



IMPROVEMENT PERMIT

Franklin County Health Department
107 Industrial Drive
Louisburg, NC 27549
Phone:

For Office Use Only

*CDP File Number 336258 - 1
County ID Number: 1873-40-4401
Evaluated For: NEW

PERMIT VALID UNTIL: 02/01/2026

***NOTE TO INSPECTIONS DIVISION:** Building Permits cannot be issued with this Improvement Permit.

Applicant: CORY CONNELL
Address: 8412 FALLS OF NEUSE RD
City: RALEIGH
State/Zip: NC 27615
Phone #:

Property Owner: US BANK TRUST NATIONAL ASSOCIATION
Address: 7114 E STETSON DR
City: SCOTTSDALE
State/Zip: AZ, 85251
Phone #:

Property Location & Site Information

Address/Road #: 157 WIGGINS RD LOUISBURG, Subdivision: Phase: NEW Lot:
NC 27549
Structure: SINGLE FAMILY
of Bedrooms: 4
of People: 8
*Water Supply: N/A

System Specifications

Initial System

*Site Classification: Provisionally Suitable
Design Flow: 480
Soil Application Rate: 0.3200

Minimum Trench Depth: Inches

Maximum Trench Depth: 20 Inches

*System Classification/Description:
TYPE III E. PPBPS GRAVITY DOSED SYSTEM

Septic Tank: 1000 Gallons
Pump Required ☒ Yes ☐ No ☐ May Be Required

*Proposed System:
50% REDUCTION

Pump Tank: 1000 Gallons

Repair System Required: ☒ Yes ☐ No ☐ No, but has Available Space

Repair System

*Site Classification: Provisionally Suitable
Soil Application Rate: 0.310

Minimum Trench Depth: Inches

Maximum Trench Depth: 20 Inches

*System Classification/Description:
TYPE III E. PPBPS GRAVITY DOSED SYSTEM

Pump Required: ☒ Yes ☐ No ☐ May Be Required

*Proposed System:
50% REDUCTION

Pump Tank: Gallons

No grading or construction activity is allowed in areas designated for system and repair without approval of Health Department

*Site Modifications

The issuance of this permit by the Health Department in no way guarantees the issuance of other permits. The permit holder is responsible for checking with appropriate governing bodies in meeting their requirements.

*Permit Conditions

Install system as designed by Soil and Environmental Consultants, PA. Existing well must be properly abandoned before O.P. will be signed.

The Department and Local Health Department may impose conditions on the issuance and may revoke the permits for failure of the system to satisfy the conditions, the rules, or this article. This permit is subject to revocation if the site plan, plat, or intended use changes (NCGS 130A-335(f)). The person owning or controlling the system location, installing, operation, maintenance, monitoring, reporting, and repair (1938(h)).

Authorized State Agent: Ennis, Crystal

Date of Issue: 02/01/2021

Total Time: (HH:MM)

☐ Hand Drawing

☐ Import Drawing

Site Plan/Drawing attached.



Construction Authorization

Franklin County Health Department
107 Industrial Drive
Louisburg, NC 27549
Phone: _____

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☐ Open Pump System Sheet

Applicant: CORY CONNELL
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City: RALEIGH
State/Zip: NC 27615
Phone #: _____

Property Owner: US BANK TRUST NATIONAL ASSOCIATION
Address: 7114 E STETSON DR
City: SCOTTSDALE
State/Zip: AZ. 85251
Phone #: _____

Property Location & Site Information

Address/Road #: 157 WIGGINS RD Subdivision: _____ Phase: NEW Lot: _____
LOUISBURG, NC 27549
Structure: SINGLE FAMILY 157 WIGGINS RD
of Bedrooms: 4
of People: 8
*Water Supply: NEW WELL

