



COUNTY OF DURHAM

HEALTH DEPARTMENT

ENVIRONMENTAL HEALTH DIVISION

INNOVATIVE SYSTEM REQUEST LETTER

Joseph M. Bailey am requesting an INNOVATIVE system for my lot located at _____,

Tax Map # 711 - 01 - 005, Lot # _____, Subdivision _____.

This INNOVATIVE system will serve for my initial system X, repair system _____.

The purpose of this request is to accommodate a 4 bedroom home.

I understand that certain INNOVATIVE systems such as **Polystyrene Aggregate** and **Chamber** are state approved and allow for a 25% size reduction in linear footage when compared to a gravel conventional system.*

The INNOVATIVE system I am requesting is Chamber.

Sincerely,

Joseph M. Bailey DATE: 1-21-03

* There are several varieties of chamber systems. Each has its own installation requirements and not all of them may be applicable to a specific site. There are many other types of state approved INNOVATIVE systems. Complete information may be obtained on the Division of Environmental Health home page at www.deh.enr.state.nc.us/oww/index.htm.

Rev. 3-01

DURHAM COUNTY HEALTH DEPARTMENT

IMPROVEMENT PERMIT, AUTHORIZATION FOR WASTEWATER SYSTEM
CONSTRUCTION (G.S. 130A-336) AND OPERATION PERMIT

Owner Joseph Bailey Location Cheek Road
Contractor _____ Subdivision _____
Tax Map Ref. No. 711-01-005 Surveyed Lot# _____ Lot Area 15.9 ac

House X Mobile Home _____ # of Bedrooms 4 Garbage Disposal yes _____ no X
Type of Business _____ # Employees _____ # Shifts _____
New S.T.S. X Repair S.T.S. _____ Reconnection S.T.S. _____
Water Supply: Individual X Public _____ Community _____

SYSTEM DESCRIPTION

Suitable _____ Provisionally Suitable X Unsuitable _____ [Abatement of a Public Health Nuisance (G.S. 130A-19)]
Design Wastewater Flow 480gpd LTAR 275 gpd/ft2 Nitrification Field 1730 square feet
Type of System Ultra shallow innovative pump system with pressure manifold
Size of Septic Tank 1250 gal Size of Pump Tank 1400 Trench Depth 12"
Trench Length 430' Trench Width 3' Depth of Stone N/A

Improvement Permit By R. M. Brown (Article 11 Chapter 130A of the General Statutes)

Authorization for Wastewater System Construction By _____

Date 10-15-02 Expiration Date 10-15-07

Operation Permit By _____ Date _____

System Installed By _____ Date _____

1) Construction must comply with all other applicable state and local regulations, site plan on attached plat, any special conditions, and attached specification sheet(s). 2) Contractor is to meet Environmental Health Specialist on-site prior to any construction or grading.

3) **Septic contractor to meet EHS on site prior to any work on system.**

4) System to be installed according to specifications of attached sheet.

5) **House site to be staked and location approved by Env. Health Spec. prior to any construction activity or other site disturbance.**

6) No grading of construction traffic inside gradeline in area designated for septic system **OR PERMIT MAY BE VOIDED.**

7) NOTE: Durham Co. Inspections Dept. requires adherence to Zoning Ordinance setback requirements.

8) Construction Authorization to be issued after site plan is approved by Inspections Dept. and EHS.

9) Grade fence to be constructed along grade line prior to auth. to construct and plat verification approval.

10) Driveway is to remain within 70 feet of left side line until it is past area reserved for septic system.

11) **Permit is for Innovative Ultra Shallow Pressure Manifold system with seven 70 foot lines. Contact Health Specialist for manifold design.**

Actions of representatives of state or local health departments engaged in the evaluation and determination of measures required to effect compliance with the provisions of this section shall in no way be taken as a guarantee that sewage treatment and disposal systems approved and permitted will function in a satisfactory manner for any given period of time, or that such employees assume any liability for damages, consequential or direct which are caused, or which may be caused, by a malfunction of such systems (G.S. 130A-166.65).

Note: This Permit is subject to revocation if site plans or the intended use changes, or if site and soil conditions are altered such that a septic system cannot be installed in compliance with this permit.

