

Environmental Services - Water Quality
Onsite Wastewater Scan Data Entry Form

PERMIT #: D046046

PIN #: 1709589745

OP DATE: 0211212013

SYSTEM USE:

- ☒ House
☐ Mobile Home
☐ Business
☐ Other

SEWAGE TYPE:

- ☒ Domestic
☐ Industrial

PUMP/SIPHON?:

- ☒ Yes
☐ No

PRESSURE MANIFOLD:

- ☒ Yes
☐ No

SYSTEM TYPE:

- ☐ I
☐ II
☒ III
☐ IV
☐ V
☐ VI
☐ Other

SUB TYPE:

- ☐ A
☒ B
☐ C
☐ D
☐ E
☐ F
☐ G

NBR BEDROOMS:

- ☐ 1
☐ 2
☐ 3
☒ 4
☐ 5
☐ 6
☐ Other

MAINT. SCHEDULE:

- ☐ Yes
☒ No

CERT. OPERATOR

- ☐ Yes
☒ No

GT ST PT SIZE

- | | | | |
|-------------------------------------|-------------------------------------|-------------------------------------|------------------|
| ☐ | ☐ | | 750 |
| ☐ | ☐ | ☐ | 900 |
| ☐ | ☐ | ☐ | 1,000 |
| ☐ | ☒ | ☒ | 1,200 |
| ☐ | ☐ | ☐ | 1,500 |
| ☐ | ☐ | ☐ | 1,800 |
| ☐ | ☐ | ☐ | 2,100 |
| ☐ | ☐ | ☐ | 2,500 |
| ☐ | ☐ | ☐ | 3,000 |
| ☐ | ☐ | ☐ | 4,000 |
| ☐ | ☐ | ☐ | 5,000 |
| ☐ | ☐ | ☐ | 8,000 |
| ☐ | ☐ | ☐ | 10,000 |
| ☐ | ☐ | ☐ | Other |
| ☒ | | ☐ | None/NA GT or PT |

DRAINFIELD SIZE(SQ. FT.)

01275

DRAIN TYPE:

- ☐ Stone
☒ EZ Flow
☐ Infiltrator
☐ Biodiffuser
☐ Cultec
☐ Drip
☐ Hancor
☐ Large Dia. Pipe
☐ Multi-Pipe
☐ Other

MAX DEPTH (IN.):

- ☐ 12 in. or less
☐ 18 in. or less
☒ 24 in. or less 20"
☐ 26 in. or less
☐ 28 in. or less
☐ 30 in. or less
☐ 32 in. or less
☐ 36 in. or less
☐ Other

STONE DEPTH (IN.):

- ☐ 8 in. or less
☒ 12 in. or less
☐ 18 in. or less
☐ 24 in. or less
☐ Other

TRENCHES:

- ☒ Individual
☐ Bed

TRENCH WIDTH (IN.):

- ☐ 12 in. or less
☐ 18 in.
☐ 24 in.
☒ 36 in.
☐ 6 ft. or less
☐ 9 ft. or less
☐ Other

10/14/13

592

WAKE COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES WELL AND SEWAGE SITE LOCATION PERMIT

NO PERMIT(S) FOR CONSTRUCTION, LOCATION OR RELOCATION ACTIVITY SHALL BE ISSUED
UNTIL AN AUTHORIZATION FOR WASTEWATER SYSTEM CONSTRUCTION HAS BEEN ISSUED

PERMIT VOID IF NOT IN COMPLIANCE WITH ZONING REGULATIONS AND/ OR IF SITE IS ALTERED OR INTENDED USE CHANGED

PERMIT#: D046046 STATUS: A APP. DATE: 03/04/2011 BLDG. PERMIT#: 0122471
PIN: 1709.02 66-1838-000 58 9745 TAX MAP: 0 RECORDED: Y ORIG. PERMIT#:
TOWNSHIP: 02 BARTON'S CREEK JURISDICTION: WC ZONING: R80W SW DEVICE: N S#:
APPLICANT: HOMES BY DICKERSON
2301 STONEHENGE DRIVE STE 103
RALEIGH, NC 27615
(919) 800-8714
USE: HD USE: 101A CONVENTIONAL ONE-FAMILY H
EXIST USE:
LTAR: 0.30 0.30 BEDROOMS: 4 BASEMENT: N #EMPLOYEES: 0
SITE: ADDRESS: 14609 NORWOOD RD
SUBDIVISION: GEORGE'S GRANT LOT: 7 ACRES: 1.33 EASEMENT: N LOC: SYS:
DIRECTION: SIX FORKS NORTH R INTO S/D ON NORWOOD

Well System: WATER: COMMUNITY - TYPE:

WELL LOG INFORMATION: DEPTH: _____ CASING DEPTH: _____ YIELD: _____ STATIC LEVEL: _____
WELL CONTRACTOR: _____ REG.# _____ PUMP CONTRACTOR: _____ REG.# _____
Construction Compliance GROUT APPROVED ☐ DATE _____ EHS _____
WELLHEAD APPROVED ☐ DATE _____ EHS _____
SYSTEM FINALIZED ☐ DATE _____ EHS _____

COMMENTS: COMMUNITY WATER

DESIGN FLOW: 36.91 gal./min. ACTUAL FLOW: 36.81 Operation Permit
INNOVATIVE LETTER:

INSTALLED BY: David Truelove INSTALLATION APPROVED BY: [Signature]
PROPRIETARY SYSTEM: E2Flow FILTER NO: 100116
COMMENTS:

OPERATIONS PERMIT ISSUED? ☒ OP DATE: 2/12/13 BY: [Signature]

This permit is based in part on information provided by the homeowner or his/her representative in the application submitted for this permit. The Environmental Health Specialist is not responsible for false or misleading information contained in the application. The Environmental Health Specialist is also not responsible for concealed conditions on the property or for statements in this report that may have resulted from false or misleading statements provided to him in the application. Neither Wake County nor the Environmental Health Specialist warrants that the septic tank system will continue to function satisfactorily in the future or that the water supply will remain potable.

As Built Information:

Date: 2/7/13 Benchmark: Pt. Rise Rod reading: 6'7 1/2" Distance to Structure: 11'
ST: 1200 gals ID#: DB-34 D.O.M.: 11-13-12 Elev.: 7'2" Distance to Well: NA
PT: 1200 gals ID#: DB-463 D.O.M.: 12-20-13 Elev.: 8'3"
D-box/FD/ED Elev.: 2'7" Supply Line: _____ ft. Pump/Control Panel: _____
Line 1: 5'4" 5'1" 5'1" 5'1" Date: 2/7/13 Line 6: _____ Date: _____
Line 2: 5'8 1/2" 5'4" 5'4" 5'4" Date: _____ Line 7: _____ Date: _____
Line 3: 6'10" 6'9 1/2" 6'9 1/2" 6'9 1/2" Date: _____ Line 8: _____ Date: _____
Line 4: 8'7" 8'7 1/2" 8'7" _____ Date: _____ Line 9: _____ Date: _____
Line 5: 9'8 1/2" 9'9" 9'9" _____ Date: _____ Line 10: _____ Date: _____
Distance to P/L: _____ Notes: _____

-moved laser slightly to check elevations for bottom 2 lines, both tanks
& bench mark C.C. - 999819 } 2/12/13 - SER
ETM. 123hrs

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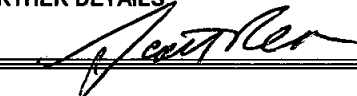
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EXIST USE:
LTAR: 0.30 0.30 BEDROOMS: 4 BASEMENT: N #EMPLOYEES: 0 FOUNDATION DRAIN: Y
SITE: ADDRESS: 14609 NORWOOD RD
SUBDIVISION: GEORGE'S GRANT LOT: 7 ACRES: 1.33 EASEMENT: N LOC: SYS:
DIRECTION: SIX FORKS NORTH R INTO S/D ON NORWOOD

IMPROVEMENT PERMIT

TANK SIZE: 1200 gal. PUMP Tank: 1200 gal. SQ FT: 1275 INNOVATIVE MAX DEPTH LINE: 20 in.
WASTEWATER: INDIVIDUAL SEWAGE: DOMESTIC TYPE SYSTEM: III G PUMP: Y P/M: Y
DAILY FLOW: 480 gal/day DESIGN FEE REQ?: Y PAID?: Y WATER: COMMUNITY

COMMENTS: PERMIT REQUIRES USE OF PRESSURE MANIFOLD DOSING UNEQUAL LENGTH LINES OF ACCEPTED STATUS SYSTEM
PRODUCT WITH ITS 25% REDUCTION ALREADY CALCULATED INTO THE DESIGN. THE REPAIR SYSTEM HAS THE SAME
REQUIREMENTS. SEE CA COMMENTS FOR FURTHER DETAILS

IP ISSUED? Y DATE: 09/10/2012 BY: (SCR)  PHONE#: 856-6194

AUTHORIZATION FOR WASTEWATER/WATER SYSTEM CONSTRUCTION

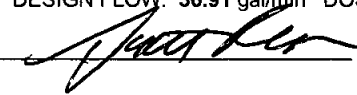
VOID SIXTY (60) MONTHS FROM DATE OF ISSUANCE

