

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-058739-2021

APPLICATION DATE: 04/30/2021

BLDG. PERMIT#: RBPR-058742-2021

PIN: 0695016531

RECORDED: Yes

TOWNSHIP: 15 - Panther Branch

JURISDICTION: Wake County

ZONING: R-30

APPLICANT: Bethany Rutledge
101 Gathering Park CIR

BUSINESS PHONE: (919) 374-3473

HOME PHONE:

MOBILE PHONE:

HD USE: 101A CONVENTIONAL ONE-FAMILY HOUSE

EXISTING USE:

SITE ADDRESS: 1608 OSPREY RIDGE DR

SUBDIVISION: FISH HAWK RANCH

LOT: 2

ACRES: 0.60

DIRECTIONS: I-440 to South Saunders Street. Take exit 401 South. Take a Left on Old Stage Road. Travel approximately 10 miles to Fish Hawk Ranch. Community will be on your left.

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: OTHER

PROPRIETARY SYSTEM: IQ4 - Infiltrator Quick 4 Standard **PRETREATMENT SYSTEM:**

SYSTEM TYPE INSTALLED: III G

OPERATION PERMIT: STATUS: Issued

ISSUED BY: Kristi Marks

ISSUED DATE: 03/30/2022

SEPTIC TANK: Mitchell Concrete - STB-381 -
1250 gallons

DATE OF MANUFACTURE: 01/06/2022 **FILTER:** Other

GREASE TRAP:

DATE OF MANUFACTURE: **FILTER:**

DOSING PUMP TANK: Mitchell - PT-364 - 1230
gal - 24.5 gal/in

DATE OF MANUFACTURE: 12/28/2021 **FILTER:**

CC1: 999,819

ETM1: 34

CC2:

ETM2:

RECIRCULATION TANK:

DATE OF MANUFACTURE:

CC1:

ETM1:

CC2:

ETM2:

SEPTIC TANK ELEVATION: 5.13

GREASE TRAP ELEVATION:

DOSING PUMP TANK ELEVATION: 5.58

RECIRCULATION TANK ELEVATION:

DISTRIBUTION DEVICE ELEVATION: 5

INSTALLED TRENCH DEPTH	INSTALLED AGGREGATE DEPTH	INSTALLED TRENCH LENGTH	INSTALLED TRENCH BOTTOM ELEVATION
34	12	137	4.75
34	12	137	4.83
34	12	137	5.125

ACTUAL PRESSURE HEAD: 3

ACTUAL FLOW RATE: 25

ACTUAL DOSE VOLUME: 184

SPECIFIC OPERATION REQUIREMENTS:

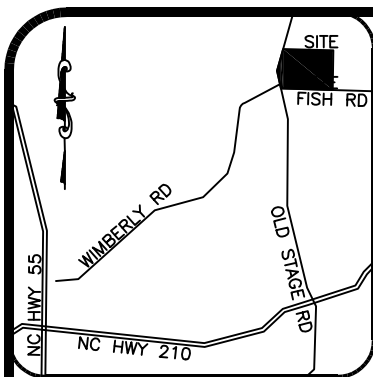
4 bedroom, 480 gal/day
community well

280 liberty pump
watercore C4C-TB filter

ISSUED BY:

Kristina Marks

DATE: 03/30/2022



VICINITY MAP (NTS)

LEGEND
 AC=AIR CONDITIONING UNIT
 BOC=BACK OF CURB
 CATV=CABLE TV
 CB=CATCH BASIN
 DW=CONC DRIVEWAY
 EB=ELECTRIC BOX
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 SW=SIDEWALK
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 TP=TELEPHONE PEDESTAL
 TF=TRANSFORMER
 WM=WATER METER
 EIP=EXISTING IRON PIPE
 IP=IRON PIPE SET
 EIR=EXISTING IRON ROD

SETBACKS_ZONE
R30
PER RECORDED
PLAT
 FRONT 15'
 SIDE 5'
 REAR 15'
 SIDE STREET 15'

IMPERVIOUS AREA
 HOUSE 2,912 SQ.FT.
 DRIVE TO R/W 1,390 SQ.FT.
 WALK 252 SQ.FT.
 TOTAL 4,554 SQ.FT.
 MAX ALLOW 6,085 SQ.FT.

THIS EXHIBIT MAP IS OF AN EXISTING PARCEL OR PARCELS OF LAND AND DOES NOT CREATE A NEW STREET OR CHANGE AN EXISTING STREET.

DB FLOYD, PLS L-3640 DATE

THIS MAP IS ONLY INTENDED FOR THE PARTIES AND PURPOSES SHOWN. THIS MAP IS NOT FOR RECORDATION. NO TITLE REPORT PROVIDED.

GENERAL NOTES:

1. ALL DISTANCES ARE HORIZONTAL GROUND DISTANCES IN U.S. SURVEY FEET UNLESS OTHERWISE NOTED.
2. AREAS SHOWN HEREON WERE COMPUTED USING THE COORDINATE METHOD.
3. LINES NOT SURVEYED ARE SHOWN AS DASHED LINES FROM INFORMATION REFERENCED ON THE FACE OF THIS SURVEY.
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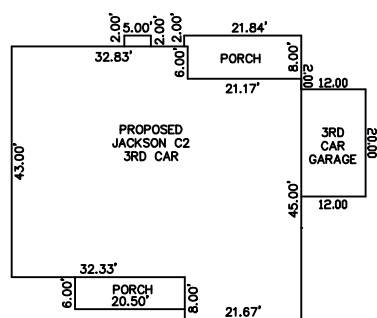
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C2	23.89	275.00	S88°01'28"W	23.88

RBPR-058742-2021

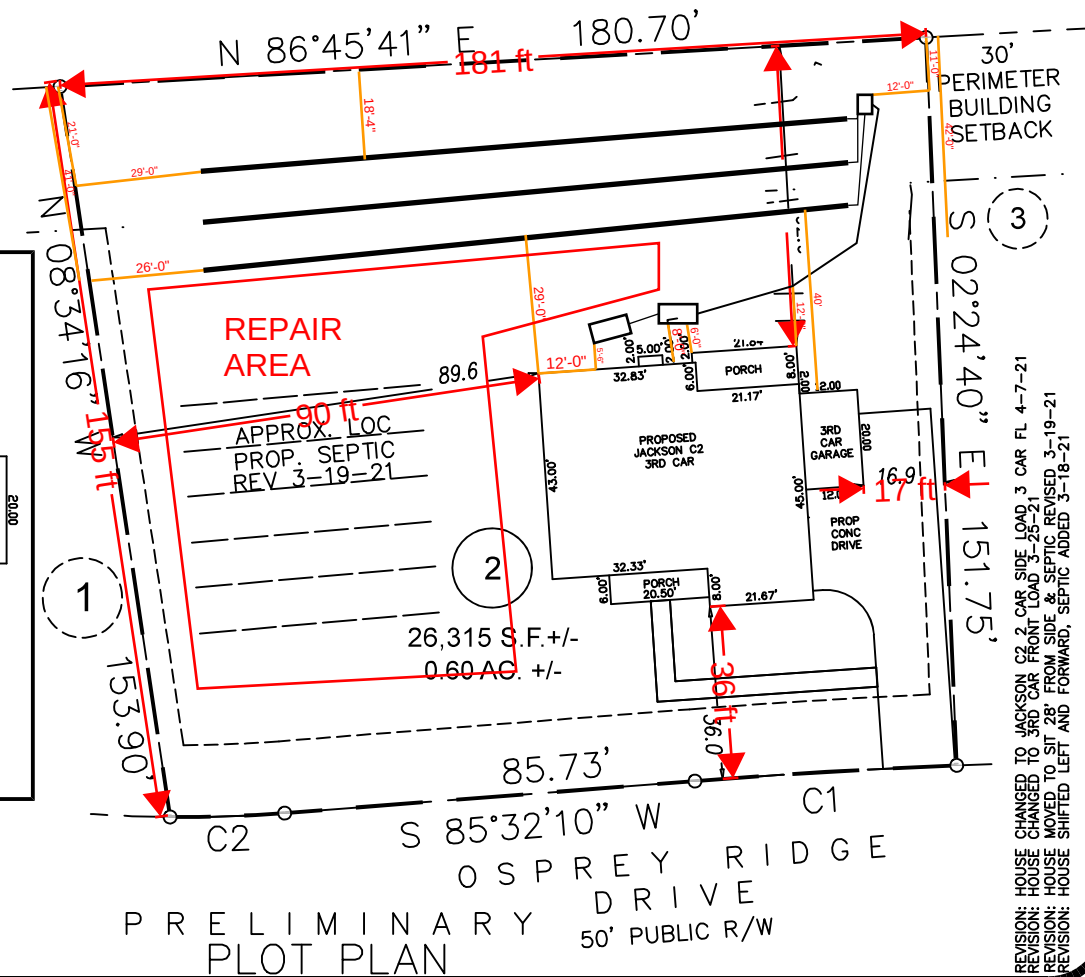
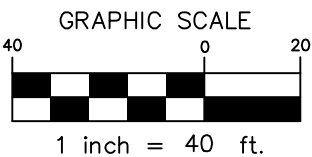


N/F
 MARCIA & MACKEY
 STEPHENSON
 D.B. 10267, PG. 751

PLAT NORTH
 BM 2019, PG. 1259-1262



(NTS)



REVISION: HOUSE CHANGED TO JACKSON C2 2 CAR SIDE LOAD 3 CAR FL 4-7-21
 REVISION: HOUSE CHANGED TO 3RD CAR FRONT LOAD 3-25-21
 REVISION: HOUSE MOVED TO SIT 28' FROM SIDE & SEPTIC REVISED 3-19-21
 REVISION: HOUSE SHIFTED LEFT AND FORWARD, SEPTIC ADDED 3-18-21

PROJECT:
 19-001 FISH HAWK RANCH
DRAWN BY:
 APS
SCALE:
 1"=40'
DATE:
 3-18-21

FOR
 H & H HOMES
 1608 OSPREY RIDGE DRIVE
 LOT 2 FISH HAWK RANCH SUBDIVISION
 PANTHER BRANCH TWP., WAKE CO., NC
 BM, 2019, PG. 1259-1262

ECLS
 GLOBAL, INC.
 U.S. VETERAN-OWNED
 19 N MCKINLEY ST
 COATS, NC 27521
 910.897.3257 ECLSGLOBALINC.COM
 910.897.2329 (FAX) CO#C-4175

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APPLICANT: H&H Constructors of Fayetteville, LLC
101 Gathering Park CIR
Cary, NC 27519

BUSINESS PHONE: (919) 500-3834**HOME PHONE:****MOBILE PHONE:** (919) 500-3834**HD USE:** 101A CONVENTIONAL ONE-FAMILY HOUSE**EXISTING USE:****SITE ADDRESS:** 1608 OSPREY RIDGE DR**SUBDIVISION:** FISH HAWK RANCH**LOT:** 2**ACRES:** 0.60

DIRECTIONS: I-440 to South Saunders Street. Take exit 401 South. Take a Left on Old Stage Road. Travel approximately 10 miles to Fish Hawk Ranch. Community will be on your left.

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:** Kristi Marks**DATE:** 05/26/2021**CA VALID FOR:** Five Years**DESIGN FLOW:** 480 GALLONS**BASEMENT:** No**BASEMENT FIXTURES:** No**SEPTIC TANK:** 1200 GALLONS**SEPTIC TANK FILTER:** Yes**DOSING PUMP TANK:** 1200 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:** 1,215**AGGREGATE DEPTH:** 12**MAX. TRENCH DEPTH:** 34 INCHES**DISTRIBUTION DEVICE:** PM - Pressure Manifold**TRENCH #:** 3**TRENCH LENGTH:** 135 FEET**TRENCH WIDTH:** 36 INCHES**TOTAL TRENCH LENGTH:** 405 FEET**CENTER SPACING:** 9 FEET**MINIMUM SOIL COVER:** 6 INCHES

PRETREATMENT:
SUBFIELDS #:
PUMP TDH: 12.99 FEET

APPROVAL #:
PUMP DESIGN FLOW: 26.13
ZONE VALVE: No

ASDMS REQUIRED:
P.E. SIGN OFF/ASBUILT REQUIRED:

LINE OF CREDIT REQUIRED:
TRIPARTY AGREEMENT REQUIRED:

OPERATOR REQUIRED:

SPECIFIC CONSTRUCTION AUTHORIZATION REQUIREMENTS:

- System designed for 4 bedroom home, having 480 gal/day.
- Site serviced by community well water.
- Future Repair is a IIIB type system. With a Max Trench depth of 34"
- Any deviation from accepted design must be approved by Wake County ES prior to system installation.
- Maintain all required setbacks.
- Please contact WCES – Kristi Marks 919-594-0035 with any questions prior or during install.

Issued By:

Kristina Marks

Date: 05/26/2021



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BOC=BACK OF CURB
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⊙ EIP=EXISTING IRON PIPE
⊙ IRON PIPE SET
⊙ EIR=EXISTING IRON ROD

SIDE S

MAX ALLOW 6,085 SQ.FT.

DATE _____

5.DRIVEWAY IMPERVIOUS CALCULATION SHOWN
HEREON CALCULATED TO THE FRONT PROPERTY
LINE/RIGHT-OF-WAY.

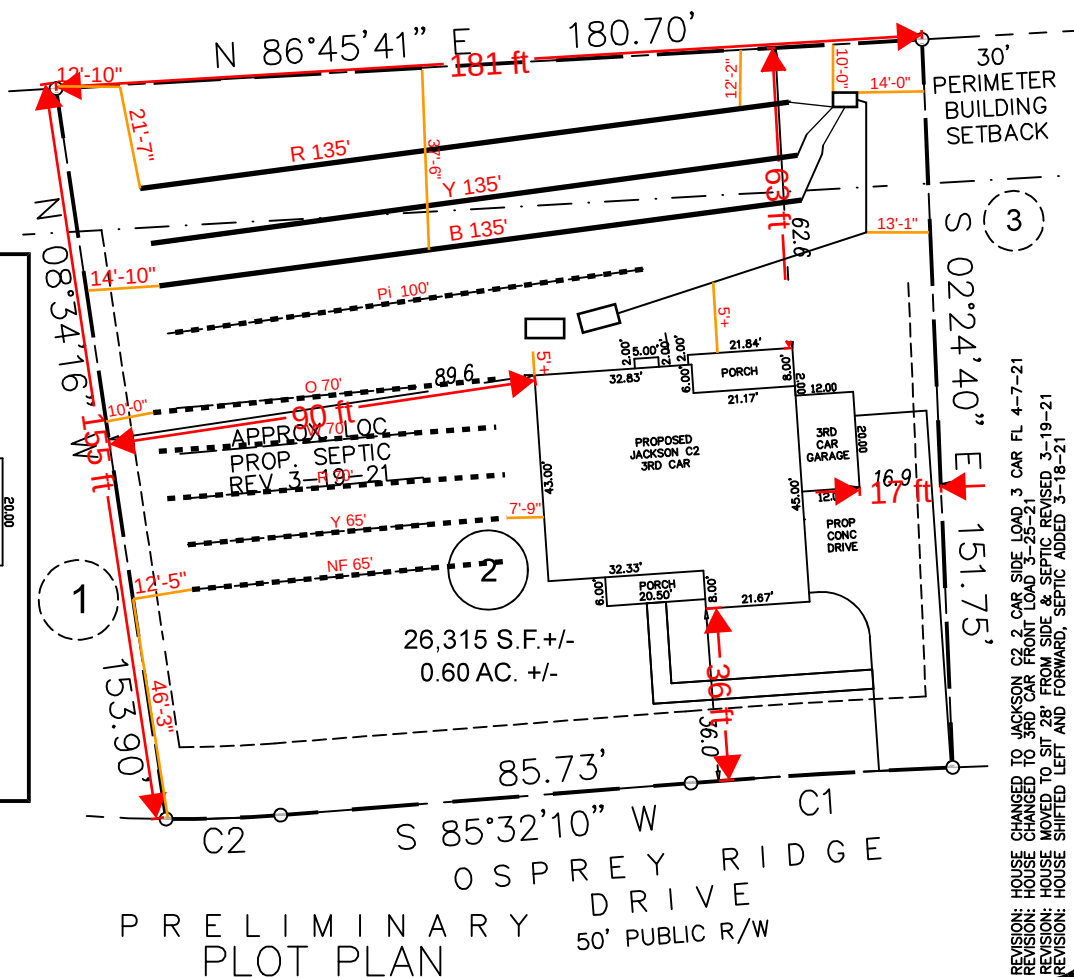
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RBPR-058742-2021

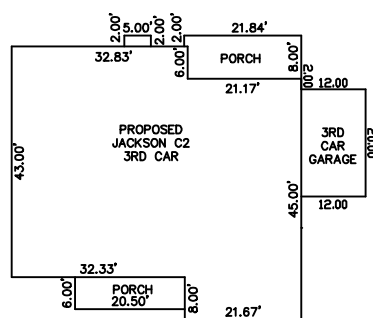


N/F
MARCIA & MACKEY
STEPHENSON
D.B. 10267, PG. 751

CA Site Plan Part A



REVISION: HOUSE CHANGED TO JACKSON C2 2 CAR SIDE LOAD 3 CAR FL 4-7-21
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REVISION: HOUSE MOVED TO SIT 28' FROM SIDE & SEPTIC REVISED 3-19-21
REVISION: HOUSE SHIFTED LEFT AND FORWARD, SEPTIC ADDED 3-18-21



(NTS)

GRAPHIC SCALE


$$1 \text{ inch} = 40 \text{ ft.}$$

DATE: 3-18-21

FOR
H & H HOMES
1608 OSPREY RIDGE DRIVE
LOT 2 FISH HAWK RANCH SUBDIVISION
PANTHER BRANCH TWP., WAKE CO., NC
BM, 2019. PG. 1259-1262



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257ECLSGLOBALINC.COM
329 (FAX) CO#C-4175

WAKE COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES 3 TAP PRESSURE MANI-TEE DESIGN

Name: H&H CONSTRUCTORS P.I.N. #: 0695016531 Permit #: WRP-058739-2021

Address: 1608 OSPREY RIDGE Subdiv: FISH HAWK Lot#: 2

of BDR: 4 Daily Flow: 480 gal/day L.T.A.R.: 0.35 gal/day/sq.ft

Septic Tank: 1200 gals Pump Tank: 1200 gals Sq. Foot: 1215 Aggregate Depth:

Number of Taps: 3 Length of Trenches: 405 ft(See Tap Chart for Details)

Depth of Trenches: 34 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: 90 ft Diameter: 2 in sch 40pvc

Friction Loss + Fitting Loss: 2.59 ft(supply line length + 70' for fittings in pump tank)

Design Head: 3 ft Elevation Head: 7.40 ft

Total Head: 12.99 ft Pump to Deliver: 26.13 gals/min at 12.99

Dosing Volume: 179 gals,

Drawdown: 179 gals divided by 20 gals/in = 9.0 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.

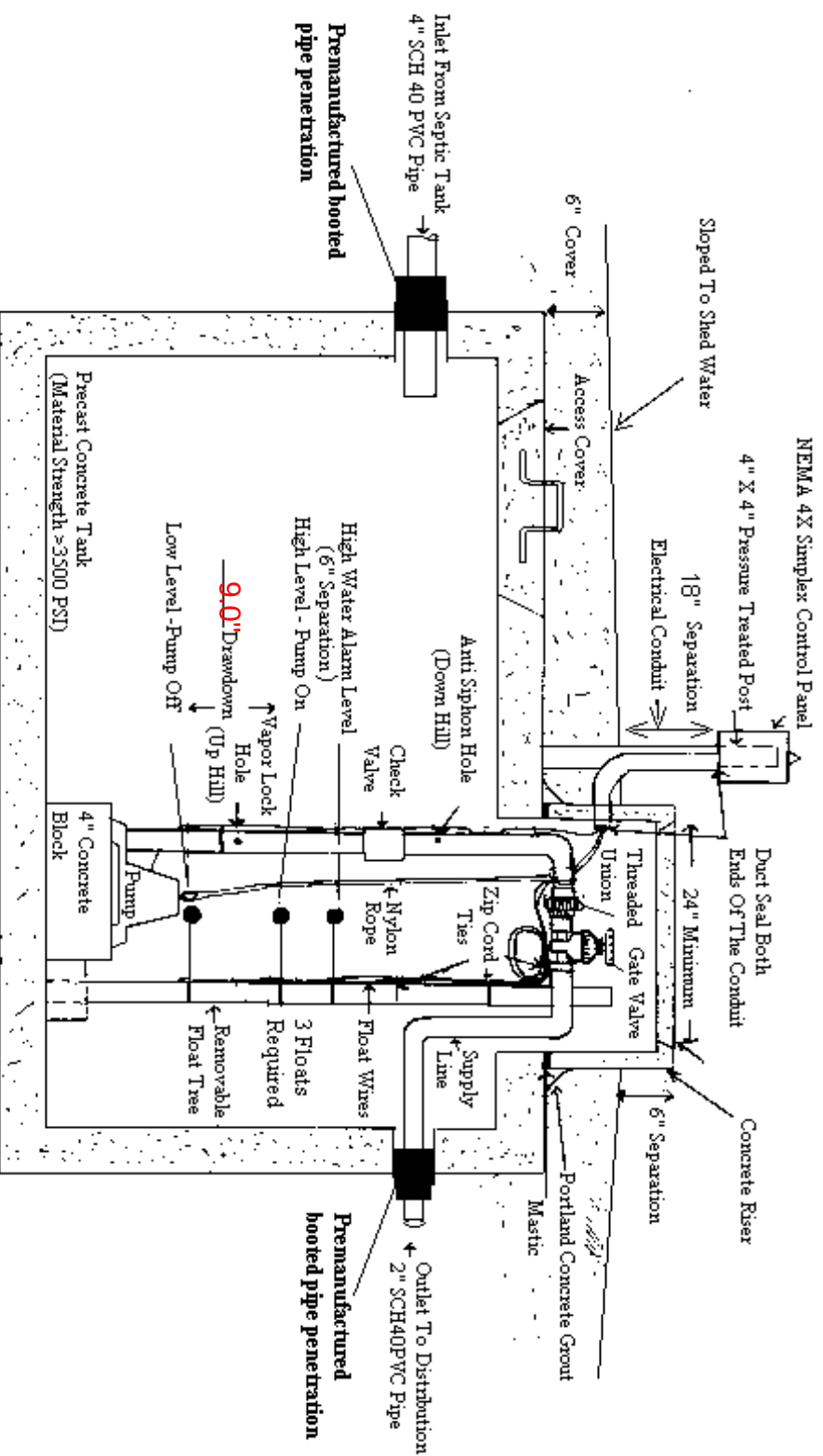
TAP CHART

Bench Mark	<u>5</u>	is = 100.00	set at	<u>TBM</u>			Design Head:	<u>3</u>
Pump tank elev.		<u>5</u>	100.00	Pump elev.	<u>95.00</u>		Manifold elev.	<u>102.40</u>
line	color	rod read	Elevation	length	hole size	flow/tap	gal/day	trench area
1	RED	3.6	101.40	135	1/2in SCH 40	8.71	160.00	405
2	YELLOW	3.9	101.10	135	1/2in SCH 40	8.71	160.00	405
3	BLUE	4.3	100.70	135	1/2in SCH 40	8.71	160.00	405
		total	feet =	405	gal/min =	26.13		<u>LTAR =</u>
% of Dose Vol.		<u>68</u>		<u>Des. Flow</u>	480			(ltar + 5%)
Dose Volume		179		Pump Run=	18.37			(ltar W/ INOV)
Dose Pump Time		6.85		Tank Gal/IN	20			(ltar + 5%)
Drawdown in Inches		9.0		Elev. Head	7.40			
Supply Line Length		90						
Comments:								

Hydraulic Profile

Manifold Elevation	102.40	90
Pump tank elev.	100.00	2
Pump elev.	95.00	0

Wake County Department Of Environmental Services

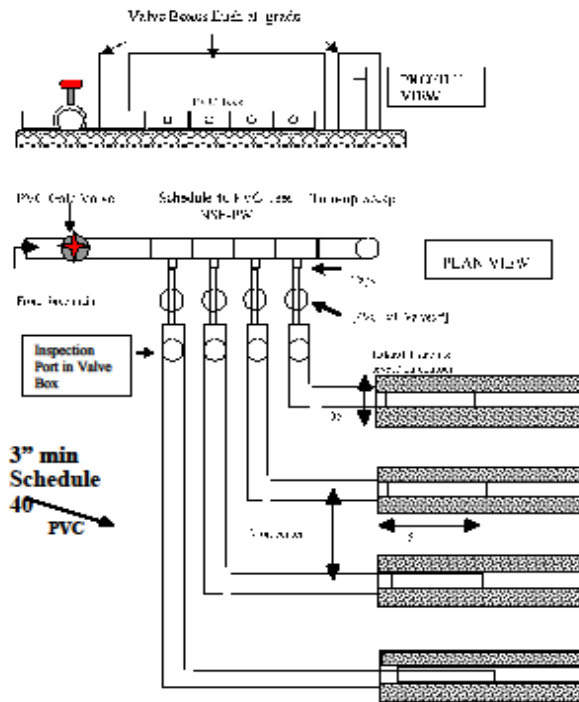


_____ GALLON PUMP TANK

1200 Gals Pump Tank

	Line 1	Line 2	Line 3
Taps	1/2in SCH 40	1/2in SCH 40	1/2in SCH 40
Flow	8.71	8.71	8.71

Wake County Mani-Tee Design



Manifold sizing may need to be altered after installer layout. The installer must layout the system prior to the pre-construction conference

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.

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IMPROVEMENT PERMIT

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APPLICATION DATE: 04/30/2021

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PIN: 0695016531

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LOT: 2

ACRES: 0.60

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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: Alex Adams

SYSTEM LAYOUT: Private Sector

SITE CLASSIFICATION: Provisionally Suitable

IP STATUS: Issued

BY: Kristi Marks

DATE: 05/26/2021

NUMBER OF BEDROOMS: 4

OR TOTAL NUMBER OF OCCUPANTS: 8

PERMITTED DESIGN FLOW: 480 GPD

BASEMENT: No

BASEMENT PLUMBING: No

WASTEWATER STRENGTH: Domestic

SYSTEM TYPE: III B

LTAR: 0.350

EXISTING SYSTEM UTILIZED:

PRETREATMENT STRENGTH REQUIRED:

EASEMENT FOR WW SYSTEM ASSOCIATED WITH PARCEL:

MAXIMUM TRENCH DEPTH: 34 INCHES

PUMP REQUIRED: Yes

SPECIFIC SYSTEM REQUIREMENTS: -System designed for 4 bedroom home, having 480 gals/day.

-Site serviced by community well water.

-Future Repair is a IIIB type system. With a Max Trench depth of 34" and a 0.35LTAR.

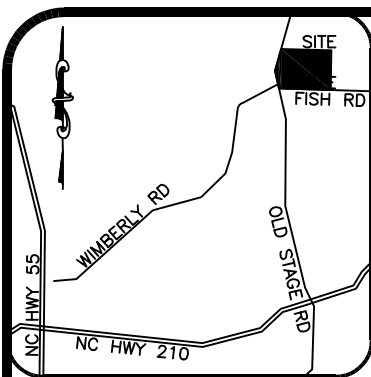
-No cutting, grading, alterations, or utilities in septic area.

-Maintain all required setbacks.

ISSUED BY:

A handwritten signature in black ink that reads "Kristina Marks". The signature is written in a cursive, flowing style. The first name "Kristina" is written in a larger, more prominent script, and the last name "Marks" is written in a slightly smaller, more compact script. The signature is positioned to the right of the "ISSUED BY:" label.

DATE: 05/26/2021



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 4. PROPERTY MAY BE SUBJECT TO ANY/ALL EASEMENTS AND RESTRICTIONS OF RECORD. THIS SURVEY IS A CORRECT REPRESENTATION OF THE LAND PLATTED AND OR DEEDED AND HAS BEEN PREPARED WITHOUT THE BENEFIT OF A TITLE REPORT. A NORTH CAROLINA LICENSED ATTORNEY-AT-LAW SHOULD BE CONSULTED REGARDING CORRECT OWNERSHIP, WIDTH AND LOCATION OF EASEMENTS, AND OTHER TITLE QUESTIONS REVEALED BY TITLE EXAMINATION.
 5. DRIVEWAY IMPERVIOUS CALCULATION SHOWN HEREON CALCULATED TO THE FRONT PROPERTY LINE/RIGHT-OF-WAY.

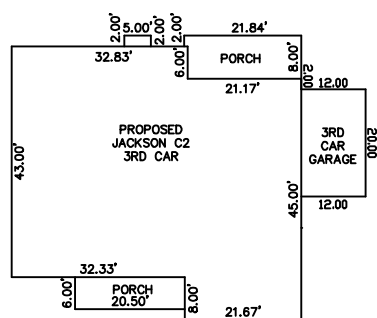
CURVE TABLE				
CURVE	LENGTH	RADIUS	BEARING	CHORD
C1	54.63	1525.00	S86°33'45"W	54.63
C2	23.89	275.00	S88°01'28"W	23.88

RBPR-058742-2021

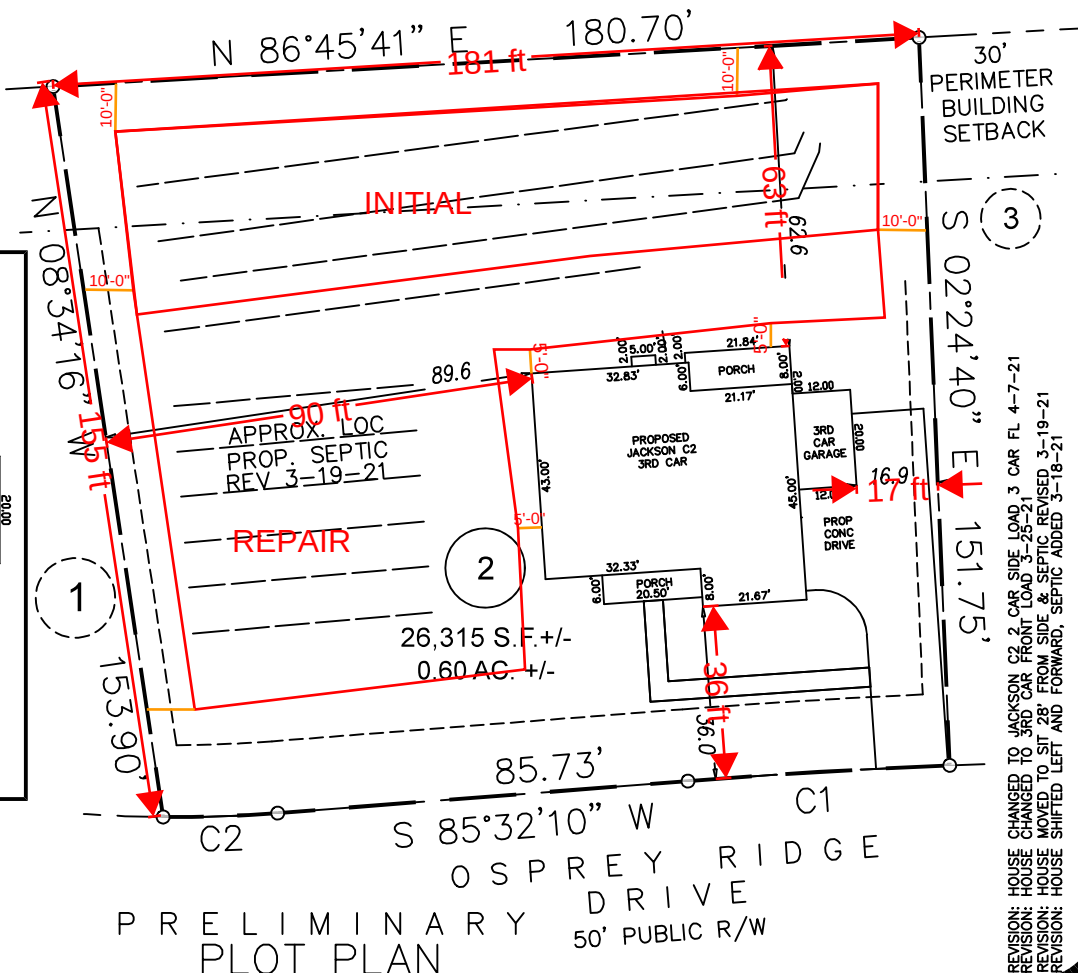
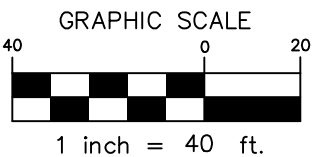


N/F
 MARCIA & MACKEY
 STEPHENSON
 D.B. 10267, PG. 751

IP Site Plan



(NTS)



REVISION: HOUSE CHANGED TO JACKSON C2 2 CAR SIDE LOAD 3 CAR FL 4-7-21
 REVISION: HOUSE CHANGED TO 3RD CAR FRONT LOAD 3-25-21
 REVISION: HOUSE MOVED TO SIT 28' FROM SIDE & SEPTIC REVISED 3-19-21
 REVISION: HOUSE SHIFTED LEFT AND FORWARD, SEPTIC ADDED 3-18-21

PROJECT:
 19-001 FISH HAWK RANCH
DRAWN BY:
 APS
SCALE:
 1"=40'
DATE:
 3-18-21

FOR
 H & H HOMES
 1608 OSPREY RIDGE DRIVE
 LOT 2 FISH HAWK RANCH SUBDIVISION
 PANTHER BRANCH TWP., WAKE CO., NC
 BM, 2019, PG. 1259-1262

