

Environmental Services - Water Quality
Onsite Wastewater Scan Data Entry Form

PERMIT #: **D 0 5 5 6 8 4**

PIN #: **1 6 0 7 1 2 3 5 4 5**

OP DATE: **0 3 / 2 9 / 2 0 1 7**

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.)

0 1 2 3 0

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#: **D055684** STATUS: **A** APP. DATE: **08/08/2016** BLDG. PERMIT#: **0170384**
PIN: **1607 12 3545 000** TAX MAP: **0** RECORDED: **Y** ORIG. PERMIT#:
TOWNSHIP: **15 PANTHER BRANCH** JURISDICTION: **WC** ZONING: **R30** SW DEVICE: **N S#:**
APPLICANT: **SAVVY HOMES** (919) 781 - 8104
8025 CREEDMOOR RD STE 100 RALEIGH, NC 27613
USE: **HD USE: 101A CONVENTIONAL ONE-FAMILY HOUSE** EXIST USE:
LTAR: **0.30 0.30** BEDROOMS: **4** BASEMENT: **N** #EMPLOYEES: **0**
SITE: ADDRESS: **416 SEABRING LN**
SUBDIVISION: **BLALOCKS GLEN** LOT: **57** ACRES: **0.61** EASEMENT: **N** LOC: **SYS:**
DIRECTION: **OLD STAGE R WALNUT COVE R WILLOW WINDS S/D ON L**

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**

Operation Permit 96%

DESIGN FLOW: **42.89** gal./min. ACTUAL FLOW: 41.02 DOSE VOLUME: **200** gal. INNOVATIVE LETTER:
INSTALLED BY: AWCACK INSTALLATION APPROVED BY: Jeff Perkins
PROPRIETARY SYSTEM: TYPE SYSTEM: **III B**

COMMENTS:

OPERATIONS PERMIT ISSUED? yes OP DATE: 3-29-17 BY: Jeff Perkins

Systems defined as either a Type IIIb, IIIg with a pump, IV, V or VI, in accordance with the North Carolina Administrative Code 15A NCAC 18A .1961, Table V as adopted by reference in the "Regulations Governing Wastewater Treatment and Dispersal Systems in Wake County", require Wake County Environmental Services to conduct periodic inspections on this type system, pursuant to 15A NCAC 18A .1961 (j). Fees for these inspections will be charged as per the approved Fee Schedule. In addition, all systems are to be operated and maintained as specified in 15A NCAC 18A .1961. 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: 710'
ST: 1230 gals ID#: 364 D.O.M.: 11-9-17 Elev.: 73 1/2 Distance to Well: NA
PT: 1250 gals ID#: 381 D.O.M.: 12-4-16 Elev.: 7.3 Distance to P/L: 10'
GT: gals ID#: D.O.M.: Elev.: Pretreatment: NA
D-box/FD/PM elev.: 1.1 1/2 Supply Line: 107 ft. Pump/Ctrl Panel: ✓ Filter: Poly lock
Line 1: 5.1 Date: Line 6: Date:
Line 2: 5.5 1/2 Date: Line 7: Date:
Line 3: 5.0 1/2 Date: Line 8: Date:
Line 4: 4.7 Date: Line 9: Date:
Line 5: 4.1 Date: Line 10: Date:
ETM1: .16 CC1: 108 ETM2: CC2: OR: AC: WM:
Notes:

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UNTIL AN AUTHORIZATION FOR WASTEWATER SYSTEM CONSTRUCTION HAS BEEN ISSUED

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PERMIT#: **D055684** STATUS: **A** APP. DATE: **08/08/2016** BLDG. PERMIT#: **0170384**
PIN: **1607 12 3545 000** TAX MAP: **0** RECORDED: **Y** ORIG. PERMIT#:
TOWNSHIP: **15 PANTHER BRANCH** JURISDICTION: **WC** ZONING: **R30** SW DEVICE: **N S#:**
APPLICANT: **SAVVY HOMES** (919) 781 - 8104
8025 CREEDMOOR RD STE 100 RALEIGH, NC 27613
HD USE: **101A CONVENTIONAL ONE-FAMILY HOUSE** EXIST USE: DESIGN FEE REQ?: **PAID?:**
LTAR: **0.30 0.30** BEDROOMS: **4** BASEMENT: **N** #EMPLOYEES: **0** FOUNDATION DRAIN: **Y**
SITE: ADDRESS: **416 SEABRING LN**
SUBDIVISION: **BLALOCKS GLEN** LOT: **57** ACRES: **0.61** EASEMENT: **N** LOC: **SYS:**
DIRECTION: **OLD STAGE R WALNUT COVE R WILLOW WINDS S/D ON L**

IMPROVEMENT PERMIT

[] As per GS 130A-335 (f), Improvement Permit is based on a Site Plan and is void Sixty (60) months from date of issuance.