AUTHORIZATION CONDITIONS:

Contractors shall install system on contours, see attached site plan for wastewater system design and well location. No underground utilities, water lines or sprinkler systems may be located in the original system or repair areas. A septic tank filter with a riser for access is required. The wastewater system shall not be covered or placed into use until inspected by the Wake County Department of Environmental Services and an Operation Permit issued. An Accepted Status System may be used in place of conventional system, if it can be placed in the permitted/authorized trench footprint (except reduction in line length and/or number as allowed for in approval) and the installation is in accordance with the accepted system approval, without unauthorized product alteration. If permit required use of an Accepted Status System, substitution with another accepted status system may be made, as long as no changes are necessary in the location of each nitrification line (including any increase in line length), trench depth or effluent distribution method. If changes are necessary, prior approval by this office is required before system installation. **OTHER CONDITIONS:**

PLEASE SEE DESIGN PLAN BY DAN BLILEY (REV. 09-21-12 BY ELC) FOR INSTALLATION INFORMATION. INITIAL SYSTEM IS A VARIED LENGTH ACCEPTED STATUS PRESS. MAN. WITH 20" DEEP TRENCH BOTTOMS. WHEN INSTALLING DRAINLINES, PLEASE MAINTAIN ALL REQUIRED SETBACKS. REPAIR SYSTEM IS A VARIED LENGTH LINE ACCEPTED STATUS PRESS. MAN. WITH 24" DEEP TRENCH BOTTOMS. DO NOT DISTURB OR REMOVE ANY SOIL FROM EITHER THE INITIAL OR REPAIR AREA. A NEMA 4X CONTROL PANEL WITH TWO BREAKERS, TWO POWER SUPPLIES, ELAPSED TIME METER, AND CYCLE COUNTER ARE REQUIRED. INSTALL TRENCHES ON CONTOUR AND MINIMUM 9FT ON CENTER. PLEASE CALL ENVIRONMENTAL SERVICES IF ANY QUESTIONS OR PROBLEMS ARISE. IF FLAGS ARE REMOVED CALL CONSULTANT FOR RE-FLAGGING.

TANK SIZE: 1200 gal. PUMP TANK: 1200 gal. SQ FT: 1275 INNOVATIVE MAX DEPTH LINE: 20 in.
MAINT: N OPER: N L/O: P TRENCH#: 5 LENGTH: 425 ft. WIDTH: 36 in. DESIGNER: DAN BLILEY
SUBFIELDS: ___ DESIGN HEAD PRESSURE: 2 DESIGN FLOW: 36.91 gal/min DOSE VOLUME: 207 gal.

CA ISSUED? Y DATE: 11/16/2012 BY: (SCR)  PHONE#: 856-6194

As. Built Copy

LOT PLAN LOT 7 FOR:
HOMES BY DICKERSON

SURVEY CERTIFICATE

I, GEORGE C. GETTY, L-4328, AS A PROFESSIONAL LAND SURVEYOR IN THE STATE OF NORTH CAROLINA, DO HEREBY CERTIFY THAT THIS PRELIMINARY PLAT WAS DRAWN UNDER MY SUPERVISION; THAT THE LOT LINES ARE DRAWN AS DASHED LINES FROM SAID REFERENCES SHOWN HEREON; THAT THIS PRELIMINARY PLAT IS NOT FOR RECORDATION, CONVEYANCES OR SALES.

WITNESS MY ORIGINAL SIGNATURE AND SEAL THIS THE

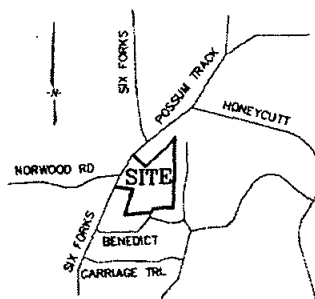
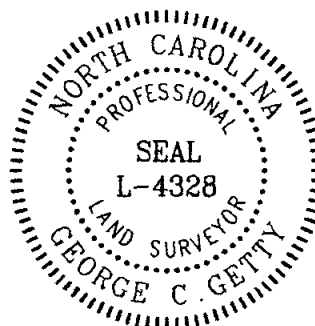
29th DAY OF October A.D., 2012

