Carolina Environmental Consultants, Inc., P.A.

304 Breckenridge Court, Lexington, NC 27292 • Phone 336-596-7585

7-2-2014

Mecklenburg County Ground Water and Wastewater Services
Attn: Jacob Presley

Re: Post installation inspection at lot 1 of Oakbridge at Waterleaf

Carolina Environmental Consultants (CEC) has performed a post installation inspection on the wastewater system located on lot 1 of Oakbridge at Waterleaf. The system was covered during the time of inspection however it does appear to be installed in accordance with our design.

Eric Bailey
NC Licensed Soil Scientist
NC Septic System Inspector
VA Licensed Soil Scientist
REHS

Mecklenburg County Groundwater & Wastewater Services
700 N. Tryon St., Suite 211 Charlotte, NC 28202
Phone: (704) 336-5103 Fax: (704) 336-6894

NC DENR
Division of Environmental Health
On-Site Wastewater Section

OPERATION PERMIT for an ON-SITE WASTEWATER TREATMENT & DISPOSAL SYSTEM

File #: 8860B Permit #: 6578 Tax Parcel #: 139-282-33

Property Owner: True Homes

Job Location Address: 14914 Bagley Ln

City: Charlotte State: NC Zip Code: 28227

Operation Permit Issuance Date: 7-3-14 Contractor Name: Steven's Septic

Permitted Design Flow: 480 GPD Liquid Capacity of Dosing Tank: NA gallons

Liquid Capacity of Septic Tank: 1500 gallons Effluent Pump Model: NA

Drainfield Installation ☐ N/A

Trench Depth: 36 inches

Trench Width: 3 feet

Line Spacing: 9 *feet (O.C.)*

Total line length: 300 feet

# of Lines: 6 @ 50 feet

Depth of Media: 22 inches (Type) PPBPS

Depth of Cover: 7/14 inches

Distribution Device: Distribution Box

Bed Installation *(For Repair Installations ONLY.)* ☒ N/A

Bed Depth: _____ inches

Bed Width: _____ feet

Total line length: _____ feet

# of Lines: _____ @ _____ feet

Depth of Media: _____ inches (Type) _____

Depth of Cover: _____ inches

Distribution Device: _____

Water Supply Source

☒ Municipal ☐ Private Well ☐ Community Well

☐ Other _____

System Installation Setbacks

Distance from Building Foundation: 10 feet

Distance from Property Line: 710 feet

Distance from Water Supply Source: >10 feet

Inspection Dates

Tank(s) Inspected: 5-30-14

Excavation Inspected: 5-30-14

Pump & Controls Inspected: NA

SKETCH OF SYSTEM INSTALLATION
(As-Built Drawing)

Installed per Consultant design. Driveway was installed near middle of lot. Repair areas on both sides of driveway. Repair area on left side of drive should have 36" trench bottom due to 8" of compacted soil at surface.

The undersigned has inspected the Septic Tank System described above, and certifies it has been ☐ installed ☐ altered ☐ repaired ☐ as detailed in the plot above ☐ in accordance with the permit issued and meets the provisions of 15A NCAC 18A. 1900, "Laws and Rules for Sewage Treatment and Disposal Systems" in effect on the date of issuance of the permit. The issuance of this Operation Permit does not in any way guarantee that the system will operate properly or relieve any person now or hereafter owning, controlling, or using such system from any liability resulting from the failure of the system to operate properly. This document is issued subject to those restrictions and conditions shown on the permit(s) and the provisions of 15A NCAC 18A. 1900 in addition to those listed below under "Comments." *This document shall be null and void if any information contained in the application is untrue or if any additions are made to the property which would increase the requirements for said system.*

Notice: Disturbance of the designated repair area may result in the Suspension or Revocation of this permit.

Comments: System Classification & Type: IIIe, PPBPS, G, NA, NA

5 lines (lower) inspected 5/29/14 no plumbing ST - Dellinger STB338-1500 G-7-14

DENR Authorized Agent: Sarah Presley Signature: _____

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700 N. Tryon St., Suite 211 Charlotte, NC 28202
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NC DENR
Division of Environmental Health
On-Site Wastewater Section

OPERATION PERMIT for an
ON-SITE WASTEWATER TREATMENT & DISPOSAL SYSTEM

File #: 8860B Permit #: 6578 Tax Parcel #: 139-282-33

Property Owner: True Homes

Job Location Address: 14914 Bayley Ln

City: Charlotte State: NC Zip Code: 28227

OPERATION PERMIT CONDITIONS:

I. Performance: System shall perform in accordance with 15A NCAC 18A .1961.

II. Monitoring: System shall be monitored as required by 15A NCAC 18A .1961.

III. Maintenance: Ground absorption sewage treatment and disposal systems shall be checked, and the contents of the septic tank removed, periodically from all compartments, to ensure proper operation of the system. The contents shall be pumped whenever the solids level is found to be more than 1/3 of the liquid depth in any compartment.

IV. Operation: System shall be operated in accordance with 15A NCAC 18A .1961.

System Classification: IIIe

*Operation Permits for Type V and VI systems expire five (5) years from the date of issuance (in accordance with Table V(a)). The system owner must contact GWS six (6) months prior to expiration for permit renewal.

Subsurface system operator required: Yes ☐ No ☒

☐ This type of system requires the system owner to maintain a contract with a certified operator to perform system inspection, maintenance, and reporting as required in 15A NCAC 18A .1961. and Table V(a). The system owner is responsible for all fees associated with these services.

☐ System does not require inspection by GWS on a routine frequency.

☐ System requires inspection by GWS once every five (5) years. The system owner is responsible for all fees associated with the inspection.

☐ System requires inspection by GWS once every three (3) years. The system owner is responsible for all fees associated with the inspection.

☐ System requires inspection by GWS once every twelve (12) months. The system owner is responsible for all fees associated with the inspection.

☐ System requires inspection by GWS once every six (6) months. The system owner is responsible for all fees associated with the inspection.

V. Other:

DENR Authorized Agent: Jacob Presley Date: 5-30-14

Signature:

Mecklenburg County Groundwater & Wastewater Services
700 N. Tryon St., Suite 211 Charlotte, NC 28202
Phone: (704) 336-5103 Fax: (704) 336-6894

NC DENR
Division of Environmental Health
On-Site Wastewater Section

INSTALLATION APPROVAL for an
ON-SITE WASTEWATER TREATMENT & DISPOSAL SYSTEM

File #: 88603 Permit #: 6578 Tax Parcel #: 139-282-33

Property Owner: True Homes

Job Location Address: 14914 Bagley Ln

City: Charlotte State: NC Zip Code: 28227

Installation Approval Issuance Date: 5/22/14

Permission is hereby given to ☒ install ☐ alter ☐ repair an on-site wastewater treatment & and disposal system, with subsurface soil *absorption and effluent discharge, as specified herein at the described location. This approval is granted based upon the application* information submitted to our office. All work shall be completed on or before _____, after which date this approval shall be null and void. The system shall meet all of the construction requirements of 15A NCAC 18A. 1900 which are in effect on the date of granting this approval. An **Operation Permit** must be obtained from the Mecklenburg County Health Department before any system can be covered up or placed into service. The issuance of this permit does not in any way guarantee that the system anticipated to be constructed will operate properly, or relieve any person now of hereafter owning, controlling or using such system from any liability resulting from the failure of the system to operate properly.

***NOTICE: This system shall not be installed while soils are in a wet condition.**

Permitted Design Flow: 480 GPD

Site LTAR: .275 GPD/ft² (For new installations only.)

Liquid Capacity of Septic Tank: 1500 gallons

Liquid Capacity of Dosing Tank: NA gallons

Drainfield Design ☐ N/A

Trench Depth: 36" inches

Trench Width: 3 feet

Line Spacing: 9 feet (O.C.)

Total line length: 300 feet

# of Lines: 6 @ 50 feet

Depth of Media: NA inches (Type) Title

Distribution Device: D-Box

Bed Design *(For Repair Installations ONLY.)* ☒ N/A

Bed Depth: _____ inches

Bed Width: _____ feet

Total line length: _____ feet

# of Lines: _____ @ _____ feet

Depth of Media: _____ inches (Type) _____

Distribution Device: _____

Water Supply Source

☒ Municipal ☐ Private Well ☐ Community Well

☐ Other _____

Minimum System Setbacks

Distance from Building Foundation: 5' min feet

Distance from Property Line: 10' min feet

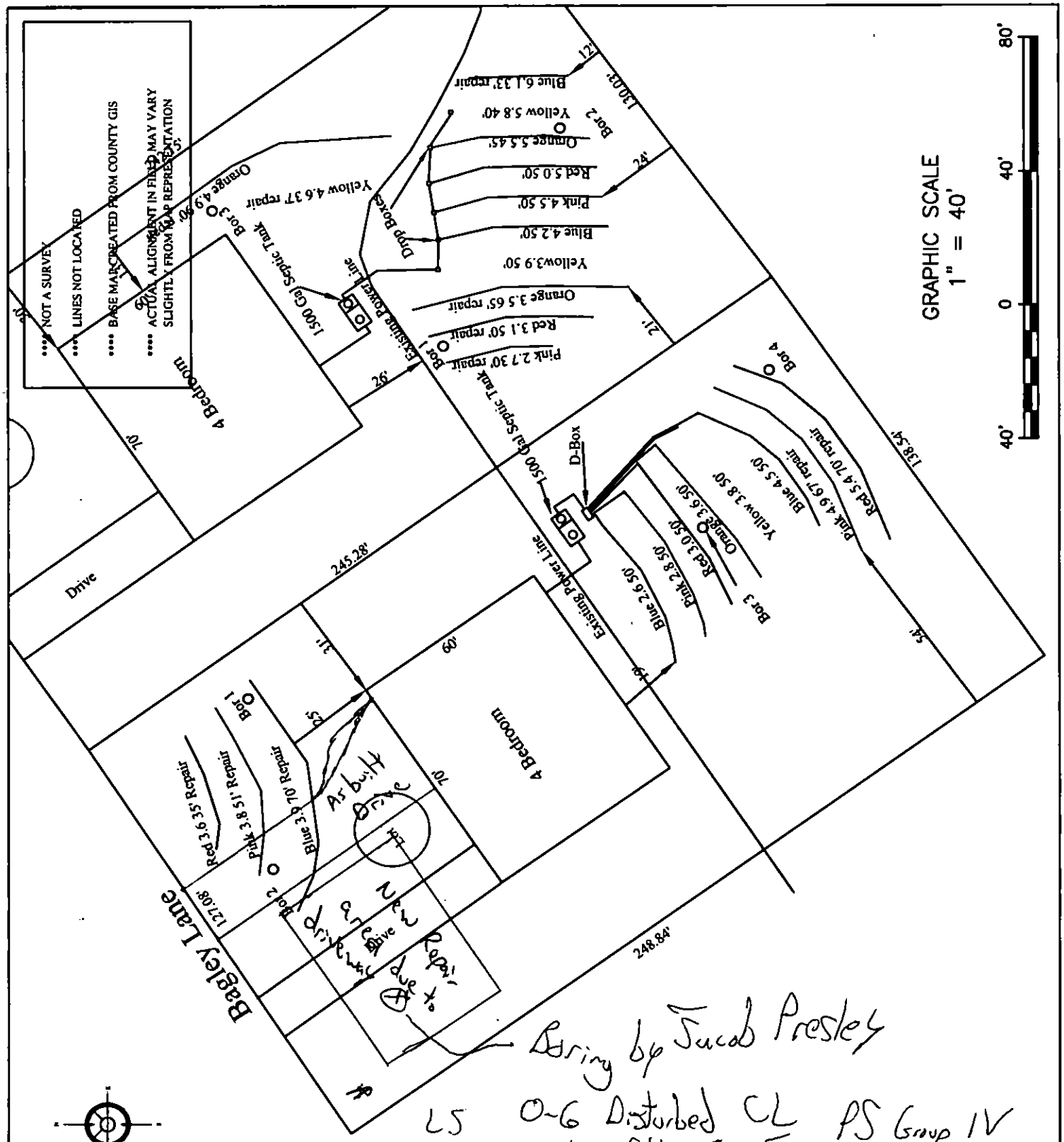
Distance from Water Supply Source: 10' from any water line feet