[X] As per GS 130A-335 (f), Improvement Permit is based on a Plat and is valid without expiration.

Permit is subject to revocation if the site plan or plat, whichever is applicable, or the intended use changes.

TANK SIZE: **1200** gal. PUMP Tank: **1200** gal. GREASE TRAP: gal. SQ FT: **1230** ACCEPTED STATUS MAX DEPTH LINE: **24** in.
WASTEWATER: **INDIVIDUAL** SEWAGE: **DOMESTIC** TYPE SYSTEM: **III B** PUMP: **Y** P/M: **N**
DAILY FLOW: **480** gal/day WATER: **COMMUNITY** PRETREATMENT: **NA**

COMMENTS: **IMPROVEMENT PERMIT FOR 4 BEDROOM HOUSE; LTAR OF .3; MAX. TRENCH DEPTH OF 24"**

IP ISSUED? **Y** DATE: **09/07/2016** BY: (AYA) *Alan Alcorn* PHONE#: **(919)-868-2560**

AUTHORIZATION FOR WASTEWATER/WATER SYSTEM CONSTRUCTION
VALIDITY CONCURRENT WITH THE IMPROVEMENT PERMIT

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.

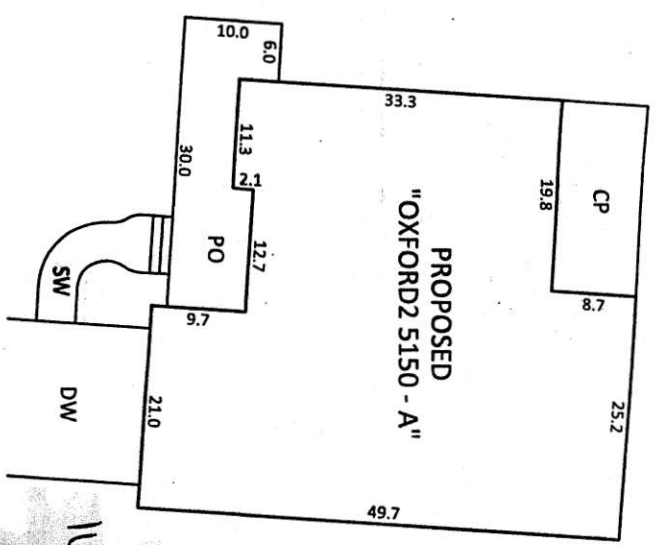
OTHER CONDITIONS: **SEE DESIGN PLAN BY CCSC FOR INSTALLATION INFORMATION. INITIAL SYSTEM IS A VARIED LINE LENGTH ACCEPTED STATUS PRESSURE MANIFOLD WITH 24" DEEP TRENCH BOTTOMS. INSTALL ON CONTOUR AND MAINTAIN ALL SETBACKS. REPAIR SYSTEM IS A VARIED LINE LENGTH ACCEPTED STATUS PRESSURE MANIFOLD. DO NOT GRADE OR REMOVE SOIL IN INITIAL OR REPAIR AREAS. A NEMA 4X CONTROL PANEL WITH TWO BREAKERS, TWO POWER SUPPLIES, ELAPSED TIME METER, AND CYCLE COUNTER IS REQUIRED. IF FLAGS ARE MISSING, CALL DESIGNER TO RE-FLAG PRIOR TO INSTALLATION; CALL WITH QUESTIONS PRIOR TO INSTALLATION**

TANK SIZE: **1200** gal. PUMP TANK: **1200** gal. GREASE TRAP: gal. SQ FT: **1230** ACCEPTED STATUS MAX DEPTH LINE: **24** in.
MAINT: **N** OPER: **N** L/O: **P** TRENCH#: **5** LENGTH: **410** ft. WIDTH: **36** in. DESIGNER: **CCSC**
SUBFIELDS: **1** DESIGN HEAD PRESSURE: **2** DESIGN FLOW: **42.89** gal/min DOSE VOLUME: **200** gal. PRETREATMENT: **NA**