SPECIFICATIONS FOR PUMPED CONVENTIONAL

SYSTEM FOR: Joseph Bailey TAX MAP # 711-61-005

LOCATED AT: cheek Road

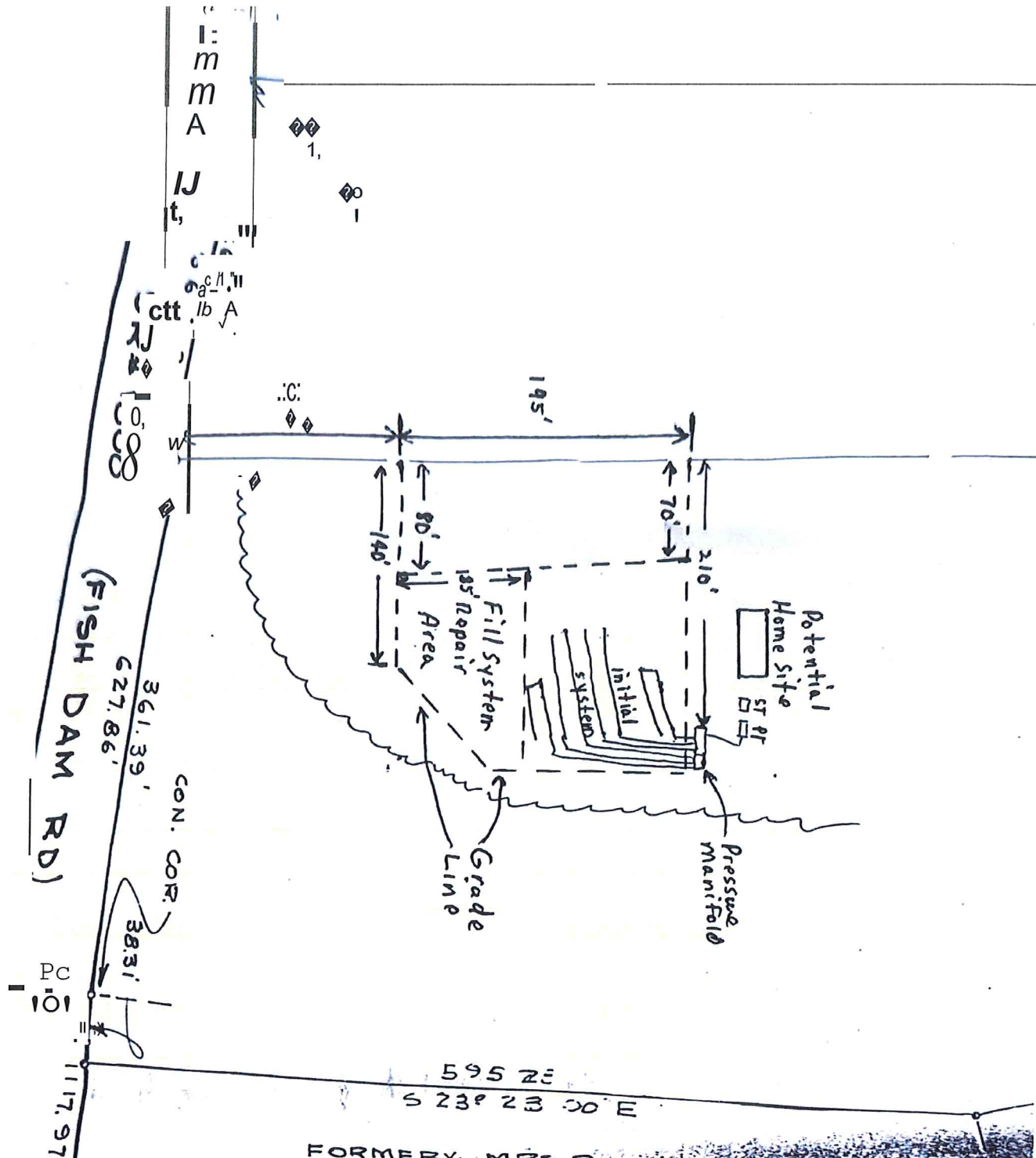
CHECKED ITEMS TO BE COMPLIED WITH:

- ☒ System to serve 4 bedroom residence or _____.
- ☒ House grade line shall be _____ feet from _____, or ☒ as drawn on plat.
- ☒ System shall be in area designated by Health Department, area for system and repair shall be left undisturbed unless confirmed by Environmental Health Specialist.
- ☒ Trenches **shall not** be installed deeper than 12 " without prior approval.
- ☒ Riser on septic tank shall be a minimum of 6" above finished grade.
- ☒ Above grade access for effluent filter shall be a minimum 6" above finished grade.
- ☒ Provisions shall be made to ensure pump tank is watertight.
- ☒ Riser on pump tank shall be a minimum of 12" above finished grade.
- ☒ Pump to be set on 4" concrete blocks.
- ☒ All utilities shall be brought around area for system and repair.
- ☒ Surface and subsurface water shall be diverted from site of system and tanks; site shall be stabilized and maintained after system is installed.
- ☒ Provisions shall be made to pressure check system after installation and before Operations Permit (OP) is issued.
- ☒ A three float pump control system is required. Sensor (15 degree angle) type floats are required.
- ☒ Control floats shall be secured to a sleeved float tree (ex. 1.5" Sch 40 sleeve over a 1.25" Sch. 40 post in cement).
- ☒ Electrical controls shall be a minimum of:
NEMA 4X enclosure at wet well with stainless steel lockable hasp with screw cover and plain front.
Pump hardwired to simplex control panel inside NEMA 4X enclosure at wet well with "Hand-Off-Auto" 3-position toggle switch, pump run light and pump power light. Pump power circuit shall be separate from alarm circuit and supplied with breaker rated for pump amperage.
NEMA 1 remote alarm mounted inside the residence with audible alarm and silent/test switch, hard wired to residence electrical system on separate alarm circuit. Alarm circuit power light on control panel at wet well to be lit when circuit is armed.
- ☒ The water supply must meet applicable Durham County Well Regulations prior to issuance of Operations Permit.
- ☒ NOTE: Durham Co. Inspections Dept. requires adherence to Zoning Ordinance setback requirements.
- ☒ Construction Authorization to be issued **pursuant to site plan approval by Inspections Dept. and EHS.**
- ☐ Other _____

Authorization for Wastewater System Construction shall be valid for 60 months from date of issuance. If the installation has not been completed during that time period, the authorization shall become invalid and must be renewed. If the site and soil conditions are altered, or the facility, design wastewater flow and wastewater characteristics are increased, the permit may become invalid.

This Improvements Permit is issued for the exact lot as evaluated on _____ and approved by the Durham County Health Department. Even the slightest change in the lot dimensions and/or configuration may void this permit. It is the owner's responsibility to notify the Durham County Health Department of any planned changes. Should the lot dimensions change, the lot must be re-evaluated by the department. All applicable fees must be paid and there is no guarantee by the Durham County Health Department that an Improvements Permit will be issued.

Rev 5/02



FORMERLY MRS. BUNIA TAYLOR HEIRS

CURVE DATA

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NORTH CAROLINA—DURHAM COUNTY

Map of P. A.