George C Getty

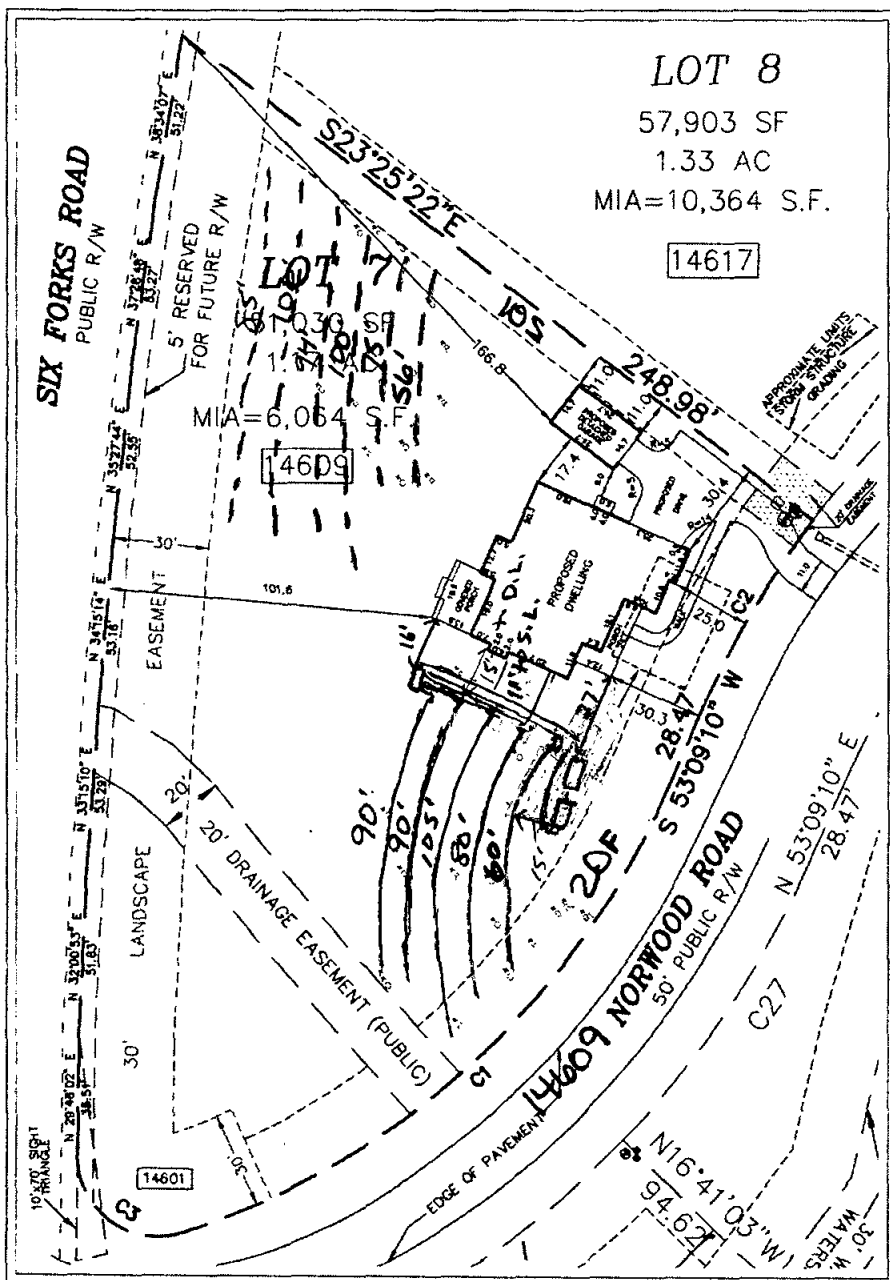
L-4328

PROFESSIONAL LAND SURVEYOR

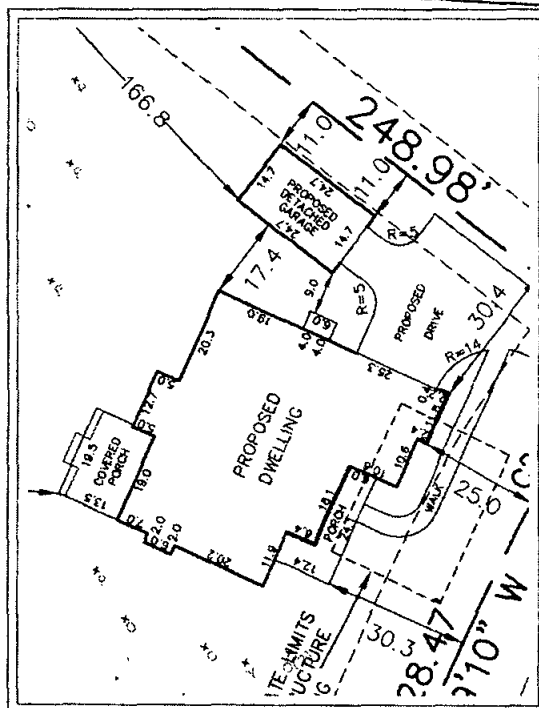
LICENSE NUMBER



VICINITY MAP
NOT TO SCALE



0122471
D46046
Pin: 70902589745
I certify that the location of planned or existing structure(s) are accurately shown. I understand failure to locate structures in accordance with this plot plan may require the relocation of structure(s) regardless degree of completion. I hereby grant permission to Municipal/County Representatives the right of entry to make evaluations or inspections upon this property.
Signature of Owner or Authorized Agent



IMPERVIOUS AREA CHART	
LOT #	STREET #
7	14609
BUILDINGS	DRIVE & WALK
3,160 SF	1,321 SF
TOTAL IMPERVIOUS	4,481 SF

CURVE	RADIUS	ARC LENGTH	CHORD LENGTH	CHORD BEARING
C1	250.00'	210.16'	204.03'	N 77°14'08" E
C2	300.00'	69.06'	68.91'	S 59°44'52" W
C3	25.00'	47.33'	40.57'	S 24°26'26" E

NOTES:

- BOUNDARY AND BASIS OF BEARING BASED ON BM 2007 PG 1083-1084
- REFER TO RECORDED PLATS AND DEEDS FOR ADDITIONAL INFORMATION NOT SHOWN HEREON
- SETBACKS SHOWN TO PROPOSED BUILDING

Zoning 7005 40 FEET 11.925
P = PURPLE SEPTIC FLAG
O = ORANGE SEPTIC FLAG
Y = YELLOW SEPTIC FLAG
B = BLUE FLAG
NOTE: SOME FLAGS MISSING AND NEWER FLAGS NOT SHOWN
Front 10 20

C.A. Part A

PLOT PLAN LOT 7 FOR:
HOMES BY DICKERSON

Revised 4/16/12
SC

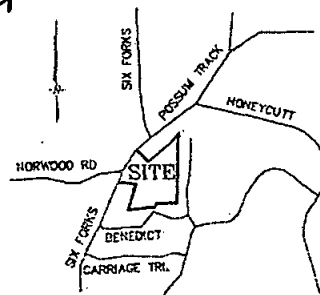
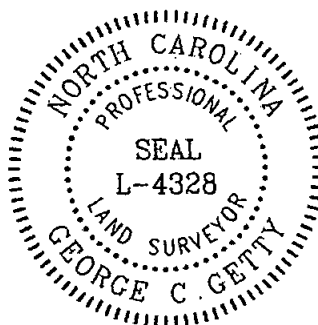
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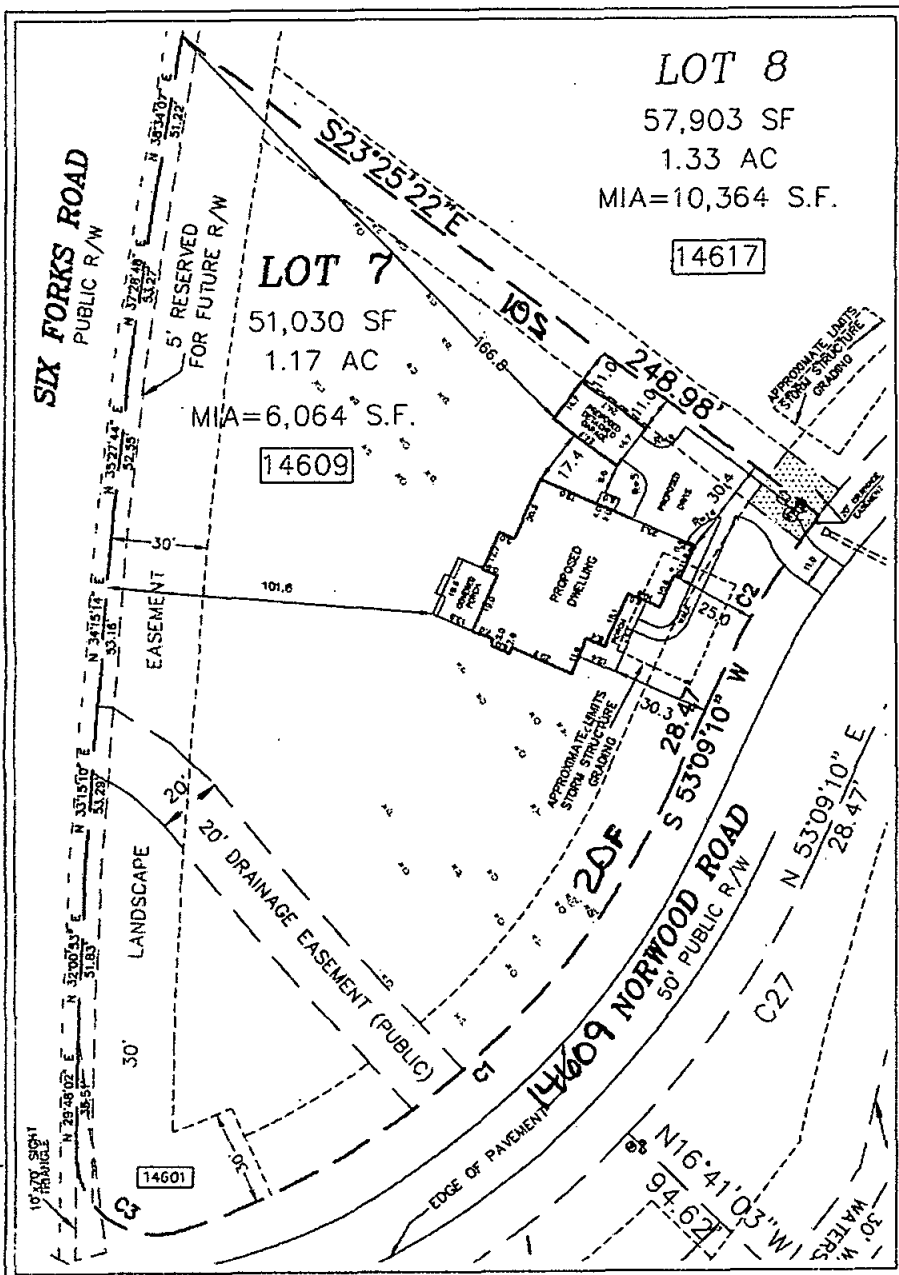
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29th DAY OF October A.D., 2012