SKETCH OF SYSTEM LAYOUT
(Proposed Layout)

- Do not alter installation design
- System will utilize Dist. Box (1) for all lines. (6 lines)
- No Drop Boxes

Comments: System Classification & Type: V

DENR Authorized Agent: Bradley w. Hallman Signature: _____

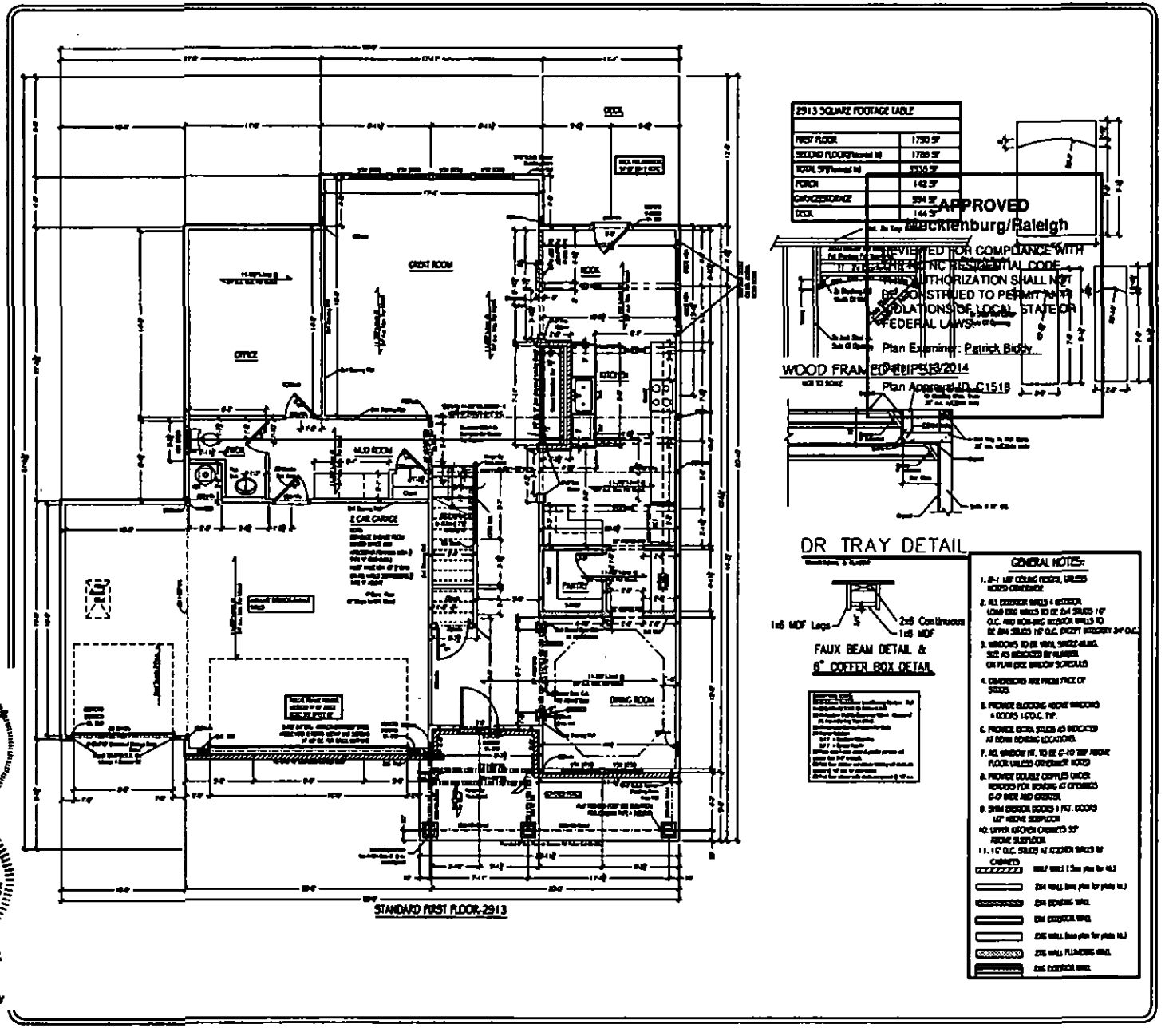


Boring by Jacob Presley

LS 0-6 Disturbed CL PS Group IV
3.1° 6-34 mfsbk C Fr 0.3 LTAR
34-49 mfsbk CL Fr

SHEET TITLE: Preliminary Septic Plan	Oakbridge @ Waterleaf True Homes Mecklenburg Co, NC Jan. 2014	Carolina Environmental Consultants, Inc., P.A. Lexington Office 304 Breckenridge Court Lexington, NC 27292 336-596-7585	REVISIONS	JOB NO. / PROJECT MGR. / DRAWN / FIELD WORK / SCALE / 1" = 40'

14914 Bagley Ln
File # 8860B
Lot #1



2913 SQUARE FOOTAGE TABLE	
FIRST FLOOR	1750 SF
SECOND FLOOR/Heated SF	1788 SF
TOTAL SF/Heated SF	3538 SF
PORCH	142 SF
GARAGE/STORAGE	554 SF
DECK	144 SF

APPROVED
Mecklenburg/Raleigh
REVIEWED FOR COMPLIANCE WITH THE NC RESIDENTIAL CODE
THIS AUTHORIZATION SHALL NOT BE CONSTRUED TO PERMIT ANY VIOLATIONS OF LOCAL, STATE OR FEDERAL LAWS
Plan Examiner: Patrick Bixby
WOOD FRAMED PERMIT 5/13/2014
Plan Approved ID: C1518

DR TRAY DETAIL

FAUX BEAM DETAIL &
8" COFFER BOX DETAIL

GENERAL NOTES:

1. 8'-1" MF CEILING HEIGHT, UNLESS NOTED OTHERWISE
2. ALL EXTERIOR WALLS & INTERIOR LOAD BRG WALLS TO BE 2x4 STUDS 16" O.C. AND NON-BRG INTERIOR WALLS TO BE 2x4 STUDS 16" O.C. EXCEPT INTERIOR 2x6 O.C.
3. WINDOWS TO BE VINYL SINGLE HUNG, SIZE AS INDICATED BY NUMBER ON PLAN (SEE WINDOW SCHEDULE)
4. DIMENSIONS ARE FROM FACE OF STUDS
5. PROVIDE BLOCKING ABOVE WINDOWS & DOORS 16"O.C. TYP.
6. PROVIDE DOUBLE STUDS AS INDICATED AT BOTH SIDING LOCATIONS
7. ALL WINDOW HT. TO BE 6'-10 7/8" ABOVE FLOOR UNLESS OTHERWISE NOTED
8. PROVIDE DOUBLE CRIPPLES UNDER HEADERS FOR BEARING AT OPENINGS 6'-0" WIDE AND GREATER
9. SHIM DOUBLE DOORS & PKT. DOORS 1/2" ABOVE SUBFLOOR
10. UPPER KITCHEN CABINETS 55" ABOVE SUBFLOOR
11. 16" O.C. STUDS AT KITCHEN WALLS W/ CABINETS

WALL LEGEND
- 1HR WALL (2 Sides gyp. bd. for plate ht.)
- 2X4 WALL (one side gyp. bd. for plate ht.)
- 2X4 BEARING WALL
- 2X6 EXTERIOR WALL
- 2X6 WALL (one side gyp. bd. for plate ht.)
- 2X6 WALL PLUMBING WALL
- 2X6 EXTERIOR WALL

NORTH CAROLINA PROFESSIONAL 29249 ENGINEER KEVIN P. MUNSON

NORTH CAROLINA RESIDENTIAL STRUCTURES, P.C. No. C1255 CERTIFICATE OF AUTHORIZATION

RESIDENTIAL STRUCTURES, P.C.
3440 N. Davidson St.
Charlotte, N.C. 28205
Seal for Structural Only

TRUE HOMES L.L.C.
2649 Rocky Ridge Centre Dr.
Suite 104
Monroe, N.C. 28110
704-226-9486

