



Onslow County Health Department
 234 Northwest Corridor Blvd
 Jacksonville, North Carolina 28540
 Phone: (910) 938-5851 Fax: (910) 989-5819

OPERATIONS PERMIT

(GS 130A-337)

Owner: ZAPKO CONSTRUCTION LLC

Permit No: EHOP-2025-00155

Address: 247 TUMBLING BROOK LANE, HOLLY RIDGE, NC 28445

Workclass: EH OP New

Parcel: 749B-56

Subdivision: KINGS HARBOR

Lot Number: 56 **Section:** 2 **Phase:**

Block: **Part:** **Tract:**

Proposed Use: Single Family Residence

Location: 247 Tumbling Brook Lane

Facility/Daily design flow: 4 Bedroom / <480 GPD / 8 Persons max

System Information: Initial: 4-50' IQ4PS Chamber drainlines.
 Repair: 18' X 50' bed system.

THIS PERMIT ISSUED UNDER 18E RULES
 Effluent Standard – DSE

SEPTIC INSTALLER: TRACY WHALEY

Water Supply: Public

System Description: Accepted System - No Reduction, Infiltrator Quick4 Plus Standard

FINAL PLOT / REMARKS
<p>System Type: II</p> <p>System Classification: b. Accepted Wastewater System Gravity</p> <p>Manufacturer: Infiltrator</p> <p>Model#: IQ4PS</p>

Note: Type V and VI systems expire in 5 years. (In accordance with Table Va of .1961). Owner must contact the Onslow County Health Department 6 months prior to expiration for permit renewal. Onslow County Health Department is required to inspect the following system types: IIIb, every 5 years; IV, every 3 years; V, once per year and VI, every six months.

Signed By: Grant James

Date: 08/21/2025

This system has been installed in compliance with applicable NC General Statutes, Rules for Sewage Treatment and Disposal, and all conditions of the I.P. and C.A. This system shall perform in accordance with 15A NCAC 18A Rule .1961. Ground absorption sewage treatment and disposal systems shall be checked, and the contents of the septic tank periodically removed from all compartments. The contents shall be pumped, by approved means, whenever the solids level is found to be more than 1/3 of the liquid depth in any compartment.

THE ISSUANCE OF THIS O.P. DOES NOT CONSTITUTE AN ONSLOW COUNTY WARRANTY OR GUARANTEE OF THE FUNCTIONALITY OF THE WASTEWATER SYSTEM



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CONSTRUCTION AUTHORIZATION

(GS 130A-336)

Permit No: EHCA-2024-00283
 Workclass: EH CA New

(Required for Building Permit)

THIS AUTHORIZATION FOR WASTEWATER SYSTEM CONSTRUCTION SHALL BE VALID FOR A PERIOD EQUAL TO THE PERIOD OF VALIDITY OF THE IMPROVEMENT PERMIT.

Owner: ZAPKO CONSTRUCTION LLC

Address: 247 TUMBLING BROOK LANE, HOLLY RIDGE, NC 28445

Subdivision: KINGS HARBOR **Lot Number:** 56 **Section:** 2 **Phase:**

Block: **Part:** **Tract:**

Proposed Use: Single Family Residence

Location: 247 Tumbling Brook Lane

System Type: II **System Classification:** a. Conventional septic SF or 480 GPD or less

System Description: Conventional, Gravel Trench

Facility/Daily design flow: 4 Bedroom / <480 GPD / 8 Persons max

System Information: Initial: 4-50' conventional drainlines.

Repair: 18' X 50' bed system.

Ensure waterline is a minimum of 10 feet from any part of septic system and repair.

THIS PERMIT ISSUED UNDER 18E RULES

Effluent Standard – DSE

LTAR: .8 gpd/sq. ft. **Water Supply:** Public

Septic Tank Size: 1000 gallons **Grease Trap Size:** N/A gallons

Pump Tank Size: N/A gallons

Nitrification Area: 600 sq. ft. **Nitrification Linear Feet:** 200 lin. ft.

No of Lines: 4 **Line Length:** 50' **Line Width:** 3'

Trench Bottom Depth: 24" Below Ground Surface

(SEE ATTACHED PAGES 1 of 1 FOR ADDITIONAL PERMIT CONDITIONS)

Signed By: Robert McCabe Date: 09/03/2024

This Construction Authorization is subject to revocation if the site plan, plat, or the intended use changes. This Construction Authorization is subject to compliance with the provisions of the Laws and Rules for Sewage Treatment and Disposal and to the conditions of this permit. The construction and installation requirements of Rules .1950, .1952, .1954, .1955, .1956, .1957, .1958 and .1959 are incorporated by reference into this permit and shall be met.

THE ISSUANCE OF THIS C.A. DOES NOT CONSTITUTE AN ONSLOW COUNTY WARRANTY OR GUARANTEE OF THE FUNCTIONALITY OF THE WASTEWATER SYSTEM



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IMPROVEMENT PERMIT

(GS 130A-336)

Permit No: EHIP-2024-00106

Workclass: EH IP New

A building permit cannot be issued with only an Improvement Permit

Expiration: Valid For 5 Years From The Date of Issuance 05/28/2024

Owner: PERKINS MATTHEW C & ANDREW B ZAK

Address: 247 TUMBLING BROOK LANE, HOLLY RIDGE, NC 28445

Subdivision: KINGS HARBOR

Lot Number: 56

Section: 2

Phase:

Block:

Part:

Tract:

Proposed Use: Single Family Residence

Location: 247 Tumbling Brook Lane

System Type: II

System Classification: a. Conventional septic SF or 480 GPD or less

System Description: Conventional, Gravel Trench

Facility/Daily design flow: 4 Bedroom / <480 GPD / 8 Persons max

System Information: Initial: 4-50' conventional drainlines.

Repair: 18' X 50' bed system.

Ensure waterline is a minimum of 10 feet from any part of septic system and repair.

THIS PERMIT ISSUED UNDER 18E RULES

Effluent Standard – DSE

LTAR: .8 gpd/sq. ft.

Water Supply: Public

(SEE ATTACHED PAGES 1 - 1 of 1 FOR ADDITIONAL PERMIT CONDITIONS)

Signed By: Robert McCabe

Date: 05/28/2024

The issuance of this permit by the Onslow County Health Department in no way guarantees the issuance of other permits. The permit holder is responsible for checking with appropriate governing bodies in meeting their requirements. This permit is subject to revocation if the site plan, plat, or the intended use changes. This Improvement Permit shall not be affected by a change in ownership of the site. This permit is subject to compliance with the provisions of the Laws and Rules for Sewage Treatment and Disposal and to the conditions of this permit.

Owner: Zapko Construction LLC
 Address: 247 Tumbling Brook Lane
 Location: Kings Harbor Lot# 56

