

WAKE COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES WASTEWATER PERMIT

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

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

OPERATIONS PERMIT

PERMIT # WRP-020315-2019

APPLICATION DATE: 06/13/2019

BLDG. PERMIT#: RBPR-020282-2019

PIN: 1798307598

RECORDED: Yes

TOWNSHIP: 09 - Little River

JURISDICTION: Wake County

ZONING: R-30

APPLICANT: PSC HOMES
RICHARD KOLAROV
2133 ROLLING ROCK

BUSINESS PHONE: (919) 422-3250

HOME PHONE:

MOBILE PHONE: (919) 422-3250

HD USE: 101A CONVENTIONAL ONE-FAMILY HOUSE

EXISTING USE:

SITE ADDRESS: 4205 MARSH VIEW LN

SUBDIVISION: Hopkins Trace PH 2

LOT: 23

ACRES: 0.70

DIRECTIONS: 401 N / 96 E / TL Martin Rd. / TR Hopkins Chapel / TL Dukes Lake / TR Hopkins Trace Lane / TR Traceway / TL Marshview

Systems defined as either type III-b, III-g 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 Dispersal Systems in Wake County", requires Wake County Environmental Services to conduct periodic inspections of the system type 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 and/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/her 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.

OPERATION PERMIT VALID FOR: No Expiration

INSTALLED BY: TODD SR, GLENN A - 2770 - IV

PROPRIETARY SYSTEM: EZ1203HG - EZFlow EZ 1203H Geo **PRETREATMENT SYSTEM:**

SYSTEM TYPE INSTALLED: III B

OPERATION PERMIT: STATUS: Issued

ISSUED BY: James Adcock

ISSUED DATE: 03/05/2020

SEPTIC TANK: Erader Mills - STB-858 - 1000 gallons

DATE OF MANUFACTURE: 10/07/2019 **FILTER:** Polylok - PL-68

GREASE TRAP:

DATE OF MANUFACTURE: **FILTER:**

DOSING PUMP TANK: Erader Mills - PT-72 - 1000 gal - 19.62 gal/in

DATE OF MANUFACTURE: 10/01/2019 **FILTER:**

CC1: 999,847

ETM1: 1

CC2:

ETM2:

RECIRCULATION TANK:

DATE OF MANUFACTURE:

CC1:

ETM1:

CC2:

ETM2:

SEPTIC TANK ELEVATION: 5.91

GREASE TRAP ELEVATION:

DOSING PUMP TANK ELEVATION: 6.46

RECIRCULATION TANK ELEVATION:

DISTRIBUTION DEVICE ELEVATION: 6

INSTALLED TRENCH DEPTH	INSTALLED AGGREGATE DEPTH	INSTALLED TRENCH LENGTH	INSTALLED TRENCH BOTTOM ELEVATION
18	12	100	5
18	12	100	5.35
18	12	100	5.6

ACTUAL PRESSURE HEAD: 3

ACTUAL FLOW RATE: 25

ACTUAL DOSE VOLUME: 132

SPECIFIC OPERATION REQUIREMENTS:

System is for a 3 bedroom home at 360 gpd.

ISSUED BY:



DATE: 03/05/2020

PRELIMINARY PLOT PLAN FOR

PSC HOMES, LLC

LOT 23, HOPKINS TRACE SUBDIVISION, PH.2

4205 MARSH VIEW LANE

REF: D.B. 16842, PAGE 2216

REF: B.M. 2017, PAGES 1224-1226

LITTLE RIVER TOWNSHIP

WAKE COUNTY, NORTH CAROLINA

SEPTEMBER 1, 2017

REVISED MAY 1, 2019

REVISED MAY 9, 2019

REVISED AUGUST 15, 2019

ZONED R-30



SCALE 1"=50'