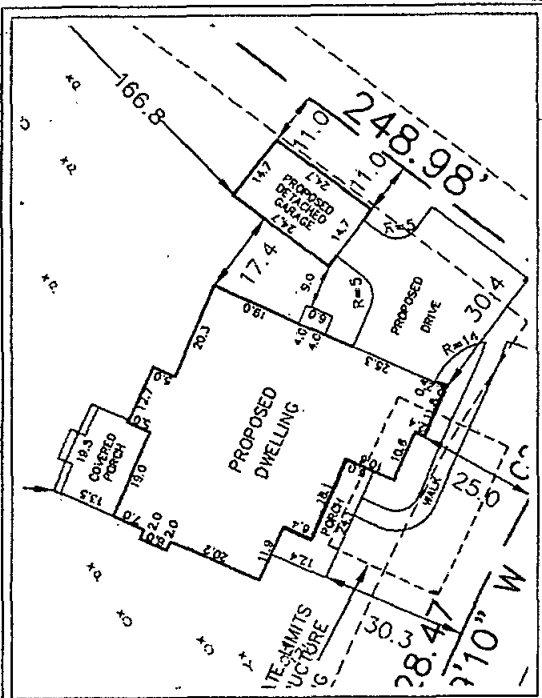
George C Getty L-4328
PROFESSIONAL LAND SURVEYOR LICENSE NUMBER



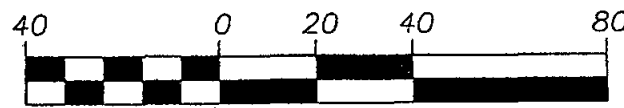
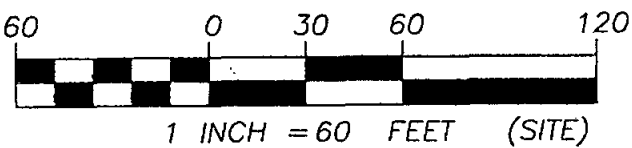
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- NOTES:
- BOUNDARY AND BASIS OF BEARING BASED ON BM 2007 PG 1083-1084
 - REFER TO RECORDED PLATS AND DEEDS FOR ADDITIONAL INFORMATION NOT SHOWN HEREON
 - SETBACKS SHOWN TO PROPOSED FOUNDATION MASONRY
 - SURVEY MADE WITHOUT BENEFIT OF ABSTRACT OF TITLE
 - NO PORTION OF PROPERTY SHOWN IS WITHIN A SPECIAL FLOOD HAZARD AREA ACCORDING TO FIRM PANEL 1709, MAP #3720170900J, EFFECTIVE DATE MAY 2, 2006

Zoning 40 FEET 1. DETAILS
P = PURPLE SEPTIC FLAG
O = ORANGE SEPTIC FLAG
Y = YELLOW SEPTIC FLAG
B = BLUE FLAG
NOTE: SOME FLAGS MISSING AND NEVER FLAGS NOT SHOWN
Reject 20 2020
Front 10 20
Side 10 20
10/29/2012-REVISED FOR CHANGE IN DWELLING
08/06/2012-REVISED DWELLING AND POSITION AND EDITED DRIVE
05/26/2012-REVISED DWELLING AND GARAGE PLANS AND EDITED DRIVE
04/10/2012-REVISED DWELLING POSITION, DRIVE AND ADDED SEPTIC FLAGS
04/02/2012-REVISED FOR TYPE OF DWELLING AND POSITION ON SITE
03/08/2011-REVISED FOR DWELLING POSITION ON LOT

GEORGE C GETTY, SURVEYOR

6109 STEEDS RUN DRIVE
RALEIGH, NC 27616
PHONE: 919.981.6353
CELL: 919.995.0884
EMAIL: ggetty@bellsouth.net

PLOT PLAN LOT 7
GEORGES GRANT

REFERENCE:
BM 2007 PG 1083-1084
BM 2008 PG 2334
BM 2012 PG 094
DB 13344 PG 1330

LEGEND
● IRON PIPE/DH SET, FOUND
○ LIGHT POLE
□ CLEAN OUT
□ AC UNIT
□ ELECTRIC PAD
○ GAS, WATER METER
○ ELECT. METER, BOX
○ TELEPHONE BOX
○ CABLE BOX

DRAWN: GCG
FIELD WORK:
PIN: 1709589745
DATE: 03/03/2011
REVISED: 10/29/2012
BARTONS CREEK TOWNSHIP
WAKE COUNTY
NORTH CAROLINA
11-1030-6

C.A. Part B

Initial:

1200gal S.T., P.T.
425 ft. accepted status
unequal length lines
pressure manifold
20 inch max. trench depth

Repair:

509 ft. accepted status
unequal length lines
pressure manifold
24 inch max. depth

SIX FORKS ROAD
PUBLIC R/W

5' RESERVED
FOR FUTURE R/W

N 35°27'44" E
52.55'

N 37°28'48" E
53.27'

N 38°34'07" E
51.22'

Soils Boundary

3

2

Repair

31,030 SF
1.17 AC
MIA=6,064 S.F.

LOT 7

14609

20' DRAINAGE EASEMENT (PUBLIC)

Porch

PROPOSED DWELLING

Pressure Line

Sewer Line

Tank

Initial

NORWOOD ROAD
50' PUBLIC R/W

APPR
STC

248.98'
11.0'
11.0'
17.4'
9.0'

30.4

25.0

30.3

C1

C2

20' DR
EAS

Project:
Lot 7 Georges Grant

Don

DANIEL J. BLILEY

SOIL AND LAND USE CONSULTANT

614 SOUTH SECOND STREET

SMITHFIELD, NORTH CAROLINA 27577

(919) 934-8610

August 15, 2012

Mr. Scott Reams
Environmental Health Specialist
Wake Co. Environmental Services
P.O. Box 550
Raleigh, North Carolina 27602

Scott:

Attached with this letter are three copies of the pressure manifold design package for lot 7 in George's Grant Subdivision. The drain field trenches are flagged on the ground and the exterior corners of the house foot print are marked by orange stakes on the ground.

Please call me if you have any questions regarding this proposal or if there is additional material that is needed.


Daniel J. Bliley
Licensed Soil Scientist

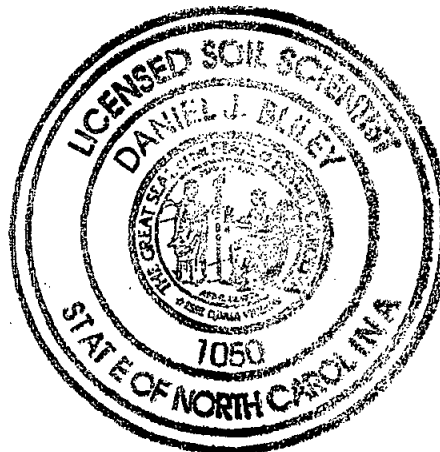
cc: Homes by Dickerson

☐ APPROVED
☒ APPROVED AS NOTED
☐ DISAPPROVED

Review of this document has been made only for conformance with the design concept of the project and approval or approval as noted shall not relieve the designer and/or contractor from responsibility for any errors therein or for furnishing the materials, and equipment of proper dimension, size, quantity, quality and all performance characteristics to meet the requirements and intent of the contract documents.

WAKE COUNTY DEPARTMENT OF
ENVIRONMENTAL SERVICES

Date 9-21-12 By Everett L. Landon



WAKE COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES

PRESSURE MANIFOLD DESIGN

Name: Homes by Dickerson **P.I.N. #:** 1709589745.00000000 **D#:** 46046
Address: 14609 Norwood Road **Subdiv:** George's grant **Lot#:** 7
of BDR: 4 **Daily Flow:** 480 gal/day **L.T.A.R.:** 0.30 gal/day/sq.ft
Septic Tank: 1200 gals **Pump Tank:** 1200 gals **Sq. Foot:** 1275 **Stone Depth:** Easy Flow
Number of Taps: 5 **Length of Trenches:** 425 ft(See Tap Chart for Details)
Depth of Trenches: 24 in **Manifold Length:** 48 in
Manifold Diameter: 4in sch 80pvc **Tap Configuration:** 6 in spacing 1 side(s) of manifold
Supply Line: length: 73 ft **Diameter:** 2 in sch 40pvc
Friction Loss + Fitting Loss: 3.72 ft(supply line length + 70' for fittings in pump tank)
Design Head: 2 ft **Elevation Head:** 10.41 ft
Total Head: 16.13 ft **Pump to Deliver:** 36.91 gals/min at 16.13 ft head
Dosing Volume: 207.19 gals,
Drawdown: 207.19 gals divided by 24.2 gals/in = 8.56 inches

Simplex Control Panel required; elapsed time meter and cycle counter required; Floats to be determined by type of pump tank used. A septic tank filter, Zabel A-1800 or equal is required.
 Possible pumps: Hydromatic: Goulds: EP-05 Myers:
 Zoeller: Other:

TAP CHART

Bench Mark	4.52	is = 100.00	set at <u>85.7</u>				Design Head:	2	
Pump tank elev.	<u>18.8</u>	<u>404.52</u>	Pump elev.	<u>80.7</u>	<u>99.32</u>		Manifold elev.	91.11	
line	color	rod read	Elevation	length	hole size	flow/tap	gal/day	trench area	LINE LTAR
7	P	14.41	90.11	90	SCH40 1/2	7.11	92.46	270	0.3425
8	O	14.87	89.65	90	SCH40 1/2	7.11	92.46	270	0.3425
9	P	16.02	88.50	105	SCH80 3/4	10.1	131.35	315	0.4170
10	O	17.74	86.78	80	SCH40 1/2	7.11	92.46	240	0.3853
11	Y	18.69	85.83	60	SCH80 1/2	5.48	71.27	180	0.3959
			104.52		NA		0.00	0	#DIV/0!
			104.52		NA		0.00	0	#DIV/0!
			104.52		NA		0.00	0	#DIV/0!
		total	feet =	425	gal/min =	36.91		<u>LTAR =</u>	<u>0.30</u>
% of Pipe Vol.	75			<u>Des. Flow</u>	480			(ltar + 5%)	0.32
Dose Volume	207.19			<u>Pump Run=</u>	13.00			(ltar W/ INOV)	0.40
Dose Pump Time	5.61			<u>Tank Gal/IN</u>	<u>24.2</u>			(ltar + 5%)	0.42
Drawdown in Inches	<u>0.07</u> <u>9.6</u>			<u>Elev. Head</u>	<u>6.44</u> <u>10.4</u>				
Supply Line Length	73'								
Comments:									

Hydraulic Profile Manifold Elev 91.1 Pump Tank Elevation - 18 85.7 Pump Elevatio 80.7

TAP CHART - REPAIR - LOT 7 George's grant

Bench Mark	4.52	is = 100.00 Location of BM				Elevation Head				17.42
Pump tank elev.		85.7	104.52	Pump elev.	80.7	98.52	Manifold elev.			98.10
line	color	rod read	Elevation	length	hole size	flow/tap	gal/day	trench area	LINE LTAR	
1	O	7.42	97.10	85	sch40 1/2	7.11	72.60	255	0.2847	
2	P	8.91	95.61	100	sch 80 3/4	10.1	103.13	300	0.3438	
3	O	9.12	95.40	94	sch40 1/2	7.11	72.60	282	0.2574	
4	P	9.85	94.67	100	sch 80 3/4	10.1	103.13	300	0.3438	
5	O	10.36	94.16	75	sch 40 1/2	7.11	72.60	225	0.3227	
6	P	12.05	92.47	55	sch80 1/2	5.48	55.95	165	0.3391	
7			104.52		NA		0.00	0	#DIV/0!	
8			104.52		NA		0.00	0	#DIV/0!	
		total	feet =	509	gal/min =	47.01	LTAR =		0.30	
						LTAR + %5		0.32		
% of Dose Vol.	75	Des. Flow		480		(ltar W/ INOV)		0.40		
Dose Volume	248.14	Pump Run=		10.21		(ltar W/ INOV + 5%)		0.42		
Dose Pump Time	5.28	Tank Gal/IN								
Drawdown in Inches	#DIV/0!									

Max. trench depth - 24 inches