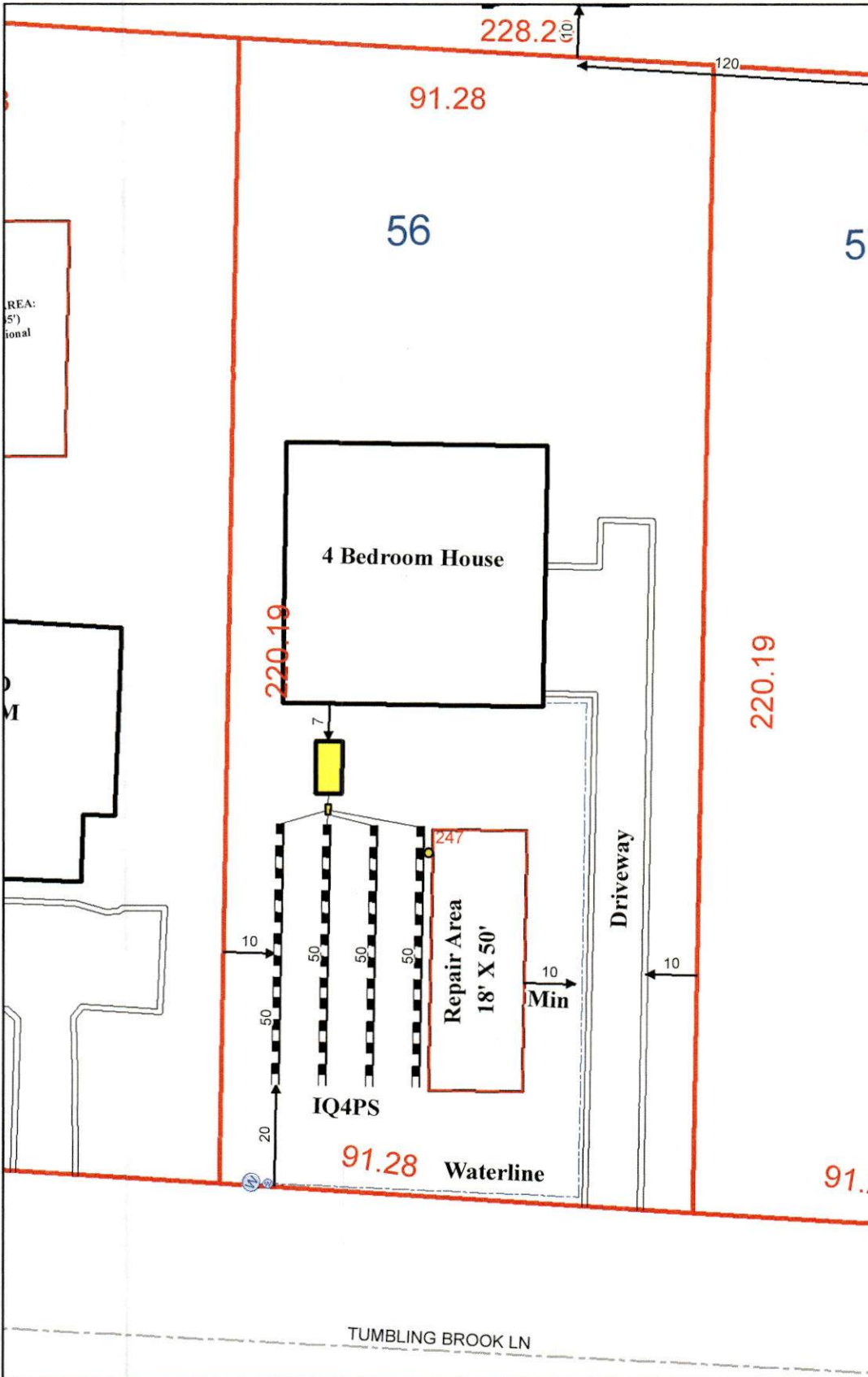
"AS BUILT"
8/21/2025

Addendum to permit # EHOP-2025-00155
 Page 1 of 1

PLOT PLAN

1 inch = 30 feet

Additional Permit Conditions:



1. Do not park or drive on any part of system or repair area.
2. Nitrification trench aggregate shall be covered with straw, untreated paper or other approved materials prior to final cover/backfilling.
3. Do not install system under wet conditions.
4. Adhere to minimum set back requirements as stated in 15A NCAC 18E .0601 unless otherwise indicated on this permit.
5. Rock used in soil absorption systems shall be clean, washed gravel or crushed stone and graded or sized in accordance with size numbers 4, 467M, 5, 6, 57, or 67 ASTM D448 (standard sizes of coarse aggregate) Documentation of aggregate size shall be available upon request.
6. All mid-seam pump tanks shall be tested for water tightness. Septic tanks may also be subject to a water tightness test.
7. The septic tank is designed to receive sewage or wastewater under gravity flow. However, if a system subject to the N.C. Plumbing Code is used to pump raw sewage to the septic tank, the sewage shall be reduced to gravity/non-turbulent flow by approved means at the inlet of the septic tank.
8. An accepted wastewater system may also be installed in accordance with the accepted wastewater system approval. (Maximum LTAR of 1.0 gpd/ft2)
9. Run lines parallel to contour. System components represent approximate contours only. The contractor must flag the system prior to beginning the installation to ensure that proper grade is maintained.
10. A recorded plat or deed and corresponding map shall be submitted to the Environmental Health Section of the Onslow County Health Department PRIOR TO the issuance of the Construction Authorization.
11. An APPROVED stormwater plan shall be submitted to the Environmental Health Section of the Onslow County Health Department PRIOR to issuance of a Construction Authorization.
12. FOR DWELLING UNIT WASTEWATER SYSTEMS ONLY – This wastewater system is designed only for the number of bedrooms shown as bedrooms or sleeping rooms on the building/floor plan approved by Onslow County Code Enforcement. No other room or space may be relabeled as a bedroom, used as a bedroom, or converted into a bedroom without prior approval from Onslow County Environmental Health.



SYSTEM DESIGN

# BEDROOMS/ GPD:	4 BEDROOM/480 GPD
SYSTEM TYPE:	11b IQ4PS CHAMBER
% REDUCTION:	N/A
LTAR:	0.8
SQ. FT.	600
LINEAR FEET	200
# OF LINES:	4
LENGTH EACH LINE:	50'
TRENCH BOTTOM:	24"
TRENCH WIDTH:	3 FEET
FEET ON CENTER(LINES)	9 FEET
REPAIR AREA:	18'X50' Bed System
	LTAR .8

****WARNING: THIS IS NOT A SURVEY!****

This map is prepared for the inventory of real property found within this jurisdiction, and is compiled from recorded deeds, plats, and other public records and data. Users of this map are hereby notified that the aforementioned public primary information sources should be consulted for verification of the information contained on this map. The County and mapping company assume no legal responsibility for the information contained on this map.