CA ISSUED? **Y** DATE: **09/21/2016** BY: (AYA) *Alan Alcorn* PHONE#: **(919)-868-2560**

CA part A
- see CA part B for septic design
THOMAS ERIC BLALOCK
BM 2004, PG 630

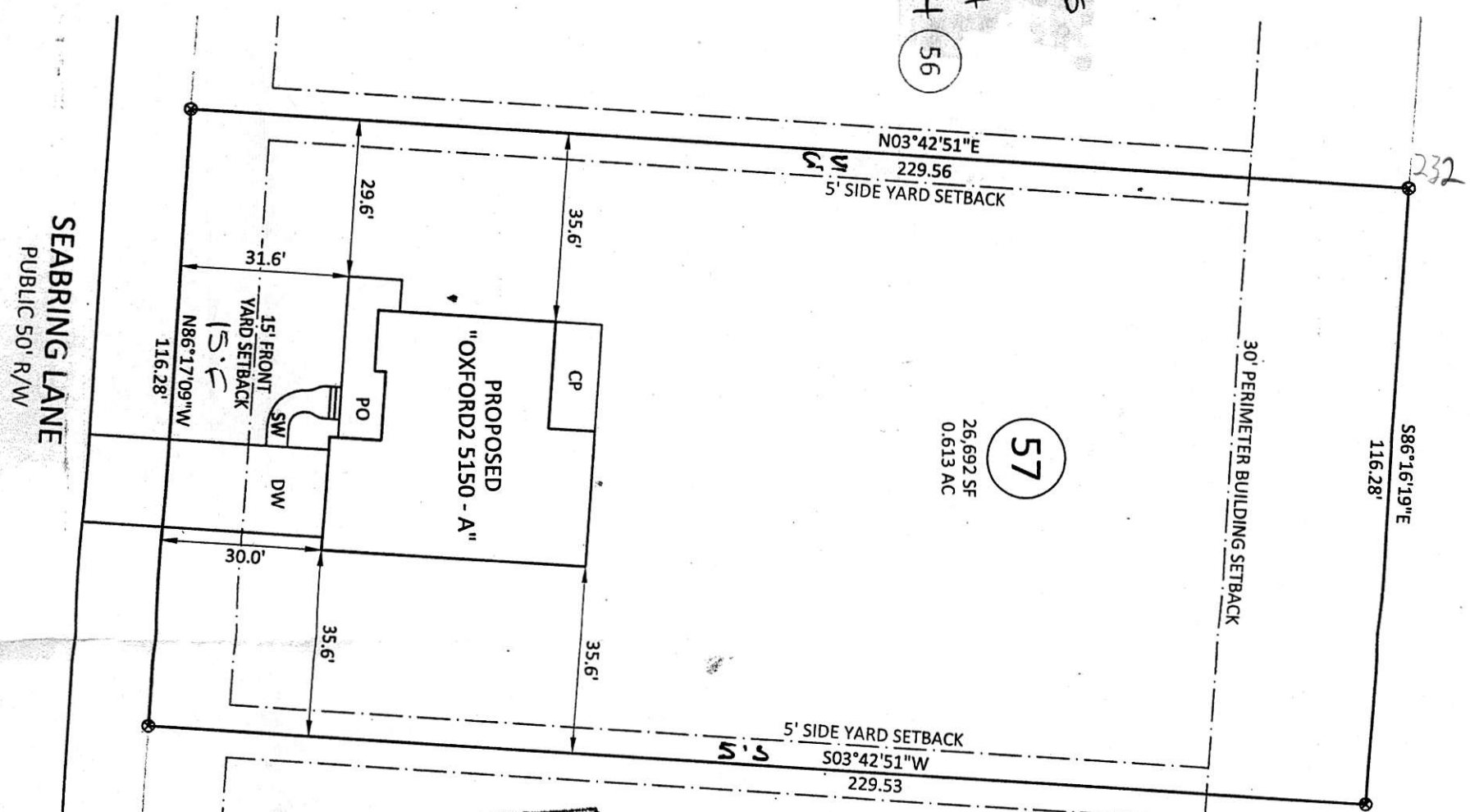
LOT INFORMATION:
PIN: 1607123545
TOTAL LOT AREA = 0.613 AC = 26,692 SF
MAXIMUM IMPERVIOUS = 8,950 SF
HOUSE = 1,854 SF
DRIVEWAY = 488 SF
SIDEWALK = 81 SF
PORCH = 231 SF
CP = 174 SF
PROPOSED IMPERVIOUS = 2,828 SF
PERCENT IMPERVIOUS = 10.6 %