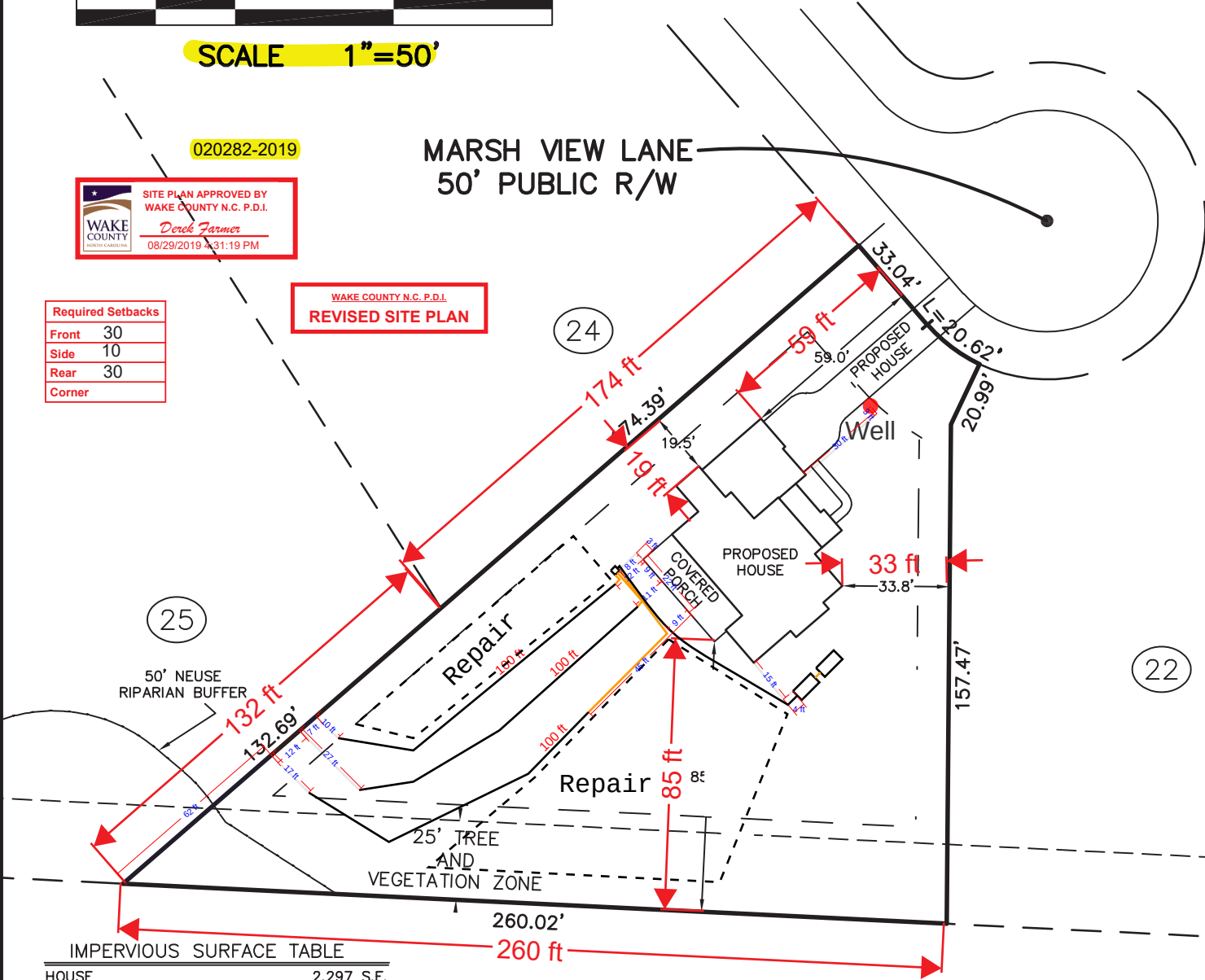
020282-2019



Required Setbacks	
Front	30
Side	10
Rear	30
Corner	

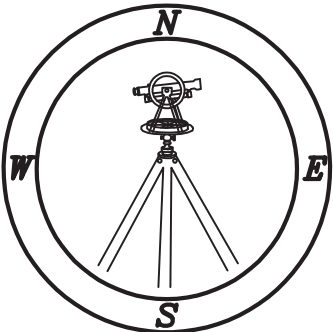
WAKE COUNTY N.C. P.D.I.
REVISED SITE PLAN

MARSH VIEW LANE
50' PUBLIC R/W



IMPERVIOUS SURFACE TABLE	
HOUSE	2,297 S.F.
COVERED PORCH	408 S.F.
DRIVEWAY	852 S.F.
SIDEWALKS	71 S.F.
MISC/UTILITIES	9 S.F.
TOTAL IMPERVIOUS AREA	3,637 S.F.
MAXIMUM IMPERVIOUS ALLOWED	3,900 S.F.

THIS SURVEYOR DOES NOT
WARRANTY THE ACCURACY
OF ARCHITECTURAL DIMENSIONS.
THEY ARE TO BE VERIFIED BY
THE CONTRACTOR.



CAWTHORNE, MOSS
& PANCIERA, P.C.

Professional Land Surveyors
C-1525

333 S. White Street
Post Office Box 1253
Wake Forest, N.C. 27588
(919)556-3148

NOTES:
-THIS PLAN DOES NOT REFLECT AN
ACTUAL SURVEY. IT IS A PRELIMINARY
PLAN AND SHOULD BE USED FOR ITS
INTENDED PURPOSE ONLY.
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OR SALES.

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AUTHORIZATION FOR WASTEWATER SYSTEM CONSTRUCTION AUTHORIZATION HAS BEEN ISSUED

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

CONSTRUCTION AUTHORIZATION PERMIT**PERMIT # WRP-020315-2019****APPLICATION DATE:** 06/13/2019**BLDG. PERMIT#:** RBPR-020282-2019**PIN:** 1798307598**RECORDED:** Yes**TOWNSHIP:** 09 - Little River**JURISDICTION:** Wake County**ZONING:** R-30**APPLICANT:** PSC HOMES

WAKE FOREST, NC 27587

BUSINESS PHONE: (919) 422-3250**HOME PHONE:****MOBILE PHONE:** (919) 422-3250**HD USE:** 101A CONVENTIONAL ONE-FAMILY HOUSE**EXISTING USE:****SITE ADDRESS:** 4205 MARSH VIEW LN**SUBDIVISION:** Hopkins Trace PH 2**LOT:** 23**ACRES:** 0.70**DIRECTIONS:** 401 N / 96 E / TL Martin Rd. / TR Hopkins Chapel / TL Dukes Lake / TR Hopkins Trace Lane / TR Traceway / TL Marshview

Contractors shall install system on contour. See attached SITE PLAN for wastewater system design and well location. No underground utilities, water lines or sprinklers systems may be located in the original system, or permit areas. A septic tank filter with two risers 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 Operations 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 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 nitrifications 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. Maximum depth of line is calculated using the downhill side of the trench and includes slope correction.

CONSTRUCTION AUTHORIZATION PERMIT VALID FOR: Five Years**CONSTRUCTION AUTHORIZATION PERMIT: CA STATUS:** Issued**BY:** James Adcock**DATE:** 09/05/2019**CA VALID FOR:** Five Years**DESIGN FLOW:** 360 GALLONS**BASEMENT:** No**BASEMENT FIXTURES:** No**SEPTIC TANK:** 1000 GALLONS**SEPTIC TANK FILTER:** Yes**DOSING PUMP TANK:** 1000 GALLONS**DOSING PUMP TANK FILTER:****GREASE TRAP:****GREASE TRAP FILTER:****RECIRCULATION PUMP TANK:****RECIRCULATION PUMP TANK FILTER:****PROPOSED SYSTEM:** 0.25 - 25% Reduction (Innovative or Accepted)**EXISTING SYSTEM:****DRAINFIELD SQ. FT:** 900**AGGREGATE DEPTH:** 12**MAX. TRENCH DEPTH:** 18 INCHES**DISTRIBUTION DEVICE:** PM - Pressure Manifold**TRENCH #:** 3**TRENCH LENGTH:** 100 FEET**TRENCH WIDTH:** 36 INCHES**TOTAL TRENCH LENGTH:** 300 FEET**CENTER SPACING:** 9 FEET**MINIMUM SOIL COVER:** 6 INCHES

PRETREATMENT:
SUBFIELDS #:
PUMP TDH: 11.15 FEET

APPROVAL #:
PUMP DESIGN FLOW: 26.13
ZONE VALVE:

ASDMS REQUIRED: No
P.E. SIGN OFF/ASBUILT REQUIRED: No

LINE OF CREDIT REQUIRED: No

OPERATOR REQUIRED: No

TRIPARTY AGREEMENT REQUIRED: No

SPECIFIC CONSTRUCTION AUTHORIZATION REQUIREMENTS:

- Repair is pump to 3B to low profile chambers.
- Repair Ltar is 0.30 and max trench depth is 8".
- No cutting/grading/altering the septic areas.
- No utilities should be installed in the septic areas.
- Maintain all setbacks.

Issued By:



Date: 09/05/2019

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PSC HOMES, LLC

LOT 23, HOPKINS TRACE SUBDIVISION, PH.2

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WAKE COUNTY, NORTH CAROLINA

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SCALE 1"=50'

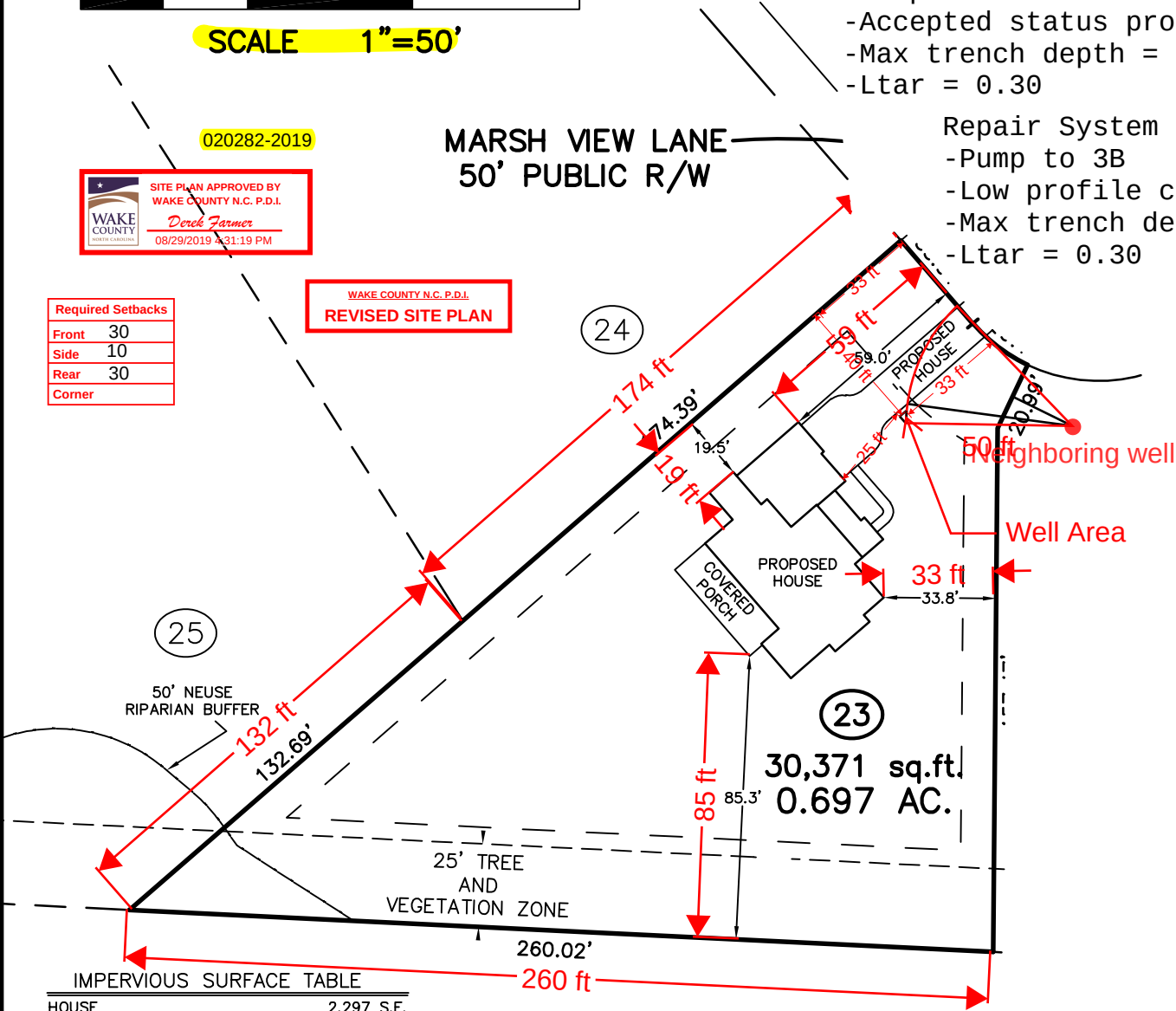
020282-2019



Required Setbacks	
Front	30
Side	10
Rear	30
Corner	

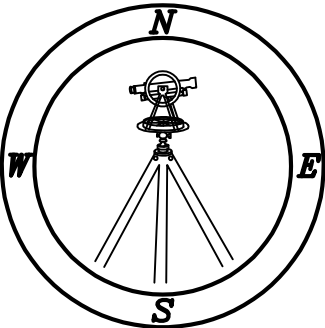
WAKE COUNTY N.C. P.D.I.
REVISED SITE PLAN

MARSH VIEW LANE
50' PUBLIC R/W



IMPERVIOUS SURFACE TABLE	
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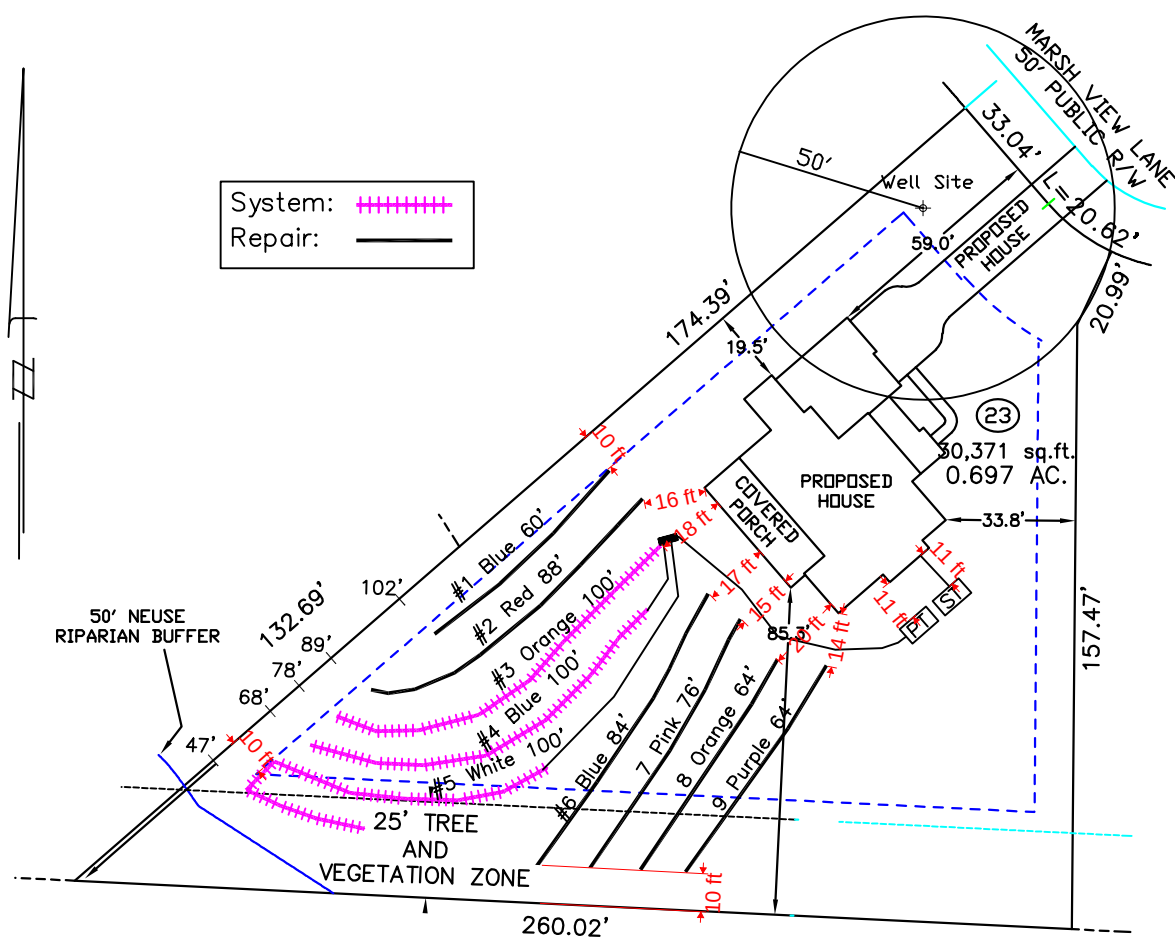


CAWTHORNE, MOSS
& PANCIERA, P.C.

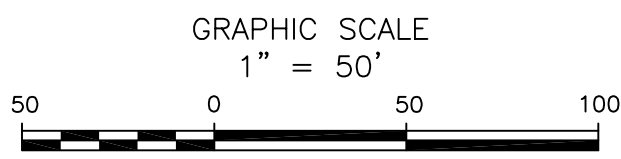
Professional Land Surveyors
C-1525

333 S. White Street
Post Office Box 1253
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- *Keep tanks and drain lines 10' from property lines.
- *Not a survey.
- *Not a guarantee of a septic permit.
- *Keep supply lines >5' from property lines.
- *Some lines are flagged longer in the field than lengths indicate.
- *No grading septic area.



System: Pressure Manatee Lines: 3-5, (300') Accepted Status System 0.3 Soil LTAR
Repair: Pressure Manifold Lines: 1-2, 6-9 (436') Low Profile Chamber 0.3 Soil LTAR 8" Trench Bottom

WRP-020315-2019

CA Part C

WAKE COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES

3 TAP PRESSURE MANI-TEE DESIGN

Name:

Richard Kolarov

P.I.N. #:

1798 30 7598

D#:

/RP-020315-2019

Address:

4205 Marsh View Drive

Subdiv:

Hopkins Trace

Lot#:

23

of BDR:

3

Daily Flow:

360

gal/day

L.T.A.R.:

0.30

gal/day/sq.ft

Septic Tank:

1000

gals

Pump Tank:

1000

gals

Sq. Foot:

900

Stone Depth:

AS

Number of Taps:

3

Length of Trenches:

300

ft(See Tap Chart for Details)

Depth of Trenches:

18

in

Manifold Length:

36

in

Manifold Diameter:

2in sch 40pvc Mani-Tee

Tap Configuration:

6 in spacing

1

side(s) of manifold

Supply Line: length:

100

ft

Diameter:

2

in sch 40pvc

Friction Loss + Fitting Loss:

2.75

ft(supply line length + 70' for fittings in pump tank)

Design Head:

3

ft

Elevation Head:

5.40

ft

Total Head:

11.15

ft

Pump to Deliver:

26.13

gals/min at

11.15

ft head

Dosing Volume:

137

gals,

Drawdown:

137

gals divided by

20

gals/in =

6.8

inches

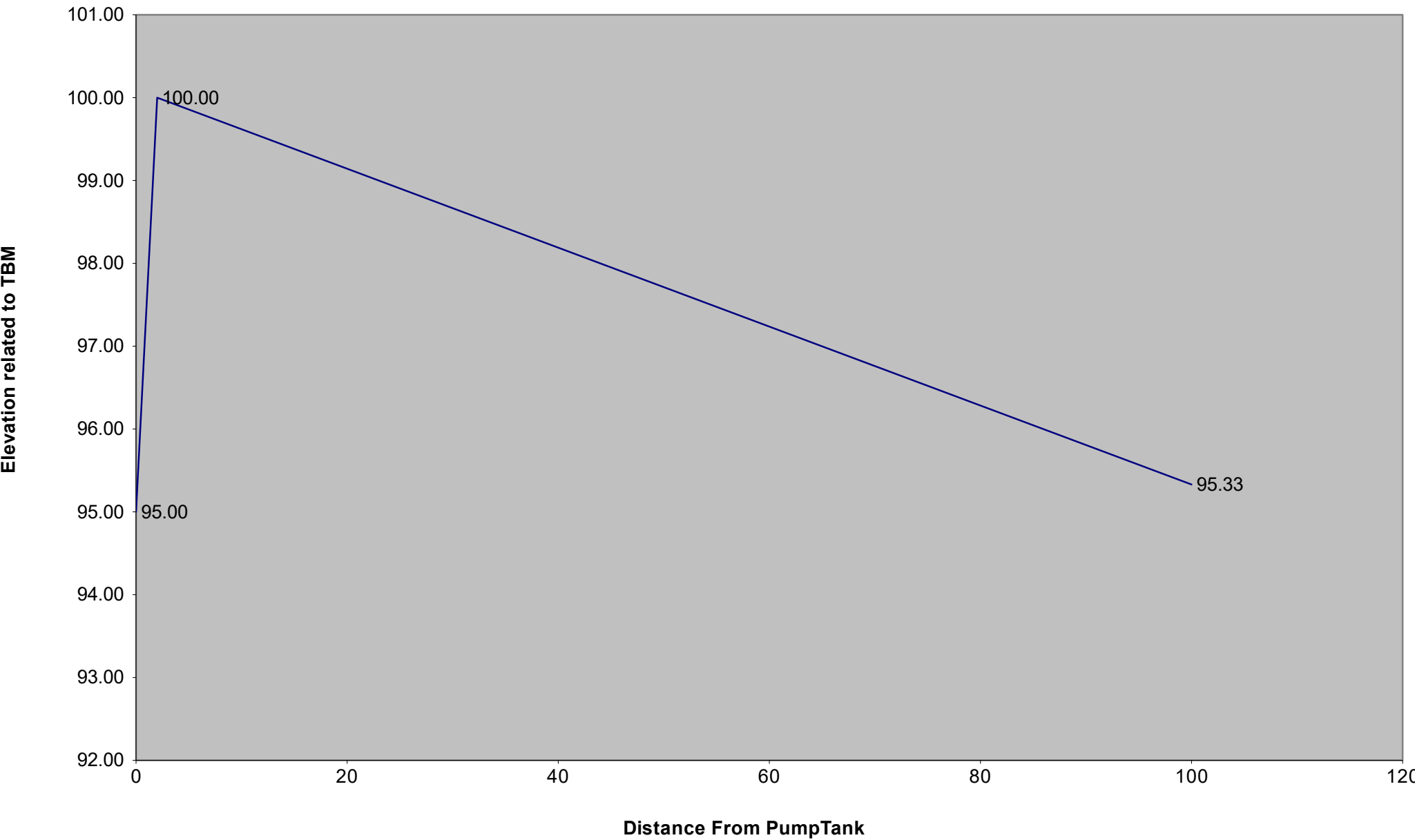
Simplex Control Panel required; elapsed time meter and cycle counter required; Floats to be determined by type of pump tank used. A septic tank filter is required, see permit details for specifics.

TAP CHART									
Bench Mark	0	is = 100.00	set at				Design Head:	3	
Pump tank elev.	0		100.00	Pump elev.	95.00		Manifold elev.	95.33	
line	color	rod read	Elevation	length	hole size	flow/tap	gal/day	trench area	LINE LTAR
1	Orange	5.7	94.33	100	1/2in SCH 40	8.71	120.00	300	0.400
2	Blue	5.9	94.08	100	1/2in SCH 40	8.71	120.00	300	0.400
3	White	6.1	93.92	100	1/2in SCH 40	8.71	120.00	300	0.400
		total	feet =	300	gal/min =	26.13		LTAR =	0.30
% of Dose Vol.		70		Des. Flow	360			(ltar + 5%)	0.32
Dose Volume		137		Pump Run=	13.78			(ltar W/ INOV)	0.40
Dose Pump Time		5.22		Tank Gal/IN	20			(ltar + 5%)	0.42
Drawdown in Inches		6.8		Elev. Head	5.40				
Supply Line Length		100							
Comments:									

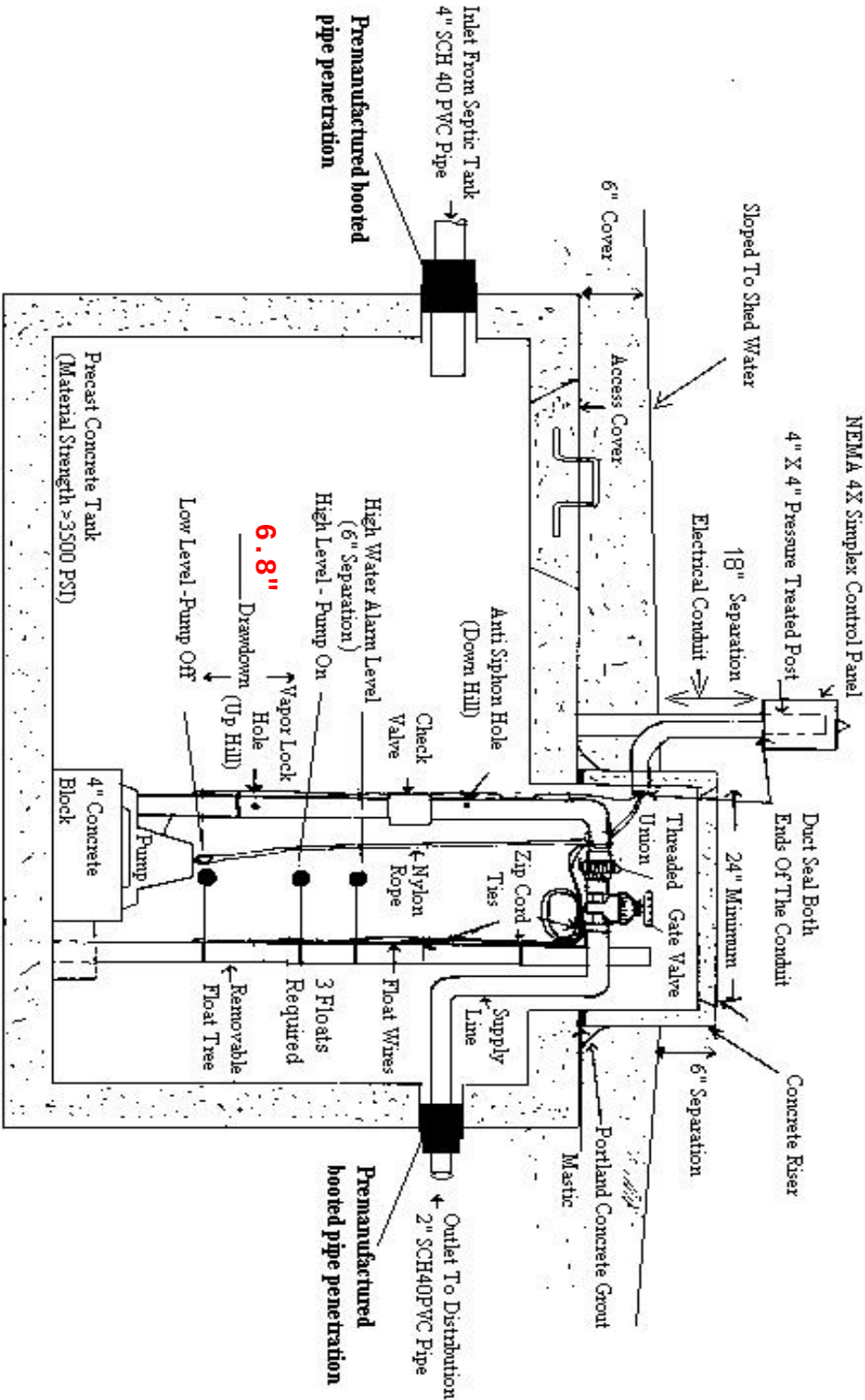
Hydraulic Profile

Manifold Elevation	95.33	100
Pump tank elev.	100.00	2
Pump elev.	95.00	0

Hydraulic Profile



Wake County Department Of Environmental Services



_____ GALLON PUMP TANK

1000 Gals Pump Tank

Minimum Panel Requirements

The following items will be considered the minimum for all pump systems:

1. It must be a NEMA 4X Box.
2. It must use a HOA (Hand, Off, Auto) switch to control the pump. No more use of piggyback plugs!
3. It must have a motor contactor to prevent high voltage electricity in the water at all times.
4. It must have an audible and visual alarm.
5. **All Pressure Manifold and LPP Systems must have an elapsed time meter and cycle counter installed in the panel.**
6. It must have 2 separate power supplies, wired from the fuse panel at the house.
7. All panels must have 2 circuit breakers installed in the panel to allow for disconnecting of power, so that the pump or switches maybe serviced.
8. Panels and pumps are to be wired at the time of our inspection. Power must be supplied by use of generators or from the house temporary meter, if the builder applied for it and has had all required inspections and the temporary meter has been set. **We will no longer inspect any system that has been hot wired from the temporary power pole or jumped through the house wiring without a meter being set.**

Pressure Manifolds

1. A float tree or hanging floats must be used.
2. A Simplex Control Panel with a Hand - Off - Auto switch and alarm in a NEMA - 4X box is required. See the plans or CA comments for further details on the panel.
3. 2 separate power supplies are needed. Try to look and make sure they have not used a 120V only panel with a 240V pump.
4. The taps and pipes for the taps must be of the same material! If it is a sch80 tap (usually gray plastic) then the tap, pipe and valve (the valve can be sch40pvc if there is an adequate amount of sch80 pipe used) must be constructed of sch80pvc. The same goes for sch40 taps, you cannot use sch80 pieces with the sch40.
5. The taps must go directly to the 3" pipe; no elbows can be used in the tap connections.
6. All of the tap must be the same size or larger. 3/4" pipe cannot have a 1/2" valve, but a 1/2" pipe could have a 3/4" valve, if at there is at least 6" total 1/2" pipe used.
7. Should the wrong size or material be used in the tap itself, the flow to the line can be corrected by using an adequate amount of the proper pipe material and size. The amount of pipe needed to control the flow is dependent on the size pipe/tap. If 1/2" pipe is needed, then at least 6" of total pipe is needed. A 3/4" size requires at least 9" of pipe to be used. A 1" size needs 12" of total pipe length to control the flow.

WAKE COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES
PRESSURE MANIFOLD DESIGN

Name: Richard Kolarov **P.I.N. #:** 1798 30 7598 **D#:** IP-020315-2019

Address: 4205 Marsh View Drive **Subdiv:** Hopkins Trace **Lot#:** 23

of BDR: 3 **Daily Flow:** 360 gal/day **L.T.A.R.:** 0.30 gal/day/sq.ft

Septic Tank: 1000 gals **Pump Tank:** 1000 gals **Sq. Foot:** 1308 **Stone Depth:** AS

Number of Taps: 6 **Length of Trenches:** 436 ft(See Tap Chart for Details)

Depth of Trenches: 8 in **Manifold Length:** 54 in

Manifold Diameter: 4in sch 80pvc **Tap Configuration:** 6 in spacing 1 side(s) of manifold

Supply Line: length: 100 ft **Diameter:** 2 in sch 40pvc

Friction Loss + Fitting Loss: 5.44 ft(supply line length + 70' for fittings in pump tank)

Design Head: 2 ft **Elevation Head:** 0.65 ft

Total Head: 8.09 ft **Pump to Deliver:** 37.77 gals/min at 8.09 ft head

Dosing Volume: 198 gals,

Drawdown: 198 gals divided by 20 gals/in = 9.9 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 required, see permit details for specifics.

TAP CHART

Bench Mark		is = 100.00	set at				Design Head:	2	
Pump tank elev.			100.00	Pump elev.	95.00		Manifold elev.	95.65	
line	color	rod read	Elevation	length	hole size	flow/tap	gal/day	trench area	LINE LTAR
1	Blue	5.4	94.65	60	1/2in SCH 80	5.48	52.23	180	0.290
2	Red	5.5	94.46	88	1/2in SCH 40	7.11	67.77	264	0.257
3	Blue	6.3	93.73	84	1/2in SCH 40	7.11	67.77	252	0.269
4	Pink	6.5	93.48	76	1/2in SCH 40	7.11	67.77	228	0.297
5	Orange	7.1	92.92	64	1/2in SCH 80	5.48	52.23	192	0.272
6	Purple	7.4	92.62	64	1/2in SCH 80	5.48	52.23	192	0.272
7			100.00				0.00	0	#DIV/0!
8			100.00				0.00	0	#DIV/0!
8			100.00				0.00	0	#DIV/0!
8			100.00				0.00	0	#DIV/0!
		total	feet =	436	gal/min =	37.77		LTAR =	0.30
% of Dose Vol.		70		Des. Flow	360			(ltar + 5%)	0.32
Dose Volume		198		Pump Run=	9.53			(ltar W/ INOV)	0.40
Dose Pump Time		5.25		Tank Gal/IN	20			(ltar + 5%)	0.42
Drawdown in Inches		9.9		Elev. Head	0.65				
Supply Line Length		100							



**Environmental
Services**

Water Quality Division

336 Fayetteville St. • P.O. Box 550 • Raleigh, NC 27602

Purpose: This forms is to be completed when making changes to a pending or active Well, Septic, or Building Permit.

WRP-020315-2019
D# _____ BUILDING PERMIT # 020202 PIN # 1798307598

Change of Bedrooms from ... 4 to 3
*Site Plan May Be Required

Change Applicant Name to _____
*Attach Owner Authorization

Change of Applicant Address to _____

Change of Applicant Phone Number to _____

Change of Building Footprint _____
* Site Plan Will Be Required

Foundation Drain ☐ Yes ☐ No
* No Site Plan Required

Change # of Employees _____
* Business, Schools, Daycares, etc.

Change of Basement: Add Basement _____ or Remove Basement _____

Comments _____

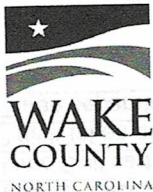
Project (Site) Address _____

Applicant Signature *Michael W. Hester* Date 8-27-12

Wake County Permit Processor _____ Date _____

☐ Sent to Plan Review Staff

Note: Any change made where a Wake County Building Permit is involved requires that this document be forwarded through the Wake County Building Permits Department. All other revision forms can be forwarded to Environmental Services representatives on the 1st floor. Be aware revision fee may be required before processing can begin.



Environmental Services

TEL 919 856 7400
FAX 919 856 7407

Water Quality Division

336 Fayetteville St. • P.O. Box 550 • Raleigh, NC 27602

Innovative Product Owner Authorization of Use Certification

D# _____ WRP-020315-2019 _____

Building Permit # 020282

Address: 4205 Marsh View Lane

PIN: 1798307598

I, PSC Homes, LLC
RICHARD KOLAROV hereby request the gravel-less innovative wastewater
Print Owner Name

nitrification trench system marked below to be used in my wastewater treatment and dispersal system for my property located at the above address and PIN number, and permitted under the above Wake County Wastewater System Permit number. If Advanced Treatment is required, the level of treatment is also marked below, and a separate innovate authorization letter will be filled out, if required, for that product.

[Signature]
Owner Signature

8-27-19
Date

Generic Name

Proprietary Name

Innovative Approval

☐ Cultec	Cultec Chamber System (Contractor EZ24, 75, 100, 125 and Field Drain Panels C1-C4)	IWWS-95-4-R2
☐ EZflow	EZflow Drainfield Systems (Models 1003T, 1003T-GEO, 1203T, and 1203T-GEO)	
☐ Flowtec	Flowtec Wastewater Trench System Bundled Expanded Polystyrene Synthetic Aggregate Units (Model FTSG123H-1)	IWWS-2012-01
☐ BioDiffuser	BioDiffuser Chamber System (ARC24)	IWWS-1997-2-R10
☐ BioDiffuser	BioDiffuser Chamber System (Models ARC36HC, Bio 3, ARC24)	IWWS-1993-2-R16
☐ Low Profile Chambers	Infiltrator and BioDiffuser Low Profile Chamber Systems (Models Quick4 Plus Standard Low Profile & ARC 36 Low Profile)	IWWS-2010-1-R3
☐ Multi-Pipe	PTI Multi-Pipe System (11-Pipe Model)	IWWS-2002-R3
☐ Tire Chips	Tire Chip Aggregate Substitution for Rock	IWWS-2002-03-R3

Treatment Level: ☐ Anaerobic
☐ NSF40
☐ TS-I
☐ TS-II

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IMPROVEMENT PERMIT

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Permit is subject to revocation if the Site Plan or Plat changes or the intended use changes.

*Maximum depth of line is calculated using the downhill side of the trench and includes slope correction.

IP VALID FOR: Five Years AS PER GS 130A-335 (f)

DESIGNED BY: CCSC

SYSTEM LAYOUT: Private Sector

SITE CLASSIFICATION: Provisionally Suitable

IP STATUS: Issued

BY: James Adcock

DATE: 09/05/2019

NUMBER OF BEDROOMS: 3

OR TOTAL NUMBER OF OCCUPANTS: 6

PERMITTED DESIGN FLOW: 360 GPD

BASEMENT: No

BASEMENT PLUMBING: No

WASTEWATER STRENGTH: Domestic

SYSTEM TYPE: III B

LTAR: 0.300

EXISTING SYSTEM UTILIZED:

PRETREATMENT STRENGTH REQUIRED:

EASEMENT FOR WW SYSTEM ASSOCIATED WITH PARCEL:

MAXIMUM TRENCH DEPTH: 18 INCHES

PUMP REQUIRED: Yes

- SPECIFIC SYSTEM REQUIREMENTS:**
- Repair is pump to 3B to low profile chambers.
 - Repair Ltar is 0.30 and max trench depth is 8".
 - No cutting/grading/altering the septic areas.
 - No utilities should be installed in the septic areas.
 - Maintain all setbacks.

ISSUED BY:

A handwritten signature in black ink, appearing to read "James L. Allen", is written over a light gray rectangular background.

DATE: 09/05/2019