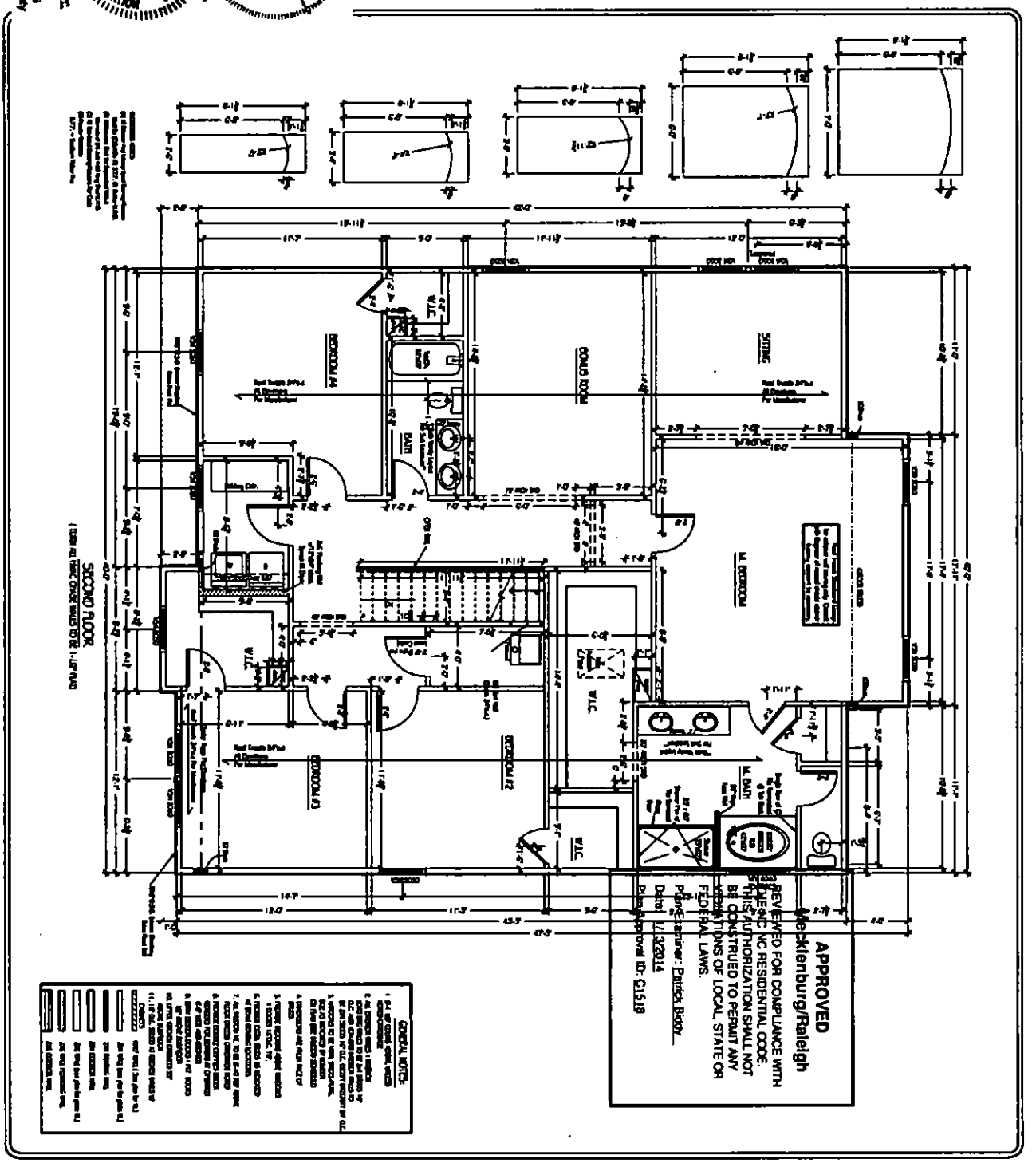
Oakbridge @ Waterleaf
Lot #1

FIRST FLOOR PLAN

2913 - RILEY

DRAWN BY: McCLAREN
DATE: 10.17.13
SCALE: 1/4" = 1'-0"
REVISION:
JOB: Lot Specific

SHEET: 4 / 9



RESIDENTIAL STRUCTURES PE
3440 N. Davidson St.
Charlotte, N.C. 28206
Seal for Structural Only

SHEET 5 of 9	SECOND FLOOR PLAN 2913 - RILEY	Oakbridge @ Waterleaf Lot #1	TRUE HOMES L.L.C. 2649 Brekon Ridge Centre Dr. Suite 104 Monroe, N.C. 28110 704-226-9486	JOB Leesville SCALE 1/4" = 1'-0" DATE 8/1/13 DRAWN BY MCFADEN

8860B

MECKLENBURG COUNTY HEALTH DEPARTMENT WP# 6578

APPLICATION FOR A RESIDENTIAL SITE IMPROVEMENT PERMIT/ CONSTRUCTION AUTHORIZATION FOR AN ON-SITE WASTEWATER SYSTEM, NEW WELL INSTALLATION, OR REPAIR OF EXISTING WELL

1. **SEPTIC / TYPE APPLICATION:** ○ N/A ● NEW SYSTEM ○ ALTERATION ○ REPAIR ○ MODIFIED PLOT PLAN

2. **WELL / TYPE APPLICATION:** ● N/A ○ NEW WELL ○ MAJOR REPAIR ○ ABANDONMENT

3. **JOB LOCATION INFORMATION:** 139-282-33

TAX PARCEL NUMBER: 13928101 PO

STREET ADDRESS: 14914 Bagley Lane

CITY: Charlotte

STATE: NC ZIP: 28227

SUBDIVISION NAME: Oakbridge At Waterleaf

LOT #: 1 LOT SIZE (acres): 0.755

TOWNSHIP:

○ MECKLENBURG ○ CORNELIUS ○ HUNTERSVILLE
○ DAVIDSON ○ CHARLOTTE ○ PINEVILLE
○ MATTHEWS ● MINT HILL

4. **BUILDING INFORMATION:**

BUILDING TYPE:

○ SINGLE MOBILE HOME ○ MODULAR HOME
○ DOUBLE WIDE ○ MULTIPLE FAMILY
● HOUSE ○ OTHER _____

HEATED SQUARE FOOTAGE: 3400

NUMBER OF BEDROOMS: 4

NUMBER OF OCCUPANTS: 4

FOUNDATION TYPE:

● CONCRETE SLAB ○ BASEMENT WITH PLUMBING
○ CRAWL SPACE ○ BASEMENT WITH NO PLUMBING

5. **IF PLANNING TO EXPAND OR ALTER THE EXISTING SEPTIC SYSTEM PLEASE COMPLETE THE FOLLOWING SECTION:** ■ N/A

NUMBER OF BEDROOMS TO BE ADDED: 4 NUMBER OF ADDITIONAL OCCUPANTS IN THE RESIDENCE: 4

6. **WATER SUPPLY:** ● MUNICIPAL ○ PRIVATE WELL ○ PUBLIC WELL ○ SHARED WELL ○ OTHER _____

7. **PROPOSED USE OF WELL:** ● N/A ○ IRRIGATION ○ POTABLE (DRINKING WATER) ○ OTHER _____

8. **PLEASE INDICATE AND RANK DESIRED SEPTIC SYSTEM TYPE(S) IN ORDER OF PREFERENCE** *(1-MOST DESIRED 5-LEAST DESIRED):*

☐ N/A ☐ ANY TYPE ☐ CONVENTIONAL ☐ ACCEPTED ☐ INNOVATIVE ☐ ALTERNATIVE ☐ OTHER _____

8A. **RANK:** ____ ____ ____ ____ ____

9. **DO ANY OF THE FOLLOWING APPLY TO THE PROPERTY IN QUESTION? IF "YES" PLEASE ATTACH SUPPORTING DOCUMENTATION.**

BURIED CABLES, LANDFILLS, STUMPHOLES	○ YES ● NO	GRADING/SOIL REMOVAL PERFORMED	○ YES ● NO
EXISTING WASTEWATER (SEPTIC) SYSTEMS	○ YES ● NO	JURISDICTIONAL WETLANDS	○ YES ● NO
WELLS, SPRINGS, OR WATER LINES	○ YES ● NO	APPROVAL REQUIRED BY ANY OTHER PUBLIC AGENCY	○ YES ● NO
EASEMENTS OR RIGHT-OF-WAYS	○ YES ● NO	WASTEWATER OTHER THAN DOMESTIC SEWAGE	○ YES ● NO
CHEMICAL/PETROLEUM STORAGE TANKS	○ YES ● NO	KNOWN UNDERGROUND CONTAMINATION	○ YES ● NO
WASTE STORAGE	○ YES ● NO	GROUNDWATER USE RESTRICTIONS/VARIANCES	○ YES ● NO

10. **WHAT DATE WAS THE PROPERTY ORIGINALLY DEEDED AND RECORDED?** _____ ■ UNKNOWN

11. **WHAT IS THE ANTICIPATED CLOSING DATE FOR THIS PROPERTY?** _____ ☐ N/A

12. **PROPERTY OWNER:**

NAME: True Homes
ADDRESS: 2649 Brekonridge Centre Dr
CITY: Monroe
STATE: NC ZIP: 28110
WORK PHONE: _____
MOBILE PHONE: 704-201-5117
FAX: _____
E-MAIL: _____

13. **OWNER'S LEGAL REPRESENTATIVE, IF APPLICABLE:**

NAME: Max Thomason
ADDRESS: 4389 Indian Trail Fairview Rd
CITY: Indian Trail
STATE: NC ZIP: 28079
WORK PHONE: 704-628-6233
MOBILE PHONE: 704-201-5117
FAX: 704-289-5558
E-MAIL: mthomason@truehomesusa.com

MECKLENBURG COUNTY – GROUNDWATER & WASTEWATER SERVICES
700 N. TRYON ST. SUITE 211 CHARLOTTE, NC 28202, OFFICE: 704-336-5103, FAX: 704-336-6894

Revised on: 12/15/10

14. SEPTIC SYSTEM PERMIT APPLICATION:

If the information in this application is falsified, changed, or the site is altered, then the Improvement Permit and Authorization to Construct shall become invalid. I have read this application and certify that the information provided herein is true, complete and correct. Authorized county and state officials are granted right of entry to conduct necessary inspections to determine compliance with applicable laws and rules. I understand that I am solely responsible for the proper identification and labeling of all property lines and corners and making the site accessible so that a complete site evaluation can be performed. The permit is valid for either sixty (60) months or is non-expiring depending upon the documentation submitted: complete site plan = 60 months, complete plat = non-expiring.

_____ (Initial here for septic system applications)

15. WELL PERMIT APPLICATION:

If the information in this application is falsified, changed, or the site is altered, then the Well Permit shall become invalid. I have read this application and certify that the information provided herein is true, complete and correct. Authorized county and state officials are granted right of entry to conduct necessary inspections to determine compliance with applicable laws and rules. I understand that I am solely responsible for the proper identification and labeling of all property lines and corners and making the site accessible so that a complete site evaluation can be performed. The permit is valid for a period of twelve (12) months from the date of issuance.

NA (Initial here for well applications)

16. APPLICATION SIGNATURE SECTION:

ONLY COMPLETE APPLICATIONS WILL BE PROCESSED. A proper signature is required in order to process your application. Please review the application carefully and sign in the space provided below. A PROPOSED PLOT PLAN is required to be submitted with each application.