System Specifications

*Site Classification: Provisionally Suitable Minimum Trench Depth: _____ Inches
Design Flow: 480 Maximum Trench Depth: 20 Inches
Soil Application Rate: 0.3200 Minimum Soil Cover: _____ Inches
*System Classification/Description: TYPE III E. PPBPS GRAVITY DOSED SYSTEM Maximum Soil Cover: _____ Inches
*Proposed System: 50% REDUCTION *Distribution Type: PRESSURE MANIFOLD
Nitrification Field: _____ Sq. ft. Septic Tank: 1,000 Gallons
No. Drain Lines: 5 Pump Required: ☒ Yes ☐ No ☐ May Be Required
Total Trench Length: 255 ft. ☐ Inches O.C. ☒ Feet O.C. Pump Tank: 1,000 Gallons
Trench Spacing: _____ - 9 ☐ Inches ☒ Feet Grease Trap: _____ Gallons
Trench Width: _____ - 3 ☐ Inches ☒ Feet Septic Tank Installer
Aggregate Depth: _____ inches Grade Level Required: ☐ I ☐ II ☐ III ☐ IV

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*Permit Conditions:

Install system as designed by Soil and Environmental Consultants, PA. Existing well must be properly abandoned before O.P will be signed.

The Authorization for Wastewater System Construction shall be valid for a period equal to the period of validity of the Improvement Permit and may be issued at the same time the Improvement Permit issued (NCGS 130A-336(b)). If the installation has not been completed during the period of validity of the Construction Permit, the information submitted in the application for a permit or Construction Authorization shall become invalid, and may be suspended or revoked (.1937(g)). The person owning or controlling the system shall be responsible for assuring compliance with the laws, rules, and permit conditions regarding system location, installation, operation, maintenance, monitoring, reporting

Authorized State Agent: Ennis, Crystal Date of Issue: 02/01/2021

☐ Hand Drawing ☐ Import Drawing

****Site Plan/Drawing attached.****

Total Time : (HH:MM) _____



File # 336258 PIN# 1873-40-4401

Property Address: 157 Wiggins Rd

Applicant or Owner Name: Cory Connell

Environmental Health Septic/Well Permit Diagram

Building permits cannot be issued nor should construction begin without Construction Authorization issuance.

☒ Septic Improvement Permit ☒ Septic Construction Authorization (CA) ☐ CA Reissue** ☐ As Built
☐ Well Construction Authorization ☒ Additional Diagram/Specifications Attached

Diagram Date**: 1-27-21 EHS: Cory Connell

**Any previously dated CA diagram is revoked and/or invalid. Confirm this is the valid diagram for the site before beginning any construction.

Installation/grouting inspections may be scheduled the day before, or, the day of installation until 9am by contacting the Environmental Health office at 919 496 8100. A revisit fee may apply if installation is not ready for inspection at the time requested. Septic Operations Permits will be issued after installation is approved, all permits conditions are met, and any outstanding fees are paid. Well Certificate of Completion will be issued after well head approval, all permit conditions are met, and any outstanding fees are paid.

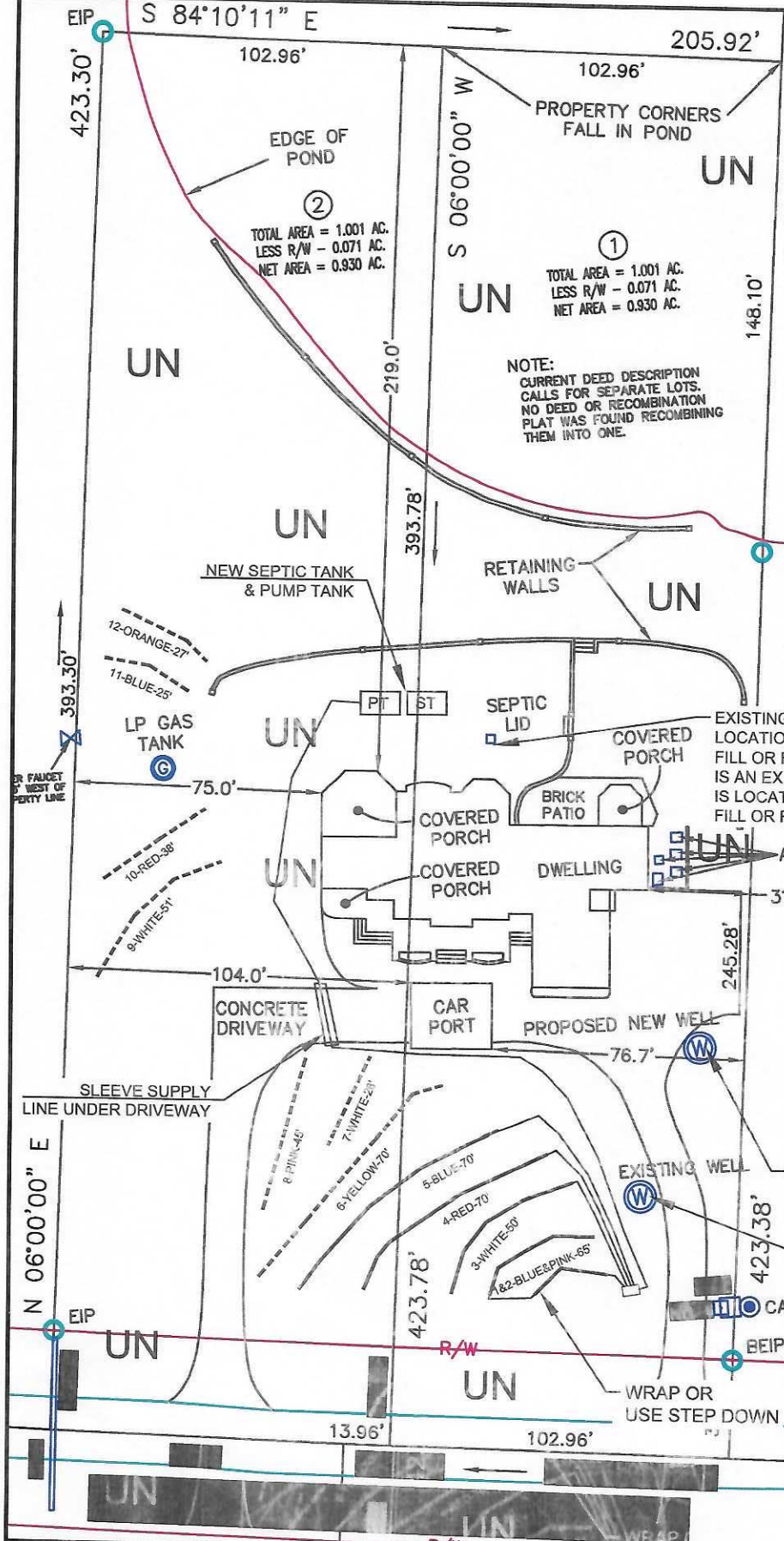
Septic Tank 1000 Pump Tank 1000 Drainfield 255' Type System Horizontal Panel Block Max Trench Depth 20"

Septic Contractor _____ Septic/Pump tank dates _____ Pump fee? NO YES pd _____

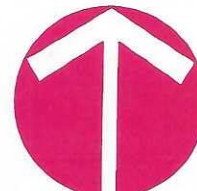
Well Contractor _____ Well Grout date: _____

* See attached layout and top charts designed by Soil & Environmental Consultants

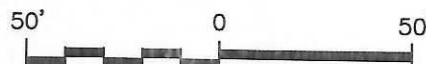
* Existing well must be properly abandoned before O.P can be signed *



4-BEDROOM PRESSURE MANIFOLD SYSTEM
LINES 1-5 0.32 LTAR HORIZONTAL PANEL BLOCK
4-BEDROOM PRESSURE MANIFOLD REPAIR
LINES 6-12 0.31 LTAR HORIZONTAL PANEL BLOCK



NORTH
GRAPHIC SCALE
1" = 50'



LEGEND

UN	Unsuitable areas due to soil wetness condition, soil depth, clay mineralogy, and/or landscape position.
—	System line
- - -	Repair line

- NOTES:
- 1) SITE DATA TO INCLUDE PROPERTY BOUNDARIES, STRUCTURE LOCATION, UTILITIES, ROADS, AND OTHER SITE FEATURES WERE PROVIDED BY CAWTHORNE, MOSS, AND PANCIERA SURVEYING AND ARE SHOWN TO DISPLAY GENERAL SITE CONDITIONS. THIS MAP IS NOT A SURVEY.
 - 2) ALL SEPTIC SYSTEM COMPONENTS TO INCLUDE TANKS, PUMPS, MANIFOLDS, AND SYSTEM AND REPAIR LINES HAVE BEEN GPS LOCATED BY SOIL AND ENVIRONMENTAL CONSULTANTS, PA. ALL LOCATIONS, ELEVATIONS, AND DIMENSIONS ARE APPROXIMATE AND AS SUCH NO SPECIFIC ACCURACY EITHER VERTICAL OR HORIZONTAL IS IMPLIED.
 - 3) THIS MAP AND CORRESPONDING SITE EVALUATION IS NOT CONFORMANT TO THE ENGINEERED OPTION PERMIT (EOP) PROCESS. ADDITIONAL SITE TESTING AND EVALUATIONS WILL BE REQUIRED TO UTILIZE THE EOP PROCESS.
 - 4) PROPERTY AND EASEMENT BOUNDARIES SHOWN ON THIS SITE SKETCH ARE APPROXIMATE AND ARE NOT INTENDED FOR LOCATING PROPERTY OR IDENTIFYING PROPERTY OR EASEMENT CORNERS. THIS IS NOT A SURVEY. 1-15-2020.

S&EC

Soil & Environmental Consultants, PA
4412 Falls of Neuse Rd., Suite 104 • Raleigh, North Carolina 27615 • www.SandEC.com
Phone: (919) 846-5900 • Fax: (919) 846-9407

Project:	157 WIGGINS ROAD		Project No.: 14245.52
Location:	FRANKLIN CO., NC	Client:	ERIK ZERNER
Sheet Title:	SEPTIC LAYOUT MAP		Scale: 1" = 50'
			Field Work: CC
			Sheet No.: 1 of 1

157 Wiggins Road

Project No.14245.S2

LINE #	FLAG COLOR	BS (ft)	HI (ft)	FS (ft)	ELEVATION (ft)	FLAGGED LINE LENGTH (ft)	DESIGN LINE LENGTH (ft)	
TBM INSTR. 1		12.00			100.00			
1	BLUE		112.00	1.60	110.40	25	65	Wrap or use step down for Lines 1 & 2
2	PINK			2.00	110.00	41		
3	WHITE			3.00	109.00	51	50	
4	RED			4.00	108.00	75	70	
5	BLUE			4.60	107.40	91	70	
6	YELLOW			5.30	106.70	107	70	Wrap or use step down for Lines 7 & 8
7	WHITE			5.80	106.20	28	70	
8	PINK			6.10	105.90	45		
9	WHITE			9.80	102.20	51	70	Wrap or use step down for Lines 9 & 10
10	RED			10.90	101.10	38		
11	BLUE			13.20	98.80	25	50	Wrap or use step down for Lines 11 & 12
12	ORANGE			14.00	98.00	27		
				Total		604	515	

System	LINE LENGTH (ft)	LTAR GPD/FT ²	SYSTEM TYPE	SOIL LTAR GPD/FT ²	INNOVATIVE SYSTEM	DISTRIBUTION	DESIGN FLOW (GPD)
System	255	0.320		0.320	Horizontal Panel Block	PRESSURE MANIFOLD	480
Repair	260	0.310		0.310	Horizontal Panel Block	PRESSURE MANIFOLD	480

- Notes:**
- **TBM ground @ existing pump tank
 - **TBM is assumed to be 100.00'.
 - **All measures in feet.
 - **Nitrification lines are demonstrated on contour via colored pin flags.
 - **BS, FS indicate rod readings.

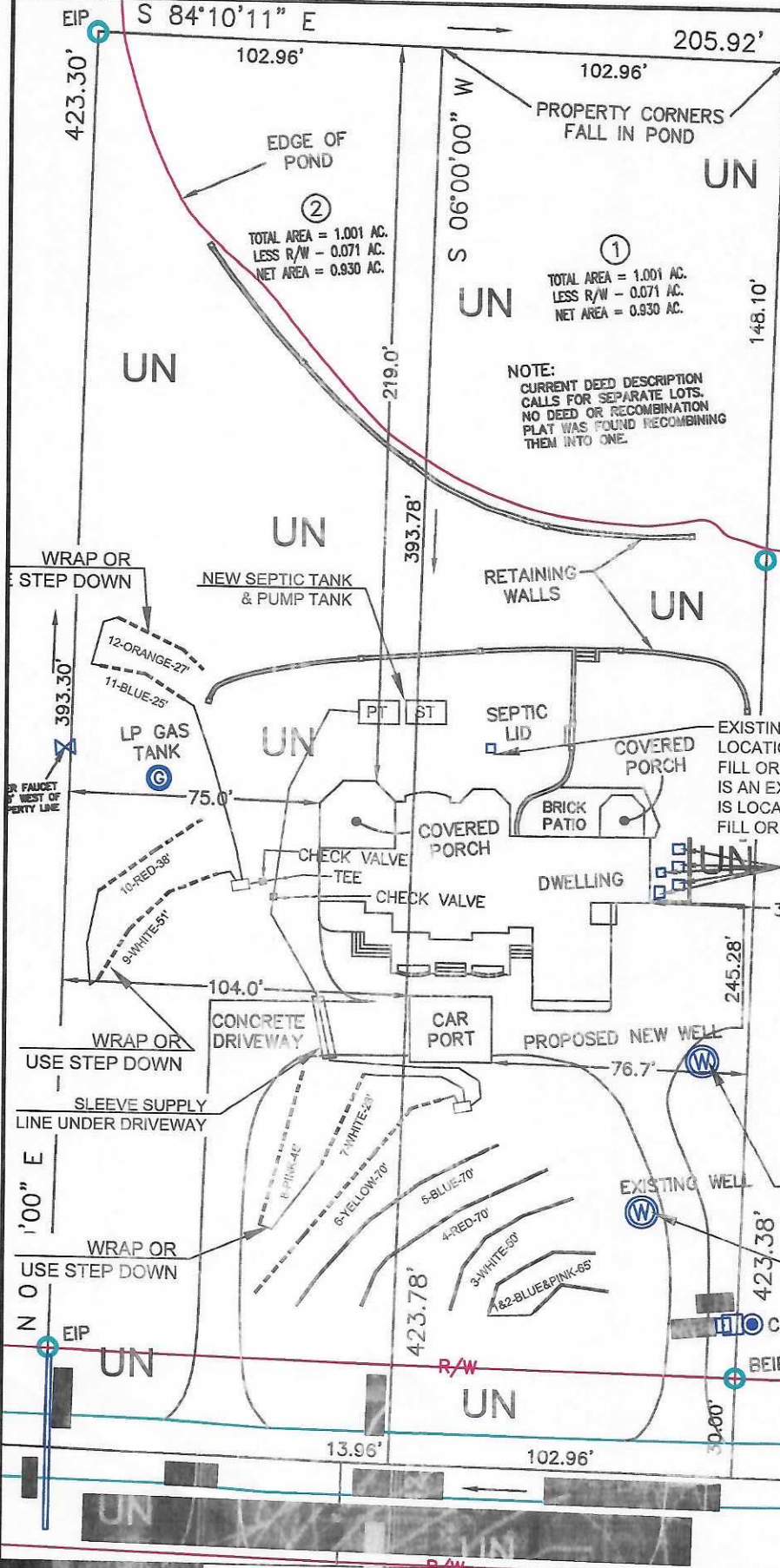
**157 Wiggins Road
Project No.14245.S2
SYSTEM TAP CHART**

Line #	Color	Field Elev. (ft)	Length (ft)	Hole Size (in)	Flow/Tap (gpm)	gpd	Trench Area (sq ft)	Line LTAR (gpd/sq ft)
1 & 2	B & P	110.40	65	1/2" SCH. 40	7.11	127.30	195	0.653
3	WHITE	109.00	50	1/2" SCH. 80	5.48	98.11	150	0.654
4	RED	108.00	70	1/2" SCH. 40	7.11	127.30	210	0.606
5	BLUE	107.40	70	1/2" SCH. 40	7.11	127.30	210	0.606

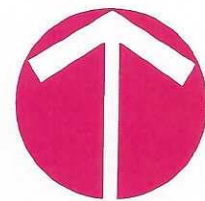
Wrap or use step down

total feet = 255 gal/min = 26.81

Des. Flow	480	gpd
Pump Run=	17.90	min
soil LTAR	0.320	gpd/sq ft
INNOV. Product Reduction	50%	
LTAR with INNOV.	0.640	gpd/sq ft
LTAR with INNOV. + 5%	0.672	gpd/sq ft
100% Dose Volume	165.94	gal
Percent Dose Volume	75%	
Total	124.46	gal
Pump Run Time	4.64	min



4-BEDROOM PRESSURE MANIFOLD SYSTEM
LINES 1-5 0.32 LTAR HORIZONTAL PANEL BLOCK
4-BEDROOM PRESSURE MANIFOLD REPAIR
LINES 6-12 0.31 LTAR HORIZONTAL PANEL BLOCK



NORTH
GRAPHIC SCALE
1" = 50'



LEGEND

UN	Unsuitable areas due to soil wetness condition, soil depth, clay mineralogy, and/or landscape position.
—	System line
- - -	Repair line

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- 1) SITE DATA TO INCLUDE PROPERTY BOUNDARIES, STRUCTURE LOCATION, UTILITIES, ROADS, AND OTHER SITE FEATURES WERE PROVIDED BY CAWTHORNE, MOSS, AND PANCIERA SURVEYING AND ARE SHOWN TO DISPLAY GENERAL SITE CONDITIONS. THIS MAP IS NOT A SURVEY.
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Phone: (919) 846-3500 • Fax: (919) 846-3407

Project:	157 WIGGINS ROAD		Project No.: 14245.92
Location:	FRANKLIN CO., NC	Client:	ERIK ZERNER
Sheet Title:	SEPTIC REPAIR MAP		Scale: 1" = 50'
			Field Work: CC
			Drawn: CC
			Sheet No.: 1 of 1

**157 Wiggins Road
Project No.14245.S2
REPAIR TAP CHART**

Line #	Color	Field Elev. (ft)	Length (ft)	Hole Size (in)	Flow/Tap (gpm)	gpd	Trench Area (sq ft)	Line LTAR (gpd/sq ft)
6	YELLOW	106.70	70	3/4" SCH. 80	10.1	129.59	210	0.617
7&8	W & P	106.20	70	3/4" SCH. 80	10.1	129.59	210	0.617
9&10	W&R	102.20	70	3/4" SCH. 80	10.1	129.59	210	0.617
11&12	B&O	98.80	50	1/2" SCH. 40	7.11	91.23	150	0.608

Wrap or use step down
for Lines 7 & 8
Wrap or use step down
for Lines 9 & 10
Wrap or use step down
for Lines 11 & 12

total feet = 260 gal/min = 37.41

Des. Flow	480	gpd
Pump Run=	12.83	min
soil LTAR	0.31	gpd/sq ft
INNOV. Product Reduction	50%	
LTAR with INNOV.	0.62	gpd/sq ft
LTAR with INNOV. + 5%	0.65	gpd/sq ft
100% Dose Volume	169.20	gal
Percent Dose Volume	75%	
Total	126.90	gal
Pump Run Time	3.39	min