Pin #
1607123545
Feet #
0170384
D055684
56

NOTES:

1. THIS SURVEY WAS PREPARED BY BATEMAN CIVIL SURVEY CO., UNDER THE SUPERVISION OF STEVEN P. CARSON, PLS.
2. THIS PLAN HAS BEEN PREPARED FOR LAYOUT AND PERMITTING PURPOSES ONLY.
3. THIS IS NOT A BOUNDARY SURVEY. PROPERTY LINES SHOWN WERE TAKEN FROM EXISTING FIELD EVIDENCE, EXISTING DEEDS AND PLATS OF PUBLIC RECORD, AND INFORMATION SUPPLIED TO THE SURVEYOR BY THE CLIENT.
4. VERTICAL DATUM IS ASSUMED. THE LATITUDE, LONGITUDE AND STATE PLANE COORDINATES, IF SHOWN, ARE GIVEN IN NORTH AMERICAN DATUM OF 1983 (NAD83).
5. FIELD EQUIPMENT USED: NIKON TOTAL STATION, EPOCH 35.
6. ALL DISTANCES ARE HORIZONTAL GROUND DISTANCES AND ALL BEARINGS ARE NORTH CAROLINA STATE PLANE COORDINATE SYSTEM UNLESS OTHERWISE SHOWN.
7. THIS MAP IS NOT A CERTIFIED SURVEY AND HAS NOT BEEN REVIEWED BY A LOCAL GOVERNMENT AGENCY FOR COMPLIANCE WITH ANY APPLICABLE LAND DEVELOPMENT REGULATIONS.
8. THE PROPERTY LIES IN ZONE "X" PER NATIONAL FLOOD INSURANCE PROGRAM FLOOD INSURANCE RATE MAP NUMBER 3720160700, DATED MAY 2, 2006.
9. ZONING IS R-30.
10. PROPERTY OWNER: SAVVY HOMES
8025 CREEDMOOR ROAD
SUITE #100
RALEIGH, NC 27613

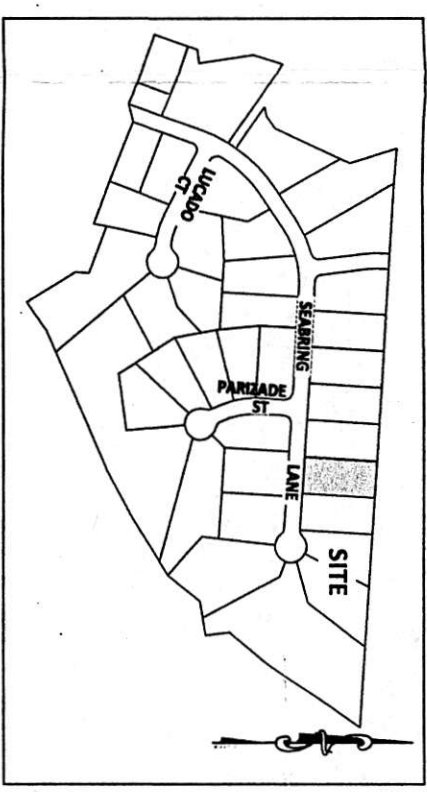


Comments:
Side 56
Front 56
Rear 15
MBL
Use 101A
Date 8-8-16
By DCS
Zoning R30
Approve
Reject
Revise
Use
MBL
Rear 15
Side 56
Corner 56

I certify that the location of planned or existing structure(s) are accurately shown. I understand failure to locate structure(s) in accordance with this plot plan may require the reiteration of structure(s) regardless of degree of omission. I hereby grant permission to the engineer to make alterations or modifications to the property to make the plan conform to the actual conditions.

Signature of Owner or Authorized Agent

BM2016PG1007-1009



Bateman Civil Survey Company
Engineers • Surveyors • Planners
2524 Reliance Ave., Apex, NC 27539 Ph: 919.577.1080 Fax: 919.577.1081
www.batemancivilsurvey.com info@batemancivilsurvey.com
NCBELS Firm No. C-2378

LEGEND
PO = PORCH
CP = COVERED PORCH
P = CONCRETE PATIO
WD = WOOD DECK
SW = SIDEWALK
DW = CONC DRIVEWAY
DG = DETACHED GARAGE
C = COMPUTED POINT
I = IRON PIPE FOUND
D = DRILL HOLE FOUND
WM = WATER METER
CO = CLEAN OUT
AC = AIR CONDITIONER
S = SEWER MANHOLE
EB = ELECTRIC BOX
CB = CABLE BOX
CI = CURB INLET
TUA = TRANSITIONAL USE AREA
L = LIGHT POLE

BUILDING SETBACKS:
FRONT = 15 ft
REAR = 15 ft
SIDE = 5 ft
Corner Side = 15 ft

APPROVAL FOR STAKING:
THIS PLOT PLAN AS PREPARED BY BATEMAN CIVIL SURVEY CO., IS CORRECT AND IS HEREBY APPROVED FOR STAKING ON THE DATE AS SHOWN BELOW.