Max Thomson
Property Owner's or Owner's Legal Representative Signature

12/05/13
Date

OFFICE USE ONLY

O SURVEY PLAT TO SCALE SUBMITTED O SCALED SITE PLAN SUBMITTED O UN-SCALED SITE PLAN SUBMITTED

SEPTIC APPLICATION FEE RECEIVED: $ 250 DATE FEE RECEIVED: 12/5/13

WELL APPLICATION FEE RECEIVED: $ _____ DATE FEE RECEIVED: _____

APPLICATION PROCESSED BY: lws

GWS FILE NUMBER ASSIGNED: 8860B

APPLICATION ID NUMBER ASSIGNED: 6578

COMMENTS:

MECKLENBURG COUNTY – GROUNDWATER & WASTEWATER SERVICES
700 N. TRYON ST. SUITE 211 CHARLOTTE, NC 28202, OFFICE: 704-336-5103, FAX: 704-336-6894

FEE: 200.00
DATE:7/8/2014

MECKLENBURG COUNTY
GROUNDWATER & WASTEWATER SERVICES

FILE NUMBER: 8860B

PERMIT NUMBER: 30006578

PARCEL NUMBER: 13928233

JOB LOCATION INFORMATION

ADDRESS: 14914 BAGLEY LN

CITY: CHARLOTTE **STATE: NC** **ZIP:** 28227

ISSUED TO: True Homes

CONSTRUCTION AUTHORIZATION ISSUANCE DATE: 1/30/2014

CONSTRUCTION AUTHORIZATION CONDITIONS

1. WASTEWATER SYSTEM CONSTRUCTION AND INSTALLATION MUST MEET ALL CONDITIONS AND SPECIFICATIONS AS SET FORTH IN IMPROVEMENT PERMIT NUMBER 30006578, AND THE ATTACHED SITE PLAN WITH SYSTEM DETAILS. CONSTRUCTION AND INSTALLATION MUST ALSO MEET ALL REQUIREMENTS SET FORTH IN THE RULES GOVERNING SANITARY SEWAGE COLLECTION, TREATMENT, AND DISPOSAL AND ANY OTHER APPLICABLE RULES AND LAWS.

2. AN INSTALLATION APPROVAL MUST BE SECURED PRIOR TO INSTALLATION OF THE SEPTIC TANK SYSTEM. THE INSTALLER OF THE SYSTEM SHALL BE A REGISTERED SEPTIC TANK CONTRACTOR WITH THE MECKLENBURG COUNTY HEALTH DEPARTMENT.

3. ANY ALTERATION IN SITE OR SOIL CONDITIONS (INCLUDING LOCATION OF STRUCTURES AND APPURTENANCES) OR MODIFICATION IN USE, DESIGN WASTEWATER FLOW, OR WASTEWATER CHARACTERISTICS AS SPECIFIED IN THE ASSOCIATED IMPROVEMENT PERMIT AND APPLICATION, MAY SUBJECT THIS CONSTRUCTION AUTHORIZATION AND ASSOCIATED PERMIT(S) TO REVOCATION.

4. THIS CONSTRUCTION AUTHORIZATION AS PROVIDED IN G.S. 130A-335(f) AND G.S. 130A-336(b) SHALL BE VALID FOR A PERIOD EQUAL TO THE VALIDITY OF THE IMPROVEMENT PERMIT, NOT TO EXCEED 60 MONTHS.
   *CONSTRUCTION AUTHORIZATION EXPIRATION DATE: 1/30/2019

Mecklenburg County Groundwater & Wastewater Services
700 N. Tryon St, Suite 211 Charlotte, NC 28202
Phone: (704) 336-5103 Fax: (704) 336-6894

NC DENR
Division of Environmental Health
On-Site Wastewater Section

IMPROVEMENT PERMIT for a RESIDENTIAL ON-SITE WASTEWATER TREATMENT & DISPOSAL SYSTEM

Permit #: 30006578 GWS File #: 8860B Tax Parcel #: 139-282-33

- This IMPROVEMENT PERMIT is subject to revocation if site plans or the intended use change. There is to be NO grading, filling, or disturbance of the soil in the area of the septic tank system or repair area.
- CONSTRUCTION AUTHORIZATION must be obtained prior to receiving a Building Permit. The Construction Authorization is NOT transferable. Do not clear, grade, fill or disturb soil prior to obtaining a Construction Authorization.
- Domestic-type wastewater only. No industrial process wastewater may be discharged into the system.

I. This Improvement Permit Shall: Expire In Five (5) Years **Expiration Date (If Applicable):** 1/30/2019

Type of Installation: Residential - New System Lot Number: 1

Structure Type: HOUSE Size (ft^2): 3400 # Bedrooms: 4 # Occupants: 4

Building Foundation: Concrete Slab Water Supply: Municipal

II. Initial System Type: PPBPS (gravity) **System Classification:** IIIe

Initial System Specifications:

Design Flow (gpd):	480	LTAR (gpd/ft^2):	0.275	Septic Tank Size (gal):	1500	Pump Tank Size (gal):	N/A
Trench Width (ft):	3	Trench Spacing (ft):	9	Absorption Area (ft^2):	873	Total Trench Length (ft):	291
Maximum Trench Depth (in):	36	Depth of Media (in):	N/A	Distribution Device:	Distribution Box		

III. Repair System Type: PPBPS (pressurized) **System Classification:** IVa

Repair System Specifications:

Design Flow (gpd):	480	LTAR (gpd/ft^2):	0.275	Septic Tank Size (gal):	1500	Pump Tank Size (gal):	1000
Trench Width (ft):	3	Trench Spacing (ft):	9	Absorption Area (ft^2):	873	Total Trench Length (ft):	291
Maximum Trench Depth (in):	36	Depth of Media (in):	N/A	Distribution Device:	Manifold (LPP Distr		

IV. Permit Conditions/Comments:

(Please See the Following Page for Permit Conditions.)

The undersigned, an authorized agent of the MECKLENBURG COUNTY HEALTH DEPARTMENT, certifies that the Department is issuing an IMPROVEMENT PERMIT for the above referenced property. This permit is being issued in accordance with the *Laws and Rules For Sewage Treatment, and Disposal Systems* and is subject to the following provisions:

- No work shall be conducted on the septic system until an INSTALLATION APPROVAL is granted by the Department.
- The septic system installer shall be a registered septic contractor with Mecklenburg County Health Department.
- The permitted system shall be installed in accordance with the included PLOT PLAN.
- This IMPROVEMENT PERMIT is transferable.

DENR Authorized Agent: Jeremy Michael Owner/Legal Agent: Jackie Dracup
Print Name

Signature: Jeremy Michael Signature: Jackie Dracup

Date Issued: 1/30/2014

Mecklenburg County Groundwater & Wastewater Services
700 N. Tryon St, Suite 211 Charlotte, NC 28202
Phone: (704) 336-5103 Fax: (704) 336-6894

NC DENR
Division of Environmental Health
On-Site Wastewater Section

IMPROVEMENT PERMIT for a RESIDENTIAL ON-SITE WASTEWATER TREATMENT & DISPOSAL SYSTEM

Permit #: 30006578 GWS File #: 8860B

IV. Permit Conditions/Comments:

- This type of repair system requires the installation of a pump tank and all associated components. This type of system will require routine inspections by our office. The system owner is responsible for all fees associated with these inspections.
- This type of repair system requires the property owner to obtain a contract with a Certified Operator to perform routine inspections and maintenance on the system.
- This Improvement Permit is being issued based on a supplemental soil investigation performed by staff from our office.
- The septic system shall be installed in accordance with the plans submitted by the wastewater system design consultant.
- All components of the septic system must be installed in accordance with the required setbacks listed on the corresponding plot plan.
- All waterlines must be located a minimum of 10 ft. from any part of the septic system.
- Upon completion of the project the system designer shall provide Groundwater & Wastewater Services with a letter certifying that the system was installed in accordance with the approved design.
- Flow from all gutters and downspouts shall be directed not to discharge water onto or across any part of the septic system.
- Foundation drains shall be constructed not to discharge water onto or across any part of the septic system.
- The septic system shall be located at least 10 feet from any foundation drain.

The undersigned, an authorized agent of the MECKLENBURG COUNTY HEALTH DEPARTMENT, certifies that the Department is issuing an IMPROVEMENT PERMIT for the above referenced property. This permit is being issued in accordance with the *Laws and Rules For Sewage Treatment and Disposal Systems* and is subject to the following provisions:

- No work shall be conducted on the septic system until an INSTALLATION APPROVAL is granted by the Department.
- The septic system installer shall be a registered septic contractor with Mecklenburg County Health Department.
- The permitted system shall be installed in accordance with the included PLOT PLAN.
- This IMPROVEMENT PERMIT is transferable.

DENR Authorized Agent: Jeremy Michael

Signature: Jeremy Michael

Date Issued: 1/30/2014

Owner/Legal Agent: Jackie Dracup
Print Name

Signature:

Department of Environment, Health, and Natural Resources
Division of Environmental Health
On-site Wastewater Section

Sheet: 1 of 2
Property ID: 139-282-33
Lot #: 1
File #: 8860B
AppID: 6578

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

Owner: True Homes
Applicant:
Address: 2649 Brekonridge Centre Dr., Monroe, NC 28110
Date Evaluated: 12/16/2013
Proposed Facility: 4BR House
Design Flow (.1949): 480 GPD
Property Size: 0.755 ac
Location of Site: 14914 Bagley Ln, Charlotte, NC 28227
Property Recorded: Unknown
Water Supply: [X] Public [X] Individual [ ] Well [ ] Spring [ ] Other
Evaluation Method: [ ] Auger Boring [X] Pit [ ] Cut
Type of Wastewater: [X] Sewage [ ] Industrial Process [ ] Mixed

PROFILE #	.1940 Landscape Position/ Slope%	Horizon Depth (IN.)	SOIL MORPHOLOGY .1941 .1941 Structure/ Texture	.1941 Consistence Mineralogy	b PROFILE FACTORS .1942 Soil Wetness/ Color	.1943 Soil Depth (IN.)	.1956 Sapro Class	.1944 Restr Horiz	General Comments	Profile Class & LTAR	Maximum Trench Bottom Depth for 3' Wide Conventional Trench
Pit #1	R 3%	0 - 5	wfsbk CL	FR SEXP	>49"	49	NA	NA		PS IV 0.3	36"
		5 - 36	mmsbk C	FR SEXP							
		36 - 49	mfsbk C	FI SEXP							
Pit #2	R 3%	0 - 5	gr SCL	FR SEXP	>49"	49	NA	NA		PS IV 0.3	36"
		5 - 15	mfsbk CL	FR SEXP							
		15 - 38	mmsbk C	FR SEXP							
		38 - 49	mfsbk C	FI SEXP							
Pit #3	R 3%	0 - 9	gr L	FR SEXP	>49"	49	NA	NA		PS IV 0.275	36"
		9 - 26	wfsbk CL	FR SEXP							
		26 - 50	mmsbk C	FI SEXP							
Pit #4	R 3%	0 - 4	gr L	FR SEXP	>49"	49	NA	NA		PS IV 0.3	36"
		4 - 12	mfsbk CL	FR SEXP							
		12 - 35	mmsbk C	FI SEXP							
		35 - 49	mfsbk C	FI SEXP							

Description	Initial System	Repair System
Available Space (.1945)	PS	PS
System Type(s)	IIIe	Iva
Site LTAR (gpd/sq ft)	0.3	0.3

