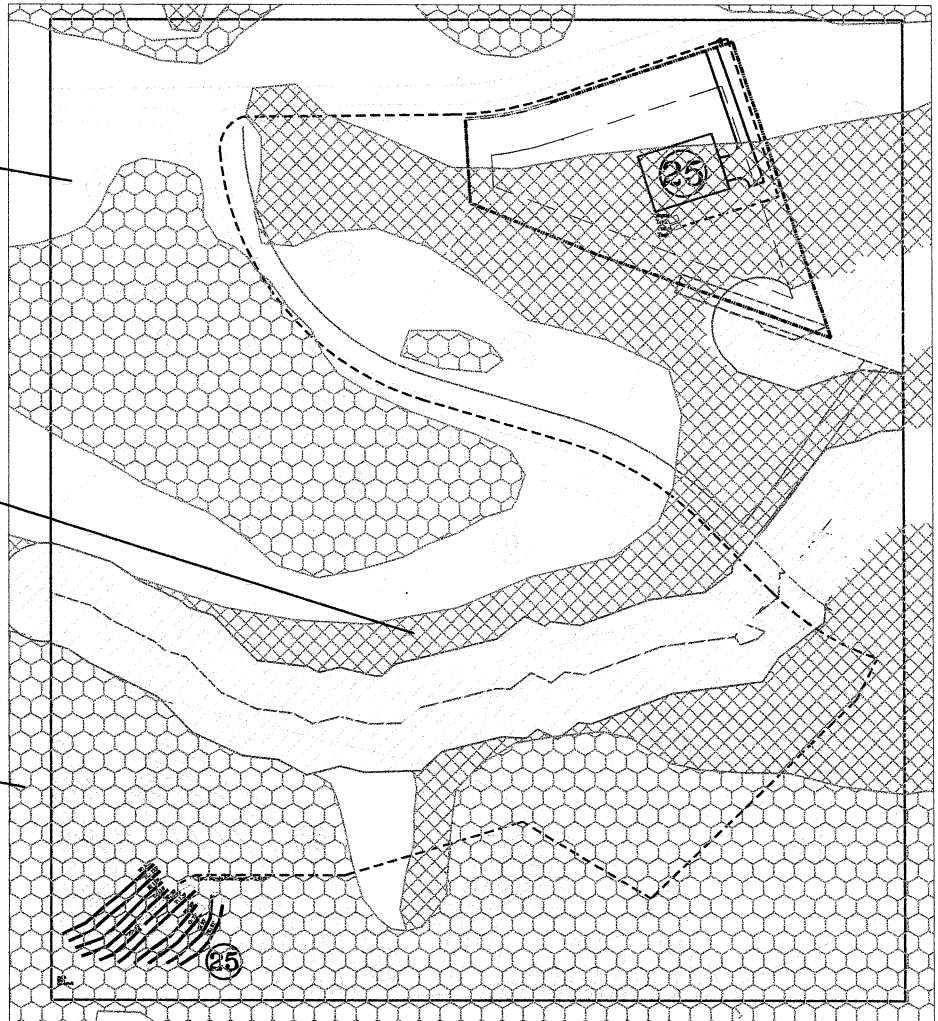


Overview (Scale: 1" = 200')

Provisionally Suitable Soil Depths Between 12 and 24-Inches (Typical)

Provisionally Suitable Soil Depths Less Than 12-Inches (Typical)

Provisionally Suitable Soil Depths Greater Than 24-Inches (Typical)



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PREPARED FOR:
Parker Springs, LLC
c/o Rusty Ammons

DATE: JAN 8, 2008

SCALE: See above

SOIL SCIENTIST CONTACT:
SCOTT MITCHELL, PE, LSS

PARKER SPRINGS
RALEIGH, NC - CHATHAM COUNTY

LOT 25
INITIAL & REPAIR SYSTEM

Lot 26 - Offsite field		
Flag Color	Line Length	Relative Elevation
Pink	55'	97.7
White	81'	96.6
Blue	122'	95.4
Red	141'	93.9
Purple	160'	91.9
Orange	180'	89.3
Green	195'	87
Blue	70'	85.3
Total	1,004'	

 NITRIFICATION LINES
 REMOTE SEPTIC SUPPLY LINE

Nitrification Lines
Flagged on
10-Foot Centers.

Serial Distribution System

Detail View (Scale: 1" = 60')

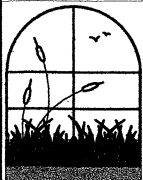
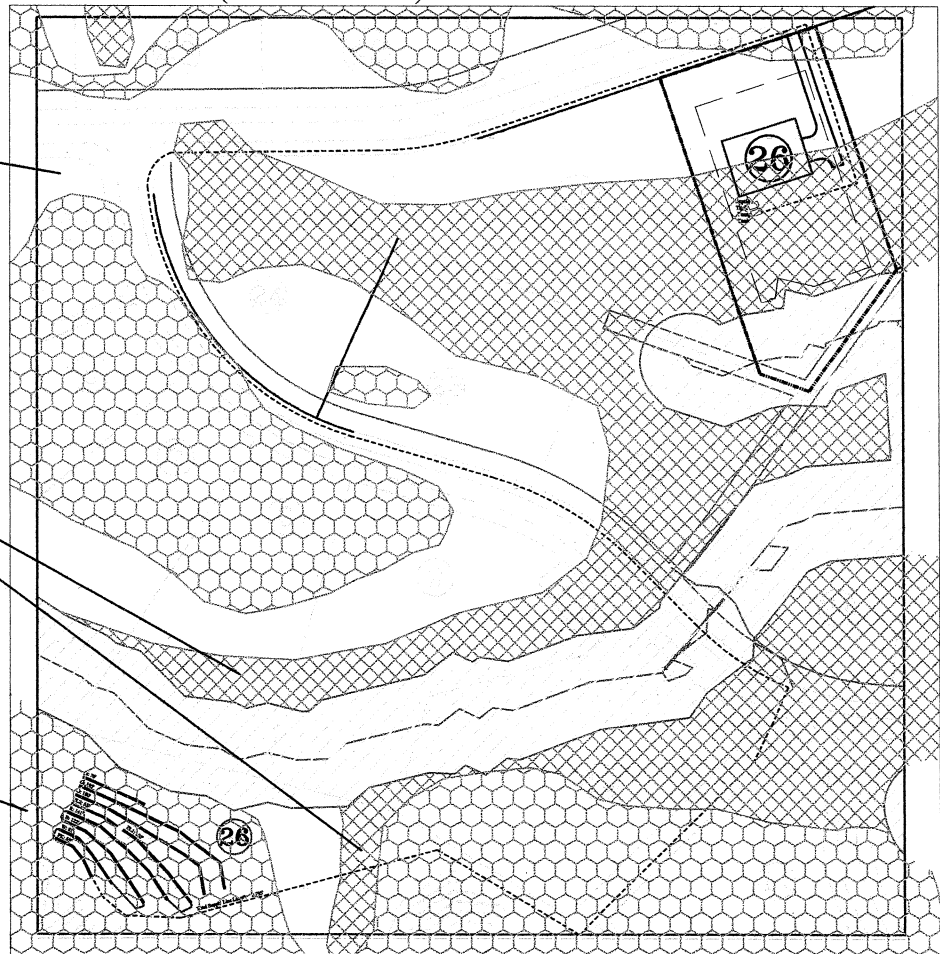


Overview (Scale: 1" = 200')

Provisionally Suitable
Soil Depths Between 12
and 24-Inches (Typical)

Provisionally Suitable
Soil Depths Less Than
12-Inches (Typical)

Provisionally Suitable
Soil Depths Greater Than
24-Inches (Typical)



MITCHELL ENVIRONMENTAL, P.A.

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PREPARED FOR:
Parker Springs, LLC
c/o Rusty Ammons

DATE: JAN 8, 2008

SCALE: See above

SOIL SCIENTIST CONTACT:
SCOTT MITCHELL, PE, LSS

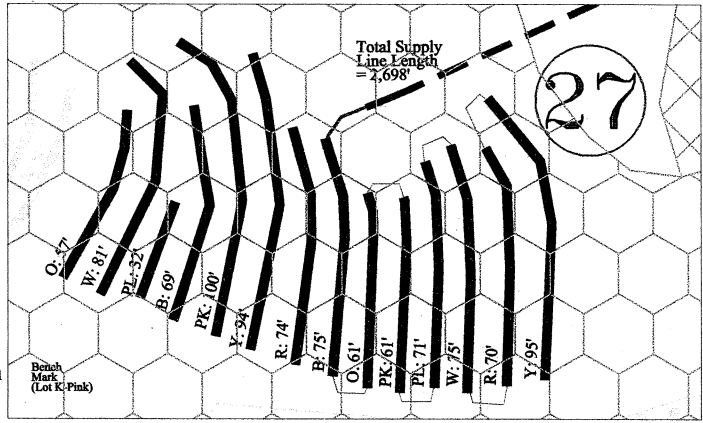
PARKER SPRINGS
RALEIGH, NC - CHATHAM COUNTY

LOT 26
INITIAL & REPAIR SYSTEM

Lot 27 - Offsite field		
Flag Color	Line Length	Relative Elevation
Orange	57'	99.6
White	81'	99.4
Purple	32'	99.2
Blue	69'	98.5
Pink	100'	97.8
Yellow	94'	96.9
Red	74'	96.1
Blue	75'	95.2
Orange	61'	94.1
Pink	61'	93.1
Purple	71'	91.4
White	75'	89.3
Red	73'	88.1
Yellow	95'	87.3
Total	1,015'	

Serial Distribution System

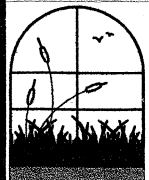
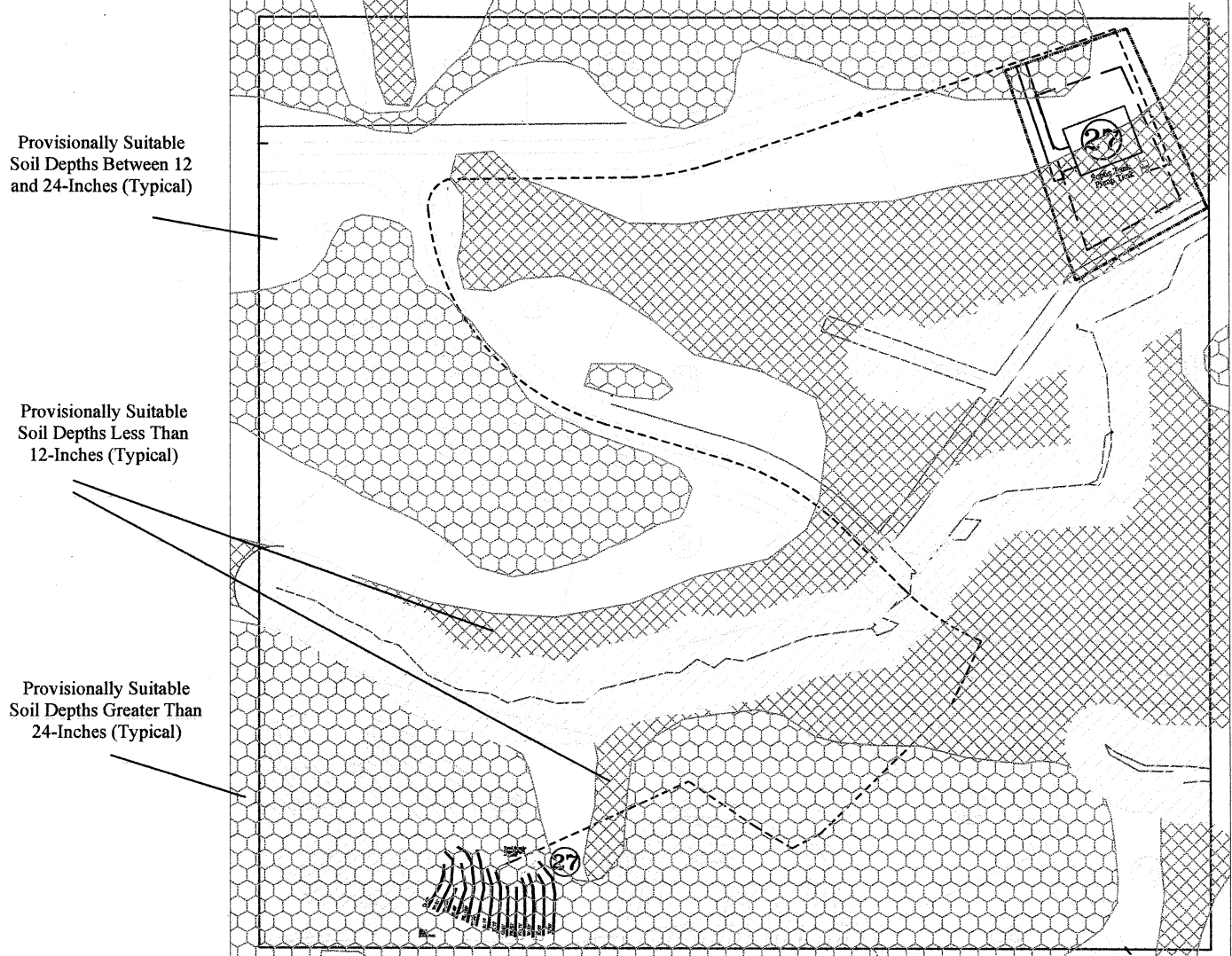
Detail View (Scale 1" = 60')



Nitrification Lines Flagged on 10-Foot Centers.

