

Environmental Services - Water Quality
Onsite Wastewater Scan Data Entry Form

PERMIT #: 0042046

PIN #: 0678066702

OP DATE: 0712212009

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.)

01170

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
☐ 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

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#: D042046 STATUS: A APP. DATE: 03/06/2008 BLDG. PERMIT#: 0082737
PIN: 0678.01 06 6702 000 TAX MAP: 0 RECORDED: Y ORIG. PERMIT#:
TOWNSHIP: 12 MIDDLE CREEK JURISDICTION: WC ZONING: R-30 SW DEVICE: N S#:
APPLICANT: STRONG BUILT HOMES OF NC INC
732 TREBOR DR
GARNER, NC 27529
(919) 427 - 1733
USE: HD USE: 101 ONE-FAMILY HOUSE
EXIST USE:
LTAR: 0.35 0.35 BEDROOMS: 4 BASEMENT: N #EMPLOYEES: 0
SITE: ADDRESS: 3420 PETTICOAT LN
SUBDIVISION: HIGH GROVE LOT: 45 ACRES: 0.76 EASEMENT: N LOC: SYS:
DIRECTION: 401 S. TO FUQUAY TR HILLTOP-NEEDMORE PAST CROOK
CREEK S/D ON RT

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:

DESIGN FLOW: 39.90 gal./min. ACTUAL FLOW: Operation Permit
INNOVATIVE LETTER:
INSTALLED BY: Tyson Mathews INSTALLATION APPROVED BY:
PROPRIETARY SYSTEM: FILTER NO:
COMMENTS:
OPERATIONS PERMIT ISSUED? yes OP DATE: 7-22-09 BY: Jah

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: Benchmark: Rod reading: Distance to Structure:
ST: 1200 gals ID#: STB-106 D.O.M.: 6-12-08 Elev.: 30" Distance to Well:
PT: 1200 gals ID#: PT-213 D.O.M.: 6-14-06 Elev.: 34"
D-box/FD/PM elev.: Supply Line: ft. Pump/Control Panel:
Line 1: 67" Date: Line 6: Date:
Line 2: 74" Date: Line 7: Date:
Line 3: 25" Date: Line 8: Date:
Line 4: 86" Date: Line 9: Date:
Line 5: 90" Date: Line 10: Date:
Distance to P/L: Notes:

Needs Pump Final

File

**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#: D042046 STATUS: A APP. DATE: 03/06/2008 BLDG. PERMIT#: 0082737
PIN: 0678.01 06 6702 000 TAX MAP: 0 RECORDED: Y ORIG. PERMIT#:
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APPLICANT: STRONG BUILT HOMES OF NC INC
732 TREBOR DR
GARNER, NC 27529
(919) 427 - 1733
USE: HD USE: 101 ONE-FAMILY HOUSE
EXIST USE:
LTAR: 0.35 0.35 BEDROOMS: 4 BASEMENT: N #EMPLOYEES: 0 FOUNDATION DRAIN: P
SITE: ADDRESS: 3420 PETTICOAT LN
SUBDIVISION: HIGH GROVE LOT: 45 ACRES: 0.76 EASEMENT: N LOC: SYS:
DIRECTION: 401 S. TO FUQUAY TR HILLTOP-NEEDMORE PAST CROOK
CREEK S/D ON RT

IMPROVEMENT PERMIT

TANK SIZE: 1200 gal. PUMP Tank: 1200 gal. SQ FT: 1170 INNOVATIVE MAX DEPTH LINE: 24 in.
WASTEWATER: INDIVIDUAL SEWAGE: DOMESTIC TYPE SYSTEM: III G PUMP: Y P/M: Y
DAILY FLOW: 480 gal/day DESIGN FEE REQ?: PAID?: Y WATER: COMMUNITY

COMMENTS:

IP ISSUED? Y DATE: 03/31/2008 BY: (JEW) *J. Woodward by Everett L. Coates* PHONE#: 856-7342

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 MATT BURDETTE (REV. 3-31-08 BY ELC) FOR INSTALLATION INFORMATION. INITIAL SYSTEM IS A VARIED LENGTH EZ FLOW PRESSURE MANIFOLD WITH 24" 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 O RE-FLAG. NO FOUNDATION DRAIN ON RIGHT SIDE OF HOUSE WITHIN 15 FT OF REPAIR AREA.

TANK SIZE: 1200 gal. PUMP TANK: 1200 gal. SQ FT: 1170 INNOVATIVE MAX DEPTH LINE: 24 in.
MAINT: OPER: L/O: P TRENCH#: 5 LENGTH: 390 ft. WIDTH: 36 in. DESIGNER: MATT BURDETTE
SUBFIELDS: 1 DESIGN HEAD PRESSURE: 2 DESIGN FLOW: 39.90 gal/min DOSE VOLUME: 203 gal.

CA ISSUED? Y DATE: 03/31/2008 BY: (ELC) *Everett L. Coates* PHONE#: 856-5380

VICINITY MAP (N.T.S.)

VICINITY MAP (N.T.S.)

LEGEND

NTS	NOT TO SCALE	
EIP	EXISTING IRON PIPE	C1
PP	POWER POLE	C2
W/M	WATER METER	
TB	TELEPHONE BOX	
IPS	IRON PIPE SET	
CPBL	TRANSFORMER	
CATV	CABLE TV BOX	
L. POLE	LIGHT POLE	
OHPL	OVERHEAD POWER LINE	
F.E.S.	FLARED END SECTION (PIPE)	
RCP	REINFORCED CONC. PIPE	
B.O.C.	BACK OF CURB	
F.H.	FIRE HYDRANT	
C/O	SEWER CLEAN OUT	
EIS	EXISTING IRON STAKE	
M.H.	MANHOLE	
ECM	EXISTING CONCRETE MONUMENT	
P.K.	PARKER KALON NAIL	
W/V	WATER VALVE	

CURVE	RADIUS	LENGTH	CHORD	CH.BEARING
C1	175.00'	54.52'	54.30'	S 08°37'08"W
C2	25.00'	38.49'	34.80'	S 43°48'10"W

COURSE	BEARING	DISTANCE
L1	S 00°18'22"E	19.87

IMPERVIOUS SURFACE TABLE

HOUSE & GARAGE	3357
DRIVEWAY	2258
SIDEWALK & POOL WALK	615
TOTAL IMPERVIOUS AREA	6230
TOTAL LOT AREA	32,940

PERCENTAGE OF IMPERVIOUS AREA 18.91%
 IMPERVIOUS SURFACE COVERAGE ALLOWED
 PER B.O.M.2007 PG.2239-2242 IS 6500

MIRA: 6,5008

Permit # 0082737

D #: 042046

N.C. GRID NORTH, NAD 27
(B.O.M.2007 PG.2439-2442)

44

Zoning	R-30	By	KR
Approve	L	Date	3-6-08
Revise		Use	101
Reject		MBL	
Front	301	Rear	301
Side	101	Corner	
Comments:	House 04/19/11		

I certify that the location of planned or existing structure(s) are accurate as shown. I understand failure to locate structure(s) in accordance with this plot plan may require the reversion of structure(s) regardless of 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

PIN#: 0628.01066701

NOTE: EASEMENTS FOR INSTALLATION & MAINTENANCE OF UTILITIES & DRAINAGE FACILITIES ARE RESERVED OVER 10' AT REAR AND 5' ON EACH SIDE LINE OF EACH LOT.

NOTE: SHOWN IS LOT 45 OF
HIGH GROVE S/D
PHASE 2
REF: B.O.M.2007 PG.2439-2442

AREA = 0.76 ACRES
5116 Highbury Grove Lane

50 0 50 100 150



GRAPHIC SCALE - FEET

THIS IS TO CERTIFY THAT THIS MAP WAS
PREPARED FROM AN ACTUAL SURVEY OF THE
PREMISES, MADE UNDER MY SUPERVISION, AND
THAT THERE ARE NOT ANY ENCROACHMENTS,
EXCEPT AS NOTED TO THE BEST OF MY KNOWLEDGE.
THAT THE RATIO OF PRECISION AS CALCULATED BY
LATITUDES AND DEPARTURES IS 1:10,000.
THIS MAP WAS PREPARED FOR TITLE COMPANY USE
AND IS NOT INTENDED FOR RECORDATION OR
CONVEYANCES WITHOUT WRITTEN AUTHORIZATION
OF THE SURVEYOR AND OTHER APPROPRIATE OFFICIALS.

PROFESSIONAL LAND SURVEYOR
L-3247

PRELIMINARY PLAT
NOT FOR RECORDATION

PRELIMINARY PLOT PLAN FOR:
STRONG BUILT HOMES

MIDDLE CREEK TWSP., WAKE CO., N.C.
SCALE 1" = 50' NOVEMBER 14, 2007

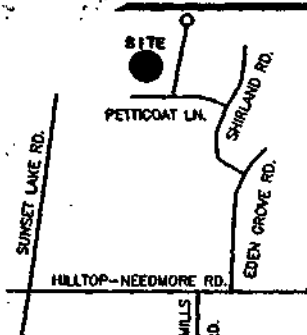
MAULDIN-WATKINS SURVEYING P.A.
1301 BROAD ST. / P.O. BOX 444
FUQUAY-VARINA, NC. 27526
919-552-9326

3113~45

C.A. Part A

revised 3/20-08

D# 042046



VICINITY MAP (N.T.S.)

LEGEND	CURVE	RADIUS	LENGTH	CHORD	CH. BEARING
NTS NOT TO SCALE					
EIP EXISTING IRON PIPE	C1	175.00'	54.52'	54.30'	S 08°37'08"W
PP POWER POLE	C2	25.00'	38.49'	34.80'	S 43°48'10"W
W/M WATER METER					
TB TELEPHONE BOX					
IPS IRON PIPE SET					
CP&L TRANSFORMER					
CATV CABLE TV BOX					
L. POLE LIGHT POLE					
OHPL OVERHEAD POWER LINE					
F.E.S. FLARED END SECTION (PIPE)					
RCP REINFORCED CONC. PIPE					
B.O.C. BACK OF CURB					
F.H. FIRE HYDRANT					
C/O SEWER CLEAN OUT					
EIS EXISTING IRON STAKE					
M.H. MANHOLE					
ECM EXISTING CONCRETE MONUMENT					
P.K. PARKER KALON NAIL					
W/V WATER VALVE					

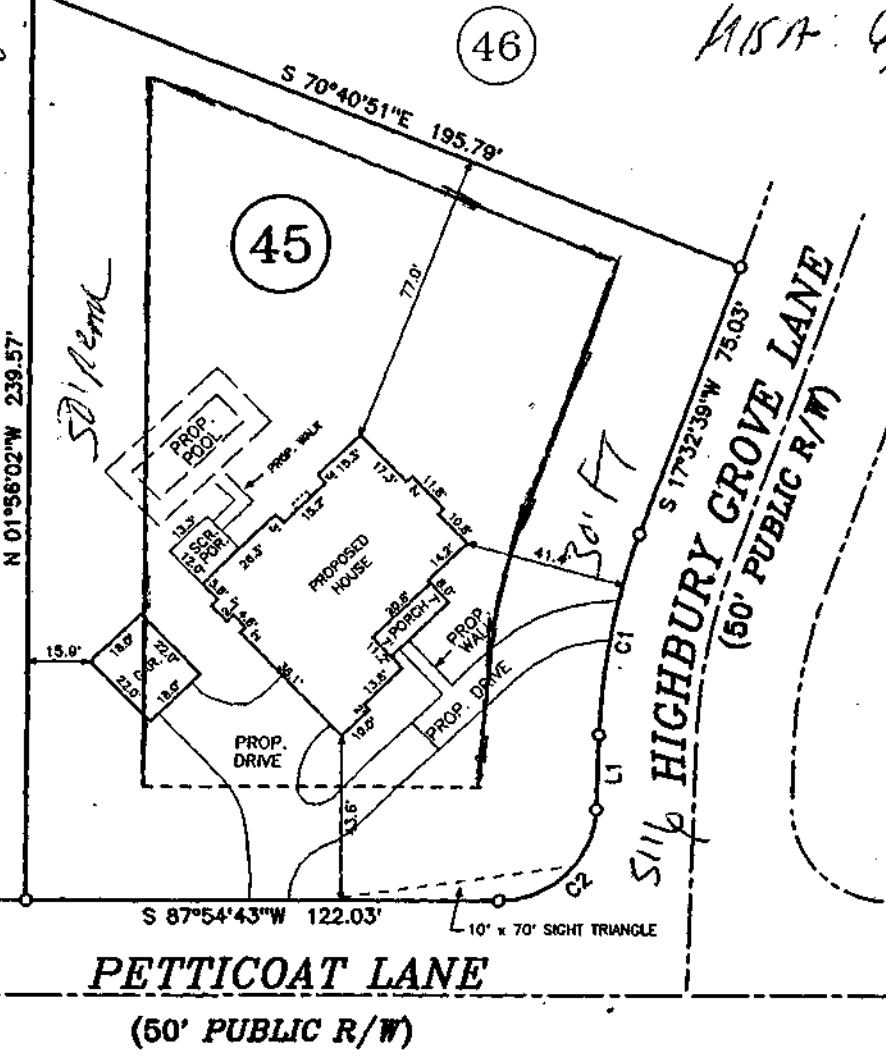
COURSE	BEARING	DISTANCE
L1	S 00°18'22"E	19.87'