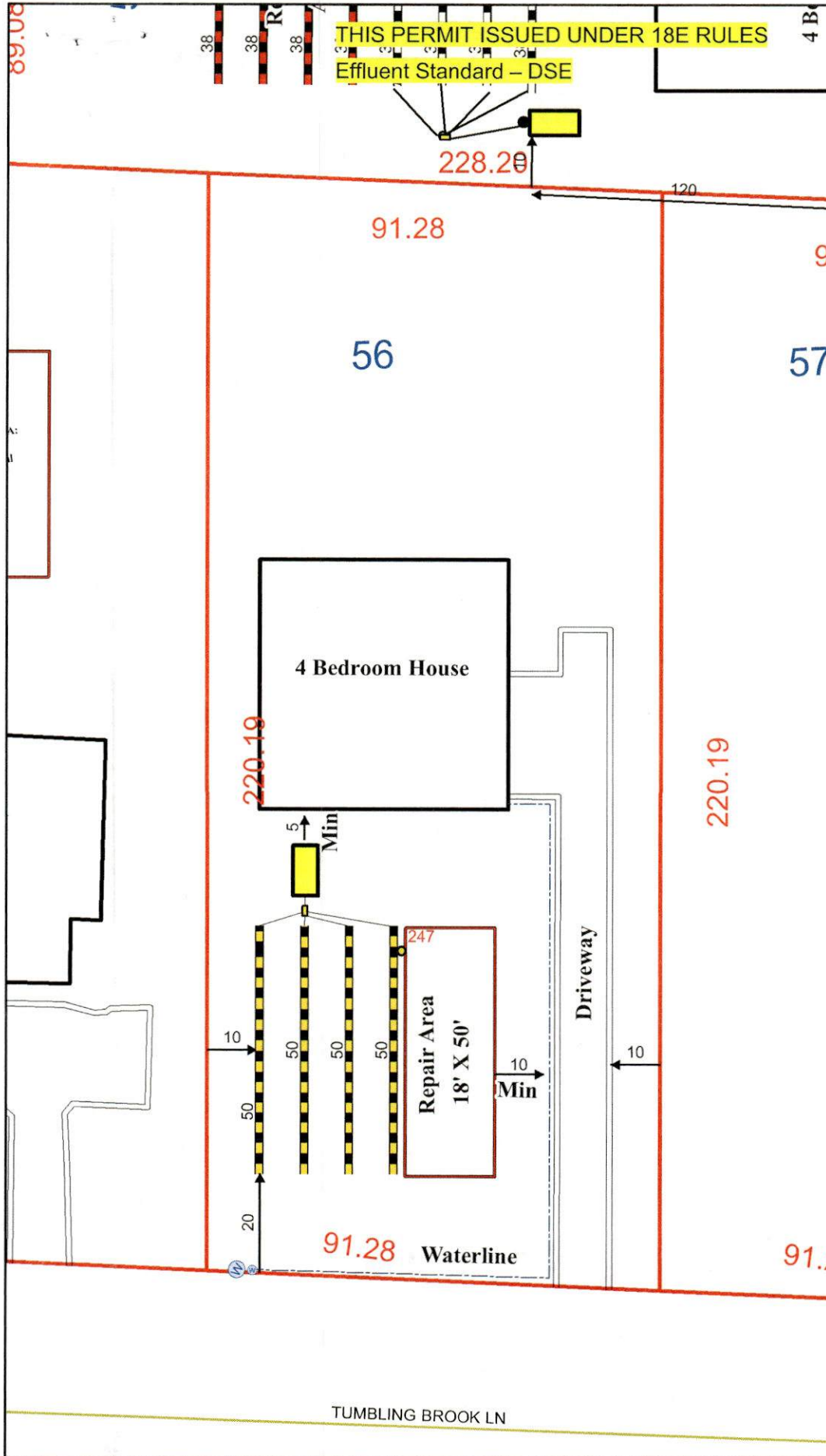
Owner: Kings Harbor
 Location: Lot 56, Section 2
 Address: 247 Tumbling Brook Lane

PLOT PLAN

Addendum to permit # EHIP-2024-00106

1 inch = 30 feet

Page 1 of 1



Additional Permit Conditions:

1. Do not park or drive on any part of system or repair area.
2. Nitrification trench aggregate shall be covered with straw, untreated paper or other approved materials prior to final cover/backfilling.
3. Do not install system under wet conditions.
4. Adhere to minimum set back requirements as stated in Rule .1950 and .1951 of NC Laws and Rules for Sewage Treatment and Disposal System (Article 11, G.S. Chapter 130A) unless otherwise indicated on this permit.
5. Rock used in soil absorption systems shall be clean, washed gravel or crushed stone and graded or sized in accordance with size numbers 3, 4, 5, 57, or 6 of ASTM D-448 (standard sizes of coarse aggregate) which is hereby adopted by reference in accordance with G.S. 150 B-14 (c). Documentation of aggregate size shall be available upon request.
6. All pump tanks shall be tested for water tightness. Septic tanks may be subject to a water tightness test.
7. The septic tank is designed to receive sewage or wastewater under gravity flow. However, if a system subject to the N.C. Plumbing Code is used to pump raw sewage to the septic tank, the sewage shall be reduced to gravity/non-turbulent flow by approved means at the inlet of the septic tank.
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SYSTEM DESIGN

# BEDROOMS/GPD:	4 BR/<480 GPD/8 Persons Max.
SYSTEM TYPE:	II a
% REDUCTION:	None
LTAR:	.8
SQ. FT.	600
LINEAR FEET	200
# OF LINES:	4
LENGTH EACH LINE:	50'
TRENCH BOTTOMS:	24" Below Ground Surface
TRENCH WIDTH:	3 FEET
FEET ON CENTER (LINES):	9 FEET
REPAIR AREA:	18' X 50' Bed System
	LTAR .8

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