Other Factors (.1946):
Soil Evaluation By: Jacob Presley, LSS

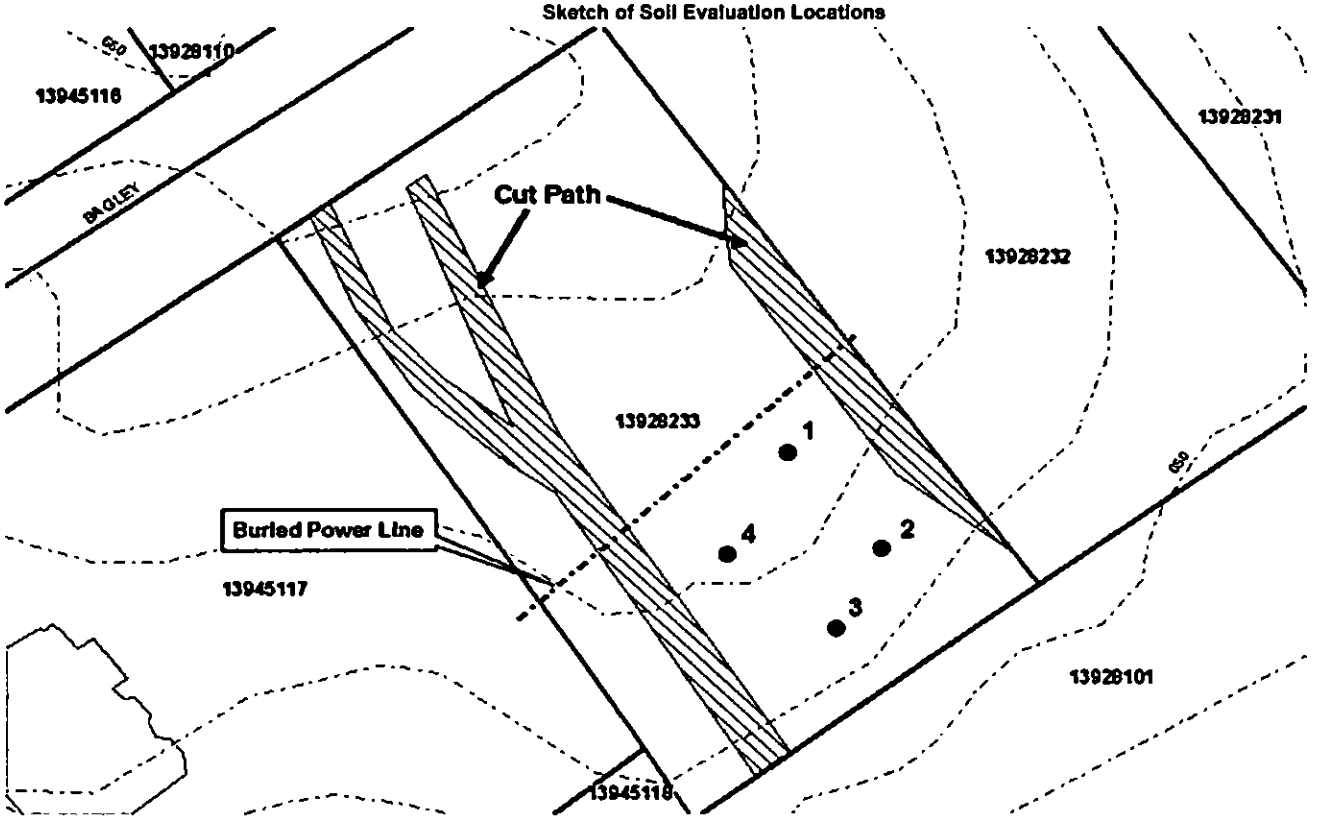
Site Classification (.1948): PS
Site Evaluation By: Jeremy Michael
Others Present:

COMMENTS:

Landscape Position	Group	Texture	.1955 LTAR	Structure
R-Ridge	I	S-Sand	1.2 - 0.8	sg-Single Grain
SS-Shoulder Slope		LS-Loamy Sand		mass-Massive
LS-Linear Slope				cr-Crumb
FS-Foot Slope	II	SL-Sandy Loam	0.8 - 0.6	gr-Granular
NS-Nose Slope		L-Loam		sbk-Subangular Blocky
HS-Head Slope				abk-Angular Blocky
CC-Concave Slope	III	Si-Silt	0.6 - 0.3	pl-Platy
CV-Convex Slope		SiCL-Silty Clay Loam		pr-Prismatic
T-Terrace				Sap-Saprolite
FP-Flood Plain		CL-Clay Loam		**Structure Prefixes**
D-Drainage Way		SCL-Sandy Clay Loam		w-weak
		SiL-Silt Loam		m-moderate
				s-strong
				f-fine
	IV	SC-Sandy Clay	0.4 - 0.1	m-medium
		SiC-Silty Clay		c-coarse
		C-Clay		

Consistence Moist	Consistence Wet	Mineralogy
VFR-Very Friable	SS-Slightly Sticky	SEXP-Slightly Expansive
FR-Friable	S-Sticky	EXP-Expansive
FI-Firm	VS-Very Sticky	
VFI-Very Firm	NP-Non-Plastic	**Classification**
EFI-Extremely Firm	SP-Slightly Plastic	US-Unsuitable
	P-Plastic	PS-Provisionally Suitable
	VP-Very Plastic	S-Suitable
		NA-Not Applicable

Sketch of Soil Evaluation Locations



Mecklenburg County Groundwater & Wastewater Services
700 N. Tryon St. Suite 211 Charlotte, NC 28202
Phone: (704) 336-5103 Fax: (704) 336-6894

NC DENR
Division of Environmental Health
On-Site Wastewater Section

IMPROVEMENT PERMIT for a RESIDENTIAL ON-SITE WASTEWATER TREATMENT & DISPOSAL SYSTEM

Permit #: **30006578** GWS File #: **8860B** Tax Parcel #: **139-282-33**

- This IMPROVEMENT PERMIT is subject to revocation if site plans or the intended use change. There is to be **NO** grading, filling, or disturbance of the soil in the area of the septic tank system or repair area.
- CONSTRUCTION AUTHORIZATION must be obtained prior to receiving a Building Permit. The Construction Authorization is **NOT** transferable. Do not clear, grade, fill or disturb soil prior to obtaining a Construction Authorization.
- Domestic-type wastewater only. No industrial process wastewater may be discharged into the system.

I. This Improvement Permit Shall: Expire in Five (5) Years **Expiration Date (If Applicable):** 1/30/2019

Type of Installation: Residential - New System Lot Number: 1

Structure Type: HOUSE Size (ft^2): 3400 # Bedrooms: 4 # Occupants: 4

Building Foundation: Concrete Slab Water Supply: Municipal

II. Initial System Type: PPBPS (gravity) **System Classification:** IIIe

Initial System Specifications:

Design Flow (gpd):	480	LTAR (gpd/ft^2):	0.275	Septic Tank Size (gal):	1500	Pump Tank Size (gal):	N/A
Trench Width (ft):	3	Trench Spacing (ft):	9	Absorption Area (ft^2):	873	Total Trench Length (ft):	291
Maximum Trench Depth (in):	36	Depth of Media (in):	N/A	Distribution Device:	Distribution Box		

III. Repair System Type: PPBPS (pressurized) **System Classification:** IVa

Repair System Specifications:

Design Flow (gpd):	480	LTAR (gpd/ft^2):	0.275	Septic Tank Size (gal):	1500	Pump Tank Size (gal):	1000
Trench Width (ft):	3	Trench Spacing (ft):	9	Absorption Area (ft^2):	873	Total Trench Length (ft):	291
Maximum Trench Depth (in):	36	Depth of Media (in):	N/A	Distribution Device:	Manifold (LPP Distri		

IV. Permit Conditions/Comments:

(Please See the Following Page for Permit Conditions.)

The undersigned, an authorized agent of the MECKLENBURG COUNTY HEALTH DEPARTMENT, certifies that the Department is issuing an IMPROVEMENT PERMIT for the above referenced property. This permit is being issued in accordance with the *Laws and Rules For Sewage Treatment, and Disposal Systems* and is subject to the following provisions:

- No work shall be conducted on the septic system until an INSTALLATION APPROVAL is granted by the Department.
- The septic system installer shall be a registered septic contractor with Mecklenburg County Health Department.
- The permitted system shall be installed in accordance with the included PLOT PLAN.
- This IMPROVEMENT PERMIT is transferable.

DENR Authorized Agent: Jeremy Michael Owner/Legal Agent: _____
Print Name

Signature: Jeremy Michael Signature: _____

Date Issued: 1/30/2014

Mecklenburg County Groundwater & Wastewater Services
700 N. Tryon St, Suite 211 Charlotte, NC 28202
Phone: (704) 336-5103 Fax: (704) 336-6894

NC DENR
Division of Environmental Health
On-Site Wastewater Section

IMPROVEMENT PERMIT for a RESIDENTIAL
ON-SITE WASTEWATER TREATMENT & DISPOSAL SYSTEM

Permit #: **30006578** GWS File #: **8860B**

IV. Permit Conditions/Comments:

- This type of repair system requires the installation of a pump tank and all associated components. This type of system will require routine inspections by our office. The system owner is responsible for all fees associated with these inspections.
- This type of repair system requires the property owner to obtain a contract with a Certified Operator to perform routine inspections and maintenance on the system.
- This Improvement Permit is being issued based on a supplemental soil investigation performed by staff from our office.
- The septic system shall be installed in accordance with the plans submitted by the wastewater system design consultant.
- All components of the septic system must be installed in accordance with the required setbacks listed on the corresponding plot plan.
- All waterlines must be located a minimum of 10 ft. from any part of the septic system.
- Upon completion of the project the system designer shall provide Groundwater & Wastewater Services with a letter certifying that the system was installed in accordance with the approved design.
- Flow from all gutters and downspouts shall be directed not to discharge water onto or across any part of the septic system.
- Foundation drains shall be constructed not to discharge water onto or across any part of the septic system.
- The septic system shall be located at least 10 feet from any foundation drain.