SAVVY HOMES REPRESENTATIVE _____ **DATE** _____

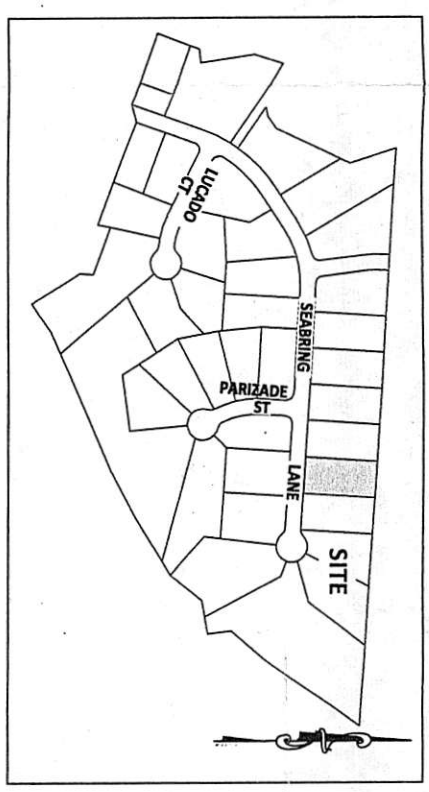
PRELIMINARY PLOT PLAN
FOR
SAVVY HOMES
RESOURCEFUL LIVING™

BLALOCK'S GLEN - PHASE THREE - LOT 57
416 SEABRING LANE, RALEIGH, NC
WAKE COUNTY

DATE: 7/25/16 **DRAWN BY:** JKF **CHECKED BY:** SPC
REFERENCE: BM 2016, PGS 1007-1009 **BC#**150405 **SCALE:** 1" = 30'

I hereby certify that this map is correct and that the building lies wholly on the lot and that there are no visible encroachments on said lot.

Steven P. Carson, PLS 4752
Date



(Not to Scale)

I hereby certify that this map is correct and that the building lies wholly on the lot and that there are no visible encroachments on said lot.

- This map is of an existing parcel of land and is only intended for the parties and purposes shown. This map not for recordation. No title report provided.

THIS PLOT PLAN AS PREPARED BY BATEMAN CIVIL SURVEY CO., IS CORRECT AND IS HEREBY APPROVED FOR STAKING ON THE DATE AS SHOWN BELOW.

PRELIMINARY PLOT PLAN

**SAVVY
HOMES**
RESOURCEFUL LIVING™

RESOURCEFUL LIVING

BLALOCK'S GLEN - PHASE THREE - LOT 57

416 SEABRING LANE, RALEIGH, NC

WAKE COUNTY

DATE: 7/25/16 DRAWN BY: JKF CHECKED BY: SPC

REFERENCE: BM 2016, PGS 1007-1009 BCS#150405 SCALE: 1" = 30'

PIN: 1607123545
TOTAL LOT AREA = 0.613 AC = 26,692 SF
MAXIMUM IMPERVIOUS = 8,950 SF
HOUSE = 1,874 SF

DRIVEWAY = 488 SF
SIDEWALK = 81 SF
PORCH = 231 SF
CP = 174 SF
PROPOSED IMPERVIOUS = 2,828 SF
PERCENT IMPERVIOUS = 10.6 %

24" Trench Depth

Zoning _____
 Approve _____
 Revise _____
 Reject _____
 From _____
 Side _____
 Comments: _____

By DW
Date 8.8.16
Use 101A
MBL
Rear 15
Corner
(58)

BM2016PG1007-1009

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 exemption. 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

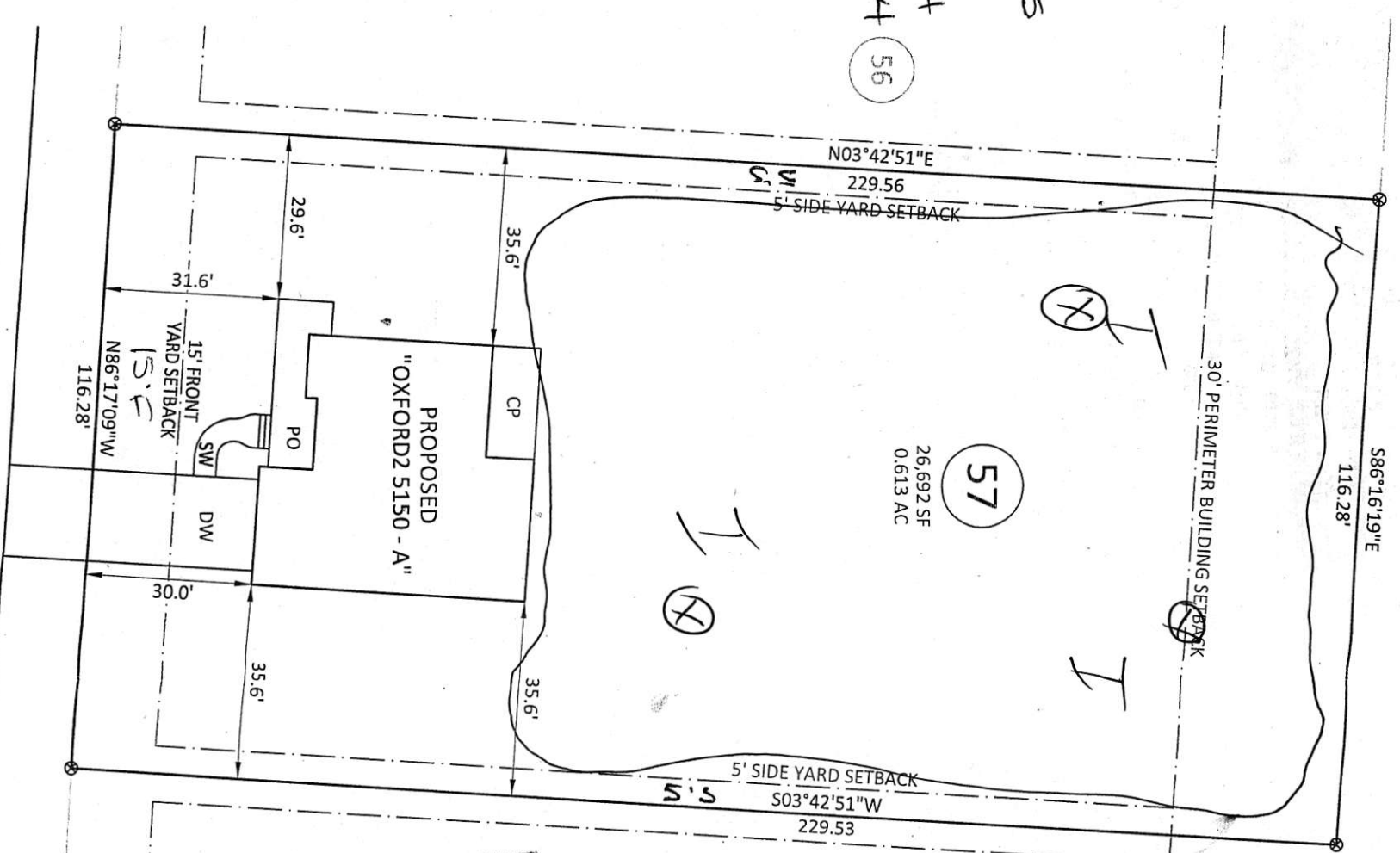
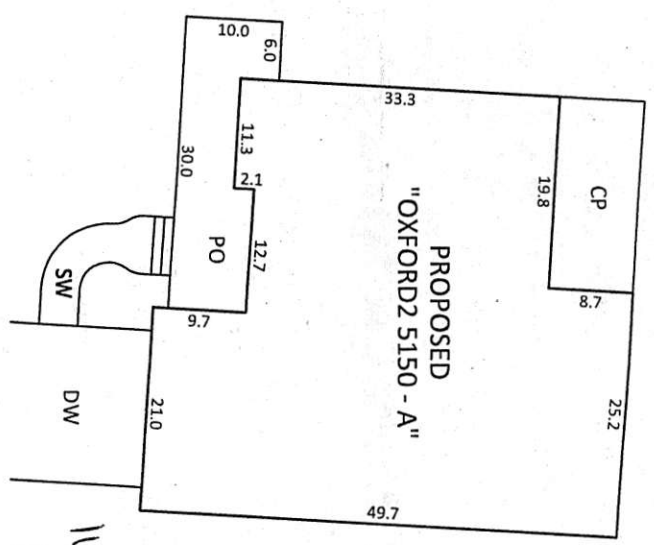
SEABRING LANE
PUBLIC 50' R/W

PUBLIC 50' R/W

INSET SCALE: 1" = 20'

1. THIS SURVEY WAS PREPARED BY BATEMAN CIVIL SURVEY CO., UNDER THE SUPERVISION OF STEVEN P. CARSON, PLS.
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8. THE PROPERTY LIES IN ZONE "X" PER NATIONAL FLOOD INSURANCE PROGRAM FLOOD INSURANCE RATE MAP NUMBER 3720160700J, DATED MAY 2, 2006.
9. ZONING IS R-30.
10. PROPERTY OWNER: SAWVY HOMES



BLALOCKS GLEN S/D Lot 57

Layout/Design Specifications

Facility Type:	Single Family Home
# of Bedrooms:	4
Daily Flow:	480 gal/day
L.T.A.R.:	0.30 gal/day/sq.ft
Trench Depth:	24 in
Trench Width:	36 in
Stone Depth:	EZ-FLOW in
Manifold Length:	48 in
Manifold Diameter:	4 in sch 80pvc
Supply Line Length:	102 ft
Supply Line Diameter:	2 in sch 40pvc
Supply Line Volume:	17.75 gallons
Friction Loss + Fitting Loss:	5.95 ft(supply line length + 70' for fittings in pump tank)
Design Head:	2 ft
Elevation Head:	8.90 ft
Total Head:	16.85 ft
Dose Volume:	200.12 gals
% of Pipe Vol.	.75
Drawdown:	9.10 in @ 22 gal/in
Pump Run Time:	4.67 Mins
Control Panel:	SJE Rhombus Model112 control panel (or approved equivalent)
Pump:	Zoeller M98 Flow-Mate (or approved equivalent)
Septic Tank Effluent Filter:	Zoeller 170-0144 residential effluent filter (or approved equivalent)
Septic Tank:	1200 gallon
Pump Tank:	1200 gallon

BLALOCKS GLEN S/D Lot 57
SYSTEM TAP CHART

Bench Mark: 2.6 = 100.00
 Pump tank elevation: 98.60

Manifold elev: 102.10
 Pump elev: 93.20

line	color	rod read	elevation	length	hole size	flow/tap	gal/day	trench area	LINE LTAR
1	RED	1.50	101.10	50	1/2in SCH 80	5.48	61.33	150	0.4089
2	PINK	1.90	100.70	70	1/2in SCH 40	7.11	79.57	210	0.3789
3	ORANGE	2.20	100.40	90	3/4in SCH 80	10.1	113.03	270	0.4186
4	PURPLE	2.70	99.90	100	3/4in SCH 80	10.1	113.03	300	0.3768
5	YELLOW	3.00	99.60	100	3/4in SCH 80	10.1	113.03	300	0.3768
	P-TANK	4.00	98.60						

total feet = 410 gal/min = 42.89 LTAR = 0.30

Des. Flow 480
 Pump Run= 11.19
 (ltar + 5%) 0.32
 (ltar W/ INOV) 0.40
 (ltar + 5%) 0.42

Comments:

BLALOCKS GLEN S/D Lot 57
REPAIR TAP CHART

Bench Mark: 2.6 = 100.00
 Pump tank elevation: 97.00

Manifold elev: 100.20
 Pump elev: 91.60

line	color	rod read	elevation	length	hole size	flow/tap	gal/day	trench area	LINE LTAR
6	BLUE	3.40	99.20	100	3/4in SCH 80	10.1	113.03	300	0.3768
7	RED	3.70	98.90	100	3/4in SCH 80	10.1	113.03	300	0.3768
8	ORANGE	4.10	98.50	95	3/4in SCH 80	10.1	113.03	285	0.3966
9	BLUE	4.30	98.30	75	1/2in SCH 40	7.11	79.57	225	0.3536
10	YELLOW	4.60	98.00	55	1/2in SCH 80	5.48	61.33	165	0.3717

P-TANK 4.00 98.60

total feet = 425 gal/min = 42.89 LTAR = 0.30

Des. Flow 480 (ltar + 5%) 0.32
Pump Run= 11.19 (ltar W/ INOV) 0.40
 (ltar + 5%) 0.42

Comments:

LINE SCHEDULE SYSTEM

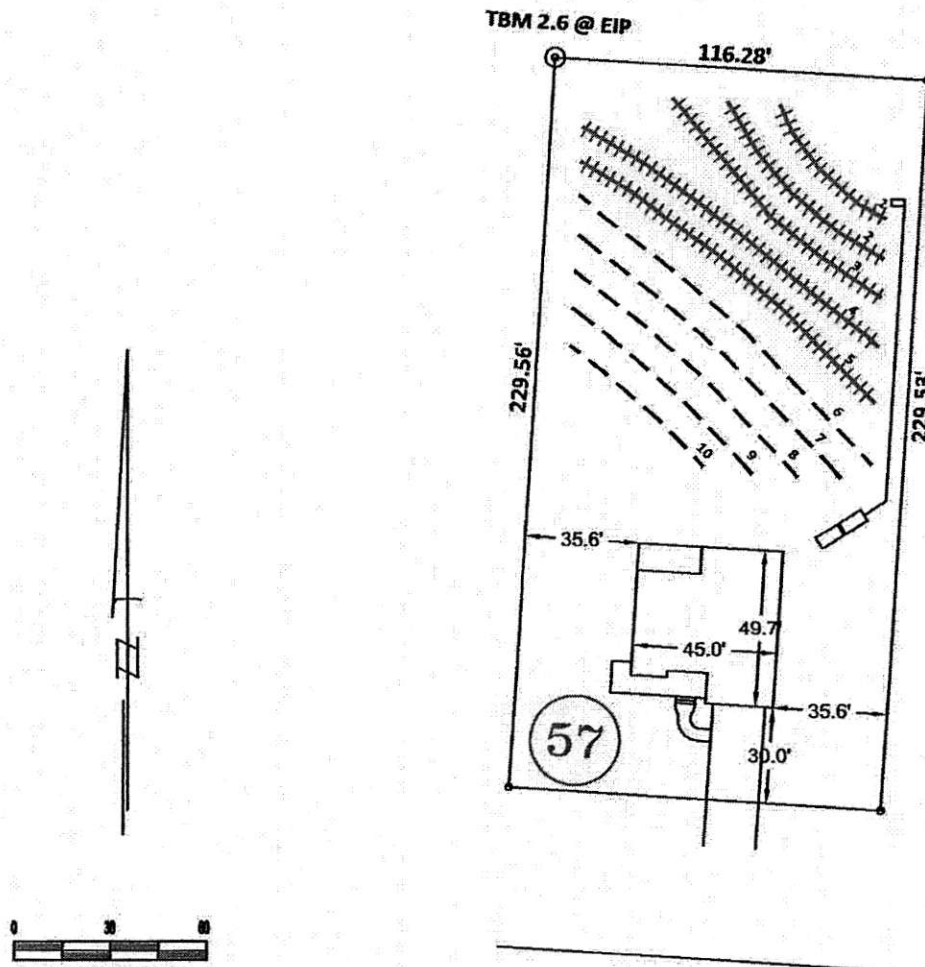
LINE NUMBER	COLOR	FIELD ELEVATION	LENGTH
1	RED	1.50	50
2	PINK	1.90	70
3	ORANGE	2.20	90
4	PURPLE	2.70	100
5	YELLOW	3.00	100
6	BLUE	3.40	100
7	RED	3.70	100
8	ORANGE	4.10	95
9	BLUE	4.30	75
10	YELLOW	4.60	55

LOT 57 BLALOCKS GLEN PH 3 S/D

4-BEDROOM PRESSURE MANIFOLD SYSTEM
LINES 1-5
EZFLOW
LTAR 0.3

4-BEDROOM PRESSURE MANIFOLD REPAIR
LINES 6-10
EZFLOW
LTAR 0.3

FOR GENERAL USE NOT A SURVEY
PRELIMINARY NOT FOR CONSTRUCTION



SCALE:
1" = 60 ft.



Central Carolina Soil Consulting, PLLC
1900 South Main Street, Suite 110
Wake Forest, North Carolina 27587
Phone (919)569-6704 Fax (919)569-6703

SEPTIC SITE PLAN
Lot 57 Blalocks Glen Subdivision
Wake County, North Carolina

Job# :
Drawn By : AH
Date : 08/5/2016
Revision: