

Environmental Services - Water Quality
Onsite Wastewater Scan Data Entry Form

PERMIT #: 0027305

PIN #: 1639206147

OP DATE: 0512512007

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.)

01530

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#: **D027305** STATUS: A

APP. DATE: **05/23/2003**

BLDG. PERMIT#: **0033063**

PIN: **1639.03 20 6147 000**

TAX MAP: **0772 0001**

RECORDED: Y ORIG. PERMIT#:

TOWNSHIP: **16 ST MARYS**

JURISDICTION: **WC**

ZONING: **R30**

APPLICANT: **GREENFIELD HOUSING**

2117 U S 70 EAST

GARNER, NC 27629

(919) 772-2220

USE: **HD USE: 112 MOBILE HOME**

EXIST USE:

DISPOSAL: **BEDROOMS: 4 BASEMENT: N #EMPLOYEES: 0**

SITE: **ADDRESS: 4649 LOW GROUND CT**

SUBDIVISION: **HILLINGTON WEST** LOT: **167**

ACRES: **1.08**

DIRECTION: **70 E TO R ON SR 2647 TO L ON SR 2700 TO R
GO TO LOW GROUND CT ** MOBILE HOME ****

*70E R on White Oak R on Hicks L on Alonso R on
Low Ground lot on L in CDS*

Well System: **WATER: COMMUNITY** - TYPE: **EXISTING**

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: 35.78 gal/min. ACTUAL FLOW: 35.84 **Operation Permit**
INNOVATIVE LETTER:

INSTALLED BY: G & H Backhoe
PROPRIETARY SYSTEM:
COMMENTS:

INSTALLATION APPROVED BY: Tim Bass + EDD JRS
FILTER NO: Polylek PL-68

OPERATIONS PERMIT ISSUED? Y OP DATE: 5-25-07 BY: EDD JRS

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: 5/23 Benchmark: MCP 529 Rod reading: 12'0" Distance to Structure: 11'
ST: 1200 gals ID#: MCP 529 D.O.M.: 4-5-07 Elev.: 12'0" Distance to Well: _____
PT: 1200 gals ID#: MCP PT-364 D.O.M.: 3-7-07 Elev.: 12'3 3/4"

D-box/FD/PM elev.: 3.25" Supply Line: _____ ft. Pump/Control Panel: _____
Line 1: 4'6 1/2" 4'6 1/4" 4'6 3/4" Date: 5/23 TPB Line 6: _____ Date: _____
Line 2: 4'8" 4'7 3/4" 4'7 1/4" Date: 5/23 TPB Line 7: _____ Date: _____
Line 3: 5'4" 5'4" 5'4 1/2" 45" Date: 5/23 TPB Line 8: _____ Date: _____
Line 4: 5'2 1/2" 5'2 1/2" 5'3" Date: 5-25-ETC Line 9: _____ Date: _____
Line 5: _____ Date: _____ Line 10: _____ Date: _____

Distance to P/L: 5' from Supply Lines 25.6 gal/in PT X 9.75" = 249 gal/desc.

White sch 80 PVC PM. Concrete inner lid on Pump tank

60
-53
7"
125.6
179.215
35.84 gpm

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

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PERMIT#: **D027306** STATUS: **A** APP. DATE: **06/23/2003** BLDG. PERMIT#: **0033063**
PIN: **1639.03 20 6147 000** TAX MAP: **0772 0001** RECORDED: **Y** ORIG. PERMIT#:
TOWNSHIP: **16 ST MARYS** JURISDICTION: **WC** ZONING: **R30**
APPLICANT: **GREENFIELD HOUSING**
2117 U S 70 EAST
GARNER, NC 27629
(919) 772 - 2220
USE: **HD USE: 112 MOBILE HOME**
EXIST USE:
DISPOSAL: BEDROOMS: 4 BASEMENT: N #EMPLOYEES: 0 FOUND DRAIN: N
SITE: **ADDRESS: 4849 LOW GROUND CT**
SUBDIVISION: HILLINGTON WEST LOT: 167 ACRES: 1.08
DIRECTION: **70 E TO R ON SR 2547 TO L ON SR 2700 TO R**
GO TO LOW GROUND CT ** MOBILE HOME **

IMPROVEMENT PERMIT

TANK SIZE: **1200** gal. PUMP Tank: **1200** gal. SQ FT: **1630** STONE DEPTH: **12** in. MAX DEPTH LINE: **18** in.
WASTEWATER: **INDIVIDUAL** SEWAGE: **DOMESTIC** TYPE SYSTEM: **III B** PUMP: **Y** P/M: **Y**
DAILY FLOW: **480** gal/day DESIGN FEE REQ?: **Y** PAID?: **Y** WATER: **COMMUNITY**

COMMENTS:

IP ISSUED? **Y** DATE: **06/07/2007** BY: (ELC) *Everett L. Loster* PHONE#: **856-5380**

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:**

ACCEPTED STATUS SYSTEM REDUCTION HAS BEEN TAKEN FOR THE DESIGN OF REPAIR SYSTEM. PLEASE SEE DESIGN PLAN BY NEAL FLOYD (REVISED 05-10-07 BY ELC) FOR INSTALLATION INFORMATION. INITIAL SYSTEM IS A VARIED LENGTH GRAVEL LINE PRESSURE MANIFOLD WITH 18" DEEP TRENCH BOTTOMS. WHEN INSTALLING DRAINLINES, PLEASE MAINTAIN ALL REQUIRED SETBACKS. REPAIR SYSTEM IS A VARIED LENGTH LINE PRESSUREMANI FOLD WITH 18" DEEP TRENCH BOTTOMS. WHEN CLEARING AREA FOR INITIAL SYSTEM, DO NOT DISTURB OR REMOVE ANY SOIL FROM EITHER THE INITIAL OR REPAIR AREA. A NEMA 4XCONTROL PANEL WITH TWO BREAKERS, TWO POWER SUPPLIES, ELAPSED TIME METER, AND C YCLE COUNTER IS REQUIRED. INSTALL TRENCHES ON CONTOUR AND MINIMUM 8FT ON CENTER. PLEASE CALL ENVIRONMENTAL SERVICES IF ANY QUESTIONS OR PROBLEMS ARISE. If Augs are removed call consultant to re-flag lines.

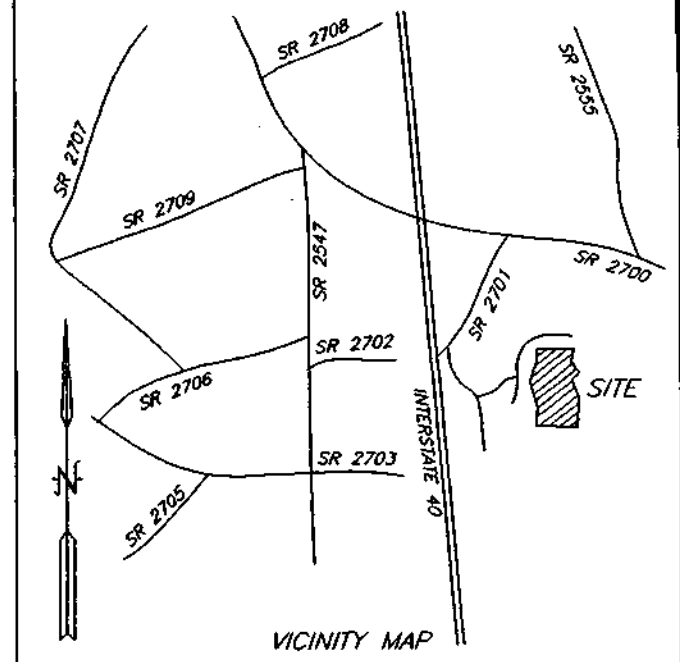
TANK SIZE: **1200** gal. PUMP TANK: **1200** gal. SQ FT: **1630** STONE DEPTH: **12** in. MAX DEPTH LINE: **18** in.
MAINT: **N** OPER: **N** U/O: **P** TRENCH#: **4** LENGTH: **610** ft. WIDTH: **36** in. DESIGNER:
SUBFIELDS: DESIGN HEAD PRESSURE: DESIGN FLOW: gal/min DOSE VOLUME: **249** gal.

CA ISSUED? **Y** DATE: **06/10/2007** BY: (ELC) *Everett L. Loster* PHONE#: **856-5380**

NOTE: THIS PROPERTY IS SUBJECT TO ANY AND ALL EASEMENTS, RIGHT-OF-WAYS OR AGREEMENTS OF RECORD.

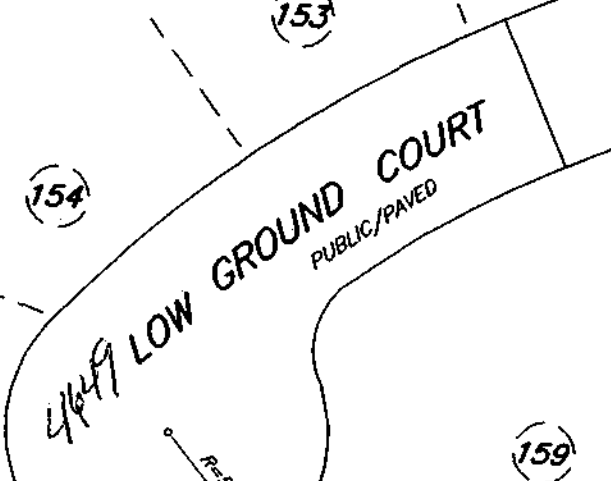
NOTE: THERE WERE NO EXISTING N. C. GRID MONUMENTS FOUND WITHIN 2000' OF THIS PROPERTY.

Zoning R-30 By GM
Approve [Signature] Date 7-27-07
Revisor [Signature] Use [Signature]
Reject [Signature] MBL [Signature]
Side 30' Rear 30'
Comments: 153



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 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]
Signature of Owner or Authorized Agent



SURVEYORS DECLARATION TO WHOM IT MAY CONCERN:
This plat is a correct representation of the land platted, but a North Carolina Licensed Attorney-At-Law should be consulted concerning correct ownership, width and location of easements; any cemeteries or family burying grounds not shown on recorded maps or deeds made available to the surveyor by the present owners at time of this survey and other title questions revealed by title examination. It is the responsibility of the present owner or future owner, of the property shown hereon, to check for any wetlands, high water table or other water conditions which may cause a portion of this property to be unusable for certain uses. No responsibility of any nature is assumed by the surveyor for any conditions which may presently exist but are unknown such as: Cemeteries, Family Burying Grounds, Toxic or Hazardous Waste Materials, ETC.

- * NOTE: Before acquiring a building permit for this lot the builder may need to obtain a Flood Hazard Area Use Permit from Wake County Environmental Services. The builder's Engineer, Architect and/or Surveyor (as appropriate) must certify that all Flood Hazard requirements are met.
- * NOTE: There shall be no filling or the erection of permanent structures in the areas of Wake County Flood Hazard Soils or Federal Emergency Management Agency (FEMA) 100 year Flood Zones until a Flood Study is approved by Wake County and/or FEMA.

RESTRICTIVE COVENANTS RECORDED IN DEED BOOK 9864, PAGE 2004.

CURVE		DATA			
CURVE NO.	Δ	RADIUS	ARC	CHORD BEARING	CHORD DISTANCE
C-112	39°-15'-23"	50.00'	34.26'	N15°-32'-27"E	33.59'

FLOOD HAZARD SOILS AS DELINEATED BY NEAL C. FLOYD, SOIL SCIENTIST - MARCH, 2002

PROPOSED IMPERVIOUS SURFACE	
TOTAL LOT AREA =	46,957 S.F.
MOBILE HOME/HOUSE =	2,128 S.F.
DRIVEWAY/SIDEWALK =	1,000 S.F.
TOTAL IMPERVIOUS AREA =	3,128 S.F.
	6.7%

SURVEY OF LOT 157 - SECTION FIVE HILLINGTON WEST S/D BOOK OF MAPS 2003 PAGES 103-105 4649 LOW GROUND COURT GARNER, NC 27529

"THIS MAP IS NOT FOR RECORDING"

- LEGEND**
- LINES SURVEYED
 - - - - LINES NOT SURVEYED
 - EIP ——— EXISTING IRON PIPE FOUND
 - NIP ——— NEW IRON PIPE SET
 - CC ——— CONTROL CORNER
 - EIS ——— EXISTING IRON STAKE FOUND
 - NIS ——— NEW IRON STAKE SET
 - ECM ——— EXISTING CONCRETE MONUMENT FOUND
 - CM ——— CONCRETE MONUMENT SET
 - EX. PKN ——— EXISTING P.K. NAIL FOUND
 - PKN ——— P.K. NAIL SET
 - EX. RRS ——— EXISTING RAILROAD SPIKE FOUND
 - RRS ——— RAILROAD SPIKE SET
 - R/W ——— RIGHT-OF-WAY
 - DB ——— DEED BOOK
 - ELS ——— EXISTING LIGHTWOOD STAKE FOUND
 - MBSL ——— MINIMUM BUILDING SETBACK LINE
 - EX. AL ——— EXISTING ALUMINUM MONUMENT FOUND
 - PP ——— POWER POLE
 - OHEL ——— OVERHEAD ELECTRIC LINE

I, LINWOOD E. BYRD DO HEREBY CERTIFY THAT THIS IS A CORRECT MAP OF THE PROPERTY STATED HEREON. THE BUILDINGS SHOWN ARE WITHIN THE TITLE LINES AND THERE ARE NO ENCROACHMENTS UNLESS OTHERWISE SHOWN.

[Signature] PLS
LICENSE NUMBER L-1354

GREENFIELD HOUSING CENTER

TOWNSHIP ST. MARY'S	COUNTY WAKE	CITY OR TOWN
SURVEYED BY GHM	ZONE R-30	
DRAWN BY CCT	FIELD BOOK SEE FILE	
CHECKED BY LEB	PIN	

60' 30' 0 60' SCALE: 1" = 60'

BYRD SURVEYING, P.A. LAND SURVEYING
112 E. JOHNSTON STREET
SMITHFIELD, N.C. 27577
PHONE: 919-989-9300
FAX: 919-989-9301

DATE 07-16-2004 DRAWING NO. 03-085

GREENFIELD HOUSING CENTER

TOWNSHIP _____ COUNTY _____ CITY OR TOWN _____

157 1.078ac "THIS MAP IS NOT FOR RECORDING"

ES SURVEYED
ES NOT SURVEYED
SING IRON PIPE FOUND
N IRON PIPE SET
N IRON CORNER
SING IRON STAKE FOUND
SING IRON STAKE SET
W IRON STAKE SET
ISTING CONCRETE MONUMENT FOUND
WCRETE MONUMENT SET
ISTING P.R. NAIL FOUND
K NAIL SET
ISTING RAILROAD SPIKE FOUND
ROAD SPIKE SET
CHIT-OF-WAY
ED BOOK
ISTING LIGHTWOOD STAKE FOUND
MINIMUM BUILDING SETBACK LINE
ISTING ALUMINUM MONUMENT FOUND

SURVEY OF
LOT 157 - SECTION F
HILLINGTON WEST S/A
BOOK OF MAPS 2003
PAGES 103-105
4649 LOW GROUND COURT
GARNER, NC 27529

PROPOSED IMPERVIOUS SUR
TOTAL LOT AREA = 46.92
MOBILE HOME/HOUSE = 2.12
DRIVEWAY/SIDEWALK = 1.06
TOTAL IMPERVIOUS AREA = 3.12

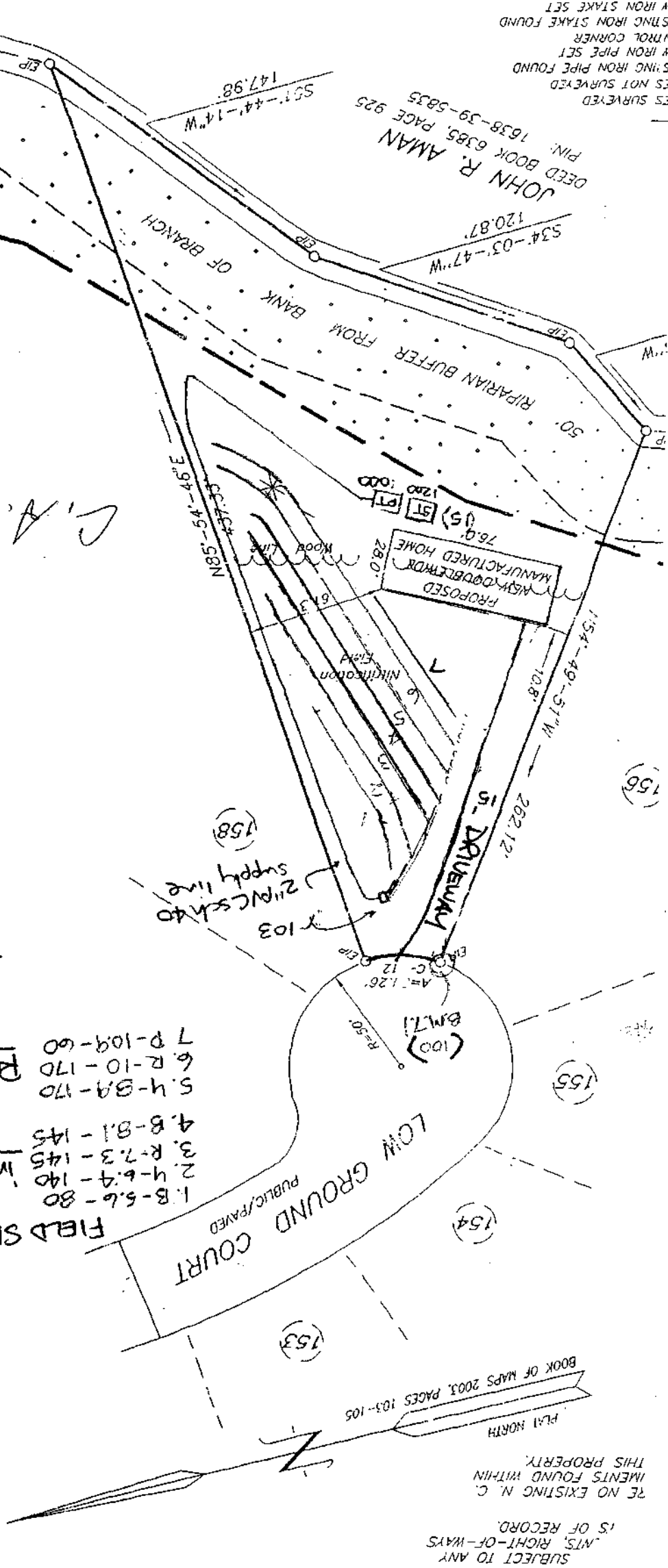
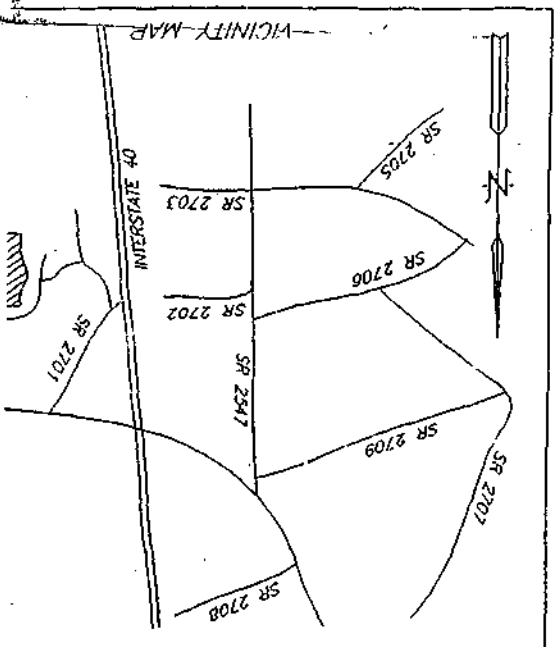
C.A. 12+13
460gpd
0.3gpd/ft²

- refer to CA site plan - c
- fence & protect w/ field
- adhere to all regulatory setbacks
- protect w/ components from run-off & surface H₂O
- 4649 low ground court

Reserve

FIELD SHOTS

1. B-5.6-80
2. R-6.4-140
3. R-7.3-145
4. B-B.1-145
5. H-B.4-170
6. R-10-170
7. P-10.9-60



SUBJECT TO ANY
N.T.S. RIGHT-OF-WAYS
IS OF RECORD.
RE NO EXISTING N.C.
INMENTS FOUND WITHIN
THIS PROPERTY.

PLAN NORTH
BOOK OF MAPS 2003, PAGES 103-105

Neal C. Floyd & Associates, Inc.

For: David Bannister
Greenfield Housing Center
2117 US 70
Garner NC 27529

772-2220

Designed by - Neal C. Floyd
7908 Audubon Dr.
Raleigh NC 27615
422-6745 FAX-676-8395

4696 Low Ground Court

480 gpd
0.3 gpd/ft²

File Copy

☐ 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 5-11-07 By Erin L. Lester

Pressure Manifold Design Criteria

David Bannister

Applicant: Greenfield Housing Center Phone #: 772-2220

Mailing Address: 2117 US 70 Garner NC 27529

IN: _____ D#: _____ S/D: Hillington Lot#: 157

Site Address: 4649 Low Ground Ct. Garner, N.C 27529

BDR: 4 Daily Flow: 480 Square Ft: _____ Linear Feet: _____

LTAR: 0.3 gpd/sqft LTAR w/ innov: 0.4 gpd/sqft

Septic Tank (gal): 1200 Pump Tank (gal): 1200

Length of Trenches (ft): see tap chart Trench Depth (in): 20" 18" Stone Depth (in): NA (innovative)

Supply Line Length (ft): 350 Diameter: 2" sch 40 pvc

Manifold Length (in): 42" Diameter: 4 sch 80 pvc Elevation: 103

Taps: 4 Tap Configuration: 6" spacing, 1 side(s) of manifold

Imp Tank Elevation: 92.1 Pump Elevation (ft): 86.1

Complex Control Panel (SJE Rhombus 112 or equal) with elapsed time meter, cycle counter, alarm, and pump on separate circuits is required. Floats to be determined by type of pump tank used. A septic filter (Polylok PL-122 equal) is required. Possible pumps include:

Automatic: SP50H or equivalent Zoeller: _____

Friction Head (ft): 10.5 (supply line length + 20% fittings loss: (2.5'/100' of 2" PVC sch 40
 Static Head (ft): 16.9 Design Head (ft): 2 Total Head (ft): 29.4

Dose Volume (gal): 248 with Pipe Volume at % 75

Pump to Deliver: 36 gpm @ 30 ft head

se PRT(min): 6.9 Daily PRT(min): 13.4

Shutdown: 248 gallons divided by 21 gal/inch = 11.8 inches

Tap Chart

	Color	Relative Elevation	Drainline Length(ft)	Tap Size/Schedule	flow (gpm) per tap	gpd	Trench Area	LTAR gpd/sqft
1	B	102	80	1/2 sch 80	5.5	73.7	240	0.31
2	Y	101.2	140	3/4 sch 80	10.1	135.4	435	0.31
3	R	100.3	145		10.1	135.4	435	0.31
4	B	99.5	145		10.1	135.4	435	0.31
		Total	510		35.8			
5	Y	98.7	170	1" sch 80	16.8	206	510	0.4
6	P	97.6	170	1" sch 80	16.8	206	510	0.4
7	P	96.7	60	1/2 sch 80	5.5	67.1	180	0.373
					39.1			

initial (gravel)

Reserve (EZFlow)