IMPERVIOUS SURFACE TABLE

HOUSE & GARAGE	3357
DRIVEWAY	2258
SIDEWALK & POOL WALK	615
TOTAL IMPERVIOUS AREA	6230
TOTAL LOT AREA	32,940
PERCENTAGE OF IMPERVIOUS AREA	18.91%
IMPERVIOUS SURFACE COVERAGE ALLOWED PER B.O.M. 2007 PG. 2239-2242 IS	6500

Zoning R-30 By PSM 3/20/08
 Approve N.C. 0810 NORTH, 100 27 121
 Revise (B.O.M. 2007 PG. 2439-2442)
 Reject MBL
 Front 30' Rear 30'
 Side 10' Corner
 Comments: Horse only

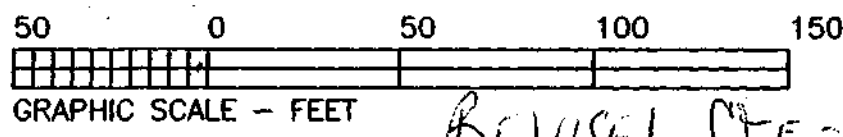
Pin # 0028-0106-670-1
 I certify that the location of planned or existing structure(s) are accurately shown. I understand failure to locate structures in accordance with this plot plan may require the relocation of structure(s) regardless degree of completion. I hereby grant permission to Municipal/County Representatives the right of entry to make evaluations or inspections upon this property.
 Signature of Owner or Authorized Agent: [Signature]
 Signature of Owner or Authorized Agent



Area: 4,500 SF

NOTE: EASEMENTS FOR INSTALLATION & MAINTENANCE OF UTILITIES & DRAINAGE FACILITIES ARE RESERVED OVER 10' AT REAR AND 5' ON EACH SIDE LINE OF EACH LOT.

NOTE: SHOWN IS LOT 45 OF HIGH GROVE S/D
 PHASE 2
 REF: B.O.M. 2007 PG. 2439-2442
 AREA = 0.76 ACRES
 5116 HIGHBURY GROVE LANE



REVISED SITE PLAN!!

THIS IS TO CERTIFY THAT THIS MAP WAS PREPARED FROM AN ACTUAL SURVEY OF THE PREMISES, MADE UNDER MY SUPERVISION, AND THAT THERE ARE NOT ANY ENCROACHMENTS, EXCEPT AS NOTED TO THE BEST OF MY KNOWLEDGE. THAT THE RATIO OF PRECISION AS CALCULATED BY LATITUDES AND DEPARTURES IS 1:10,000. THIS MAP WAS PREPARED FOR TITLE COMPANY USE AND IS NOT INTENDED FOR RECORDATION OR CONVEYANCES WITHOUT WRITTEN AUTHORIZATION OF THE SURVEYOR AND OTHER APPROPRIATE OFFICIALS.

PROFESSIONAL LAND SURVEYOR
 L-3247

PRELIMINARY PLAT
 NOT FOR RECORDATION

PRELIMINARY PLOT PLAN FOR:
STRONG BUILT HOMES

MIDDLE CREEK TWSP., WAKE CO., N.C.
 SCALE 1" = 50' NOVEMBER 14, 2007

MAULDIN-WATKINS SURVEYING P.A.
 1301 BROAD ST. / P.O. BOX 444
 FUGUAY-VARINA, NC. 27526
 919-552-9326

C.A. Part B

LOT 45 HIGH GROVE ESTATES

4-BEDROOM PRESSURE MANIFOLD SYSTEM
LINES 7-11
EZFLOW
LTAR 0.35-0.4

4-BEDROOM PRESSURE MANIFOLD REPAIR
LINES 1-6
EZFLOW
LTAR 0.35-0.4

PROPERTY INFORMATION PROVIDED BY
STEWART & PROCTOR

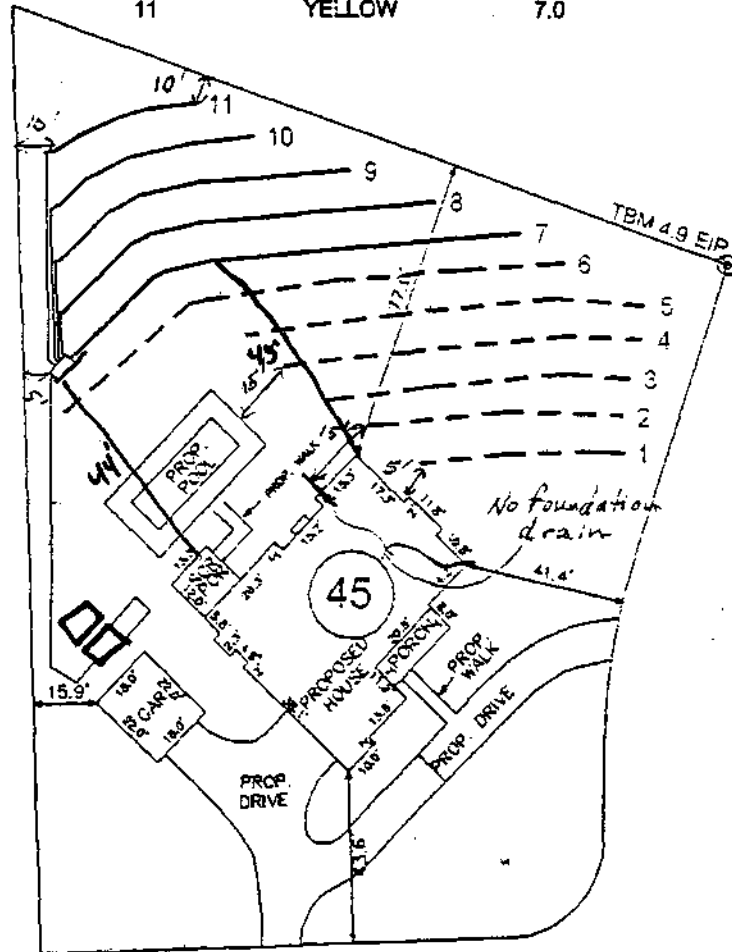
SEPTIC LAYOUT PROVIDED BY BURDETTE
LAND CONSULTING, INC.

FOR GENERAL USE NOT A SURVEY

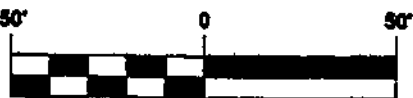
NO FOUNDATION DRAINS

LINE SCHEDULE

LINE NUMBER	COLOR	FIELD ELEVATION	LENGTH
1	BLUE	2.7	45
2	ORANGE	3.0	50
3	YELLOW	3.4	55
4	ORANGE	3.7	65
5	BLUE	4.0	75
6	YELLOW	4.3	90
7	ORANGE	4.7	110
8	BLUE	5.1	95
9	YELLOW	5.6	75
10	BLUE	6.2	60
11	YELLOW	7.0	50



GRAPHIC SCALE
1" = 50'



SEPTIC SYSTEM LAYOUT
HIGH GROVE SUBDIVISION
STRONG BUILT HOMES
WAKE COUNTY, NC



BURDETTE LAND CONSULTING, INC.

10212 Creedmoor Road Raleigh, North Carolina 27615
Telephone (919) 841-9977 - Fax (919) 841-9909

DATE: 1-2-08

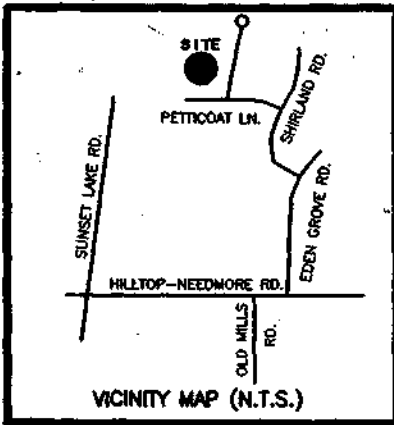
SCALE: 1" = 30'

DRAWN BY: JBB

CHK'D BY: TMB

PROJECT #: 7182

LOT 45



LEGEND	
NTS	NOT TO SCALE
EIP	EXISTING IRON PIPE
PP	POWER POLE
W/M	WATER METER
TB	TELEPHONE BOX
IPS	IRON PIPE SET
CPBL	TRANSFORMER
CATV	CABLE TV BOX
L. POLE	LIGHT POLE
OHPL	OVERHEAD POWER LINE
F.E.S.	FLARED END SECTION (PIPE)
RCP	REINFORCED CONC. PIPE
B.O.C.	BACK OF CURB
F.H.	FIRE HYDRANT
C/O	SEWER CLEAN OUT
EIS	EXISTING IRON STAKE
M.H.	MANHOLE
ECM	EXISTING CONCRETE MONUMENT
P.K.	PARKER KALON NAIL
W/V	WATER VALVE

COURSE	BEARING	DISTANCE
L1	S 00°18'22"E	19.87'

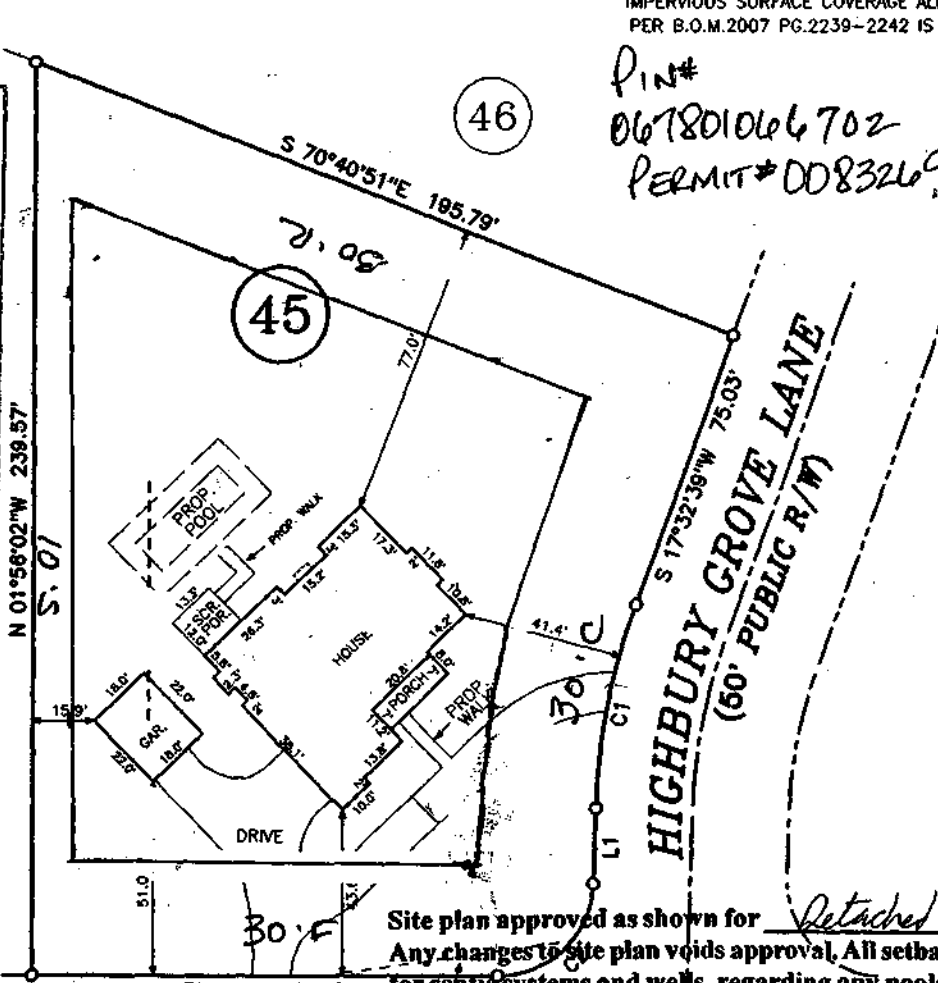
IMPERVIOUS SURFACE TABLE	
HOUSE & GARAGE	3357
DRIVEWAY	2289
SIDEWALK & POOL WALK	615
TOTAL IMPERVIOUS AREA	6261
TOTAL LOT AREA	32,940

PERCENTAGE OF IMPERVIOUS AREA 19.01%
 IMPERVIOUS SURFACE COVERAGE ALLOWED
 PER B.O.M.2007 PG.2239-2242 IS 6500

PIN#
 067801066702
 PERMIT#0083269

I certify that the location of plan shown is correct and that the structures are accurately shown. I understand that the structures shown on this plan may require the relocation of structure(s) regardless of 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



Zoning D30 By DUB

Approve _____ Date 4-25-08

Revise _____ Use 486D

Reject _____ MBL _____

Front 30 Rear 30

Side 30 Corner _____

Comments: _____

Site plan approved as shown for Detached Garage. Any changes to site plan voids approval. All setbacks apply for septic systems and wells, regarding any pools, decks, additions and/or accessory structures. Applicant is responsible for protecting all portions of the septic system, repair area and wells from damage during construction. Adhere to all Local and State Rules.

Approved by Eric K... L.S. Date 4-25-08
 Wake County Department of Environmental Services.

NOTE: EASEMENTS FOR INSTALLATION OF SEPTIC SYSTEMS & DRAINAGE FACILITIES ARE RESERVED OVER 10' AT REAR AND 5' ON EACH SIDE LINE OF EACH LOT.

NOTE: SHOWN IS LOT 45 OF HIGH GROVE S/D PHASE 2
 REF: B.O.M.2007 PG.2439-2442

AREA = 0.76 ACRES
 5116 HIGHBURY GROVE LANE



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PROFESSIONAL LAND SURVEYOR
 L-3247

PRELIMINARY PLAT
 NOT FOR RECORDATION

PRELIMINARY PLOT PLAN FOR:
STRONG BUILT HOMES

MIDDLE CREEK TWS., WAKE CO., N.C.
 SCALE 1" = 50' APRIL 17, 2008

MAULDIN-WATKINS SURVEYING P.A.
 1301 BROAD ST. / P.O. BOX 444
 FUQUAY-VARINA, NC. 27526
 919-552-9326

File

C.A. Part C

Septic System Design

for

HIGH GROVE ESTATES S/D LOT 45
Fuquay Varina, North Carolina

Designed by:

Matt Burdette
Burdette Land Consulting, Inc.
Raleigh, North Carolina
BLC Project #: 7182

☐ 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 3-31-08 By Everett L. Loatch

MAR 2008

HIGH GROVE ESTATES S/D LOT 45
Table of Contents

Contact Information -----	1
Specifications (system) -----	2
Specifications (repair) -----	4
Site Plan -----	5
Control Panel Specifications -----	6
Pump Specifications -----	8
Effluent Filter Specifications -----	10

Attachments

Hydraulic Profile	Figure	1
Septic and Pumptank Details	Figure	2
Pressure Mainfold and Trench Details	Figure	3

HIGH GROVE ESTATES S/D LOT 45

Contact Information

Client: STRONG BUILTY HOMES

Attn: JOHN STRONG

Street Address: 732 TREBOR DRIVE
RALEIGH, NC 27529

Phone: (919) 291-6368

Fax: (919) 779-4298

Designer: Burdette Land Consulting, Inc

Attn: Matt Burdette

Street Address: 10212 Creedmoor Road
Raleigh, NC 27615

Phone: 919-841-9977

Fax: 919-841-9909

HIGH GROVE ESTATES S/D LOT 45

Layout/Design Specifications

Facility Type:	Single Family Home
# of Bedrooms:	4
Daily Flow:	480 gal/day
L.T.A.R.:	0.35 gal/day/sq.ft
Trench Depth:	24 in
Trench Width:	36 in
Stone Depth:	EZ-FLOW 12 in
Manifold Length:	48 in
Manifold Diameter:	4 in sch 80pvc
Supply Line Length:	91 ft
Supply Line Diameter:	2 in sch 40pvc
Supply Line Volume:	15.83 gallons
Friction Loss + Fitting Loss:	4.88 ft(supply line length + 70' for fittings in pump tank)
Design Head:	2 ft
Elevation Head:	5.4 ft (5.7')
Total Head:	12.28 ft ✓
Dose Volume:	203.05 gals
% of Pipe Vol.	.80
Drawdown:	9.93 in @ 20.45 gal/in
Control Panel:	SJE Rhombus Model 112 control panel (or approved equivalent)
Pump:	Zoeller ^N 137* Cast iron series Flow-Mate (or approved ec
Tank Effluent Filter:	Zoeller 170-0144 residential effluent filter (or approved equivalent)
Septic Tank:	1200 gallon
Pump Tank:	1200 gallon

* Non-automatic pump

HIGH GROVE ESTATES S/D LOT 45 **SYSTEM TAP CHART**

Bench Mark:		4.9	= 100.00		Manifold elev:		103.40			
Pump tank elevation:		~~104.00~~ 102.7			Pump elev:		~~98.60~~ 97.7			
line	color	rod read	elevation	length	hole size	flow/tap	gal/day	trench area	LINE LTAR	
7	ORANGE	4.70	100.20	110	3/4in SCH 80	10.1	121.50	330	0.3682	
8	BLUE	5.10	99.80	95	3/4in SCH 80	10.1	121.50	285	0.4263	
9	YELLOW	5.60	99.30	75	1/2in SCH 40	7.11	85.53	225	0.3802	
10	BLUE	6.20	98.70	60	1/2in SCH 40	7.11	85.53	180	0.4752	
11	YELLOW	7.00	97.90	50	1/2in SCH 80	5.48	65.92	150	0.4395	
P-TANK		2.20	102.70							
total			feet =	390	gal/min =	39.9	LTAR =		0.35	
				Des. Flow	480	(ltar + 5%)		0.37		
				Pump Run=	12.03	(ltar W/ INOV)		0.47		
						(ltar + 5%)		0.49		

Comments:

HIGH GROVE ESTATES S/D LOT 45 **REPAIR TAP CHART**

Bench Mark:		4.9	= 100.00		Manifold elev:		103.20		
Pump tank elevation:		102.70			Pump elev:		97.30		
line	color	rod read	elevation	length	hole size	flow/tap	gal/day	trench area	LINE LTAR
1	BLUE	2.70	102.20	45	1/2in SCH 80	5.48	64.53	135	0.4780
2	ORANGE	3.00	101.90	50	1/2in SCH 80	5.48	64.53	150	0.4302
3	YELLOW	3.40	101.50	55	1/2in SCH 80	5.48	64.53	165	0.3911
4	ORANGE	3.70	101.20	65	1/2in SCH 40	7.11	83.73	195	0.4294
5	BLUE	4.00	100.90	75	1/2in SCH 40	7.11	83.73	225	0.3721
6	YELLOW	4.30	100.60	90	3/4in SCH 80	10.1	118.94	270	0.4405

P-TANK 2.20 102.70

total	feet =	380	gal/min =	40.76	LTAR =	0.35
					(ltar + 5%)	0.37
					(ltar w/ INOV)	0.47
					(ltar + 5%)	0.49

Comments:

LOT 45 HIGH GROVE ESTATES

4-BEDROOM PRESSURE MANIFOLD SYSTEM
LINES 7-11
EZFLOW
LTAR 0.35-0.4

4-BEDROOM PRESSURE MANIFOLD REPAIR
LINES 1-6
EZFLOW
LTAR 0.35-0.4

PROPERTY INFORMATION PROVIDED BY
STEWART & PROCTOR

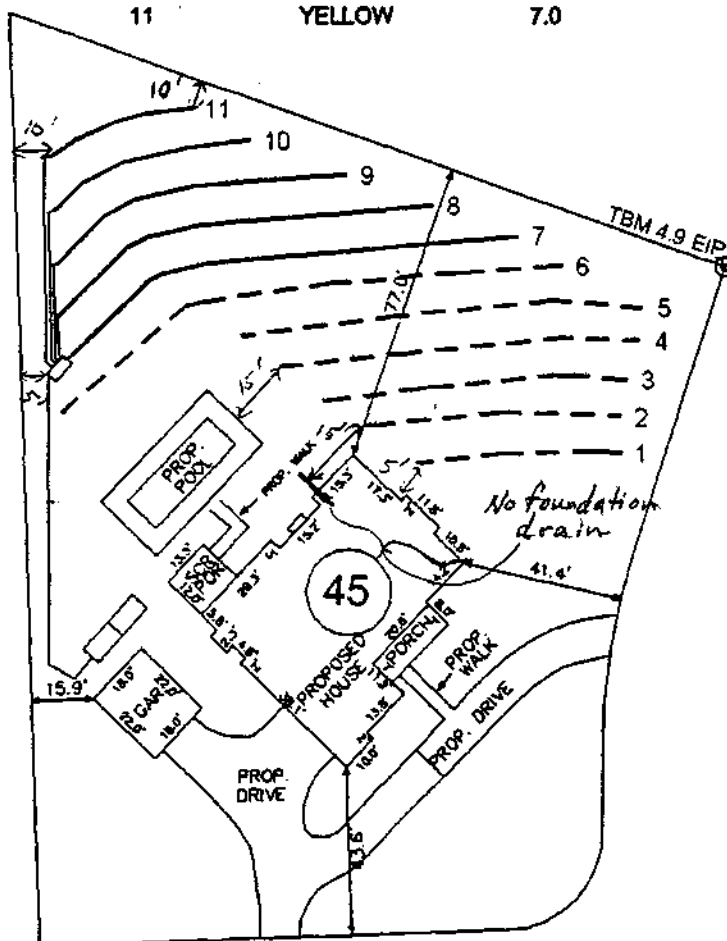
SEPTIC LAYOUT PROVIDED BY BURDETTE
LAND CONSULTING, INC.

FOR GENERAL USE NOT A SURVEY

NO FOUNDATION DRAINS

LINE SCHEDULE

LINE NUMBER	COLOR	FIELD ELEVATION	LENGTH
1	BLUE	2.7	45
2	ORANGE	3.0	50
3	YELLOW	3.4	55
4	ORANGE	3.7	65
5	BLUE	4.0	75
6	YELLOW	4.3	90
7	ORANGE	4.7	110
8	BLUE	5.1	95
9	YELLOW	5.6	75
10	BLUE	6.2	60
11	YELLOW	7.0	50



GRAPHIC SCALE
1" = 50'



SEPTIC SYSTEM LAYOUT
HIGH GROVE SUBDIVISION
STRONG BUILT HOMES
WAKE COUNTY, NC



BURDETTE LAND CONSULTING, INC.

10212 Creedmoor Road Raleigh, North Carolina 27615
Telephone (919) 841-9977 - Fax (919) 841-9909

DATE: 1-2-08

SCALE: 1" = 50'

DRAWN BY: JBB

CHK'D BY: TMB

PROJECT #: 7182

LOT 45