NITRIFICATION LINES
 REMOTE SEPTIC SUPPLY LINE

Overview (Scale 1" = 200')



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DATE: JAN 8, 2008 SCALE: See above

SOIL SCIENTIST CONTACT:
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PARKER SPRINGS
 RALEIGH, NC - CHATHAM COUNTY

LOT 27
 INITIAL & REPAIR SYSTEM

Lot 28 - Offsite field

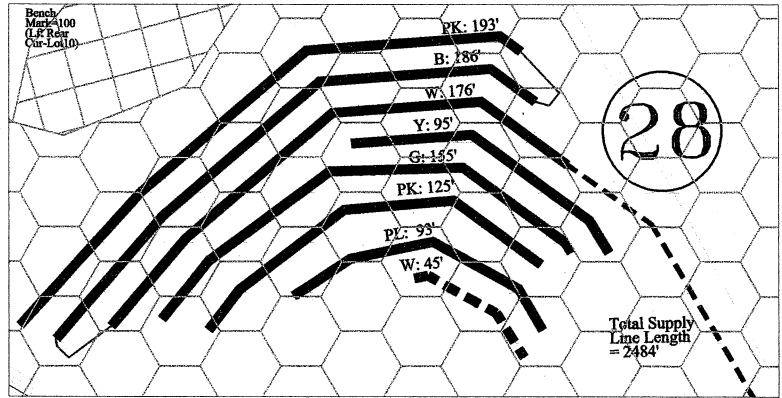
Flag Color	Line Length	Relative Elevation
White	45'	110.8
Purple	93'	110.3
Pink	125'	109.6
Green	155'	108.9
Yellow	95'	108
White	176'	106.7
Blue	186'	105.3
Pink	193'	104.8
Total	1,068'	

 NITRIFICATION LINES
 REMOTE SEPTIC SUPPLY LINE

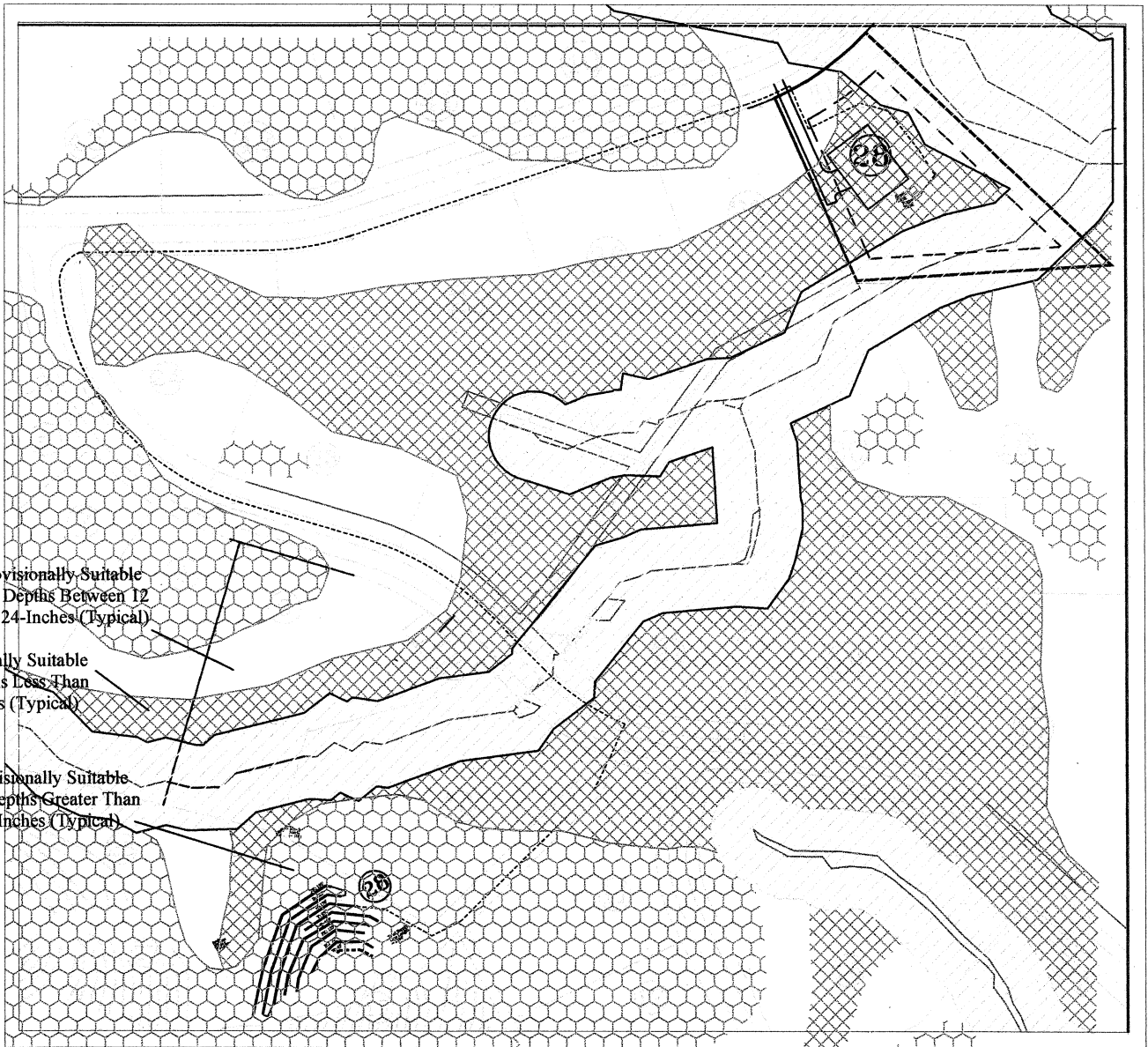
Nitrification Lines Flagged on 10-Foot Centers.

Serial Distribution System

Detail View (Scale: 1" = 60')



Overview (Scale: 1" = 200')



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DATE: JAN 8, 2008 SCALE: See above

SOIL SCIENTIST CONTACT:
 SCOTT MITCHELL, PE, LSS



PARKER SPRINGS
 RALEIGH, NC - CHATHAM COUNTY

LOT 28
INITIAL & REPAIR SYSTEM

Lot 29		
Flag Color	Line Length	Relative Elevation
Orange	115'	110.1
Purple	120'	108.8
Pink	120'	107.4
Blue	125'	106.3
Orange	135'	105
Purple	100'	104.4
Pink	95'	104.4
Blue	80'	102.7
White	60'	101.6
Purple	45'	101.1
Total	995'	

Note: Nitrification Lines Flagged on 10-Foot Centers.

Provisionally Suitable Soil Depths Between 12 and 24-Inches (Typical)

 FLAGGED NITRIFICATION LINE
 HOUSE FOOT PRINT = 80' X 60'

Provisionally Suitable Soil Depths Greater Than 24-Inches (Typical)

Bench Mark
(Rel. Elev.= 100)

Perpetual Stream Buffer Conservation Easement



O: 117'

PL: 122'

Pk: 119'

B: 127'

O: 138'

PL: 101'

Pk: 95'

B: 79'

W: 59'

PL: 45'



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PREPARED FOR: *Parker Springs, LLC*
c/o *Rusty Ammons*

DATE: January 8, 2008

SCALE: 1" = 40'

SOIL SCIENTIST CONTACT:

SCOTT MITCHELL, PE, LSS

PARKER SPRINGS
CHATHAM COUNTY, NC

LOT 29
INITIAL & REPAIR SYSTEM

Lot 30

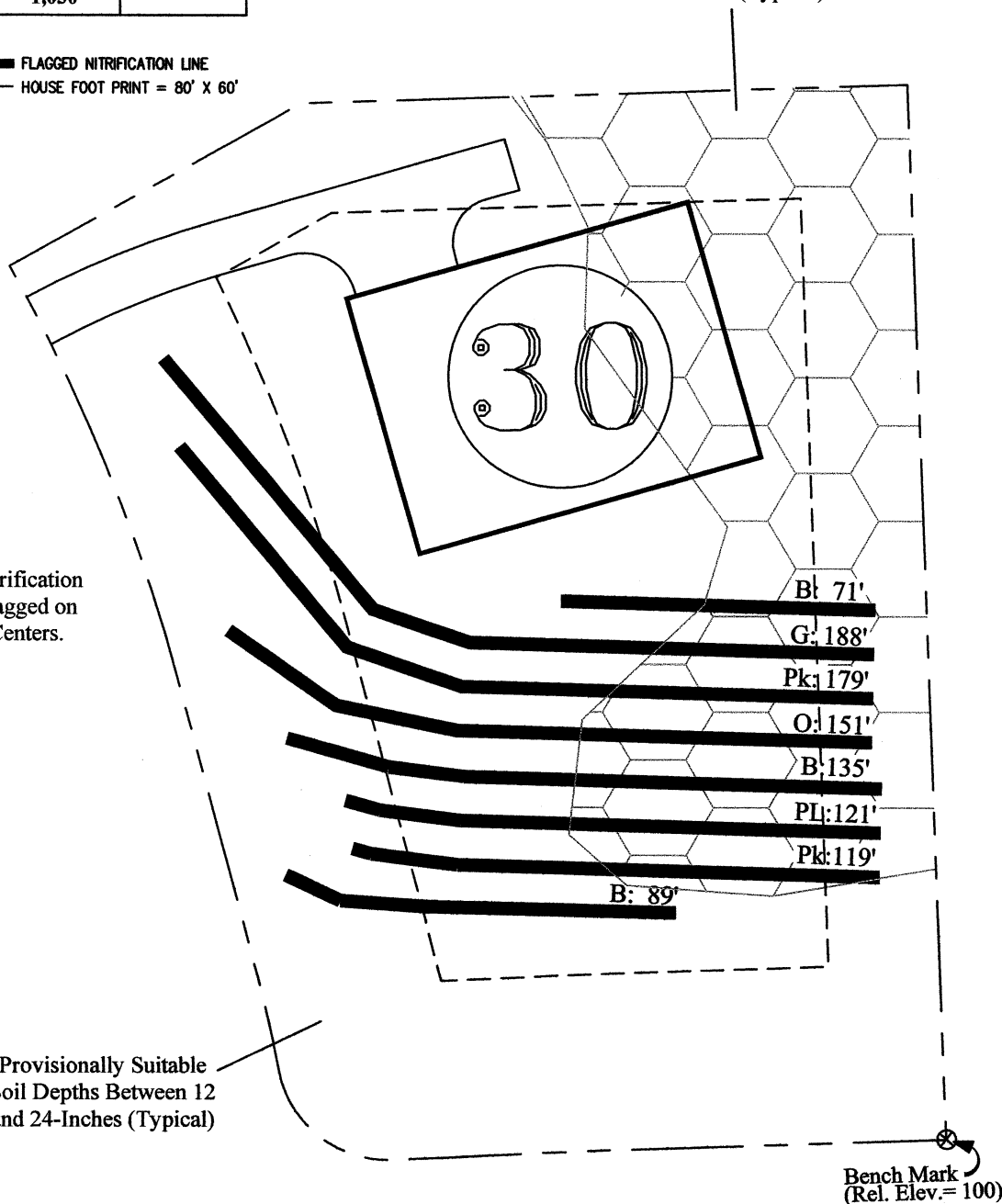
Flag Color	Line Length	Relative Elevation
Blue	70'	109.1
Green	180'	107.6
Pink	170'	106.2
Orange	145'	104.1
Blue	135'	103.8
Purple	120'	101.3
Pink	120'	99.8
Blue	90'	98.3
Total	1,030'	

Provisionally Suitable
Soil Depths Greater Than
24-Inches (Typical)

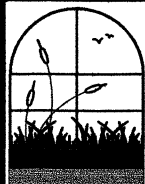
 FLAGGED NITRIFICATION LINE
 HOUSE FOOT PRINT = 80' X 60'

Note: Nitrification
Lines Flagged on
10-Foot Centers.

Provisionally Suitable
Soil Depths Between 12
and 24-Inches (Typical)



Bench Mark
(Rel. Elev.= 100)



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PREPARED FOR: *Parker Springs, LLC*
c/o *Rusty Ammons*

DATE: January 8, 2008

SCALE: 1" = 40'

SOIL SCIENTIST CONTACT:

SCOTT MITCHELL, PE, LSS

PARKER SPRINGS
CHATHAM COUNTY, NC

LOT 30
INITIAL & REPAIR SYSTEM

Lot 31

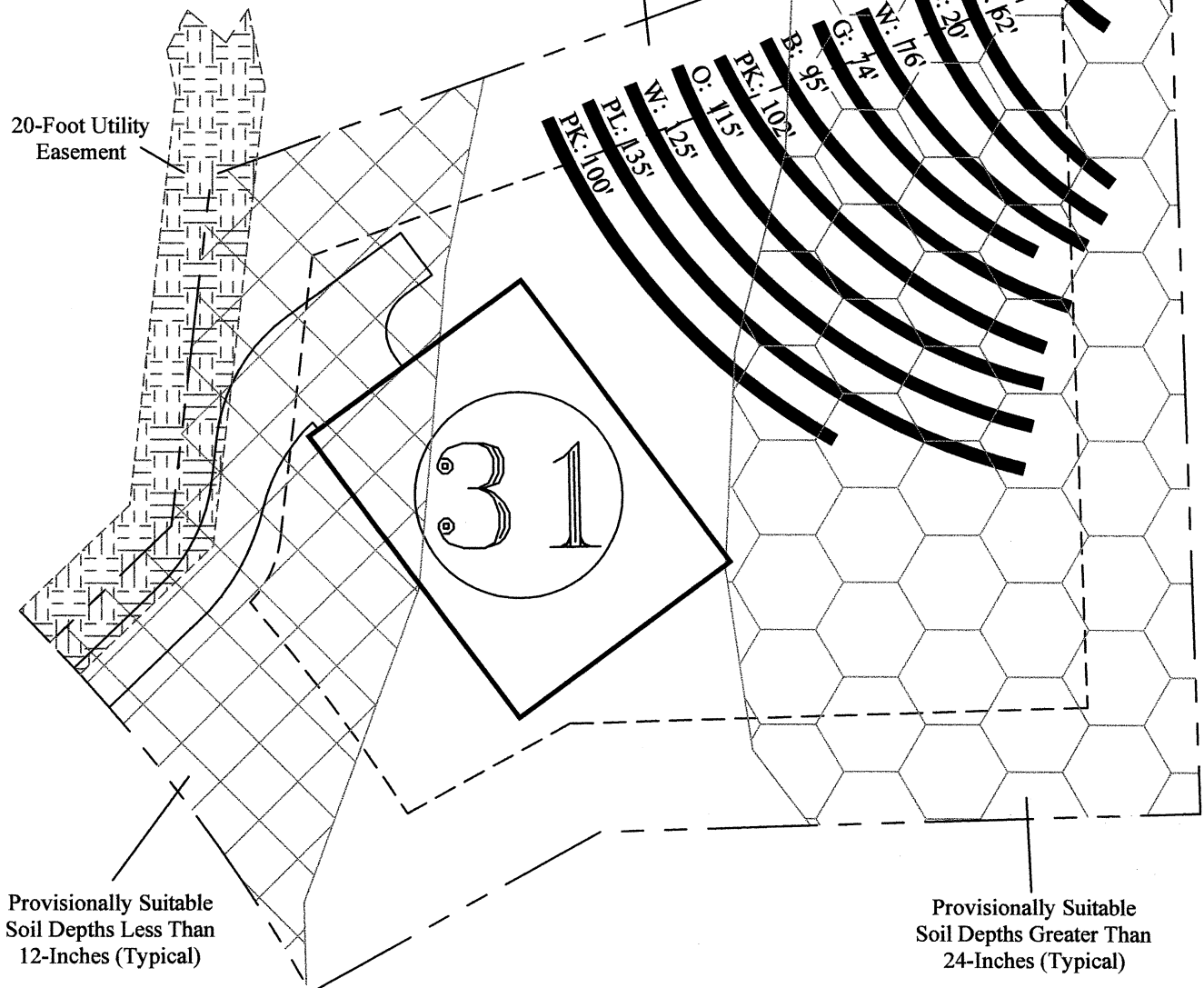
Flag Color	Line Length	Relative Elevation
Pink	25'	93.2
Purple	60'	94.8
Blue	50'	95.2
White	75'	96.1
Green	75'	97.6
Blue	95'	97.8
Pink	100'	99.3
Orange	115'	99.3
White	125'	100.9
Purple	135'	101.2
Pink	100'	102.6
Total	955'	

Note: Nitrification Lines Flagged on 10-Foot Centers

Bench Mark
(Rel. Elev. = 100)

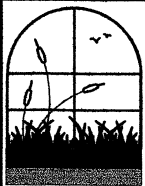
Provisionally Suitable Soil Depths Between 12 and 24-Inches (Typical)

20-Foot Utility Easement



Provisionally Suitable Soil Depths Less Than 12-Inches (Typical)

Provisionally Suitable Soil Depths Greater Than 24-Inches (Typical)



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PREPARED FOR: *Parker Springs, LLC*
c/o *Rusty Ammons*

DATE: January 8, 2008 SCALE: 1" = 40'

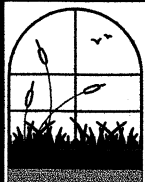
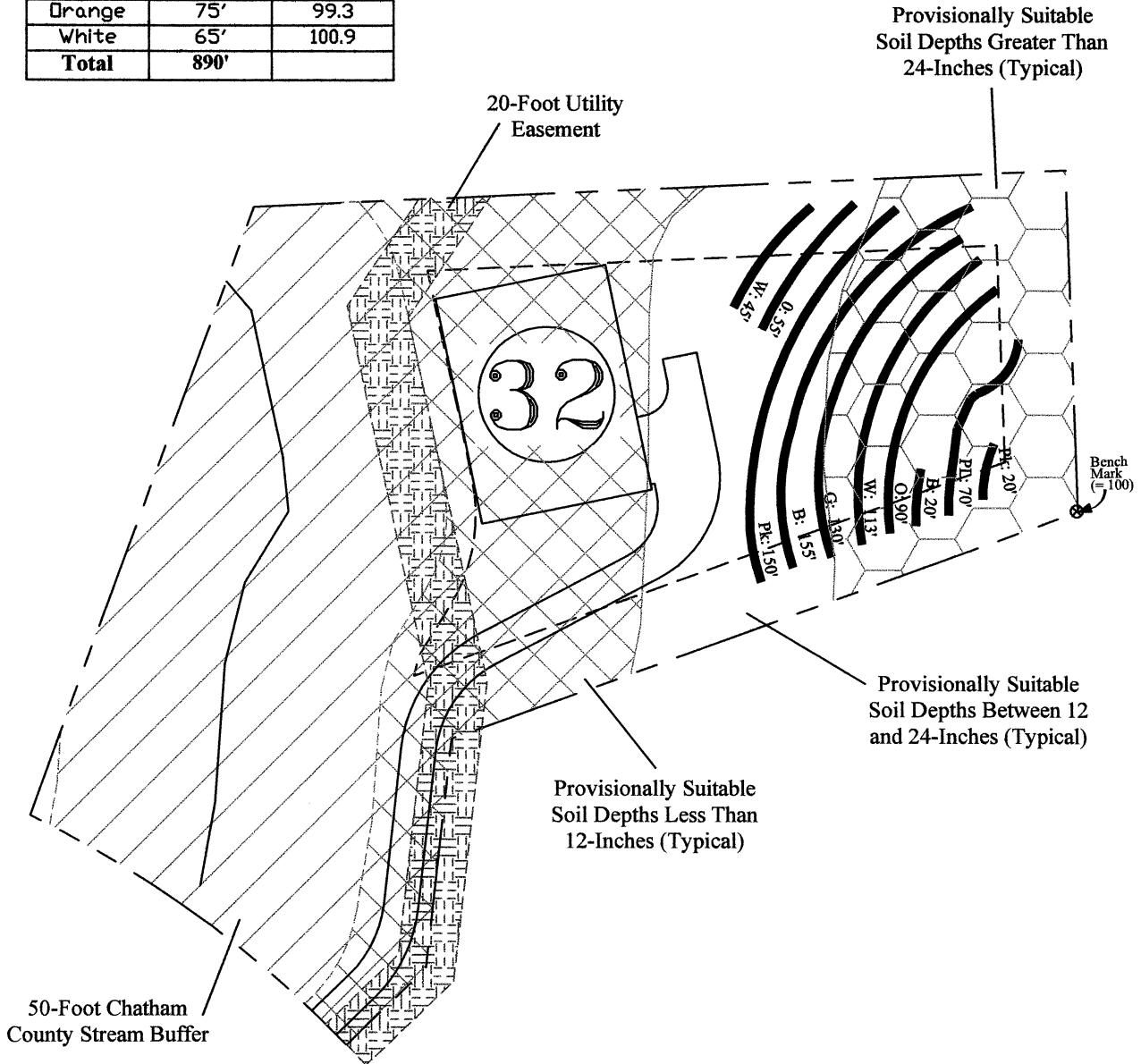
SOIL SCIENTIST CONTACT:
SCOTT MITCHELL, PE, LSS

PARKER SPRINGS
CHATHAM COUNTY, NC

LOT 31
INITIAL & REPAIR SYSTEM

Lot 32		
Flag Color	Line Length	Relative Elevation
Pink	20'	93.2
Purple	70'	94.8
Blue	20'	95.2
Orange	90'	95.9
White	115'	96.1
Green	130'	97.6
Blue	155'	97.8
Pink	150'	99.3
Orange	75'	99.3
White	65'	100.9
Total	890'	

Note: Nitrification
Lines Flagged on
10-Foot Centers



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PREPARED FOR: **Parker Springs, LLC**
c/o Rusty Ammons

DATE: January 8, 2008 SCALE: 1" = 60'

SOIL SCIENTIST CONTACT:
SCOTT MITCHELL, PE, LSS

PARKER SPRINGS
CHATHAM COUNTY, NC

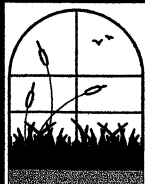
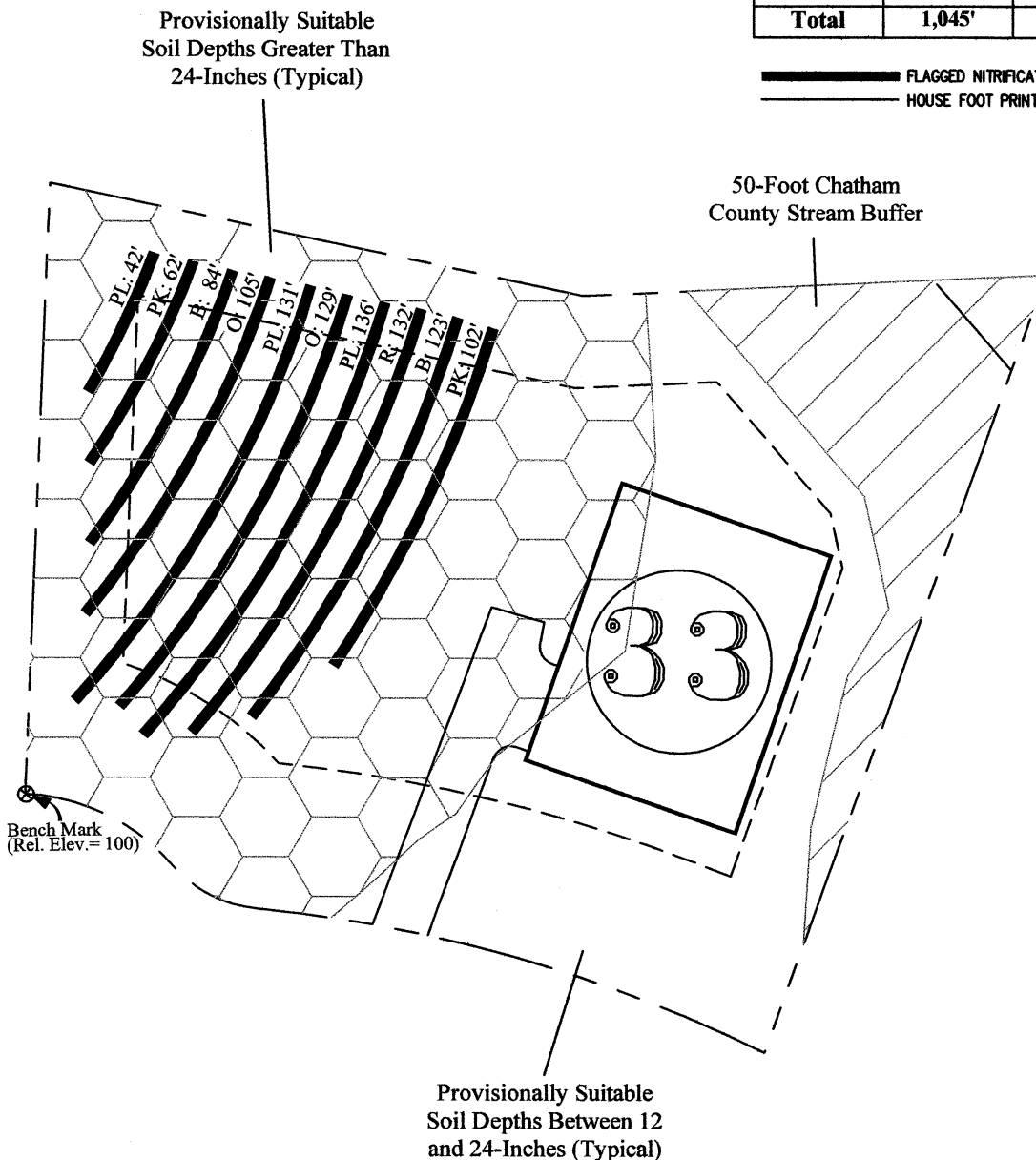
LOT 32
INITIAL & REPAIR SYSTEM

Note: Nitrification
Lines Flagged on
10-Foot Centers.

Lot 33		
Flag Color	Line Length	Relative Elevation
Purple	40'	104
Pink	60'	102.5
Blue	85'	102.1
Orange	105'	100.5
Purple	130'	99.7
Orange	130'	99
Purple	135'	97.8
Red	135'	95.4
Blue	125'	95.1
Pink	100'	93.8
Total	1,045'	

Provisionally Suitable
Soil Depths Greater Than
24-Inches (Typical)

———— FLAGGED NITRIFICATION LINE
———— HOUSE FOOT PRINT = 80' X 60'



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PREPARED FOR: *Parker Springs, LLC*
 c/o *Rusty Ammons*

DATE: January 8, 2008 SCALE: 1" = 50'

SOIL SCIENTIST CONTACT:
 SCOTT MITCHELL, PE, LSS



PARKER SPRINGS
 CHATHAM COUNTY, NC

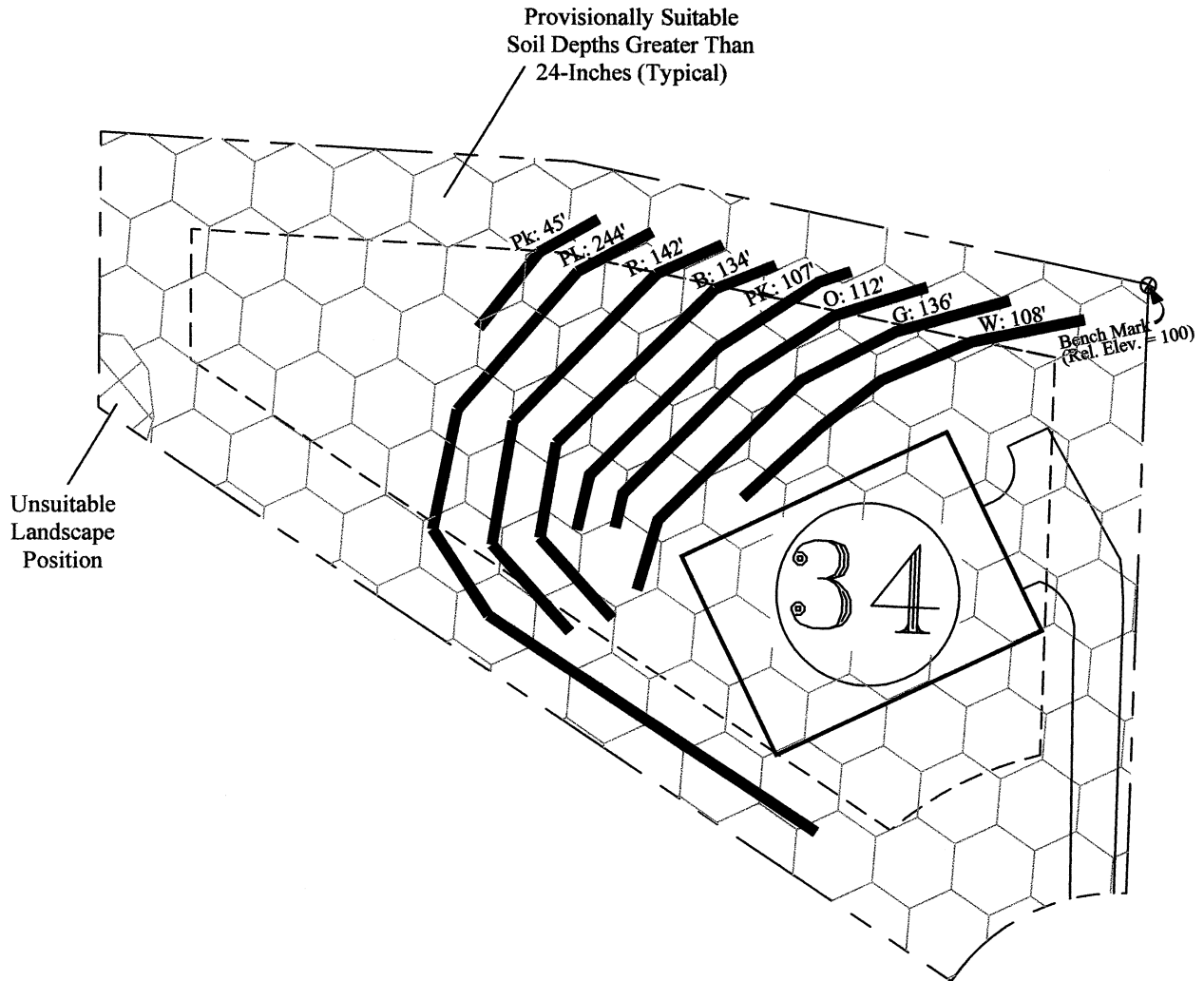
LOT 33
 INITIAL & REPAIR SYSTEM

Lot 34

Flag Color	Line Length	Relative Elevation
White	105'	102.1
Green	135'	100.3
Orange	110'	98.3
Pink	105'	96.3
Blue	130'	94.3
Red	140'	91.7
White	230'	89.8
Purple	50'	88.2
Total	1,005'	

Note: Nitrification Lines Flagged on 10-Foot Centers.

 FLAGGED NITRIFICATION LINE
 HOUSE FOOT PRINT = 80' X 60'



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PREPARED FOR: **Parker Springs, LLC**
c/o Rusty Ammons

DATE: January 8, 2008 SCALE: 1" = 50'

SOIL SCIENTIST CONTACT:
SCOTT MITCHELL, PE, LSS

PARKER SPRINGS
 CHATHAM COUNTY, NC

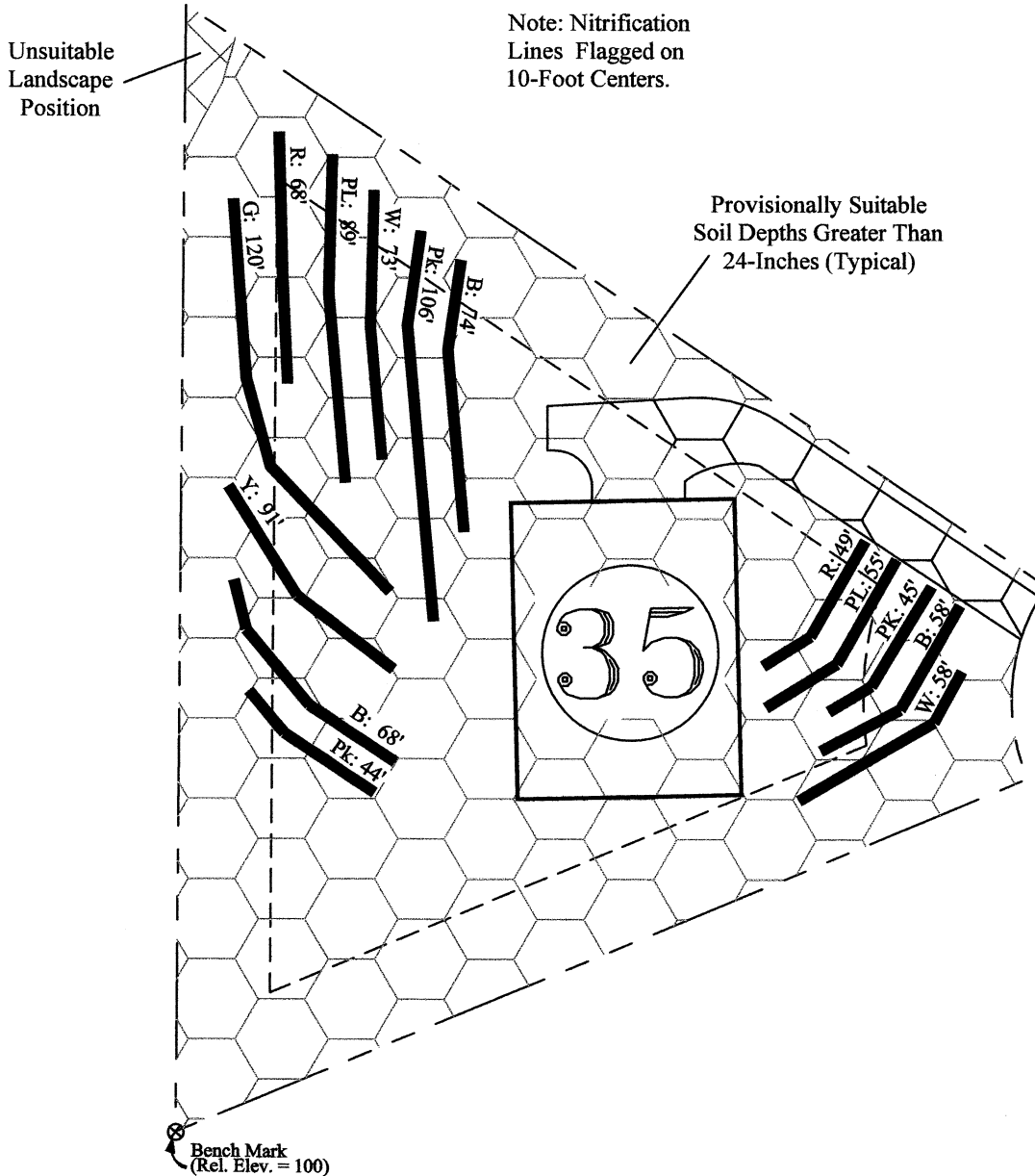
LOT 34
INITIAL & REPAIR SYSTEM

Lot 35 (Initial)		
Flag Color	Line Length	Relative Elevation
Blue	75'	112.2
Pink	105'	110.4
White	70'	108.2
Purple	90'	106.2
Red	65'	104.2
Green	120'	102.2
Total	525'	

Lot 35 (Repair A)		
Flag Color	Line Length	Relative Elevation
Yellow	90'	99.9
Blue	70'	98
Pink	45'	96.2
Total	205'	

Lot 35 (Repair B)		
Flag Color	Line Length	Relative Elevation
Red	50'	91.2
Purple	55'	89.2
Pink	45'	87.5
Blue	60'	85.8
White	60'	83.7
Total	270'	

 FLAGGED NITRIFICATION LINE
 HOUSE FOOT PRINT = 80' X 60'



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PREPARED FOR: *Parker Springs, LLC*
 c/o *Rusty Ammons*

DATE: January 8, 2008 SCALE: 1" = 50'


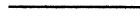
SOIL SCIENTIST CONTACT:
 SCOTT MITCHELL, PE, LSS

PARKER SPRINGS
 CHATHAM COUNTY, NC
LOT 35
INITIAL & REPAIR SYSTEM

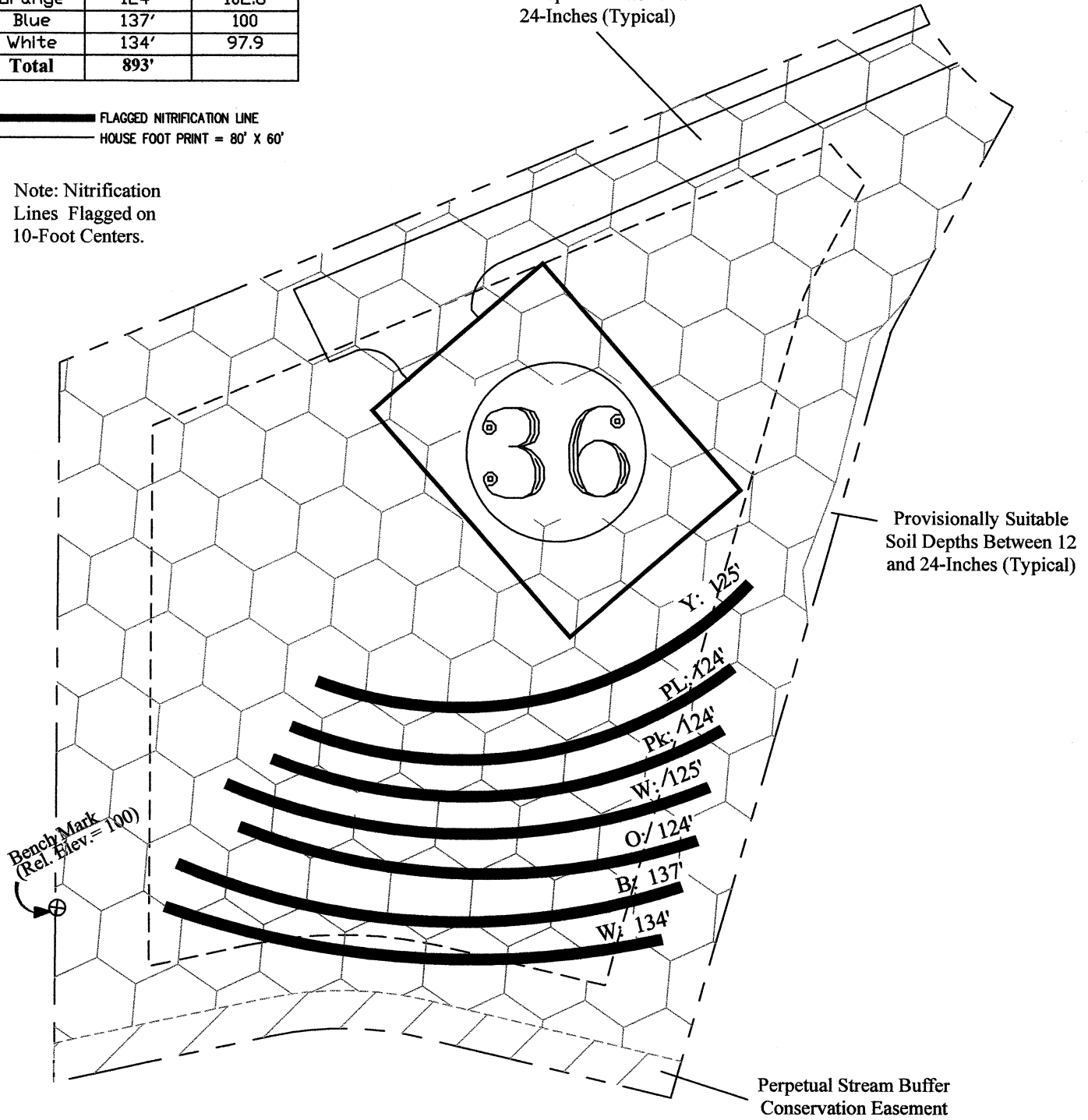
Lot 36

Flag Color	Line Length	Relative Elevation
Yellow	125'	112
Purple	124'	109.6
Pink	124'	107.5
White	125'	105
Orange	124'	102.6
Blue	137'	100
White	134'	97.9
Total	893'	

Provisionally Suitable
Soil Depths Greater Than
24-Inches (Typical)

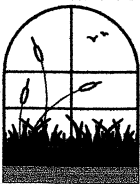
 FLAGGED NITRIFICATION LINE
 HOUSE FOOT PRINT = 80' X 60'

Note: Nitrification
Lines Flagged on
10-Foot Centers.



Provisionally Suitable
Soil Depths Between 12
and 24-Inches (Typical)

Perpetual Stream Buffer
Conservation Easement



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PREPARED FOR: *Parker Springs, LLC*
c/o *Rusty Ammons*

DATE: January 8, 2008

SCALE: 1" = 40'

SOIL SCIENTIST CONTACT:

SCOTT MITCHELL, PE, LSS

PARKER SPRINGS
CHATHAM COUNTY, NC

LOT 36
INITIAL & REPAIR SYSTEM

Lot 37 - Offsite Field

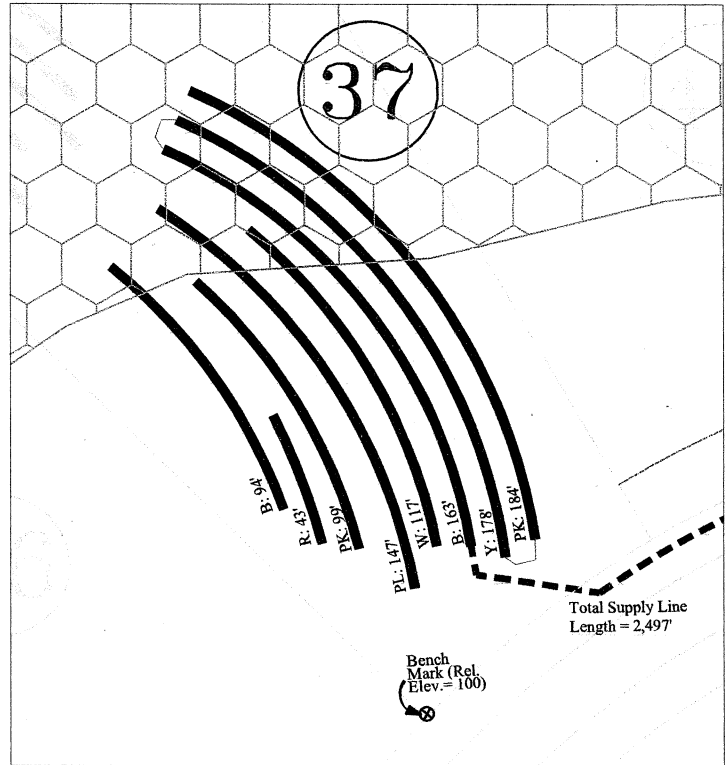
Flag Color	Line Length	Relative Elevation
Blue	94'	98.7
Red	43'	99.5
Pink	99'	99.7
Purple	147'	100.5
White	117'	101.1
Blue	163'	101.6
Yellow	178'	102.7
Pink	184'	103.9
Total	1,025'	

 NITRIFICATION LINES
 REMOTE SEPTIC SUPPLY LINE

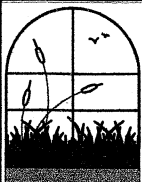
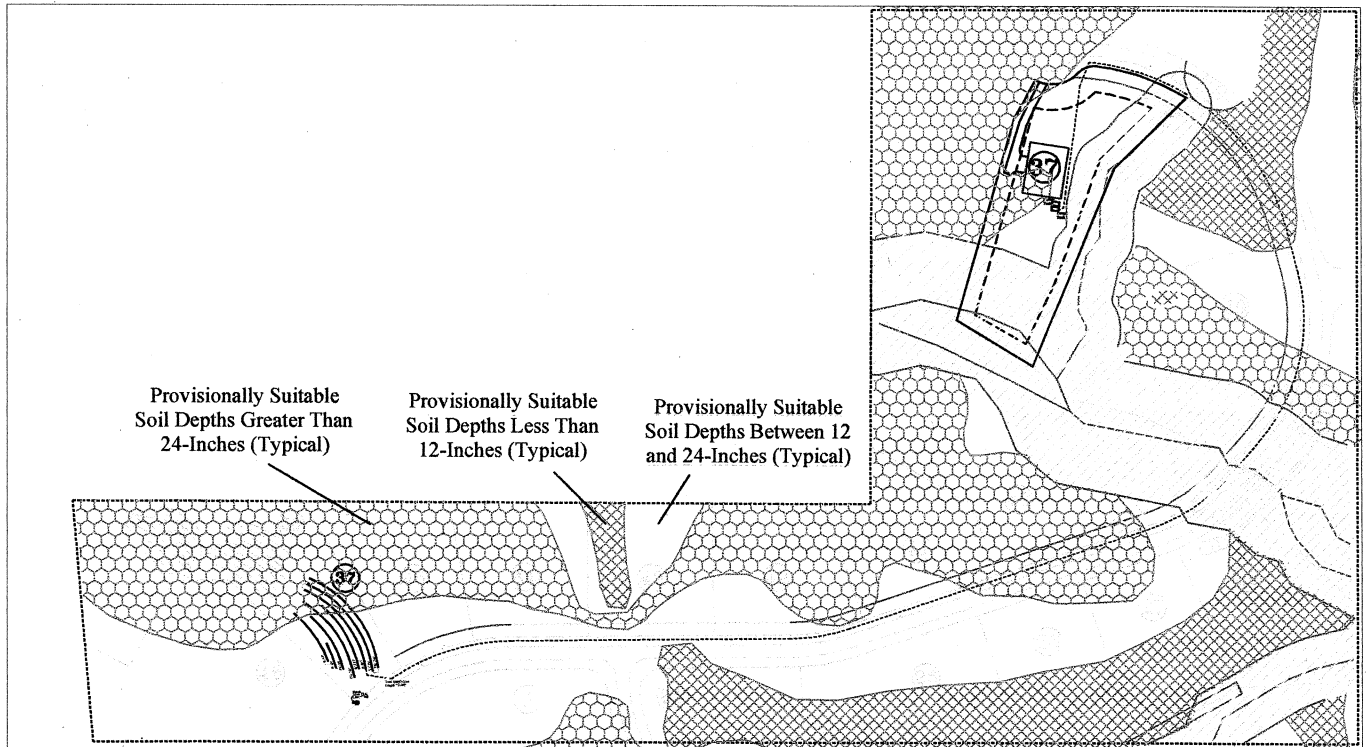
Note: Nitrification Lines Flagged on 10-Foot Centers.

Serial Distribution System

Detail View (Scale: 1" = 60')



Overview (Scale: 1" = 300')



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Parker Springs, LLC
c/o Rusty Ammons

DATE: JAN 8, 2008

SCALE: See above

SOIL SCIENTIST CONTACT:

SCOTT MITCHELL, PE, LSS

PARKER SPRINGS
RALEIGH, NC - CHATHAM COUNTY

LOT 37
INITIAL & REPAIR SYSTEM

Lot 38 - Offsite Field

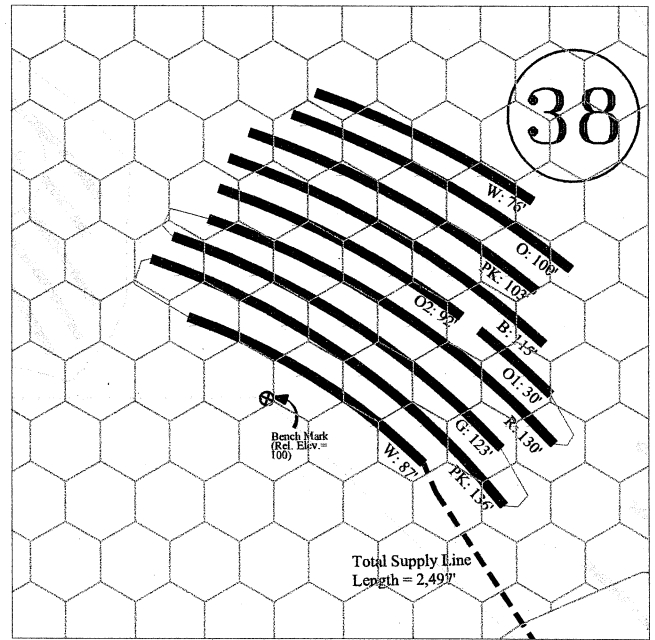
Flag Color	Line Length	Relative Elevation
White	87'	100.6
Pink	136'	101.7
Green	123'	103.2
Red	130'	104.2
Orange	122'	105.1
Blue	115'	106.5
Pink	103'	108.2
Orange	100'	109.2
White	76'	110.7
Total	997'	

 NITRIFICATION LINES
 REMOTE SEPTIC SUPPLY LINE

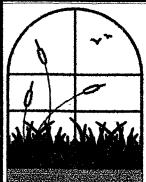
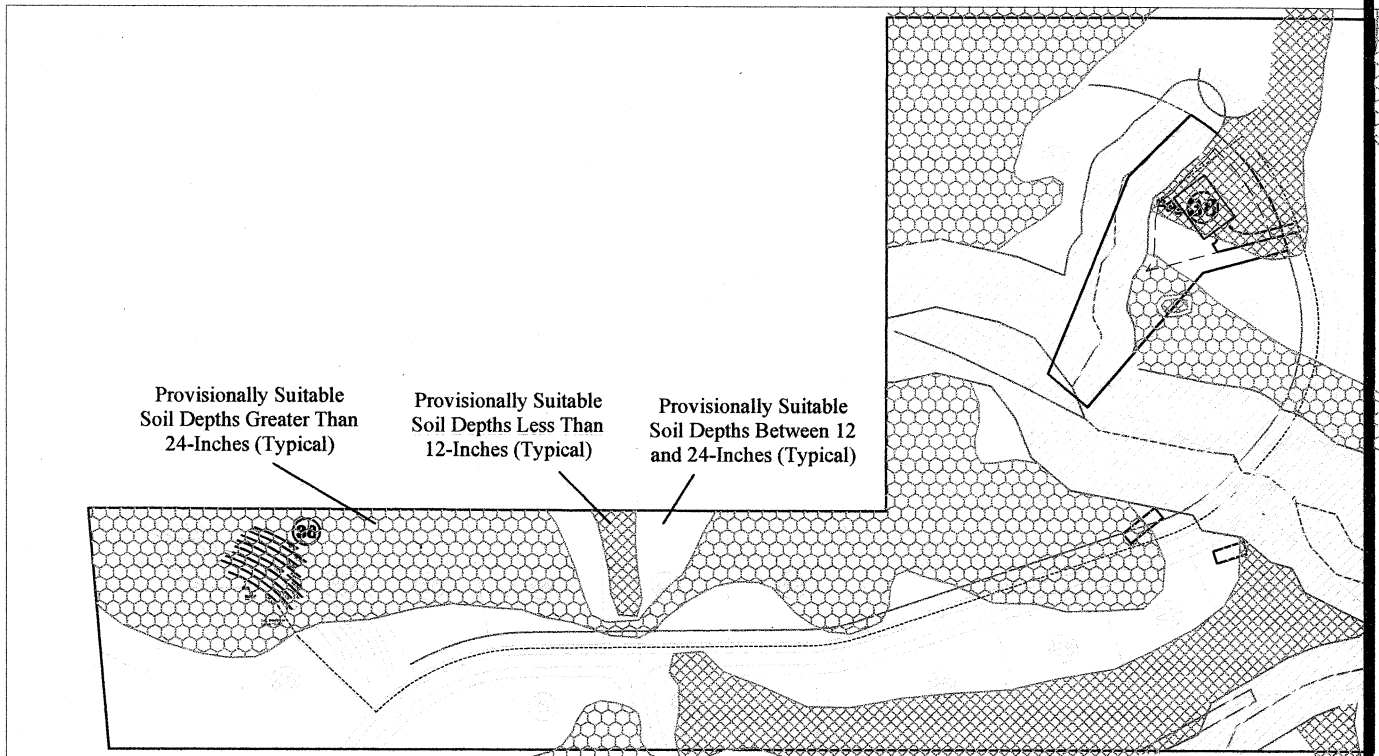
Note: Nitrification Lines Flagged on 10-Foot Centers.

Serial Distribution System

Detail View (Scale: 1" = 60')



Overview (Scale: 1" = 300')



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PREPARED FOR:
Parker Springs, LLC
c/o Rusty Ammons

DATE: JAN 8, 2008

SCALE: See above

SOIL SCIENTIST CONTACT:



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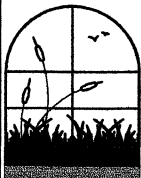
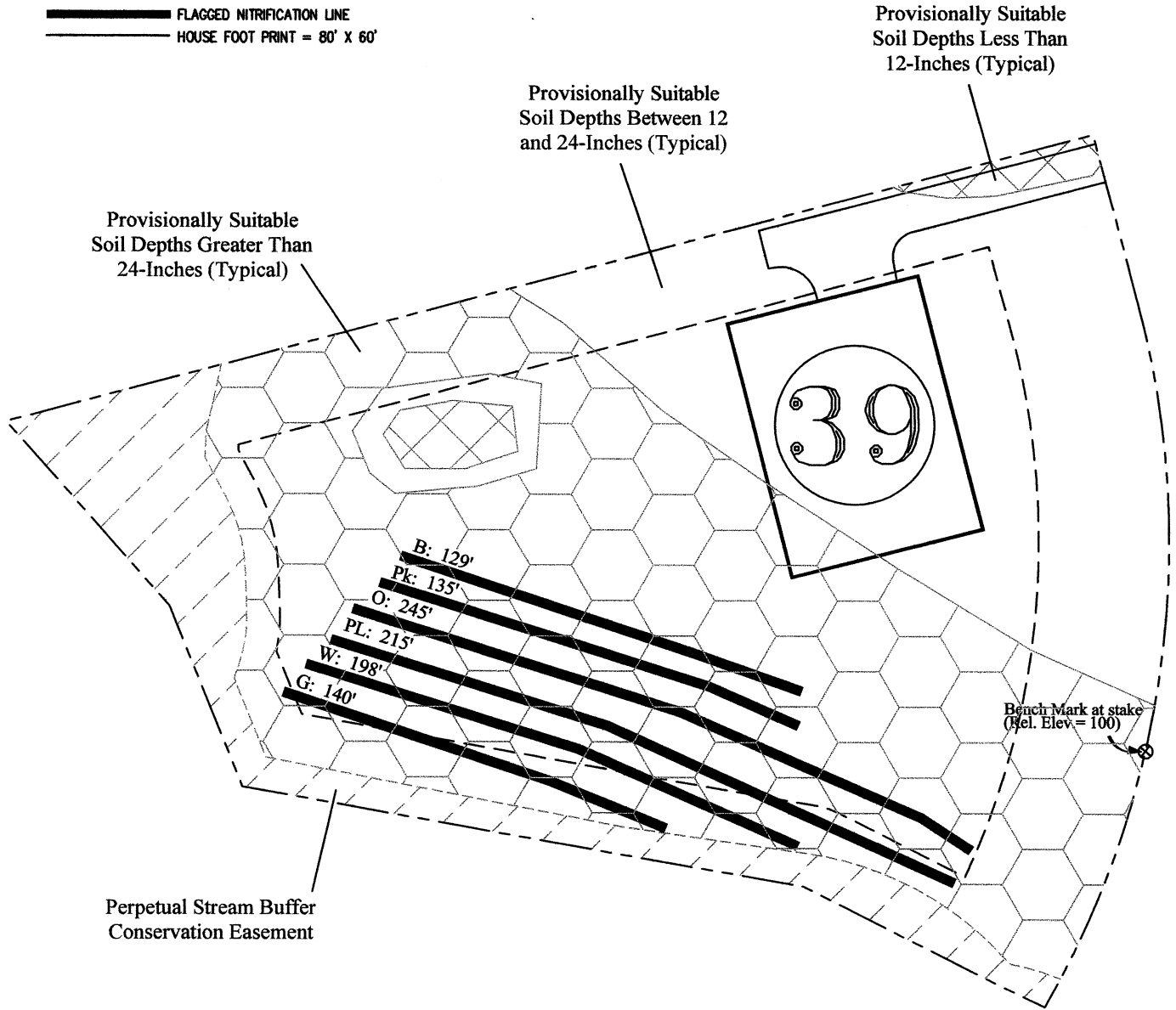
PARKER SPRINGS
RALEIGH, NC - CHATHAM COUNTY

LOT 38
INITIAL & REPAIR SYSTEM

Lot 39		
Flag Color	Line Length	Relative Elevation
Blue	130'	95.8
Pink	135'	95.3
Orange	240'	94.6
Purple	210'	93.8
White	190'	93.1
Green	135'	92.6
Total	1,040'	

Note: Nitrification Lines Flagged on 9-Foot Centers.

 FLAGGED NITRIFICATION LINE
 HOUSE FOOT PRINT = 80' X 60'



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PREPARED FOR: *Parker Springs, LLC*
c/o *Rusty Ammons*



DATE: January 8, 2008 SCALE: 1" = 50'

SOIL SCIENTIST CONTACT:
SCOTT MITCHELL, PE, LSS

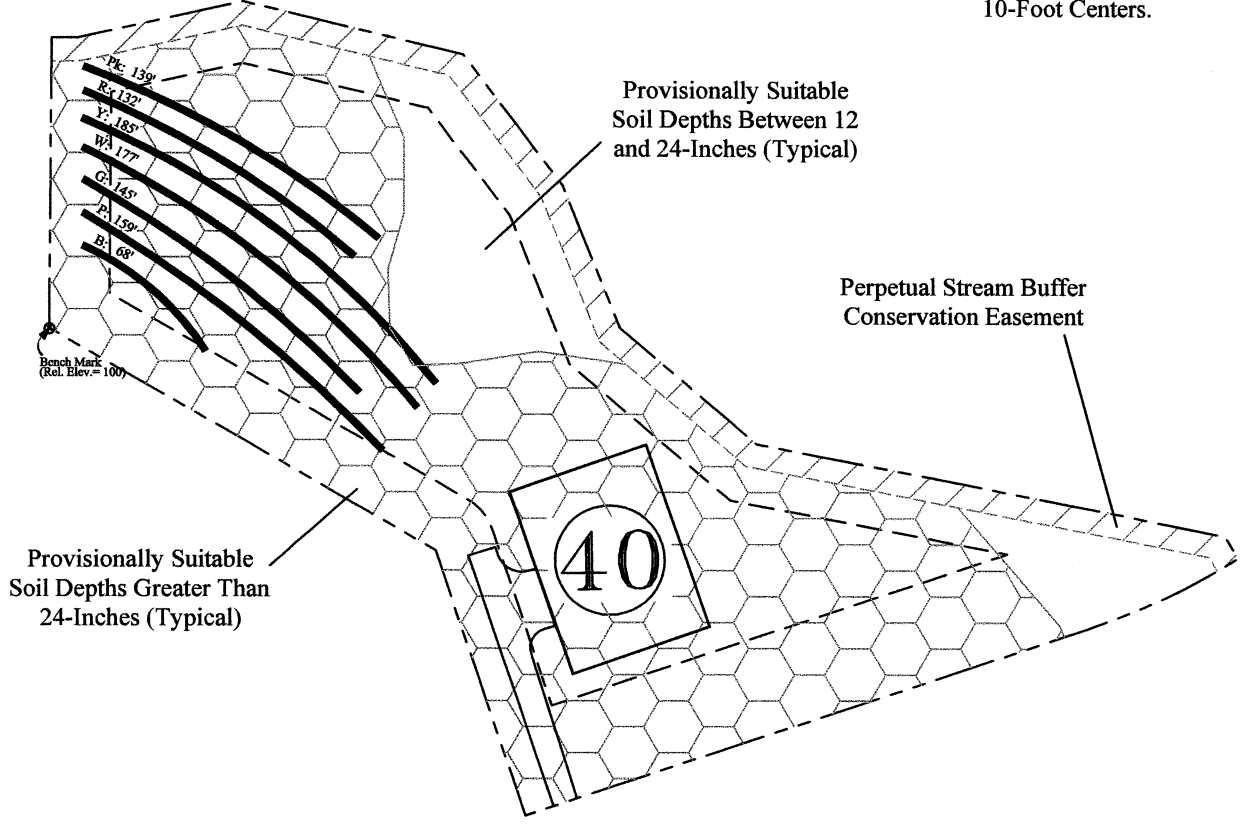
PARKER SPRINGS
 CHATHAM COUNTY, NC

LOT 39
INITIAL & REPAIR SYSTEM

Lot 40		
Flag Color	Line Length	Relative Elevation
Blue	65'	99.2
Pink	160'	95.7
Green	145'	93.2
White	175'	89.8
Yellow	185'	86.8
Pink	135'	83.4
Purple	140'	78.8
Total	1,005'	

 FLAGGED NITRIFICATION LINE
 HOUSE FOOT PRINT = 80' X 60'

Note: Nitrification Lines Flagged on 10-Foot Centers.





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PREPARED FOR: *Parker Springs, LLC*
 c/o *Rusty Ammons*
 DATE: January 8, 2008 SCALE: 1" = 80'
 SOIL SCIENTIST CONTACT:
 SCOTT MITCHELL, PE, LSS

PARKER SPRINGS
 CHATHAM COUNTY, NC
LOT 40
INITIAL & REPAIR SYSTEM

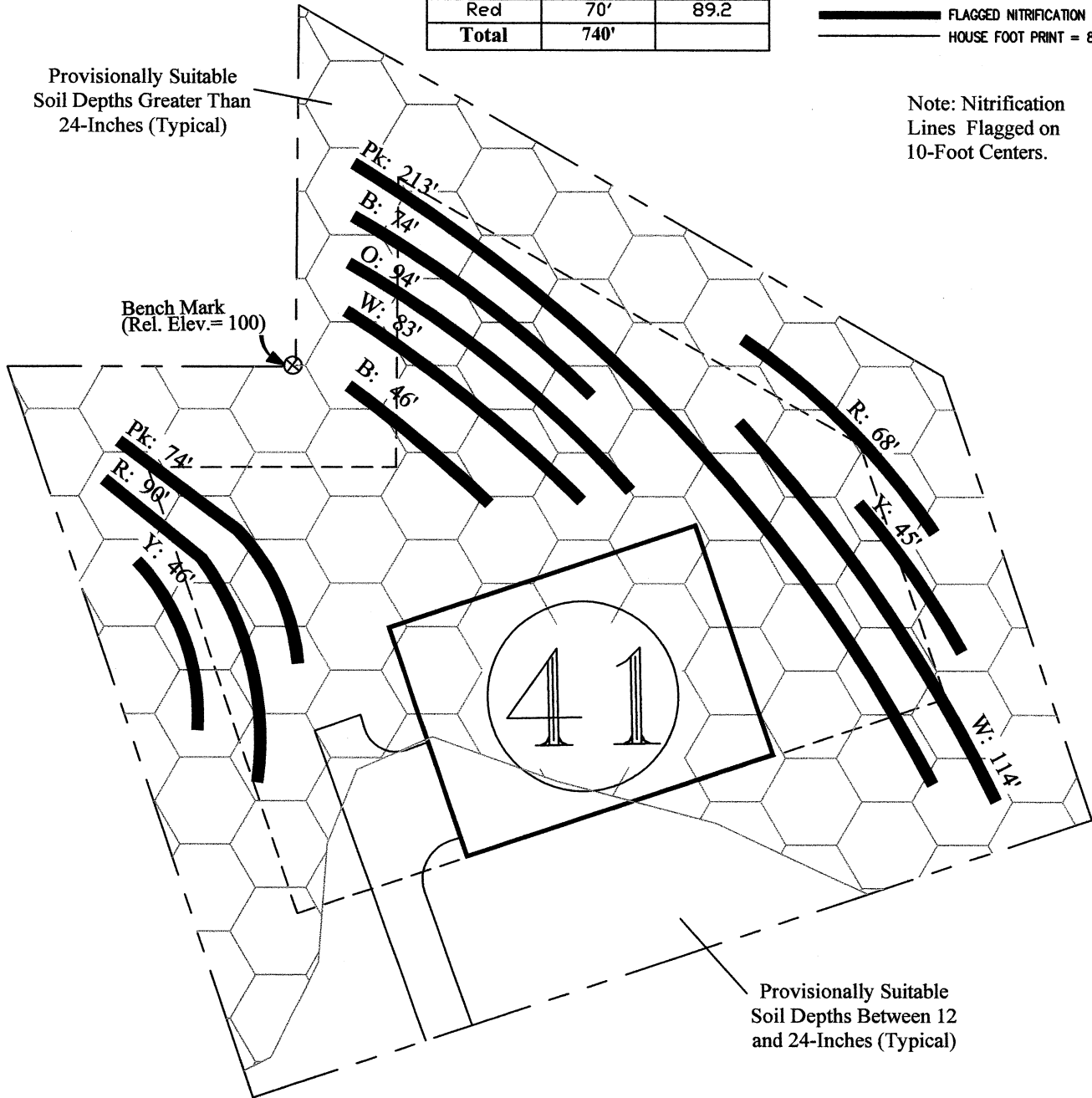
Lot 41 (A)		
Flag Color	Line Length	Relative Elevation
Blue	45'	99.8
White	80'	96.5
Orange	95	96.4
Blue	75'	96.4
Purple	215'	93.9
White	115'	91.8
Yellow	45'	90.7
Red	70'	89.2
Total	740'	

Lot 41 (B)		
Flag Color	Line Length	Relative Elevation
Yellow	45'	108.5
Red	90'	108
Pink	75'	106.3
Total	210'	

 FLAGGED NITRIFICATION LINE
 HOUSE FOOT PRINT = 80' X 60'

Provisionally Suitable
Soil Depths Greater Than
24-Inches (Typical)

Note: Nitrification
Lines Flagged on
10-Foot Centers.



Provisionally Suitable
Soil Depths Between 12
and 24-Inches (Typical)



MITCHELL ENVIRONMENTAL, P.A.

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PREPARED FOR: *Parker Springs, LLC*
c/o Rusty Ammons

DATE: January 8, 2008

SCALE: 1" = 40'

SOIL SCIENTIST CONTACT:

SCOTT MITCHELL, PE, LSS

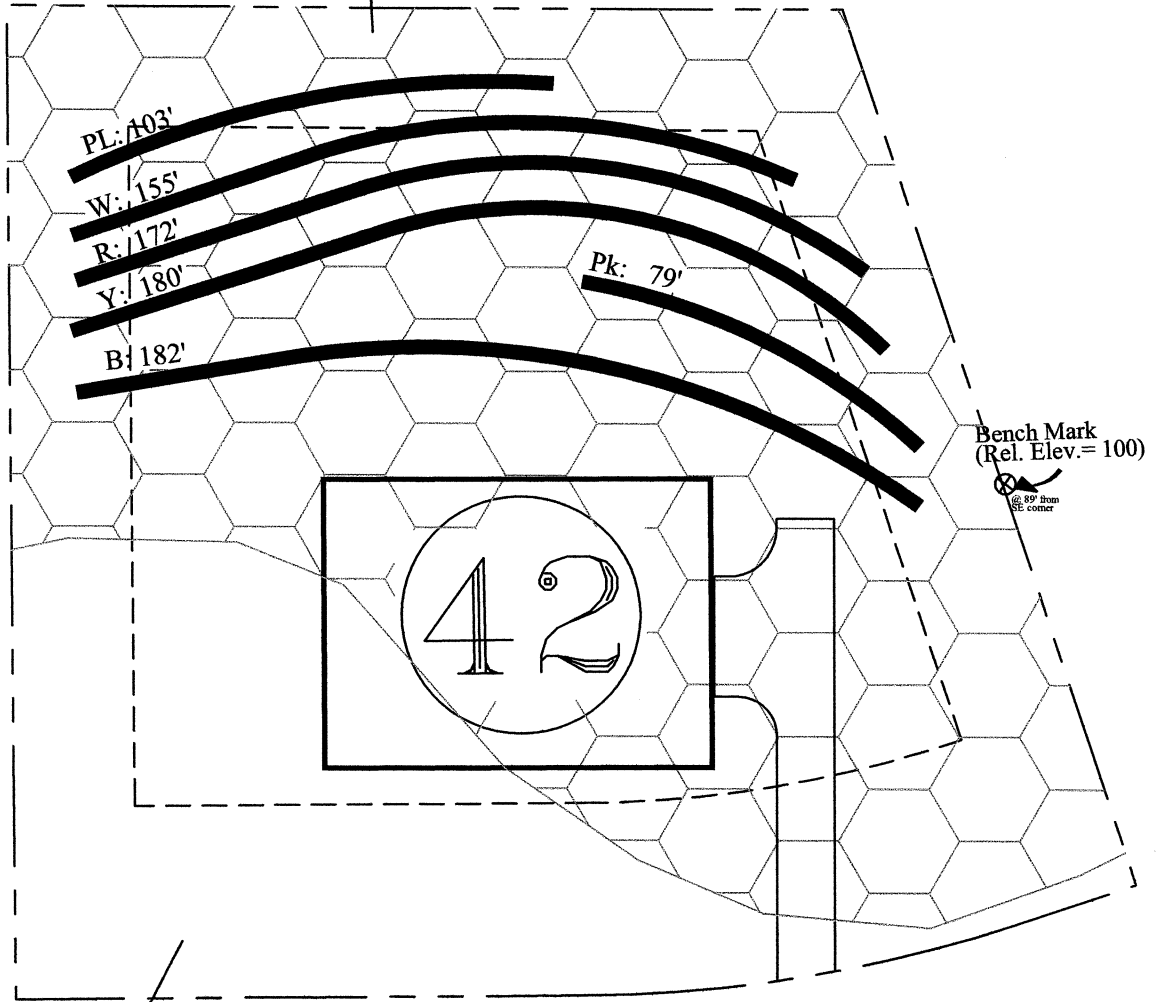
PARKER SPRINGS
CHATHAM COUNTY, NC

LOT 41
INITIAL & REPAIR SYSTEM

Note: Nitrification
Lines Flagged on
10-Foot Centers.

Lot 42		
Flag Color	Line Length	Relative Elevation
Blue	185'	99.3
Pink	80'	98
Yellow	180'	96.9
Red	175'	96.7
White	155'	95.5
Purple	105'	93.8
Total	880'	

Provisionally Suitable
Soil Depths Greater Than
24-Inches (Typical)



Provisionally Suitable
Soil Depths Between 12
and 24-Inches (Typical)



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SOIL SCIENTIST CONTACT:
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PARKER SPRINGS
CHATHAM COUNTY, NC

LOT 42
INITIAL & REPAIR SYSTEM

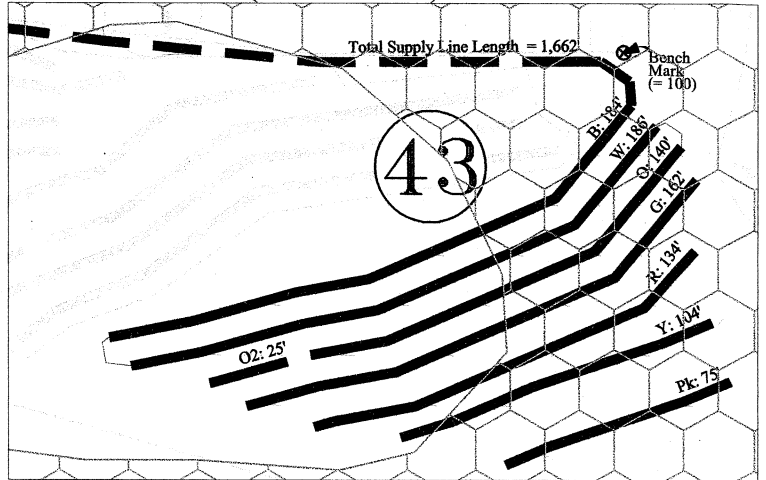
Serial Distribution System

Lot 43 - Offsite Field		
Flag Color	Line Length	Relative Elevation
Blue	184'	101.9
White	186'	102.6
Orange	170'	103.2
Green	162'	103.8
Red	134'	104.8
Yellow	104'	105
Pink	75'	105.9
Total	1,015'	

 NITRIFICATION LINES
 REMOTE SEPTIC SUPPLY LINE

Note: Nitrification Lines Flagged on 10-Foot Centers.

Detail View (Scale: 1" = 60')

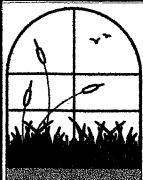
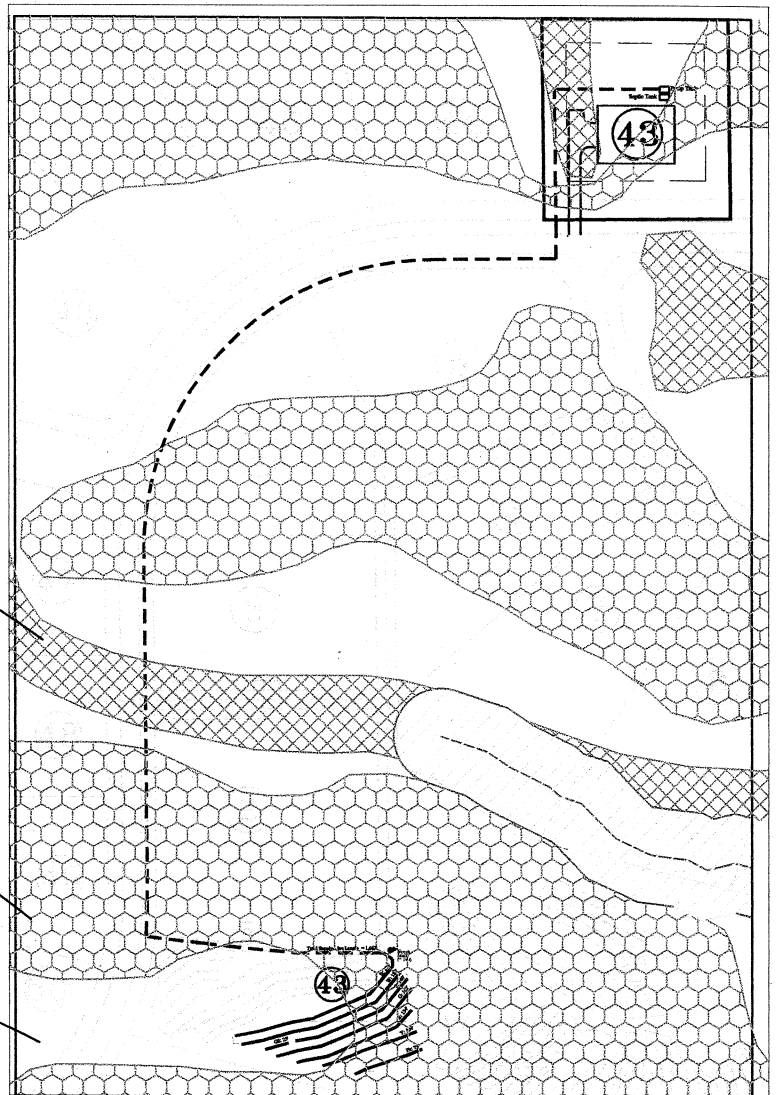


Overview (Scale: 1" = 200')

Provisionally Suitable Soil Depths Less Than 12-Inches (Typical)

Provisionally Suitable Soil Depths Greater Than 24-Inches (Typical)

Provisionally Suitable Soil Depths Between 12 and 24-Inches (Typical)



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PREPARED FOR:
Parker Springs, LLC
 c/o Rusty Ammons

DATE: JAN 8, 2008

SCALE: See above

SOIL SCIENTIST CONTACT:

SCOTT MITCHELL, PE, LSS

PARKER SPRINGS
 RALEIGH, NC - CHATHAM COUNTY

LOT 43
INITIAL & REPAIR SYSTEM

Note: Nitrification
Lines Flagged on
10-Foot Centers.

Lot 44		
Flag Color	Line Length	Relative Elevation
White	50'	103.9
Yellow	70'	103
Red	90'	101.1
Orange	115'	101
Blue	100'	99.8
Purple	85'	98.4
Yellow	55'	105.6
Red	80'	103.8
Blue	125'	103.2
Yellow	135'	101.2
White	105'	98.7
Total	1,010'	

Provisionally Suitable
Soil Depths Greater Than
24-Inches (Typical)

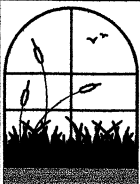
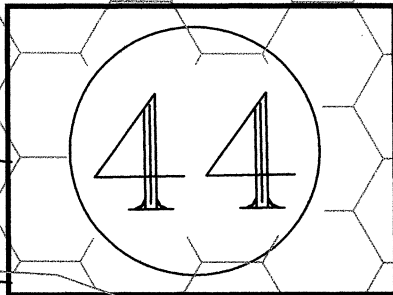
———— FLAGGED NITRIFICATION LINE
———— HOUSE FOOT PRINT = 80' X 60'

Bench Mark
(Rel. Elev. = 100)

Provisionally Suitable
Soil Depths Less Than
12-Inches (Typical)

Provisionally Suitable
Soil Depths Between 12
and 24-Inches (Typical)

Y: 55'
B: 100'
O: 112'
R: 188'
Y: 70'
W: 150'
R: 78'
B: 125'
Y: 136'
W: 104'



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PREPARED FOR: *Parker Springs, LLC*
c/o *Rusty Ammons*

DATE: January 8, 2008

SCALE: 1" = 40'

SOIL SCIENTIST CONTACT:

SCOTT MITCHELL, PE, LSS

PARKER SPRINGS
CHATHAM COUNTY, NC

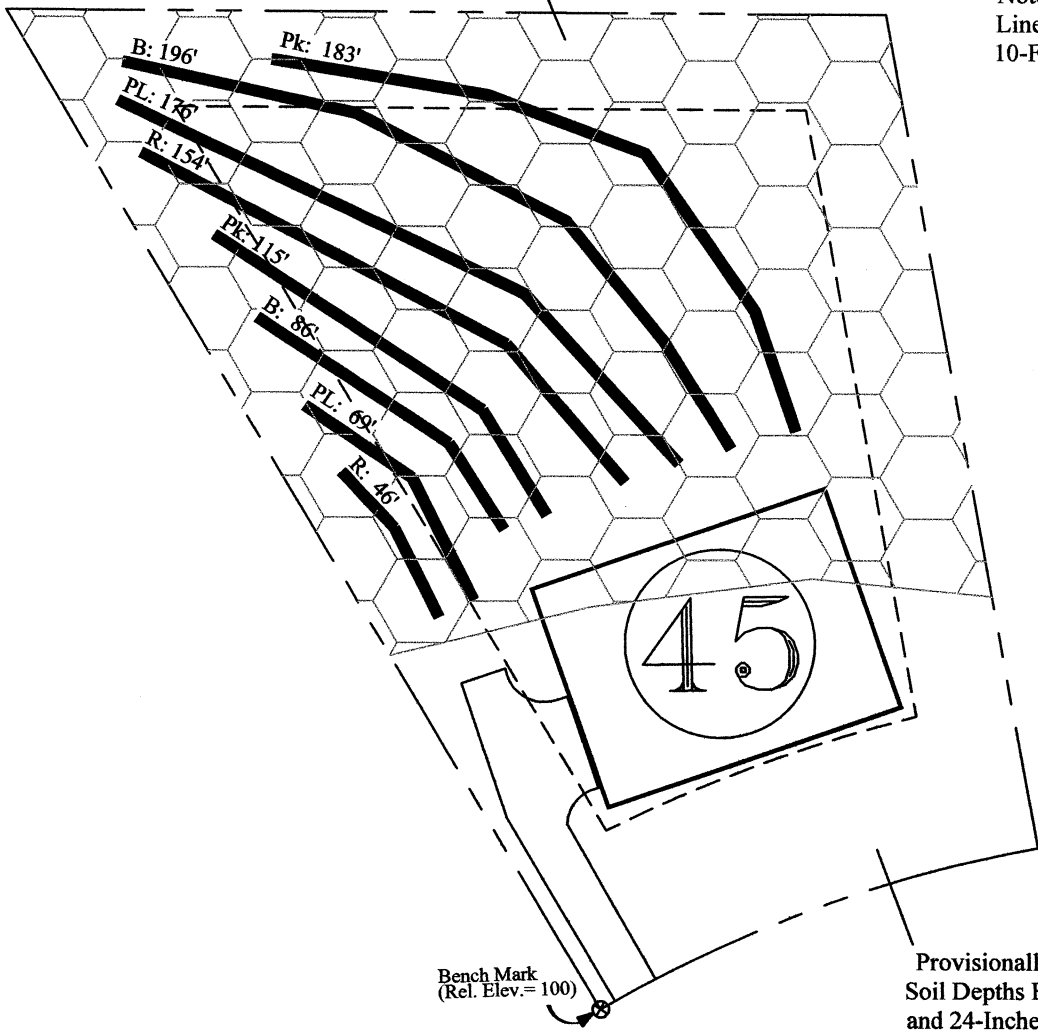
LOT 44
INITIAL & REPAIR SYSTEM

Lot 45		
Flag Color	Line Length	Relative Elevation
Red	45'	97.4
Purple	70'	96.3
Blue	90'	94.7
Pink	115'	93.3
Red	155'	91.5
Purple	175'	90.2
Blue	175'	89.5
Pink	175'	87.5
Total	1,000'	

Provisionally Suitable
Soil Depths Greater Than
24-Inches (Typical)

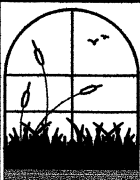
———— FLAGGED NITRIFICATION LINE
 ———— HOUSE FOOT PRINT = 80' X 60'

Note: Nitrification
Lines Flagged on
10-Foot Centers.



Bench Mark
(Rel. Elev.= 100)

Provisionally Suitable
Soil Depths Between 12
and 24-Inches (Typical)



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 c/o Rusty Ammons

DATE: January 8, 2008 SCALE: 1" = 50'

SOIL SCIENTIST CONTACT:
 SCOTT MITCHELL, PE, LSS

PARKER SPRINGS
 CHATHAM COUNTY, NC

LOT 45
 INITIAL & REPAIR SYSTEM

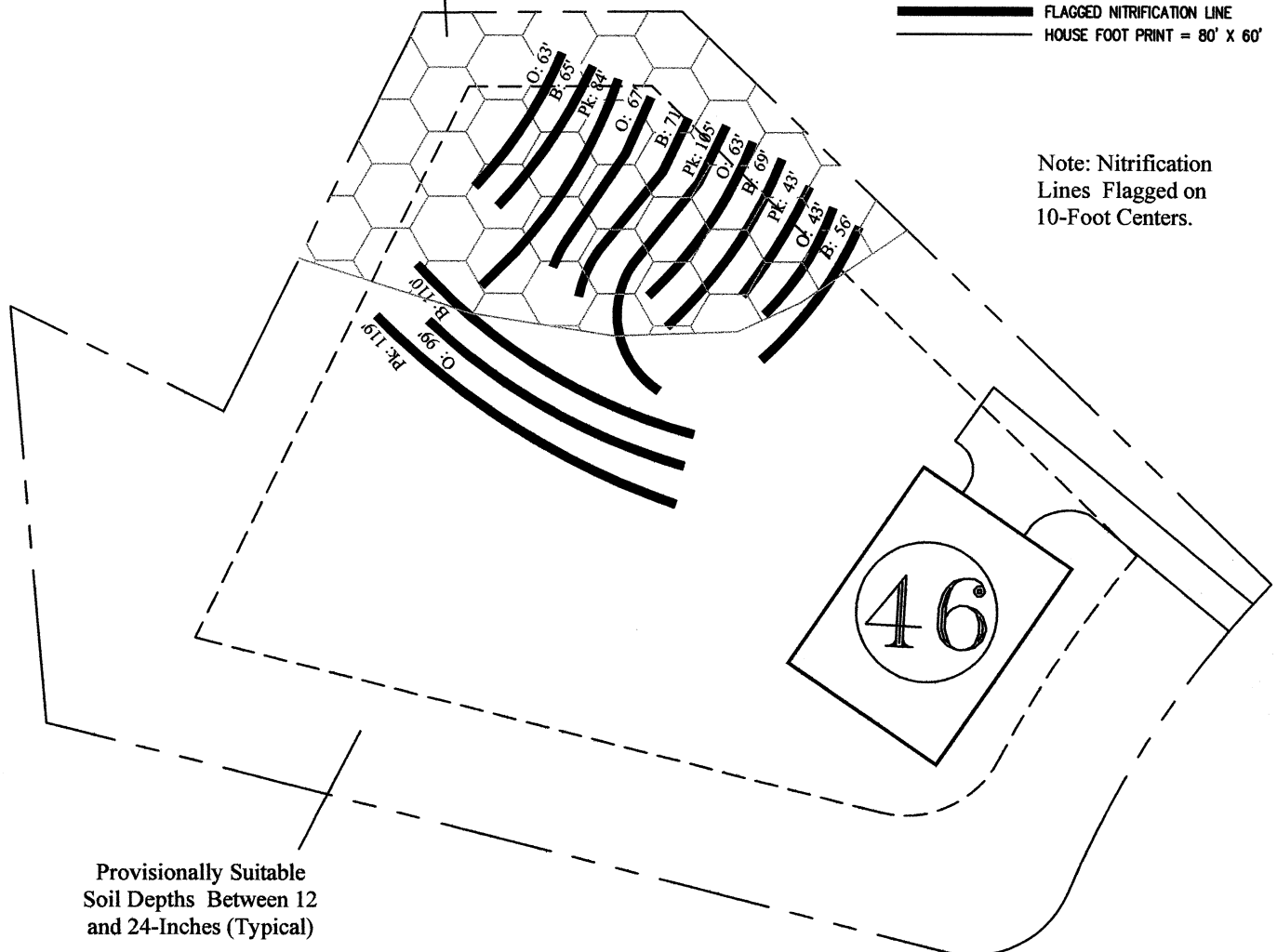
Lot 46

Flag Color	Line Length	Relative Elevation
Blue	55'	101.8
Orange	45'	101.5
Pink	45'	101.3
Blue	70'	101.2
Orange	65'	101.1
Pink	105'	100.8
Blue	70'	100.9
Orange	65'	100.8
Pink	85'	100.7
Blue	65'	100.8
Orange	60'	101.2
Blue	110'	99.7
Orange	100'	99
Pink	115'	97.8
Total	1,055'	

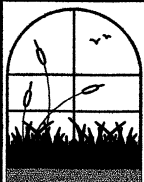
Provisionally Suitable
Soil Depths Greater Than
24-Inches (Typical)

FLAGGED NITRIFICATION LINE
 HOUSE FOOT PRINT = 80' X 60'

Note: Nitrification
Lines Flagged on
10-Foot Centers.



Provisionally Suitable
Soil Depths Between 12
and 24-Inches (Typical)



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c/o *Rusty Ammons*

DATE: January 8, 2008

SCALE: 1" = 60'

SOIL SCIENTIST CONTACT:


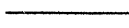
SCOTT MITCHELL, PE, LSS

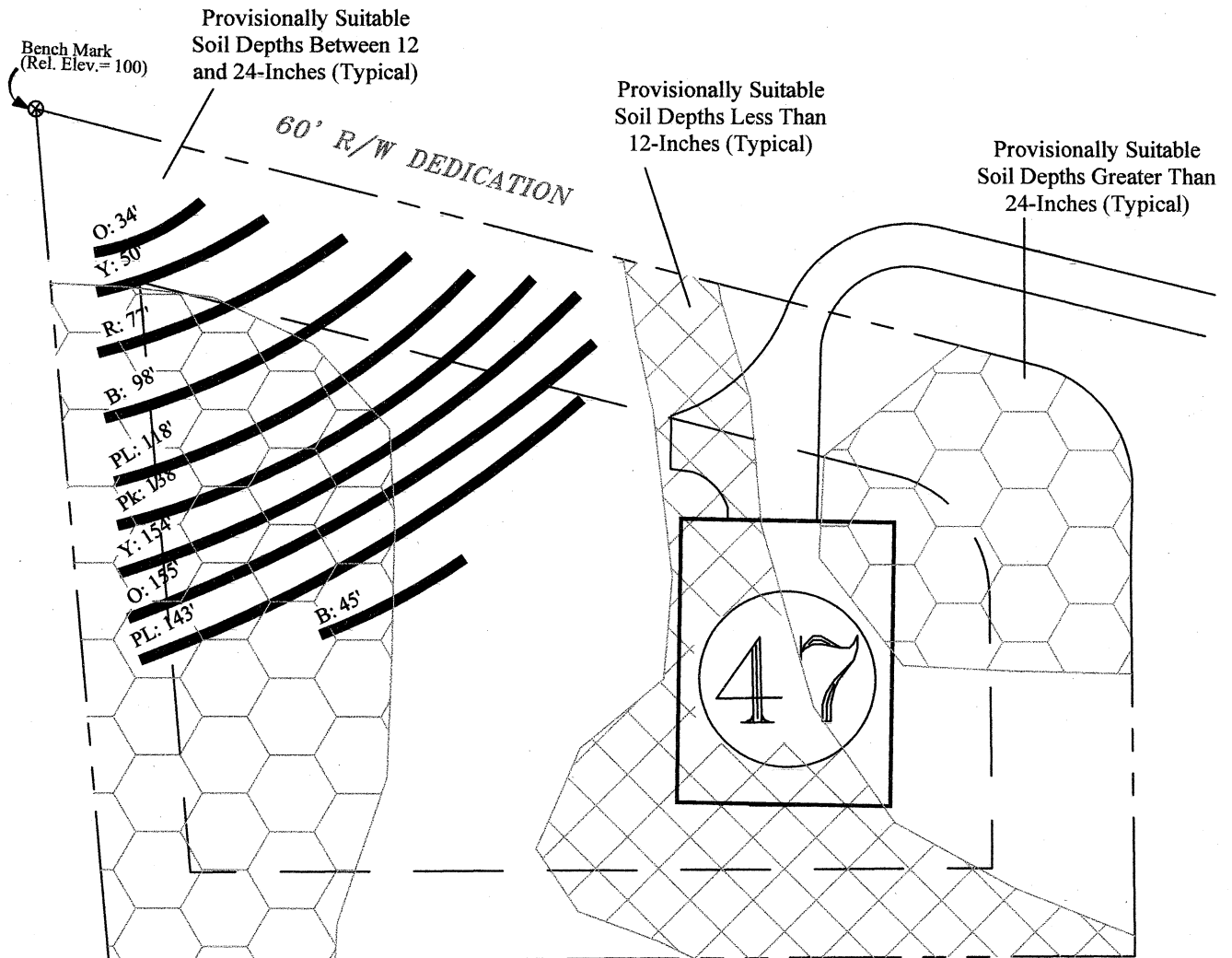
PARKER SPRINGS
CHATHAM COUNTY, NC

LOT 46
INITIAL & REPAIR SYSTEM

Lot 47		
Flag Color	Line Length	Rod Read
Orange	35'	101.4
Yellow	50'	100.3
Red	75'	98.4
Blue	100'	96.9
Purple	115'	95.5
Pink	135'	94
Yellow	155'	92.9
Orange	155'	90.8
Purple	140'	89.9
Blue	45'	88.1
Total	1,005'	

Note: Nitrification Lines Flagged on 10-Foot Centers.

 FLAGGED NITRIFICATION LINE
 HOUSE FOOT PRINT = 80' X 60'



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DATE: January 8, 2008 SCALE: 1" = 50'


SOIL SCIENTIST CONTACT:
SCOTT MITCHELL, PE, LSS

PARKER SPRINGS
 CHATHAM COUNTY, NC

LOT 47
INITIAL & REPAIR SYSTEM

Lot 48

Flag Color	Line Length	Relative Elevation
Orange	75'	103.1
Pink	90'	102.7
Blue	100'	102.1
Orange	140'	101.2
Pink	150'	100.3
Blue	165'	99.8
Orange	135'	98.7
Pink	150'	97.9
Blue	125'	96.8
Total	1,130'	

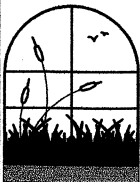
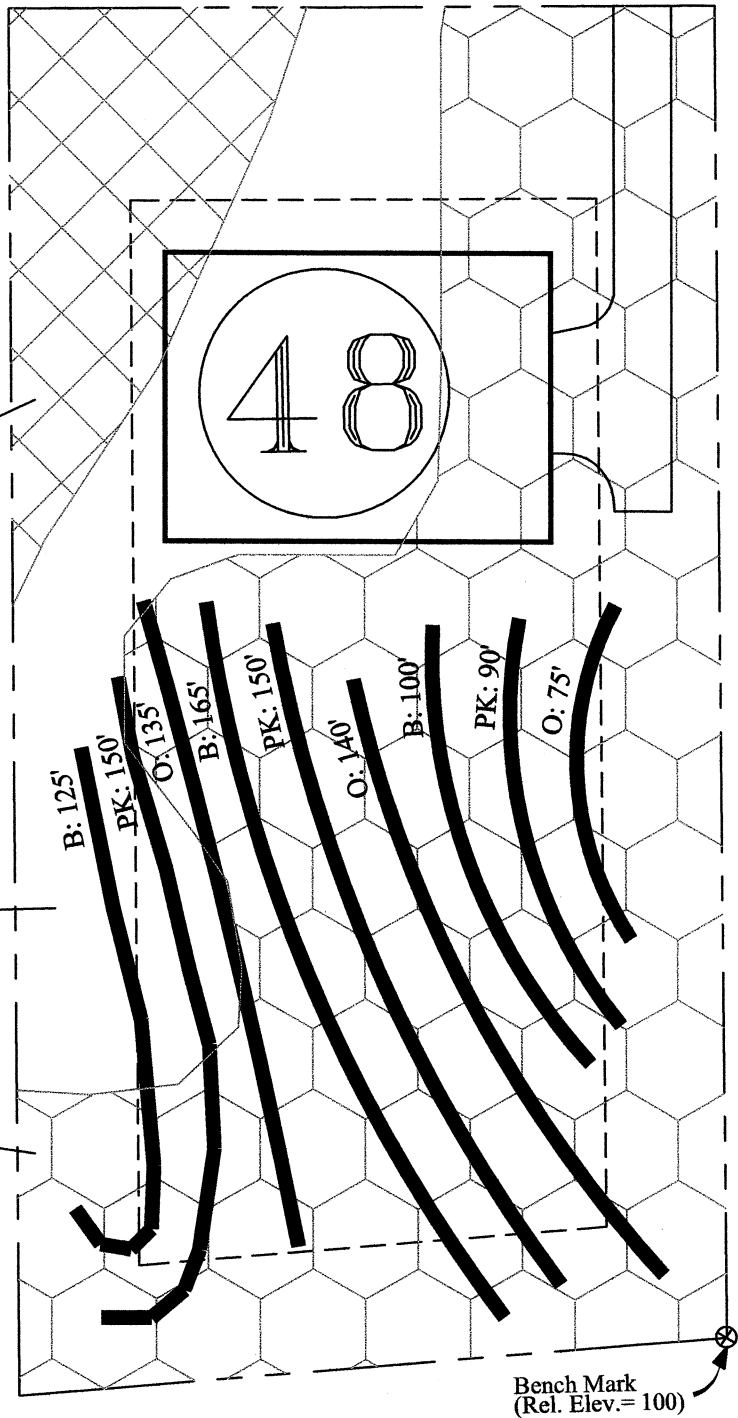
 FLAGGED NITRIFICATION LINE
 HOUSE FOOT PRINT = 80' X 60'

Provisionally Suitable
Soil Depths Less Than
12-Inches (Typical)

Note: Nitrification
Lines Flagged on
10-Foot Centers.

Provisionally Suitable
Soil Depths Between 12
and 24-Inches (Typical)

Provisionally Suitable
Soil Depths Greater Than
24-Inches (Typical)



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DATE: January 8, 2008

SCALE: 1" = 40'

SOIL SCIENTIST CONTACT:

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PARKER SPRINGS
CHATHAM COUNTY, NC

LOT 48
INITIAL & REPAIR SYSTEM

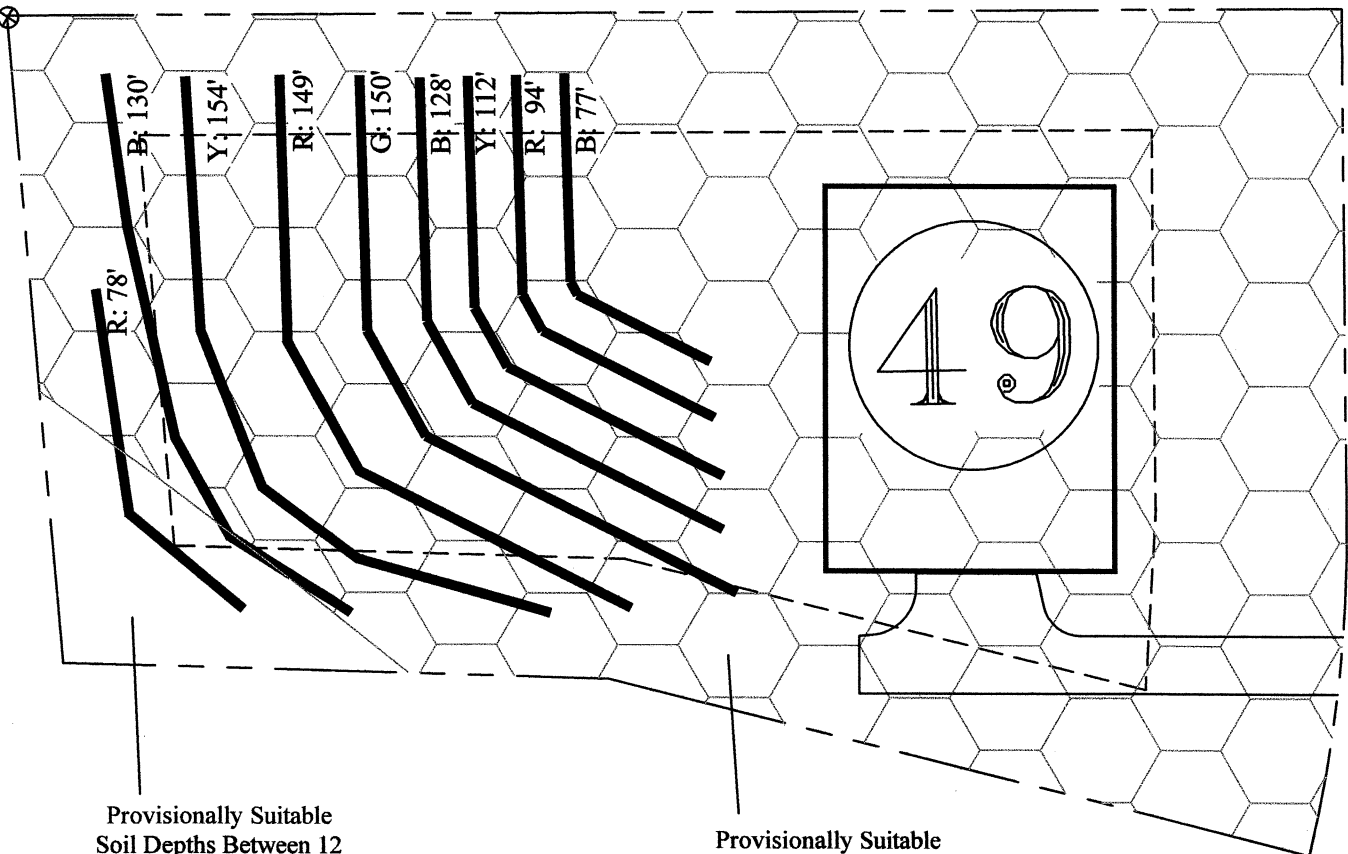
Lot 49

Flag Color	Line Length	Relative Elevation
Blue	75'	98.5
Red	90'	97.7
Yellow	110'	97.2
Blue	120'	95.9
Green	150'	95
Blue	150'	94.6
Yellow	155'	94.3
Blue	130'	93.7
Red	80'	92.7
Total	1,070'	

Note: Nitrification
Lines Flagged on
10-Foot Centers.

FLAGGED NITRIFICATION LINE
 HOUSE FOOT PRINT = 80' X 60'

Bench Mark
(Rel. Elev. = 100)



Provisionally Suitable
Soil Depths Between 12
and 24-Inches (Typical)

Provisionally Suitable
Soil Depths Greater Than
24-Inches (Typical)



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SCALE: 1" = 40'

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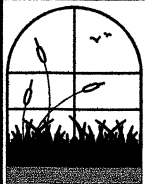
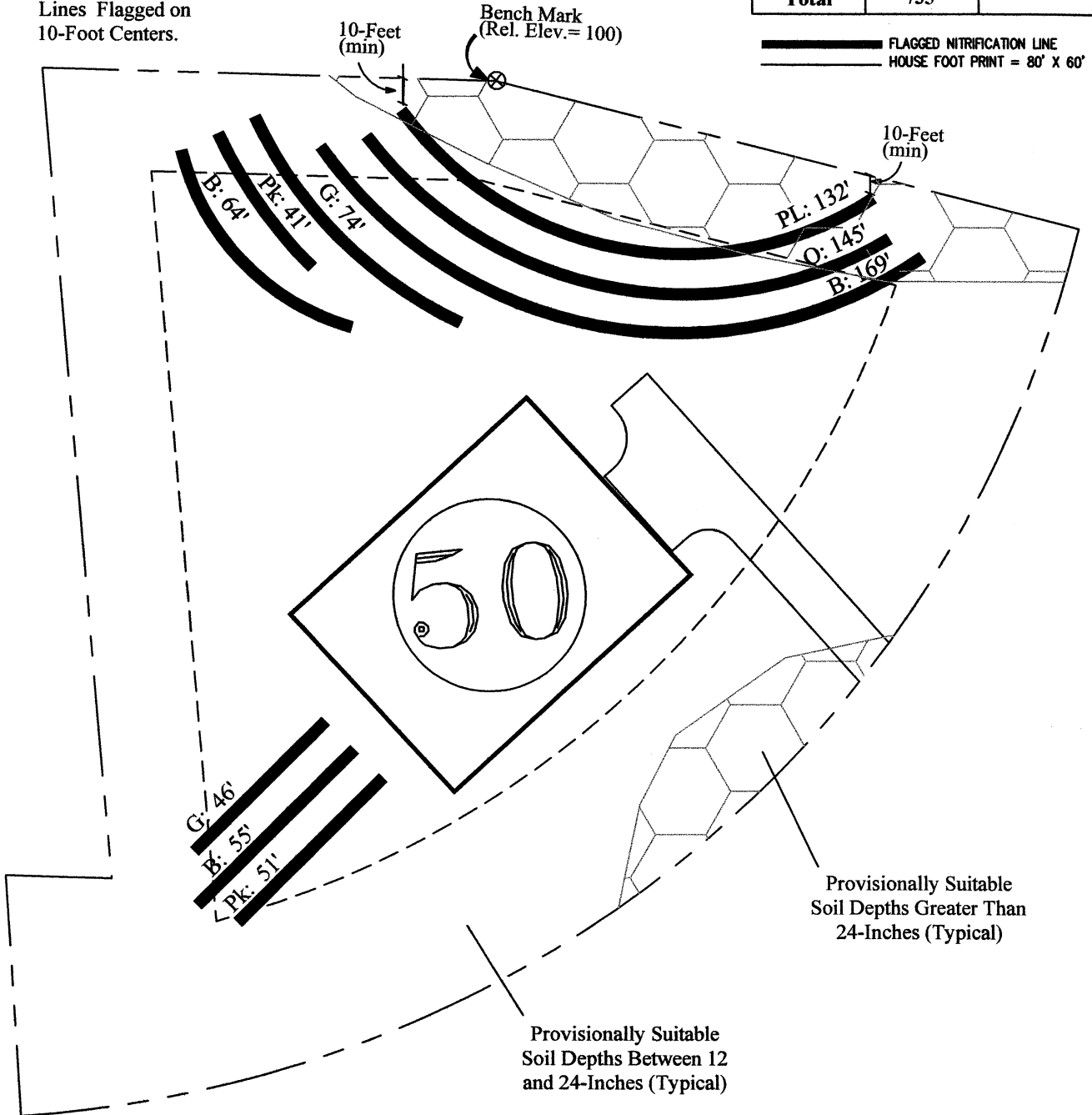
PARKER SPRINGS
CHATHAM COUNTY, NC

LOT 49
INITIAL & REPAIR SYSTEM

Lot 50 (B)		
Flag Color	Line Length	Relative Elevation
Green	45'	103.7
Blue	55'	102.5
Pink	50'	101.7
Total	150'	

Lot 50 (A)		
Flag Color	Line Length	Relative Elevation
Purple	135'	99.7
Orange	145'	99
Blue	170'	97.8
Green	75'	96.7
Pink	40'	96.2
Blue	65'	94.9
Orange	60'	94.2
Green	45'	93.9
Total	735'	

Note: Nitrification Lines Flagged on 10-Foot Centers.



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PARKER SPRINGS
CHATHAM COUNTY, NC

LOT 50
INITIAL & REPAIR SYSTEM

Anticipated Septic Type (1 - 25)		
LOT	TYPE (gpd/ft2)	BEDRMS.
Lot 1 - Initial / Repair	Conventional (0.30) / LPP (0.125)	4
Lot 2 - Initial / Repair	LPP (0.125) / LPP (0.125)	5
Lot 3 - Initial / Repair	LPP (0.125) / LPP (0.125)	5
Lot 4 - Initial / Repair	Conventional (0.28) / LPP (0.100)	4
Lot 5 - Initial / Repair	Conventional (0.30) / LPP (0.125)	5
Lot 6 - Initial / Repair	Conventional (0.30) / LPP (0.125)	4
Lot 7 - Initial / Repair	Conventional (0.30) / LPP (0.125)	4
Lot 8 - Initial / Repair	Conventional (0.30) / LPP (0.125)	4
Lot 9 - Initial / Repair	Conventional (0.30) / LPP (0.125)	4
Lot 10 - Initial / Repair	Conventional (0.30) / LPP (0.125)	4
Lot 11 - Initial / Repair	Conventional (0.30) / LPP (0.125)	4
Lot 12 - Initial / Repair	Conventional (0.30) / LPP (0.125)	5
Lot 13 - Initial / Repair	Conventional (0.30)/Conventional (0.30)	5
Lot 14 - Initial / Repair	Conventional (0.30) / LPP (0.125)	5
Lot 15 - Initial / Repair	Conventional (0.30) / LPP (0.125)	5
Lot 16 - Initial / Repair	Conventional (0.30) / LPP (0.125)	4
Lot 17 - Initial / Repair	Conventional (0.30)/Conventional (0.30)	4
Lot 18 - Initial / Repair	Conventional (0.30)/Conventional (0.30)	4
Lot 19 - Initial / Repair	Conventional (0.30)/Conventional (0.30)	4
Lot 20 - Initial / Repair	Conventional (0.30)/Conventional (0.30)	4
Lot 21 - Initial / Repair	Conventional (0.30)/Conventional (0.30)	4
Lot 22 - Initial / Repair	Conventional (0.30) / LPP (0.125)	5
Lot 23 - Initial / Repair	Conventional (0.30) / LPP (0.125)	5
Lot 24 - Initial / Repair	LPP (0.125) / LPP (0.125)	5
Lot 25 - Initial / Repair	LPP (0.125) / LPP (0.125)	5

Anticipated Septic Type (25 - 50)		
LOT	TYPE (gpd/ft2)	BEDRMS.
Lot 26 - Initial / Repair	Conventional (0.30) / LPP (0.125)	5
Lot 27 - Initial / Repair	Conventional (0.30) / LPP (0.125)	5
Lot 28 - Initial / Repair	Conventional (0.30) / LPP (0.125)	5
Lot 29 - Initial / Repair	Conventional (0.28) / LPP (0.120)	4
Lot 30 - Initial / Repair	Conventional (0.30) / LPP (0.120)	4
Lot 31 - Initial / Repair	Conventional (0.30) / DRIP (0.100)	4
Lot 32 - Initial / Repair	Conventional (0.30) / DRIP (0.100)	4
Lot 33 - Initial / Repair	Conventional (0.30) / LPP (0.125)	5
Lot 34 - Initial / Repair	Conventional (0.30) / LPP (0.125)	5
Lot 35 - Initial / Repair	Conventional (0.30) / LPP (0.125)	5
Lot 36 - Initial / Repair	LPP (0.125) / LPP (0.125)	4
Lot 37 - Initial / Repair	Conventional (0.30)/Conventional (0.30)	5
Lot 38 - Initial / Repair	Conventional (0.30)/Conventional (0.30)	5
Lot 39 - Initial / Repair	Conventional (0.30)/Conventional (0.30)	5
Lot 40 - Initial / Repair	Conventional (0.30) / LPP (0.125)	5
Lot 41 - Initial / Repair	Conventional (0.30) / LPP (0.125)	4
Lot 42 - Initial / Repair	Conventional (0.30)/Conventional (0.30)	4
Lot 43 - Initial / Repair	LPP (0.125) / LPP (0.125)	5
Lot 44 - Initial / Repair	LPP (0.125) / DRIP (0.100)	4
Lot 45 - Initial / Repair	Conventional (0.30) / LPP (0.125)	5
Lot 46 - Initial / Repair	Conventional (0.30) / LPP (0.125)	5
Lot 47 - Initial / Repair	LPP (0.125) / DRIP (0.100)	4
Lot 48 - Initial / Repair	LPP (0.125) / LPP (0.125)	5
Lot 49 - Initial / Repair	LPP (0.125) / LPP (0.125)	5
Lot 50 - Initial / Repair	LPP (0.125) / DRIP (0.100)	4