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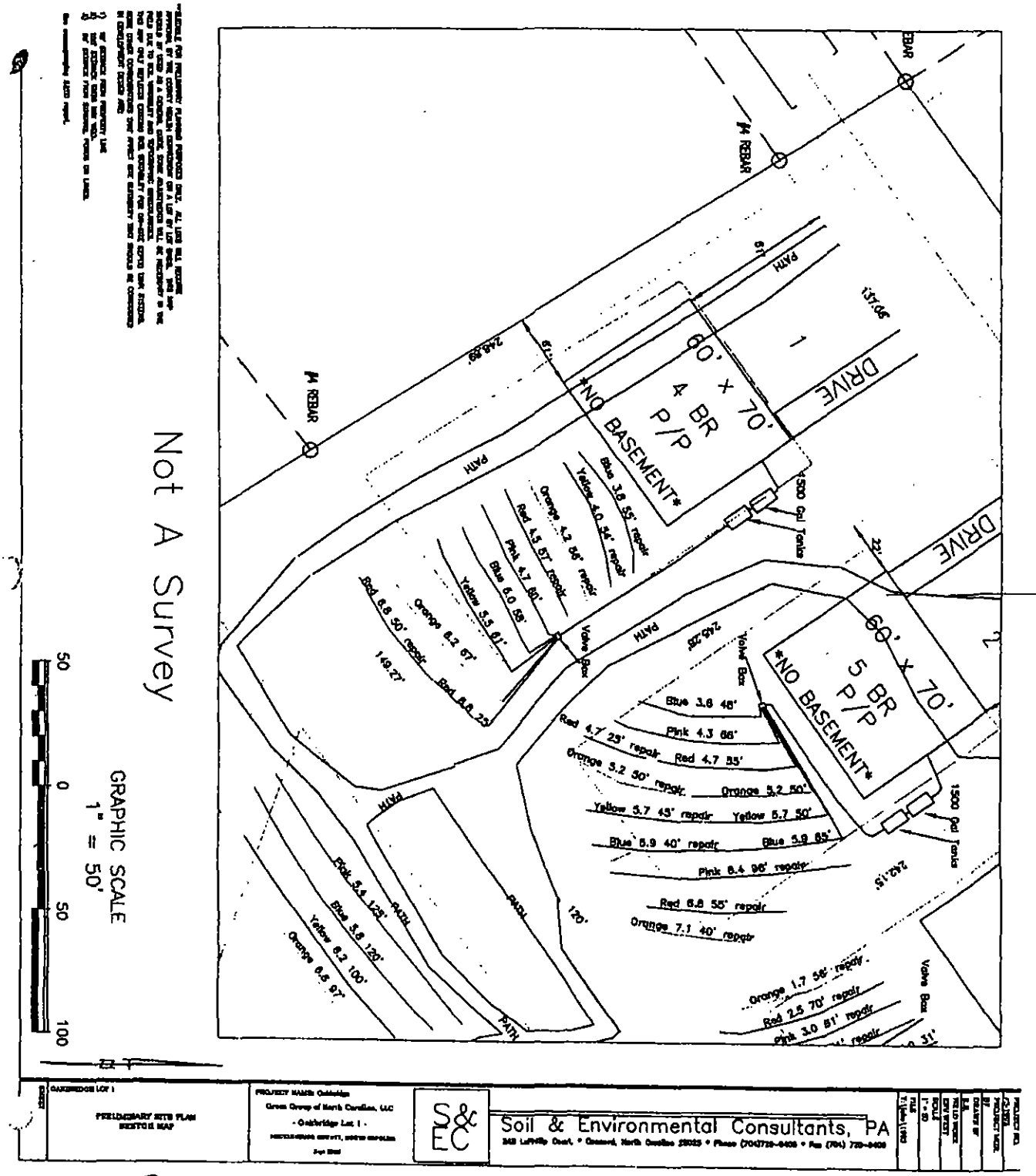
DENR Authorized Agent: Jeremy Michael

Signature: Jeremy Michael

Date Issued: 1/30/2014

Owner/Legal Agent: _____
Print Name

Signature: _____



OAKBRIDGE LOT 1

PRELIMINARY SITE PLAN
SEPTIC MAP

PROJECT NAME: Oakbridge
Green Group of North Carolina, LLC
- Oakbridge Lot 1 -

S&EC

Soil & Environmental Consultants, PA
348 Laffitte Court, • Concord, North Carolina 28025 • Phone (704)720-6406 • Fax (704) 720-6408

Part of 13928101
14914 Bagley Lane

Department of Environment, Health, and Natural Resources
Division of Environmental Health
On-site Wastewater Section

Sheet: 1 of 2
Property ID: 139-282-33
Lot #: 1
File #: 8860B
AppID: 6578

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

Owner: True Homes
Applicant:
Address: 2649 Brekonridge Centre Dr., Monroe, NC 28110
Date Evaluated: 12/16/2013
Proposed Facility: 4BR House
Design Flow (.1949): 480 GPD
Property Size: 0.755 ac
Location of Site: 14914 Bagley Ln, Charlotte, NC 28227
Property Recorded: Unknown
Water Supply: [X] Public [X] Individual [ ] Well [ ] Spring [ ] Other
Evaluation Method: [ ] Auger Boring [X] Pit [ ] Cut
Type of Wastewater: [X] Sewage [ ] Industrial Process [ ] Mixed

PROFILE #	.1940 Landscape Position/ Slope%	Horizon Depth (IN.)	SOIL MORPHOLOGY .1941 .1941 Structure/ Texture	.1941 Consistence Mineralogy	b PROFILE FACTORS .1942 Soil Wetness/ Color	.1943 Soil Depth (IN.)	.1956 Sapro Class	.1944 Restr Horiz	General Comments	Profile Class & LTAR	Maximum Trench Bottom Depth for 3' Wide Conventional Trench
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Description	Initial System	Repair System
Available Space (.1945)		
System Type(s)		
Site LTAR (gpd/sq ft)	0.3	0.3

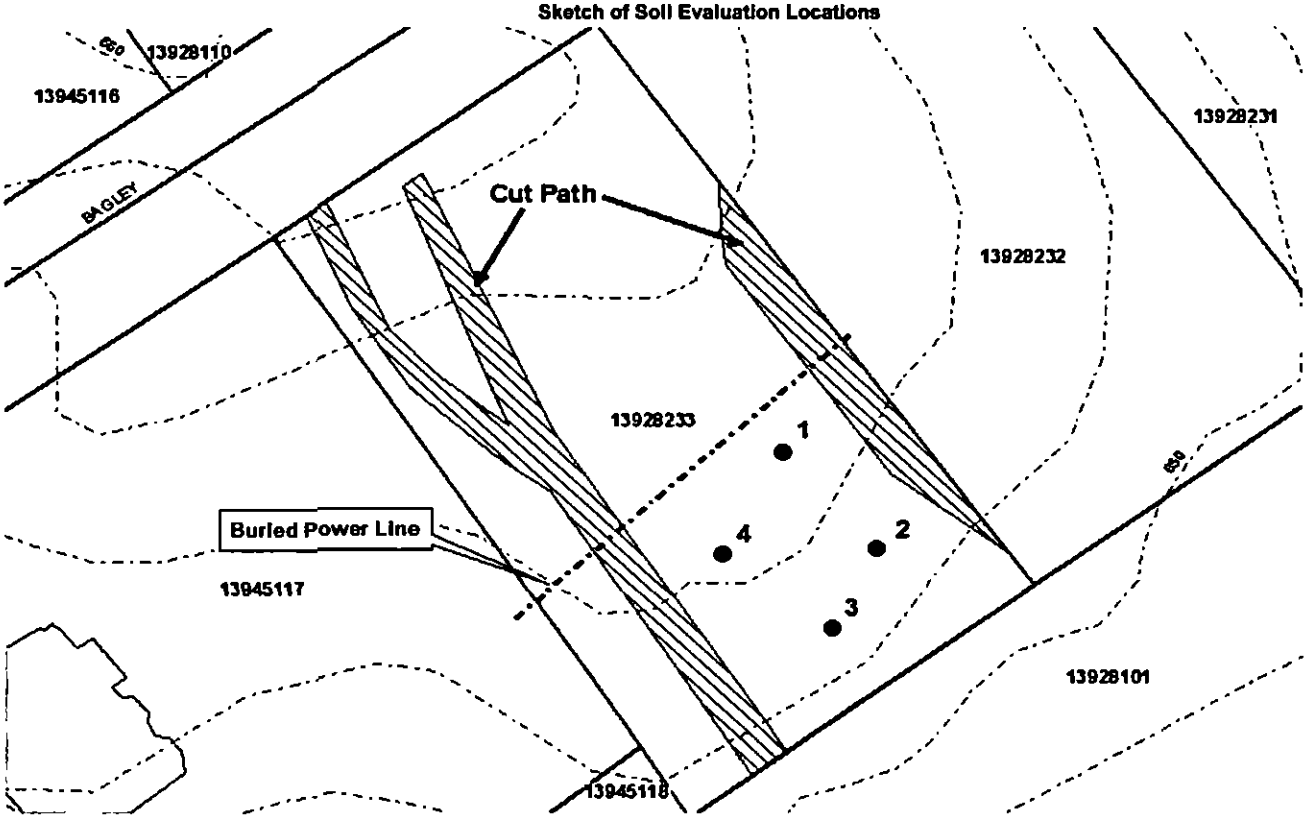
Other Factors (.1946):
Soil Evaluation By: Jacob Presley, LSS
Others Present:
Site Classification (.1948):
Site Evaluation By:
Others Present:

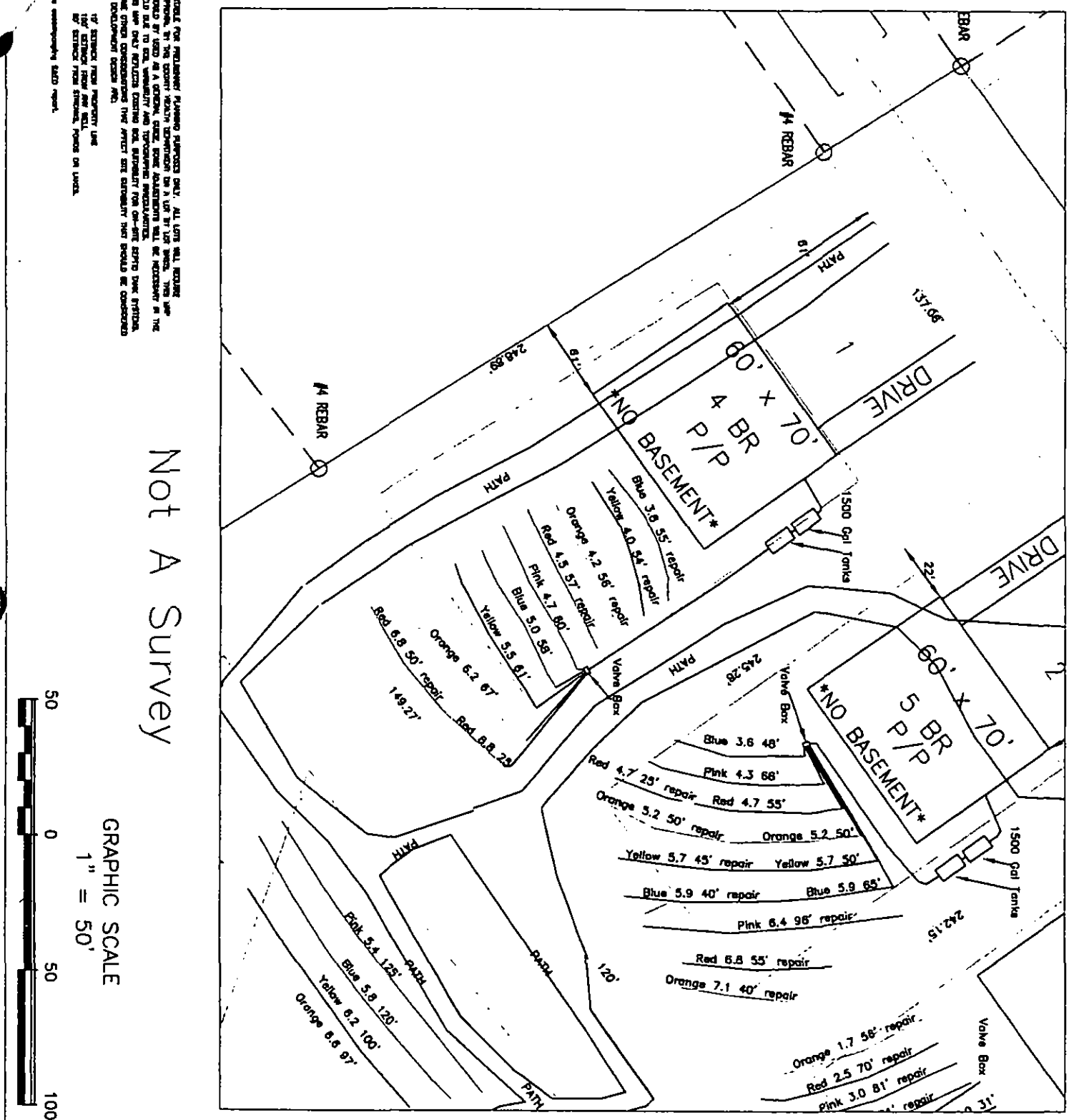
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CC-Concave Slope	III	Si-Silt	0.6 - 0.3	pl-Platy
CV-Convex Slope		SiCL-Silty Clay Loam		pr-Prismatic
T-Terrace		CL-Clay Loam		Sap-Saprolite
FP-Flood Plain		SCL-Sandy Clay Loam		**Structure Prefixes**
D-Drainage Way		SiL-Silt Loam		w-weak
				m-moderate
				s-strong
				f-fine
	IV	SC-Sandy Clay	0.4 - 0.1	m-medium
		SiC-Silty Clay		c-coarse
		C-Clay		

Consistence Moist	Consistence Wet	Mineralogy
VFR-Very Friable	SS-Slightly Sticky	SEXP-Slightly Expansive
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EFI-Extremely Firm	SP-Slightly Plastic	US-Unsuitable
	P-Plastic	PS-Provisionally Suitable
	VP-Very Plastic	S-Suitable
		NA-Not Applicable

Sketch of Soil Evaluation Locations





Not A Survey

GRAPHIC SCALE
1" = 50'

"SUITABLE FOR PRELIMINARY PLANNING PURPOSES ONLY. ALL LOTS WILL REQUIRE APPROVAL BY THE COUNTY HEALTH DEPARTMENT ON A LOT BY LOT BASIS. THIS MAP SHOULD BE USED AS A GENERAL GUIDE. SOME ADJUSTMENTS WILL BE NECESSARY IN THE FIELD DUE TO SOIL VARIABILITY AND TOPOGRAPHIC IRREGULARITIES. THIS MAP ONLY REFLECTS EXISTING SOIL SUITABILITY FOR ON-SITE SEPTIC TANK SYSTEMS. SOME OTHER CONSIDERATIONS THAT AFFECT SOIL SUITABILITY MAY SHOULD BE CONSIDERED IN DEVELOPMENT DESIGN AND.

2) 15' SETBACK FROM PROPERTY LINE
50' 150' SETBACK FROM ANY WELL
50' SETBACK FROM STREAMS, PONDS OR LAKES.

See accompanying SAED report.

SHEET	OAKBRIDGE LOT 1 PRELIMINARY SITE PLAN SKETCH MAP	PROJECT NAME: Oakbridge Green Group of North Carolina, LLC - Oakbridge Lot 1 - MECKLENBURG COUNTY, NORTH CAROLINA	S&EC Soil & Environmental Consultants, PA 248 LaPrelle Court, • Concord, North Carolina 28025 • Phone (704)720-8405 • Fax (704) 720-8406	PROJECT NO PROJECT MGR DRAWN BY FIELD WORK ENV WEST SCALE 1" = 50' FILE 11 Feb 1993

Part of 13928101
14914 Bagley Lane

Attached is a proposed design for a 4 bedroom single family residence
Gravity dosed PPBPS system to serve lot 1 at Oakbridge @ Waterleaf
Mecklenburg County, North Carolina.
Mecklenburg County File # 8860B

Contents: **Page**

Information for the Installer---------- 1

Design Information
- Layout Specifications---------- 2
- System Flow Sheet---------- 3

Site Plan---------- 4

Septic Tank Diagram---------- 5

Maintenance of Septic Systems---------- 6-8

Jan-14
Design By: E. Bailey

LICENSED SOIL SCIENTIST
ERIC BAILEY
1305
STATE OF NORTH CAROLINA

GWS Septic System Design Review

GWS File #: 8860B

	Approved	Disapproved
Design Review:	☑	☐
Field Review:	☑	☐

*Projects are not considered "APPROVED" until both sections above are completed and indicate an APPROVED status.

INFORMATION FOR THE INSTALLER:

- The permit should be read very carefully prior to bidding. The following are details that must be considered along with all other considerations.
- Tanks shall be approved by DEHNR, and certification supplied by the manufacturer.
- Tanks shall be water tested prior to installation.
- The installer shall be responsible to the owner for placement of the tanks and to insure that final grades are returned to the original natural grade, with exception of added structural features.
- The supply trench shall be compacted to eliminate cavities left during initial fill placement.
- Installation of the system shall be during dry conditions in order to protect the soil structure.
- All fittings shall be pressure rated fittings.
- All joints shall be cleaned with PVC pipe cleaner and a heavy bodied glue applied to weld all joints.
- Where required by the county health department, post installation inspections by the designer must be scheduled 5 week days in advance.
- Trenches shall be carefully excavated so the bottom is within 2" from the highest to . the lowest points of elevation within the trench. If the bottom elevation needs adjusting after it has been trenched, it will be done by removing high points rather than filling low points. It is extremely important to insure that trenches are not over excavated during initial trenching. All fine grading within the trench will be hand done with a shovel. No loose material will be left in the trench
- All pipe openings in the tanks shall be properly grouted. This also applies to the joints around the riser.
- All tanks shall be properly back filled and compacted to prevent slump at a later date.
- Earth dams, constructed of relatively impervious material, shall be installed at the beginning and end of each lateral.
- Low ground pressure equiptment is recommended for installation
- Elevations at pinflag locations should be checked by the installer prior to beginning trenches.
- Septic tank riser shall be a minimum of 6" above finished grade.(recommended)
- System is specified to be a PPBPS installation with gravity distribution
  Repair is specified to be a PPBPS installation with LPP distribution
- **Trench walls should be raked and limed. Trenches 36" wide**
  System should be instaled in accordance with the .1900 rules and manufactures specs.
  System to be 10' from property line, 10' from water line

Oakbridge @ Waterleaf lot 1

LAYOUT FOR 4 BEDROOM HOME

Jan-14

LINE #	FLAG COLOR	BS	HI	FS	ELEVATION	FLAGGED LINE LENGTH	DESIGN LENGTH
TBM		0.0			100.0		
INSTR. 1			100.0				
			SYSTEM				
1	Blue			2.00	98.0	56	50
2	Pink			2.80	97.2	58	50
3	Red			3.00	97.0	59	50
4	Orange			3.60	96.4	61	50
5	Yellow			3.80	96.2	62	50
6	Blue			4.50	95.5	63	50
			REPAIR			**359**	**300**
7	Pink			4.90	95.1	67	
8	Red			5.40	94.6	70	
9	Red			3.60	96.4	35	
10	Pink			3.80	96.2	51	
11	Blue			3.90	96.1	70	
					Total	**293**	

	LINE LENGTH	Soil LTAR GPD/FT^2	SYSTEM TYPE	Design LTAR	DISTRIBUTION	Trench Depth
SYSTEM	300	0.275	PPBPS	0.267	Drop Box	36
REPAIR	293	0.275	PPBPS		LPP	36

Notes:

** Lines 9-11 not back sighted

**TBM is assumed to be 100'

**All measures in feet

**Nitrification lines are demonstrated on contour via colored pin flags

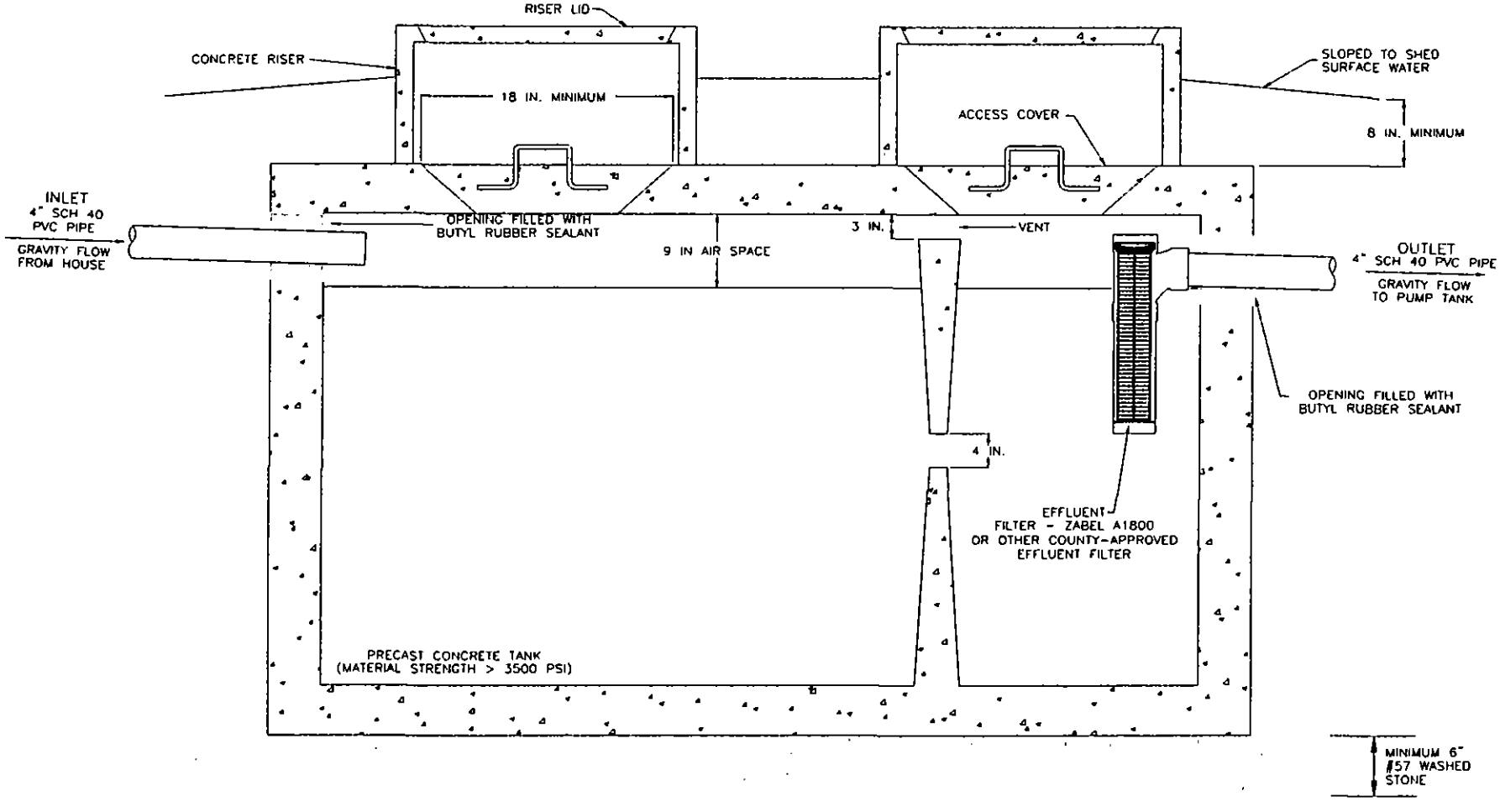
**BS and FS indicate rod readings

Oakbridge @ Waterleaf Lot 1

SYSTEM

Line #	Color	#Panels	Line Length
1	Blue	11	50 LF
2	Pink	11	50 LF
3	Red	11	50 LF
4	Orange	11	50 LF
5	Yellow	11	50 LF
6	Blue	11	50 LF
		66	300LF

System delsgn flow 480 GPD



NOTES

1. TANK DIMENSIONS VARY BY MANUFACTURER.

1500 GALLON SEPTIC TANK

PROJECT NO: 4591	PROJECT NAME: **Oakbridge @ Waterleaf lot 1**	
PROJECT MGR:		
SCALE: NTS	SHEET TITLE: SEPTIC TANK DIAGRAM	

15A NCAC 18A .1959 PRIVY CONSTRUCTION

An "approved privy" shall consist of a pit, floor slab, and seat assembly housed in a building which affords privacy and reasonable protection from the weather.

(1) The pit shall consist of an excavation at least 42 inches square and in no case shall the bottom of an excavation be closer than one foot from the seasonally high water table or rock.

(2) The pit shall be properly curbed to prevent caving. In sandy or loose soil, the curb should extend the full depth of the pit. In tight soils, partial curbing is acceptable if it prevents caving.

(3) The privy floor slab shall be constructed of reinforced concrete. Where it is impractical to secure or construct reinforced concrete floor assemblies, wood construction shall be acceptable provided the floor slab is made of rough sub-flooring and covered with tight tongue-and-groove flooring or other type flooring materials to provide strength and prevent entrance of flies and mosquitoes to the privy pit. Where wood construction is used, floors shall be anchored to at least four-inch by four-inch sills.

(4) Wood used for riser, seat assemblies, and the floor slab shall be tongue-and-groove or plywood (exterior or marine) material.

(5) Privies shall not be used for the disposal of water-carried sewage.

History Note: *Authority G.S. 130A-335(e);*
Eff. July 1, 1982;
Amended Eff. December 1, 1990.

15A NCAC 18A .1960 MAINTENANCE OF PRIVIES

(a) Any person owning or controlling the property upon which a privy is located shall be responsible for these requirements:

(1) The privy building shall afford a reasonable degree of protection from bad weather conditions.

(2) When the pit becomes filled to within 18 inches of the top of the ground, the privy building shall be moved to a new pit and the old pit completely covered with earth.

(3) If the pit caves in, a new pit shall be provided.

(b) The tenant or person occupying the property shall be responsible for these requirements:

(1) The walls, floors, and seat of the privy and grounds immediately adjacent to the building shall be kept in a clean and decent condition.

(2) Fowl and other animals shall not be harbored in the privy building.

(3) Seat cover shall be hinged and closed at all times when the privy is not in use.

(4) Flies shall be excluded from the pit at all times.

(5) Ashes, garbage, and trash shall be kept out of the pit.

History Note: *Authority G.S. 130A-335(e) and (f);*
Eff. July 1, 1982;
Amended Eff. January 1, 1990.

15A NCAC 18A .1961 MAINTENANCE OF SEWAGE SYSTEMS

(a) Any person owning or controlling the property upon which a ground absorption sewage treatment and disposal system is installed shall be responsible for the following items regarding the maintenance of the system:

(1) Ground absorption sewage treatment and disposal systems shall be operated and maintained to prevent the following conditions:

(A) a discharge of sewage or effluent to the surface of the ground, the surface waters, or directly into groundwater at any time; or

(B) a back-up of sewage or effluent into the facility, building drains, collection system, or freeboard volume of the tanks; or

(C) a free liquid surface within three inches of finished grade over the nitrification trench for two or more observations made not less than 24 hours apart. Observations shall be made greater than 24 hours after a rainfall event.

The system shall be considered to be malfunctioning when it fails to meet one or more of these requirements, either continuously or intermittently, or if it is necessary to remove the contents of the tank(s) at a frequency greater than once per month in order to satisfy the conditions of Parts (A), (B), or (C) of this Paragraph. Legal remedies may be pursued after an authorized agent has observed and documented one or more of the malfunctioning conditions and has issued a notice of violation.

(2) Ground absorption sewage treatment and disposal systems shall be checked, and the contents of the septic tank removed, periodically from all compartments, to ensure proper operation of the system. The contents shall be pumped whenever the solids level is found to be more than 1/3 of the liquid depth in any compartment.

(b) System management in accordance with Tables V(a) and V(b) of this Rule shall be required for all systems installed or repaired after July 1, 1992. After July 1, 1992, system management in accordance with Tables V(a) and V(b) shall be required for all existing Type V and Type VI systems.

(c) No Improvement Permit or Construction Authorization shall be issued for Type IV, Type V, or Type VI systems, unless a management entity of the type specified in Table V(b) is specifically authorized, funded, and operational to carry out this management program in the service area where the proposed system is to be located.

(d) A local health department may be the public management entity only for systems classified Type IV, V(a) and V(b) and only when specifically authorized by resolution of the local board of health.

(e) A contract shall be executed between the system owner and a management entity prior to the issuance of an Operation Permit for a system required to be maintained by a public or private management entity, unless the system owner and certified operator are the same. The contract shall include the specific requirements for maintenance and operation, responsibilities of the owner and system operator, provisions that the contract shall be in effect for as long as the system is in use, and other requirements for the continued proper performance of the system. It shall also be a condition of the Operation Permit that subsequent owners of the system execute such a contract.

(f) Inspections of the system shall be performed by a management entity at the frequency specified in Table V(b). The management entity shall report the results of their inspections to the local health department at the specified reporting frequency. However, where inspections indicate the need for system repairs, the management entity shall notify the local health department within 48 hours in order to obtain a Construction Authorization for the repairs.

(g) The management entity shall be responsible for assuring routine maintenance procedures and monitoring requirements in accordance with the conditions of the Operation Permit and the contract.

(h) Sewage systems with multiple components shall be classified by their highest or most complex system type in accordance with Table V to determine local health department and management entity responsibilities.

(i) Sewage systems not identified in this Rule shall be classified by the Division of Environmental Health after consultation with the appropriate commission governing operators of pollution control facilities.

(j) The local health department shall routinely review the performance and operation reports submitted in accordance with Table V(b) of this Rule and shall perform an on-site inspection of the systems as required in Table V(a).

(k) The certified operator shall hold a valid and current certificate from the appropriate commission, and nothing in this Section shall preclude any requirements for system operators, in accordance with Article 3 of G.S. 90A.

TABLE V(a)

LOCAL HEALTH DEPARTMENT RESPONSIBILITIES

System Classification	System Description	Permits Required	Minimum System Review Frequency
Type I	a. Privy b. Chemical toilet c. Incinerating toilet d. Other toilet system e. Grease trap	Improvement Permit, Construction Authorization, and Operation Permit	N/A
Type II	a. Conventional septic system	Improvement	N/A

DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL HEALTH
ON-SITE WASTEWATER SECTION

Sheet 1 of 1
PROPERTY ID #: 139-282-33
COUNTY: Mecklenburg

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER: True Homes APPLICATION DATE
ADDRESS 2649 Brekonridge Centre Dr Monroe. NC 28110 DATE EVALUATED: 1-19-14
PROPOSED FACILITY: 4 bedroom Residence PROPOSED DESIGN FLOW (.1949): 480gpd PROPERTY SIZE: 0.755 ac
LOCATION OF SITE: 14914 Bagley Ln Charlotte, NC 28227 PROPERTY RECORDED:
WATER SUPPLY: ☐ Private X Public Well ☐ Spring ☐ Other
EVALUATION METHOD: XAuger Boring Pit ☐ Cut TYPE OF WASTEWATER: ΞSewage ☐ Industrial Process ☐ Mixed

PROFILE #	.1940 LANDSCAPE POSITION/ SLOPE %	HORIZON DEPTH (IN.)	SOIL MORPHOLOGY (.1941) .1941 STRUCTURE/ TEXTURE	.1941 CONSISTENCE/ MINERALOGY	OTHER PROFILE FACTORS .1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	PROFILE CLASS & LTAR
1	LS 3%	0-9	WFG Cl	SS SP FR SEXP	>48	48	NA	S	PS IV 0.3
		9-29	MMSBK C	S P FI SEXP					
		29-48	WFSBK Cl	SS SP FR SEXP					
2	LS 3%	0-8	WFG Cl	SS SP FR SEXP	>48	48	NA	S	PS IV 0.3
		8-34	MMSBK C	SS SP FI SEXP					
		34-48	WFSBK Cl	SS SP FR SEXP					
3	LS 3%	0-9	WFG SCl	SS SP FR SEXP	>48	48	NA	S	PS IV 0.3
		9-44	MFSBK C	S P FI SEXP					
		44-48	WFSBK Cl	SS SP FI SEXP					
4	LS 3%	0-13	WFG Cl	SS SP FR SEXP	>48	48	NA	S	PS IV 0.3
		13-48	MMSBK C	S P FI SEXP					

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	300 LF	293 LF
System Type(s)	IIIe	IVa
Site LTAR	0.275	0.275

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

COMMENTS:

