

7000 KILPECK CT

11330239

8/12/08

marliwr

Groundwater and Wastewater Services File Imaging Project
May 2007
Barcode Font = IDAutomationHC39M

16971 A

CLAY'S WASTEWATER SERVICES
INSPECTION OF ENGINEERED SUBSURFACE SEWAGE SYSTEM

Name of Establishment	Permit/Project No.
7990 KILPATRICK CT CLT NC 28208	

Location	Type of Establishment
MARK ALEXANDER	

Owner	Address	Phone
CLAY OAKS		704 395-8835

Operator

	YES	NO
1. ESTABLISHMENT:		
Type, size, and sewage flow in accordance with permit?	✓	
2. COLLECTION SYSTEM:		
No evidence of leaks into or out from sewer lines/manholes?		✓
Free of blockage/solids buildup in lines or manholes?	✓	
3. TANKAGE (Grease Traps/Lift Stations/Septic/Dosing Tanks):		
Tank rises accessible and surface water diverted?	✓	
Tanks and access manholes structurally sound, watertight	✓	
Sanitary tee(s) in good working condition?	✓	
Tanks pumped, cleaned out as needed?	✓	
4. RAW SEWAGE LIFT STATION (If Present):		
Required pumps present, operating, and cycling properly?	✓	
High-water alarm present and operating properly?	✓	
Floats/pipe/valves/disconnects in good working condition?	✓	
Control panel enclosure/ components in good condition?	✓	
5. EFFLUENT DOSING SYSTEM:		
Effluent appears clear, free of excess solids?	✓	
PUMP SYSTEMS:		
Required pumps present, operating, and cycling properly?	✓	
High-water alarm present and operating properly?	✓	
Floats/pipe/valves/disconnects in good working condition?	✓	
Control panels enclosure/ components in good condition?	✓	
Elapsed time readings: ____ ____ ____ ____		
SIPHON SYSTEM:		
No evidence of overflow or siphon leakage?		
Siphon(s) appear to be working/ alternating properly?		
Bells and vents free of debris and in good condition?		
6. GROUND ABSORPTION FIELDS:		
No evidence of effluent surfacing/ reaching surface waters?		✓
Minimal ponding in subsurface trenches?	✓	
Surface water being effectively diverted away?	✓	
Diversions/ ditches/ swales/ tile drains properly maintained?	✓	
Line cover/ vegetation adequate/ maintained as needed?	✓	
Protected from traffic, destructive uses?	✓	
Distribution devices in good condition, working properly?	✓	
Repair area properly reserved, maintained?	✓	
LOW-PRESSURE PIPE DRAIN FIELDS:		
Turnups/ cleanouts/ valves intact and accessible?	✓	
No effluent standing in lower laterals?	✓	
Laterals free of excess solids, cleaned out as needed?	✓	
Pressure head is properly adjusted?	✓	

INSPECTION FREQUENCY

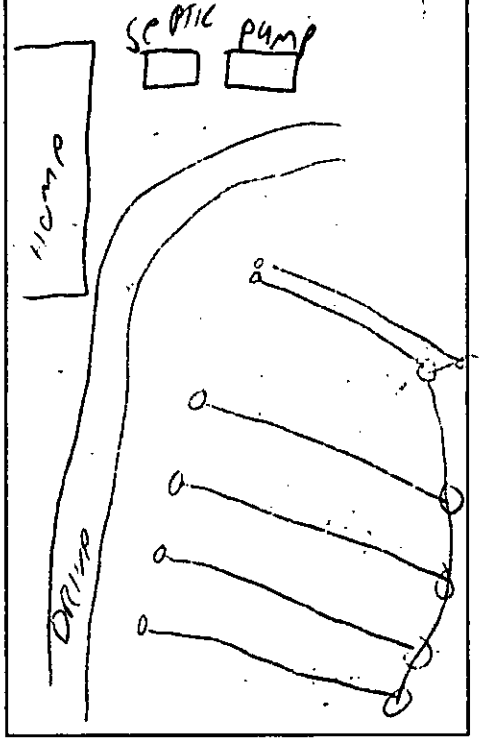
Annual — Quarterly

(Bi-Annual) — Yearly

(Other)

Re-Inspection

SITE LOCATION MAP



OVERALL CONDITION AND OPERATION OF SYSTEM: _____

IMPROVEMENT: Replaced 3 valve box covers + repaired broken 1¼ on Line #2

DATE: 11-23-02 **SIGNED:** [signature]

CERTIFICATE OF COMPLETION/OPERATION PERMIT

HEALTH DEPARTMENT
ENVIRONMENTAL HEALTH DIVISION
700 NORTH TRYON ST., SUITE 211
CHARLOTTE, NC 28202
PHONE (704) 336-5102

FILE: 16971 DATE: 8/14/01

TC: 113-302-39 ☒ L ☒ CRT

SERIAL Nº 18610

Name of Owner MARK ACCOMAZZO Juris.: _____

Address of Property 7000 KILPECK COURT

Inspection Data:

Tank Material PCC

Total Length of Drainfield 315'

Number of Lines 6 @ VARYING LENGTHS

Cover Depth 8-12"

Water Supply Source PRIVATE WELL

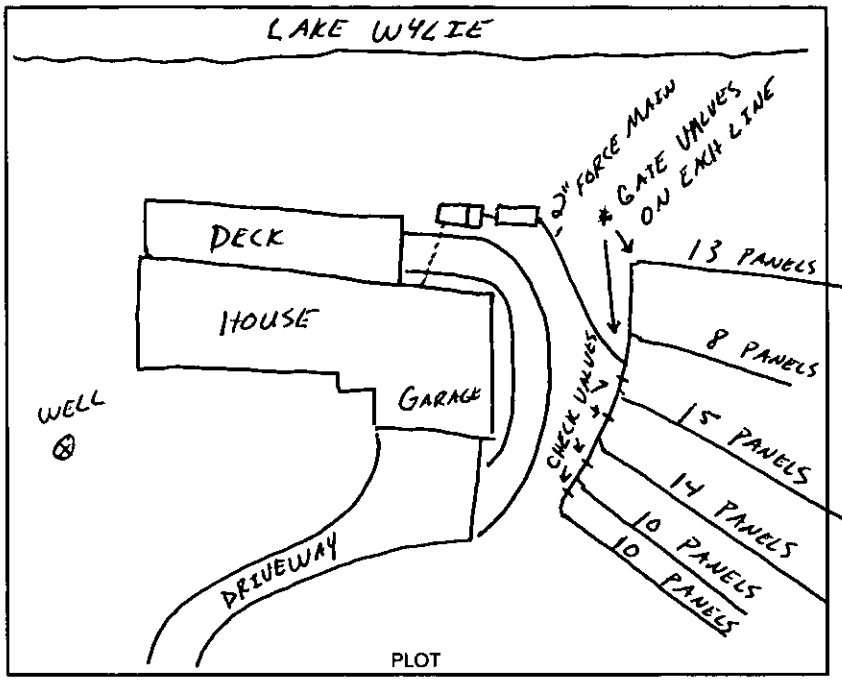
Distance to Water Source >70'

Excavation Inspected 8/13/01

Tank(s) Inspected 8/3/01

Wash Line Inspected NA

High Water Alarm Inspected 8/14/01



Design 1500ST, 1500PT, PI, 630 SFT, PANEL BLOCK, LPP, 22"sand CTR# AUTREY

The undersigned has inspected the Septic Tank System described above, and certifies it has been

☒ installed or constructed ☐ altered or repaired

☐ in accordance with the permit issued ☒ as detailed in the plot above

and meets the provisions of I5A NCAC 18A. 1900, "Laws And Rules For Sewage Treatment and Disposal Systems" in effect on the date of issuance of the permit. This issuance of this

☐ Certificate of Completion ☒ Operation Permit

does not in any way guarantee that the system will operate properly or relieve any person now or hereafter owning, controlling, or using such system from any liability resulting from the failure of the system to operate properly. This document is issued subject to those restrictions and conditions shown on the permit(s) and the provisions of I5A NCAC 18A. 1990 in addition to those listed below under "COMMENTS." This document shall be null and void if any information contained in the application is untrue or if any additions are made to the property which would increase the requirements for said system.

Notice: Disturbance of the designated repair area may result in the suspension/revocation of this permit.

COMMENTS: FOUR BEDROOM RESIDENCE / GATE VALVES ON EACH LINE

6 lines @ VARYING LENGTHS (70 PANELS) LPP DOSED

NEMA 4X SIMPLEX CONTROL PANEL / 6AG SIM/TECH PUMP FILTER W/ SOCK

TYPE IIIG LPP DOSED PANEL BLOCK SYSTEM

Jeremy P. Mickelson R.S.
Environmental Health Specialist

Mecklenburg County services are available without regard to ethnic origin, sex, or disability.

ENVIRONMENTAL HEALTH
700 N TRYON ST #211
CHARLOTTE, NC 28203

BATCH: 213
S-A-L-E-S O-R-A-F-T
73822355
000500158410

REF: 0001
CD TYPE: VISA
TR TYPE: MAIL/PHONE
INV: 0502
DATE: OCT 12, 01 11:11:47

AVS: EXACT MATCH
TOTAL $150.00*

ACCT: 4427110003808361 EXP: 02/08
AP: 015822

CARDMEMBER ACKNOWLEDGES RECEIPT OF GOODS AND/OR SERVICES IN THE AMOUNT OF THE TOTAL SHOWN HEREON AND AGREES TO PERFORM THE OBLIGATIONS SET FORTH BY THE CARDMEMBER'S AGREEMENT WITH THE ISSUER

THANKS FOR USING VISA

X ----------

MECKLENBURG COUNTY
LAND USE AND ENVIRONMENTAL SERVICES
Payment Receipt

Receipt Information

Date:	10/12/01	**Amount:**	150.00
Receipt #:	2047	**Tendered:**	0.00
Check / Auth #:	VISA 015822	**Returned:**	0.00
Received By:	CRAIGGY		

Account Information

Account #: 100000
Contractor: Mark Accomazzo
Attn:
Address:
Address:
City/State/Zip: , NC

Item	Description	Permit#	Quantity	Unit Price	Total Price
0703	Installation/Final Approval 7000 Kilpeck Court		1	150.00	150.00

----------Outstanding Balances----------

Month-To-Date	Prior Month	30 Days	60 Days	90 Days	Balance

INSTALLATION, CONSTRUCTION, ALTERATION, AND/OR REPAIR APPROVAL

HEALTH DEPARTMENT
ENVIRONMENTAL HEALTH DIVISION
700 NORTH TRYON ST., SUITE 211
CHARLOTTE, NC 28202
PHONE (704) 336-5102

FILE: 16971 DATE: August 2, 2001

TC: 113-302-39 ☒ L

SERIAL Nº 18810

Permission is hereby given to ____ (Install) or Construct, ____ Alter or Repair the individual septic tank wastewater treatment system with subsurface, soil absorption, effluent discharge as specified herein at the described location. This permit is granted based upon the information supplied in the application dated 1-4-00. All work shall be completed on or before 9/2/01, after which date this permit shall be null and void. The system shall meet all of the construction requirements of I5A NCAC 18A. 1900 which are in effect on the date of the granting of this permit. A Certificate of Completion or an Operation Permit must be obtained from the Mecklenburg County Health Department before any system can be covered up or placed into service. The issuance of this permit does not in any way guarantee that the system anticipated to be constructed will operate properly, or relieve any person now or hereafter owning, controlling or using such system from any liability resulting from the failure of the system to operate properly.

See Engineered Plans

PLOT OF SYSTEM

Liquid Capacity of Septic Tank 1500 gallons

Liquid Capacity of Dosing Tank 1500 gallons

Tank Construction PCC

Trench Depth 36"

Absorption and/or Nitrification Lines:

Trench Width 2' feet

Trench Walls Scored and Porous yes

Total Line Length 315' feet

Number of Lines 5 @ Varying lengths

Depth of Stone Panel Block 22" Sand inches

Distance from House >15' feet

Distance from Property Line >10' feet

Distance from Well > 50' feet

NOTICE: This system shall not be installed while soils are in a wet condition.

NAME OF OWNER Mark Accomazzo

LOCATION OF PROPERTY 7000 Kilpeck Court

Comments: Four Bedroom Residence

Install 315' Panel Block (70 Panels) LPP Disposal

Install in accordance w/ engineered plans

Type IV a system

Tammy P. Mullis R.S.
Environmental Health Specialist

WHITE - HEALTH DEPARTMENT's COPY • CANARY - E.H.S. COPY • PINK - OWNER OR AGENT's COPY

STATE OF NORTH CAROLINA

COUNTY OF MECK

INSPECTION AND MAINTENANCE AGREEMENT (rev. 3/91)

File # 16971

this agreement is made and entered into this 12TH day of OCTOBER 2001, by and between MARK ACCOMAZZO (hereinafter the "Owner") and CLAY DAVIS (hereinafter the "Contractor").

WITNESSETH

WHEREAS, the Owner owns or controls the property upon which a ground absorption sewage treatment system (hereinafter "system") is installed, such system being designated a Type IV system under the Rules for Sanitary Sewage Collection, Treatment and Disposal found at 15A N.C. Adm. Code 18A.1900 et seq.; and

WHEREAS, 15A N.C. Admin. Code 18A.1961 requires a contract to be executed between the system owner and a management entity prior to the issuance of an Operation Permit for said system; and

WHEREAS, 15A N.C. Admin Code 18A.1961 requires that a condition of the Operation Permit for said system be that a properly executed contract between the system owner and a management entity shall be in effect for as long as the system is in use; and

WHEREAS, the Contractor is a management entity of a type authorized by 15A N.C. Admin. Code 18A.1961 to manage a Type IV system.

NOW THEREFORE, in consideration of the premises and of the mutual covenants and promises contained in this Agreement, it is hereby agreed by and between the Owner and the Contractor as stipulated below.

1. The Contractor's Obligations. The Contractor shall perform the following services on the Owner's system located at 7000 KILPECK CT CLT NC 28208

a. The contractor shall inspect the system at least at the frequency required in Table V(b) of 15A N.C. Admin. Code 18A.1961(b) for a Type IV System.

b. The Contractor shall perform the following routine maintenance procedures in accordance with the conditions of the Operation Permit:

(1) [from operation permit]
(2) INSPECT & REPORT 2x PER YR TO CMHD
(3)

c. The Contractor shall report the results of its inspections to the local health department at the frequency specified in Table V(b) of 15A N.C. Admin. Code 18A.1961(b) for a Type IV System.

d. If an inspection indicates the need for system repairs, the Contractor shall notify the local health department within 48 hours of the inspection.

e. The Contractor shall notify the Owner of needed repairs which are outside of the scope of routine maintenance described in subparagraph (b) above. The Contractors shall perform necessary repairs to the system at the request of the Owner and shall be entitled to payment therefor at the Contractor's normal charge for services and materials.

f. The Contractors shall employ or shall contract with a certified operator(s) if required by Table V(b) of 15A N.C. Admin. Code 18A.1961(b) for a Type 1V System.

g. The Contractor shall respond to a request for a nonscheduled service or maintenance call within 24 hours after receipt of such request.

2. The Owner's Obligations.

a. The Owner shall pay to the Contractor the sum of $ 200 per year for periodic inspections, routine maintenance procedures and periodic reports. The annual fee may be amended upon sixty (60) days advance notice to the Owner but may not be increased more than 10 percent per year. The Owner shall pay to the Contractor his normal and customary fees for any work performed on the system as a result of nonscheduled service or maintenance calls. All fees are due and payable within thirty (30) days of billing. Payments due to the Contractor and unpaid by the Owner after thirty (30) days shall accrue interest from the due date until paid at a rate of _____ percent per month.

b. Within 10 days of receipt of notice of needed repairs pursuant to paragraph 1.e. above, the Owner shall request the Contractor to complete needed repairs or shall provide to the Contractor evidence that the needed repairs were satisfactorily completed by another entity.

c. The Owner shall provide the Contractor with such access to the system as is reasonably necessary for the Contractor to comply with the terms of this Agreement.

3. Term. This Agreement shall remain in effect until terminated.

a. Automatic Termination.
This agreement shall automatically terminate if the Operation Permit for the system is revoked and all appeals of the revocation are exhausted or time for taking an appeal has passed.

b. Termination by Mutual Consent.
The Parties may mutually agree to terminate this Agreement by giving written notice of termination by mutual consent to the local health department thirty (30) days in advance of the date of termination.

d. If an inspection indicates the need for system repairs, the Contractor shall notify the local health department within 48 hours of the inspection.

e. The Contractor shall notify the Owner of needed repairs which are outside of the scope of routine maintenance described in subparagraph (b) above. The Contractors shall perform necessary repairs to the system at the request of the Owner and shall be entitled to payment therefor at the Contractor's normal charge for services and materials.

f. The Contractors shall employ or shall contract with a certified operator(s) if required by Table V(b) of 15A N.C. Admin. Code 18A.1961(b) for a Type IV System.

g. The Contractor shall respond to a request for a nonscheduled service or maintenance call within 24 hours after receipt of such request.

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b. Termination by Mutual Consent.
The Parties may mutually agree to terminate this Agreement by giving written notice of termination by mutual consent to the local health department thirty (30) days in advance of the date of termination.

c. Termination by the Owner.
The Owner may terminate this Agreement by giving notice to the Contractor and to the local health department thirty (30) days in advance of the date of termination.

d. Termination by the Contractor.

(1) The Contractor may terminate this Agreement for cause by giving written notice of intent to terminate this Agreement to the Owner and to the local health department thirty (30) days in advance of the date of termination. Cause shall be defined as:

(a) failure to remit payment for any bill for services performed under and in accordance with this Agreement if said bill is not paid within thirty (30) days of receipt by the Owner of the bill. If said bill is paid after notice of termination of this Agreement, the Agreement shall continue in effect; or

(b) failure of the Owner to provide to the Contractor authorization to complete needed repairs or satisfactory evidence that needed repairs to the system were completed by another entity within 30 days of receipt of notice of needed repairs pursuant to paragraph 1.e. above. If said authorization to complete needed repairs or evidence of completion of said repairs is provided after notice of termination is given but prior to the date of termination of this Agreement, this Agreement shall continue in effect;

(c) failure of the Owner to allow the Contractor such access to the system as is reasonably necessary in order for the Contractor to comply with the terms of this Agreement.

(2) The Contractor may not terminate this Agreement without cause, but may assign its rights and duties under this Agreement as provided in paragraph 4, below.

4. Assignment.

a. Assignment by the Owner. The Owner shall notify the Contractor of the name and address of any purchaser of the property on which the system is located. The Owner shall also notify any purchaser of the property on which the system is located of the existence of this Agreement and shall assign all rights and duties under this Agreement to said purchaser.

b. Assignment by the Contractor. The Contractor may assign its rights and duties under this Agreement to another management entity which is qualified pursuant to 15A N.C. Admin. Code 18A.1961 to manage a Type IP system upon thirty (30) days written notice to the Owner and to the local health department.

5. Use of Subcontractors. The Contractor may subcontract with such manufacturers, suppliers and contractors as it deems desirable to perform any of the Contractor's duties under this Agreement. The Contractor shall at all times remain responsible for the performance of and payment for all work performed by all subcontractors.

6. Representations. The Parties represent to each other that each has the power, authority and legal right to enter into and perform its obligations as set forth in this Agreement.

7. Regulatory Amendments. References in this Agreement to sections of the Administrative Code shall include such rules as they may be amended in the future.

8. No Implied Waiver. The waiver by either Party of the default or a breach by the other Party of any provision of this Agreement shall not operate or be construed to operate as a waiver of any subsequent default or breach. The failure at any time of either Party to enforce any provision of this Agreement (a) shall not be construed to be a waiver of such provisions, or of any other provision; and (b) shall not in any way affect the validity of this Agreement, or any part of this Agreement, or the right of either Party thereafter to enforce each and every provision of this Agreement.

9. Notice. Every notice required under this Agreement shall be in writing and shall be deemed sufficiently given if delivered in person or sent by certified or registered mail, return receipt requested, postage prepaid to the Party to be notified and addressed as follows:

To the Owner: MARK ACCOMAZZO
7000 KILPECK CT CLT NC 28269

To the Contractor: Clays WasteWater Service
501 Singing Pine Road
Charlotte NC 28214

To the Local Health Department:

The date of any Notice shall be the date of personal delivery or the date shown on the return receipt as the date of delivery or attempted deliver, as the case may be. Changes in the respective addresses to which notice may be directed may be made from time to time by either Party by notice to the other party.

10. Place of Agreement. This Agreement and any questions concerning its validity, construction or performance shall be governed by the laws of the State of North Carolina.

5. Use of Subcontractors. The Contractor may subcontract with such manufacturers, suppliers and contractors as it deems desirable to perform any of the Contractor's duties under this Agreement. The Contractor shall at all times remain responsible for the performance of and payment for all work performed by all subcontractors.

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To the Owner:
MARK ACCOMAZZO
7000 KILPECK CT CLT NC 28269

To the Contractor:
Clays WasteWater Service
9001 Singing Pine Road
Charlotte NC 28214

To the Local Health Department:

The date of any Notice shall be the date of personal delivery or the date shown on the return receipt as the date of delivery or attempted deliver, as the case may be. Changes in the respective addresses to which notice may be directed may be made from time to time by either Party by notice to the other party.

10. Place of Agreement. This Agreement and any questions concerning its validity, construction or performance shall be governed by the laws of the State of North Carolina.

notwithstanding the place of execution, or the order in which the signatures of the Parties are affixed.

11. Entire Agreement and Amendment. This Agreement supersedes all prior negotiations, agreements and understandings between the Parties with respect to the subject matter hereof and constitutes the entire Agreement between the Parties with respect to the subject matter hereof. To be effective, any amendment or modification to this Agreement must be in writing and must be signed by the Parties.

12. Severability. In the event that any provision of this Agreement shall, for any reason, be determined to be invalid, illegal or unenforceable in any respect, the Parties shall negotiate in good faith and agree to such amendments, modifications or supplements of or to this Agreement or such other appropriate actions as shall, to the maximum practicable in light of such determination, implement and give effect to the intentions of the Parties as reflected in this Agreement, and the other provisions of this Agreement shall, as so amended, modified, supplemented or otherwise affected by such actions, remain in full force and effect.

IN TESTIMONY WHEREOF, the Parties hereto have executed this Agreement in duplicate originals, one of which is retained by each of the Parties, the day and year first above written.

Oct 12, 2001

J.E. Accomazzo

(Owner)

Attest:

Contract Terms (Check one)

Begin Date/End Date

( ) 1 Year
( ) 3 Years
(✓) 5 Years 10-12-01 / 10-12-06
( ) Other

Clay Oates

(Contractor)

Attest:

notwithstanding the place of execution, or the order in which the signatures of the Parties are affixed.

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IN TESTIMONY WHEREOF, the Parties hereto have executed this Agreement in duplicate originals, one of which is retained by each of the Parties, the day and year first above written.

_____ (Owner)

Attest:

_____

Contract Terms (Check one)

Begin Date/End Date

( ) 1 Year
( ) 3 Years
(✓) 5 Years 10-12-01 / 10-12-06
( ) Other

Clay Oden
_____ (Contractor)

Attest:

_____

File Copy

SPECIFICATIONS & SCOPE OF WORK

for an Individual Residence

T & J PANEL

Ground Absorption, Wastewater Disposal System

for

7000 Kilpeck Court
Charlotte(Mecklenburg County), NC

January 26, 2000

OWNER:

Mr. & Mrs. Mark Accomazzo
5129 MacAndrew Drive
Charlotte, NC 28266
Phone: 704/ 541-7613
Alternates: 704/ 281-6274; 704/ 281-7493

PREPARED BY:

B. K. Barringer, Jr., P.E.
N. C. Registration No. 3370
Westfield Center Suite 104
125 East Plaza Drive
Mooresville, N. C. 28115
Phone: 704/ 664-7888
Fax: 704/ 664-1778

1-26-00

NORTH CAROLINA PROFESSIONAL SEAL 3370 ENGINEER B. K. BARRINGER, JR.

Ground Absorption Wastewater Disposal System
7000 Kilpeck Court
Charlotte, Mecklenburg County, NC

T & J Panel System

I. NARRATIVE:

The Owner is proposing to construct a four bedroom residence to replace an existing summer cottage which will be demolished. The residence will be supplied with an existing on-site water well.

A pressurized Pre-fabricated Permeable Block Panel (PPBP) System is proposed for this residence due to limited available space and soil data. The panel system will function as additional pre-treatment of effluent before entering the soil. Nitrification lines (panels) are to be placed on 8' centers. The field will be dosed by a properly sized pump with float control. These specifications address the Owner's responsibilities as well as installation instructions, components of the proposed system, and testing and operating procedures.

The property qualified under .1945 (c)(1) with regard to available space and repair. However, there is some available space for repair outside the 50' radius of the on-site well and adjoining neighbor's well.

The septic system plan has been prepared locating existing contours, the location of proposed panels, tanks, house and driveway envelopes and repair area.

Immediately before the demolition of the existing residence and the beginning of construction, the area of the nitrification field shall be barricaded to prevent the access of any vehicle or anyone not knowledgeable of septic system installation. Any disturbance within the area shall be performed by the system installer.

The existing septic tank shall be pumped dry and removed.

The Sanitarian has set an LTAR of 0.3 G/SF/D.

II. LOCATION:

The property is riverfront property with an existing summer cottage. The property is accessed via gravel drives off the 6700 block of Dixie River Road.

III. REFERENCE MATERIAL:

(1) DESIGN AND INSTALLATION (Manual)
OF LOW PRESSURE PIPE WASTE WATER TREATMENT SYSTEMS
By: Craig Cogger; Bobby L. Carlisle; Dennis Osborne; Ed Holland
Published by: UNC Sea Grant College Pub. UNC-SC-82-03
May, 1982.

(2) LAWS AND RULES FOR GROUND ABSORPTION SEWAGE DISPOSAL SYSTEMS.
SECTION .1956 OF THE N.C. Administrative Code: Title 10 Health Services; Environmental Health; Subchapter 10a; Sanitation.
Published by: N.C. Dept. of Human Resources; July 1, 1982.
Paragraph .1956 (a)(ii)(B).

(3) EPA 625/1-80-012 Design Manual
Onsite Wastewater Treatment and Disposal System Oct.,1980;
Chapter 7.

IV. OWNERSHIP RESPONSIBILITY FOR A PANEL SYSTEM:

It must be kept in mind that this system is designed to accept a moderate amount of waste water (which is called the EFFLUENT), in a minimal water absorbing soil.

Conservation measures must be undertaken by all members of the household to minimize the volume of waste water entering the disposal system, including, but not limited to, the following precautions:

(a) Provide water conserving plumbing fixtures within the facility. Water closets shall not use more than 1.6 gallons/flush. Shower head shall have a maximum allowable flow of 3.0 gallons/minute. All fixtures shall conform to Table 901.2.2 of the NCBC Volume II, Plumbing;
(b) Develop conservative water use habits;
(c) Monitor and maintain the system as necessary for proper operation;
(d) Check and pump the septic tank sludge on a regular basis of approximately every year if garbage disposal is included in the residence, or approximately every three years otherwise.
(e) Make rapid repairs to leaking plumbing fixtures and faucets.
(f) Avoid excessive watering of the lawn in the vicinity of the disposal field.

V. CERTIFICATION:

The Owner shall employ the Design Engineer to make timely observations of the project during construction. Upon completion of the project, the Contractor shall provide the Engineer an "as built" plan of the project. The Engineer shall certify that the project has been constructed in accordance with the plans and specifications and shall further certify that the various apparatuses including fixtures within the house meet the intent of the specifications. A copy of the "as-built" plan and certification shall be provided to the County Sanitarian.

VI. COMPONENTS OF THE SYSTEM AND CONSTRUCTION SEQUENCE:

Refer to T & J Panel System's manufacturing and installment manual. Furnish and install all items required for a complete system in accordance with plans and specifications; for requirements of the County Dept. of Environmental Health (CDEH); the N. C. Dept. of Environmental Health (NCDEH); the N. C. Building Code, Plumbing Code and Electrical Code; and the National Electric Code. System must be properly installed by a qualified, competent contractor.

COMPONENTS OF SYSTEM:

1. 1,500 gallon two compartment septic tank with effluent filter
2. 1,500 gallon pumping tank with access
3. Submersible effluent pump, filter and float controls
4. Pump Control and high water alarm signals (audible and visible)
5. Supply pipe
6. Ball valves
7. T & J 16" high panels & distribution laterals

CONSTRUCTION SEQUENCE:

(1) Lay out T & J, 16" high, panel system network area with stakes and flagging to ten feet (minimum) beyond the limits of the network. As soon as the absorption area is designated, it shall be flagged, roped off and isolated from construction traffic. This barrier should be maintained until the system is accepted by the Owner. Refer to site plan for the size of absorption area. See site plan for flag locations.

(2) Prior to actually beginning construction of the system, carefully locate, lay out and identify disposal site, manifolds and the lateral panel piping networks, using a tripod mounted engineer's leveling instrument to accurately establish each lateral along a level contour. Note: Lateral panel runs which conflict with cut-off-in-place stumps or trees shall "snake" by with a 12" minimum trench clearance and then continue along its projection run. (The 8' minimum trench separation must be maintained.)

(3) Excavate for and construct curtain drain (if shown on the plan.)

(4) Excavate lateral network trenches 24" wide by 28" deep (see detail). Remove loose soil from bottom of trench.

(5) Install sand in bottom of the lateral trench to the proper depth of approximately 22" below finish ground level.

(6) Follow the manufacturer's guidelines for installing the T & J Panel System.

(7) All joints in lateral and the manifold piping shall be water tight connections to insure that the only source of the water seepage from the system is through the orifices as designed. See layout and details. Carefully install manifold and lateral network according to the attached designed layout. A larger diameter protective sleeve with cap or approved box with lid shall be placed over the turned up lateral and positioned level with the ground surface (so as not to be damaged by mowing machine.)

(8) Carefully backfill manifold trenches to finish grade with clean (debris free earth (no stone).

(9) Leave absorption area with a raked surface, ready for grassing.

(10) The installation contractor shall stabilize the area of construction by planting and seeding with Kentucky 31 tall fescue and shall keep the planted area watered and mulched until such time that a hardy stand of grass is established. (See Seeding Specification.)

(11) SEPTIC TANK The septic tank shall consist of a 1,500 gallon capacity, reinforced, precast concrete tank with full baffle and shall have easy access to each chamber from ground level for checking and pumping. The first chamber of the septic tank shall consist 2/3 to 3/4 of the volume of the total tank and the baffle shall contain a horizontal opening across the tank at about midway its height. The outlet of the tank shall have an effluent filter as specified herein. Locate the septic tank at such height as to provide approximately 8" of cover soil over top of the tank. The tank shall have a DHS approved access with lid over the filter.

(12) SLOTTED-FILTER A Zabel A300 micro-filter, with 1/32" infiltration shall be installed in lieu of the outlet tee in the septic tank. The filter shall be manufactured by ZABEL or approved equal, Zabel Environmental Technology, 10409 Watterson Trail, Louisville, KY, 40299, 1-800-221-5742, Fax 502-267-8801 Fax.

(13) PUMP TANK shall consist of a 1,500 gallon capacity, reinforced, precast concrete tank without baffle and shall have a concrete mounting pad (concrete blocks) for accommodating the pump. Access shall be provided for entry into the tank directly over the pump location, and extending 6" above final grade or as called for on the plan. Use a DHS approved tank riser with approved lid. The tank shall be supplied by a manufacturer approved by DHS and bear the manufacturer's serial number. The tank shall be positioned to allow gravity flow of the effluent from the septic tank. Immediately down stream from the pump shall be an approved effluent filter system.

All tanks shall be tested for water tightness by an approved method such as 24 hour water tightness test with maximum allowable leakage not to exceed ½ inch per 24 hours. Testing shall begin after the water level in the tank has stabilized. Any leaking shall be corrected and the tanks retested.

Once testing of the tank has been completed, the tank shall be backfilled in lifts with well compacted, debris free earth to a level which directs surface water away from the tanks. Tank access holes shall be installed and grouted water tight and the earth raked smooth for

grassing. Grade over the tank shall be sloped to prevent surface water from entering the tank through the access.

(14) PIPING All piping and fittings shall be Schedule 40 PVC except LPP piping in the panels shall be PR160 PVC. Glue for all PVC pipe joints shall be as recommended by the pipe manufacturer.

(15) PUMP The submerged pump shall be Model ME 50 manufactured by F. E. Meyers Co., Ashland, OH, or equal, ½ hp, 230v/1ph; capable of pumping 35 gallons per minute at a 28.6' head.

(16) PUMP CONTROL PANEL: The pump shall be powered by a simplex control panel with standard features including: a corrosion resistant enclosure, an aluminum back panel, silver cadmium contacts (IEC Contactor), an IEC motor starter, a 100VA control circuit transformer, a main circuit breaker, a 1 amp control circuit fuse, a 1 amp alarm circuit fuse, a Hand-Off-Auto switch, an alarm test switch, a pump run light, a seal leak light, terminal blocks for pump and float connections, a ground lug, an alarm light and an alarm buzzer. Panel shall be equal to Myers CE 21510 NEMA 4X.

(17) EFFLUENT FILTER The effluent filter shall be connected directly to the pump outlet. The filter shall be equal to the GAG Sim Tech Filter, Boyne City, Michigan, 49712, telephone 1-888-999-3290. The contractor shall furnish the following with the filter: STF 100 Filter, an STF 102 Filter Screen, an STF 103 Wrench, an STF 104 Sock, an STF 101 Pressure Alarm Switch and an STF 107 Tank Alert. Filter can be obtained through Confederate Sales Associates, 8205 Brooknell Terrace, Charlotte, NC 28270, telephone 704/ 364-1372.

(18) PUMP ON-OFF water level control switch shall by Myers, Model MLC-20, mercury switch, connected to the simplex pump control.

(19) HIGH WATER ALARM SWITCH shall be mounted to a float tree and shall be equal to Myers, model FLCA-30, mercury switch, red colored ball with support bracket.

(20) FLOAT TREE The "float tree" can be constructed of an 1-1/2" diameter PVC pipe anchored in a gallon bucket filled with concrete and a 2" diameter PVC sleeve over the 1-1/2" pipe to which the floats are attached. The PVC pipe shall be long enough to reach from about the tank extending into the access riser. The "tree" allows easy and quick access to the float switches for adjustment. Float switches shall be mounted to the tree with non-corrosive clamps furnished by the float manufacturer. Float shall be positioned to not tangle.

(21) PUMP INSTALLATION: Details of pump installation are shown on the plan. The pump must be placed on two concrete blocks next to each other on the bottom of the tank. This prevents the pumping of any solid particles which can clog the system. A piece of nylon rope or other non corrodible material should be attached to the pump and to the outlet pipe for lifting the pump in and out of the chamber. (The PVC outlet pipe is too fragile to support the pump.)

The pump outlet pipe should be connected to the supply manifold with a threaded PVC union (or dresser coupling) to allow quick removal. A check valve shall also be installed in the supply line (within the pump chamber). If effluent will be pumped down hill, a 3/16" siphon-breaker hole must be drilled in the bottom of the supply line before it leaves the pump tank. This breaks any vacuum in the system and prevents the inadvertent siphoning of effluent out of the tank. This hole is very important.

(22) ELECTRICAL CONNECTIONS: The pump and high water alarm must be placed on separate electrical circuits. (If the pump circuit fails, the alarm must still be able to operate.) Follow the manufacturers' recommendations for the proper fuses or circuit-breakers. All electrical connections must be made outside the pumping chamber. Power cords from the pumps and

controls shall extend to a NEMA approved outdoor control panel mounted outside of the pumping chamber. There are to be no junction boxes inside the tank. Power and control conductors shall be conveyed through 2" conduit with Seal-off.

Wiring between the pumping chamber and the house should meet State and local code requirements. Conductors from the tank to the control panel shall be conveyed through 2" conduit with Seal-off.

(23) A "HOME OWNER'S WARNING SIGN" shall be located within the house to inform the owner of what action to take in case the "High Water Alarm" is activated. This sign shall contain the name, address, telephone number, and emergency telephone number of the person to contract immediately upon malfunction of the system.

(24) PROPER OPERATION CHECK: After all components have been installed and connected, the system should be checked for proper operation. With electrical power turned off, fill the pumping chamber with water from a garden hose (or allow effluent to accumulate) until the liquid rises to the level of the high-water alarm float. Turn on the electrical power. The alarm light should go on in the house, and the pump should start operating. The alarm light should go off when the liquid level falls below the high-water float. The pump should turn off when the liquid reaches the lowest float control. Be sure the pump is still completely submerged.

(25) PRESSURE HEAD ADJUSTMENT: The pressure head must be adjusted to match that specified in the design. The pressure head is measured as the height liquid will rise above the turn-up elbow when the pump is running. To adjust the head:

(a) Glue a 4' length of pipe (preferably clear) to a threaded adapter that will screw onto the turn-up adapters. (Call this the "test tube".)
(b) Replace the turn-up cap with the "test tube".
(c) Turn the power on to allow liquid to rise in the "test tube".
(d) Adjust the ball valve at the head of each lateral until the effluent reaches the desired height in the "test tube". Remember to include the distance below the ground surface to the lateral line when measuring the height. The pressure head should be 3' for each line. This is the height above the lateral the liquid should be in the temporary "test tube". Continue to adjust valves until all "test tubes" have an equal amount of liquid.

(26) FINAL LANDSCAPING: After the T & J System is installed, the following should be checked to insure that the system will not be overloaded with excess rain water and run off:

(a) The distribution field is shaped to shed rain water and is free of low area.
(b) Gutter and downspout drains are directed away from the system.

Any problems should be corrected before approving the system.
Finally, the entire area should be planted with grass according to specifications.

VII. OPERATION AND MAINTENANCE:

The system is classified as a Type IV e. The Regulations require that the system to be managed by a certified operator. Operating, Maintenance and Inspection procedures shall be conducted by the Operator on a timely basis. Procedures shall include but not be limited to the following:

- Minimum inspection/maintenance frequency shall be conducted on a timely and routine basis.
- Septic system shall be pumped every 4 years or when solids accumulate to a the volume of the tank.
- Effluent filters shall be cleaned on routine basis as required.
- The PPBPS system should be observed by the regulatory agency one, three, six and nine months after initial installation, and every 3 years. An inspection report should be completed and filed each time the system is checked.
- All laterals shall be pressure back-washed annually with clean water.
- Pressure head for upper and lower laterals should be checked and adjusted one month after installation and annually thereafter.
- All piping, fittings turn-ups and valve boxes shall be checked annually for damage and/or proper operation and corrections made immediately.
- The property should be inspected to insure all surface water is deflected away from the fields and tank. Any ponding of surface water should be corrected.
- Grasses shall be mowed and maintained and any erosion shall be corrected promptly.
- The nitrification field area shall be checked for leakages, blowouts or malfunction, indications of damp or mushy areas compared to surrounding area or evidence of noticeable odor of sewage. Repairs shall be made immediately.
- The pump electrical should be checked to insure tight, clean connections with no corrosion and proper operation.
- Pump switches shall be checked for free operation and proper level set.
- Check septic tank and pump tank for evidence of damage or leakage. Check the quality of effluent including grease and sludge accumulation.
- On a scheduled basis, clean and inspect Biofilter in the septic tank and the sock filter in the pump tank. When washing the filter, debris must be sprayed directly back into the septic tank and not onto the lawn.
- The management entity in conjunction with the local Health Department shall establish an operation and maintenance program and procedure based on experience obtained from similar installations.

DESIGN SPECIFICATIONS - T & J PANEL SYSTEM
At 7000 Kilpeck Court
Charlotte (Mecklenburg County), NC

Daily design waste flow:	480 gpd
Septic tank size:	1,500 gal. (2 compartment)
Septic tank filter:	Zabel A300 filter
Pumping tank size:	1,500 gal.
Effluent loading rate:	0.3 gpd/sf (50% decrease with PPBPS)
Total linear feet and diameter:	315 ft. of 1-1/4" dia. PVC of laterals and T & J 16" high panels (allow 4.5 ft per panel)
Total length and diameter of supply manifold: 40 PVC	100 LF – 2" dia. & 60 LF-1½" dia. Schedule
Number and length of laterals:	2 - with 8 panels = 16 2 - with 9 panels = 18 3 - with 12 panels = 36 **Total Panels = 70**
Number of panels:	70
Hole size:	5/32"
Hole spacing:	1 hole per panel
Total number of holes:	70
Flow per hole at 3' head	0.50 gpm
Flow rate through the system:	35 gpm
Elevation head:	21.5'
Pressure head:	3'
Friction head:	4.1'
Total head:	28.6'
Pump requirements:	35 gpm at 28.6' use Myers 1/2hp ME50 pump
Force main filter:	GAG Sim/Tech Filter w/Sock and Pressure Alarm
Dosing volume:	252 gal.
Depth of water pumped per dose:	8.06"
Pump run per dose:	7.2 min.
Check valve:	yes
Siphon break hole:	yes

SEEDING SPECIFICATIONS

SLOPES 3:1 or FLATTER

1. Apply agricultural lime at the rate of 90 lb/1000 sf.
2. Apply 10-10-10 commercial fertilizer at the rate of 20 lb/1000 sf.
3. Seed in accordance with the following schedule and application rate:

DATE	TYPE	PLANTING RATE
Aug 15 - Nov 1	Tall Fescue	200 lb/ac or 7 lb/1000 sf
Nov 1 - Mar 1*	Tall Fescue and	200 lb/ac or 7 lb/1000 sf
	Abruzzi Rye	25 lb/ac or 2 lb/1000 sf
Mar 1 - Apr 15	Tall Fescue	200 lb/ac or 7 lb/1000 sf
Apr 15 - Jul 30	Hulled Common or Bermuda	30 lb/ac or 1 lb/1000 sf
Jul 15 - Aug 15	Tall Fescue and	200 lb/ac or 7 lb/1000 sf
	Brown Millet or	35 lb/ac or f lb/1000 sf
	Sorghum-Sudan Hybrids	30 lb/ac or : lb/1000 sf

4. Mulch with straw applied at the rate of 75-100 lb/1000 sf.

* Heavily mulched during January - March period.

SLOPES GREATER THAN 3:1 TO 2:1

1. Apply agricultural lime at the rate of 90 lb/1000 sf.
2. Apply 10-10-10 commercial fertilizer at the rate of 20 lb/1000 sf.
3. Seed in accordance with the following schedule and application rate.

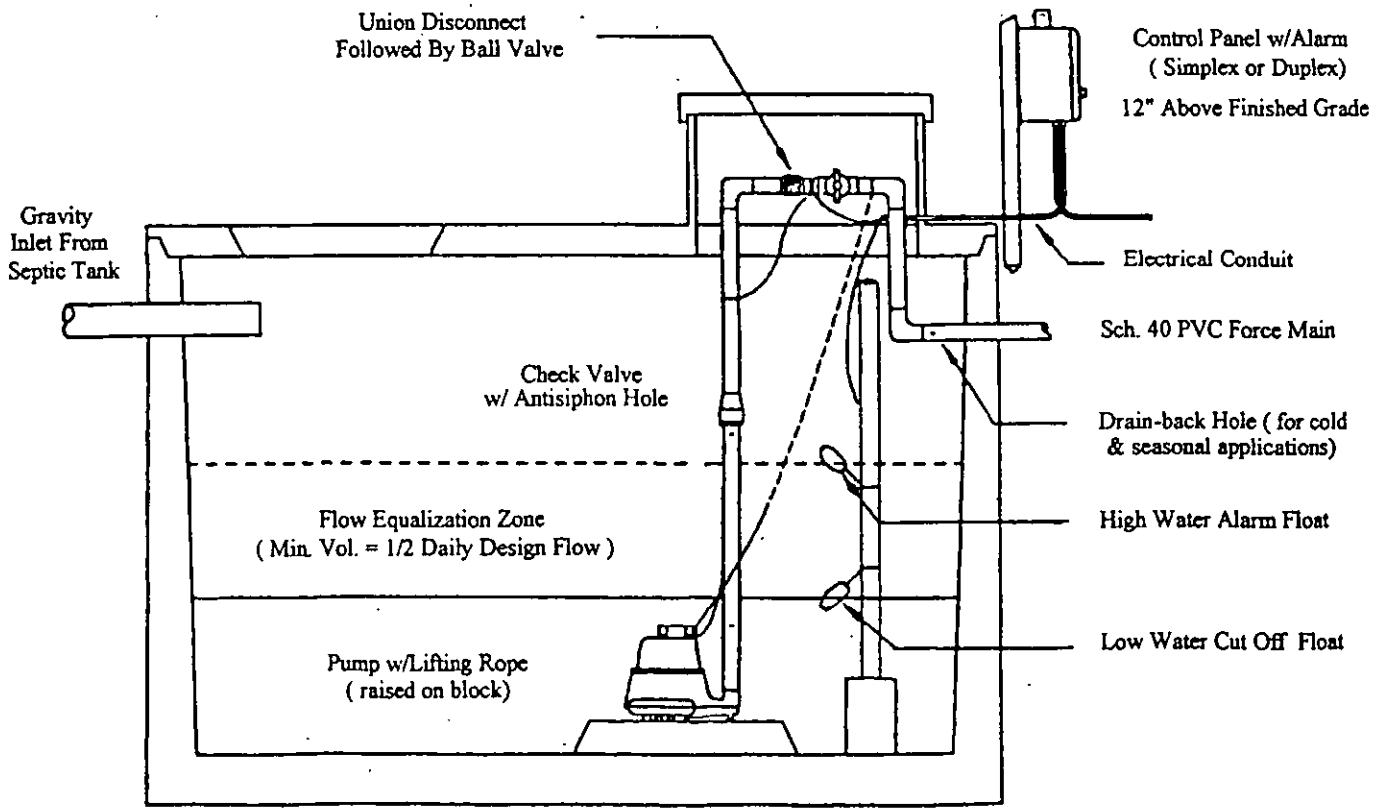
DATE	TYPE	PLANTING RATE
Mar 1 - Jun 1	Sericea Lespediza (scarified) &	50 lb/ac or 11 lb/1000 sf
Mar - Apr	Add Tall Fescue or	150 lb/ac or 32 lb/1000 sf
Mar - Jun	Add Weeping Lovegrass	5 lb/ac or c lb/1000 sf
Jun - Sep 1**	Tall Fescue and	60 lb/ac or 12 lb/1000 sf
	Brown Top Millet	35 lb/ac or f lb/1000 sf
	Sorghum Sudan Hybrids	30 lb/ac or : lb/1000 sf
Sep - Mar 1	Sericea Lespediza (unhulled-unscarified)	70 lb/ac or 1: lb/1000 sf
	Tall Fescue	150 lb/ac or 32 lb/1000 sf
	Millet or Sudan	20 lb/ac or 2 lb/1000 sf

** Temporary - Reseed September 1 at recommended rates.

4. Mulch with 3" straw applied at the rate of 50-90 lb/1000 sf and anchor with asphalt emulsion tack coat applied at the rate of 3-5 gal/1000 sf or 200-300 gal/ac.

TYPICAL PUMP TANK DETAIL

1. Pump tank shall have an access manhole extending at least 6 inches above finished grade.
2. Pump and control circuits shall be provided with manual circuit disconnects within a watertight, corrosion-resistant, outside enclosure (NEMA 4X or equivalent) adjacent to the pump tank, securely mounted at least 12 inches above finished grade. The pump(s) shall be manually operable without requiring the use of special tools or entrance into the tank for testing purposes. Conductors shall be conveyed to the disconnect enclosure through waterproof, gasproof, and corrosion-resistant conduits, with no splices or junction boxes provided inside the tank. Wire grips, duct seal, or other suitable material shall be used to seal around wire and wire conduit openings inside the pump tank and disconnect enclosure.
3. The pump tank shall have a properly functioning high-water alarm. The alarm circuit shall be supplied ahead of any pump overload and short circuit protective devices. The alarm shall be audible and visible by system users and included in the pump and control enclosure (Simplex or Duplex Control Panel).
4. Float switch for the high water alarm shall be set no more than 3 inches above the high water level of pump cycle.
5. Pump floats should be set so that level of water at end of pump cycle is above the top of the pump.
6. Float switch tie downs to be made of corrosion resistant material, no tape or metal hose clamps.
7. Pump discharge shall have a check valve.
8. Anti-siphon hole (three-sixteenth inch) is required between the pump and the check valve.
9. Watertight testing will be required on two piece pump tanks.



ACCOM A220 - 300 KILPECKET MECH 60 1-25-00

4 BR RES @ 120 = 480 GPD

LTAR 0.3 G/SF/D

$\frac{480}{0.3} = 1600/_3 = 533$ LF PIPPS x 50% = 267 LF

$\frac{267 \text{ LF}}{45'/\text{PNL}} =$ 59 PANELS MIN

USE 1500 GAL SEPTIC TANK W/ 1/32" SLOTTED FILTER

USE 1500 GAL PUMP TANK W/ SIMTEC FILTER

USE T&J 16" PANELS: 46"/PNL + 6" SPACE = 52"/PNL

5/32" ϕ ORFICE @ 1/PNL: FLOW 0.5 GPM @ 3' HD

70 PANELS @ 0.5 GPM = 35 GPM FLOW

OPERATING HEAD —	3.0'
ELEV HD 114.5 - 100 - 7	21.5
35 GPM FRICTION (2") $\left(\frac{2.4}{100}\right)$ 100 x 1.2	2.9
18 GPM FRICTION (1½") $\left(\frac{2}{100}\right)$ 40' x 1.2	1.2
TDH =	28.6 F

PUMP REQ'D: 35 GPM @ 28.6 TDH

USE MYERS ME 50 - ½HP 230V/1PH W/ SIMPLEX CONTROL PANEL

DOSE VOL: 70 x 3.6 G/D = 252 G/DOSE

DRAW DOWN: $\frac{252}{1500}(48) =$ 8.06"

PUMP RUN TIME: $\frac{252 \text{ G}}{35 \text{ G/M}} =$ 7.2 MIN

22-141 50 SHEETS
22-142 100 SHEETS
22-144 200 SHEETS
AMPAD

ZABEL Filters Out Perform *All* Others!

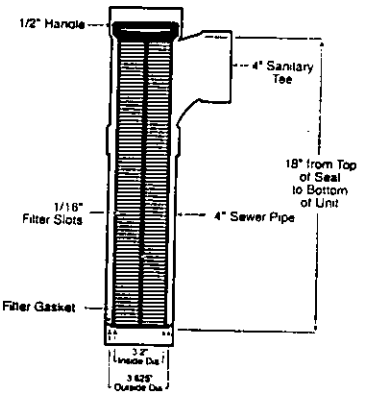
A-1800 Residential

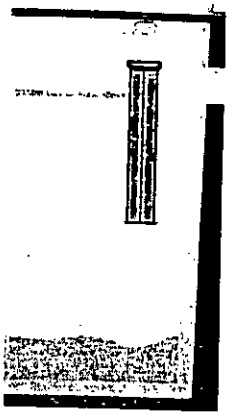
LOWER COST: Lower cost than any other filter or screen.

FINER FILTRATION: 61 Lineal feet of 1/16" filtration.

EASIER INSTALLATION: Fits any 4" outlet T & pipe.

FLOW RATE: 800 GPD





U.S. Patent 5,382,357
5,482,621
Canadian Patent 2,135,937

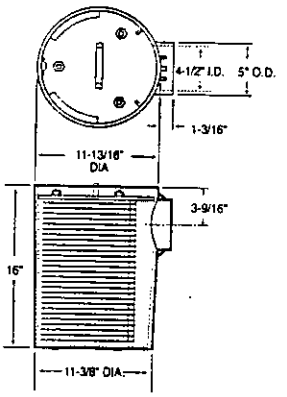
A-100 Commercial & Residential

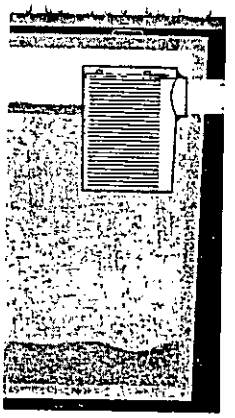
BETTER PROTECTION: 198 Lineal feet of 1/16" filtration.

EASIER TO SERVICE: Reusable cartridge removes easily for cleaning.

PROVEN EFFECTIVE: 30 years of successful performance.

FLOW RATE: 3,000 GPD





U.S. Patent 4,710,295

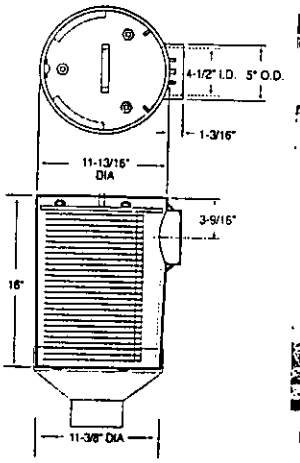
A-300 Industrial & Commercial

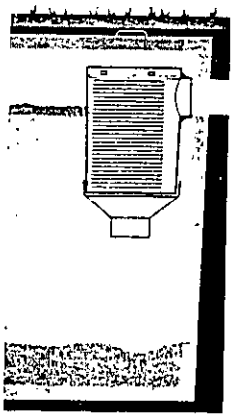
100's OF APPLICATIONS: Filters grease, hair, lint, flour, wastewater and more.

VERY BEST FILTRATION: 205 Lineal feet of 1/32" filtration.

HIGHEST EFFICIENCY: Removes up to 90% grease & solids and 45% BOD.

FLOW RATE: 3,000 GPD





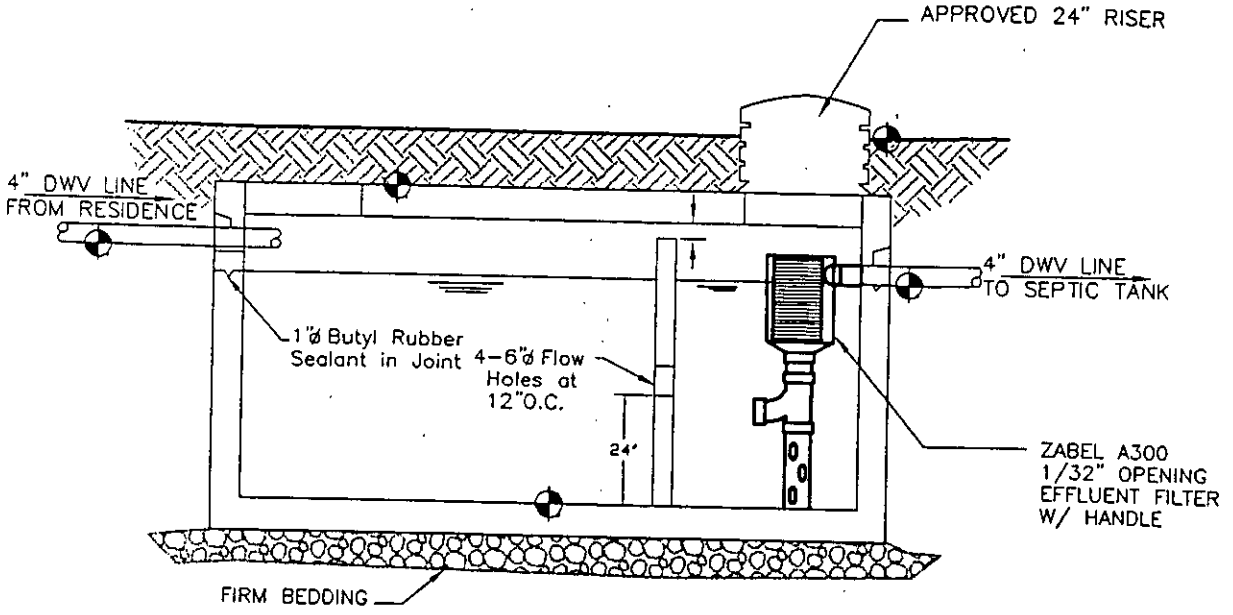
U.S. Patent 4,710,295

For More Information Contact:

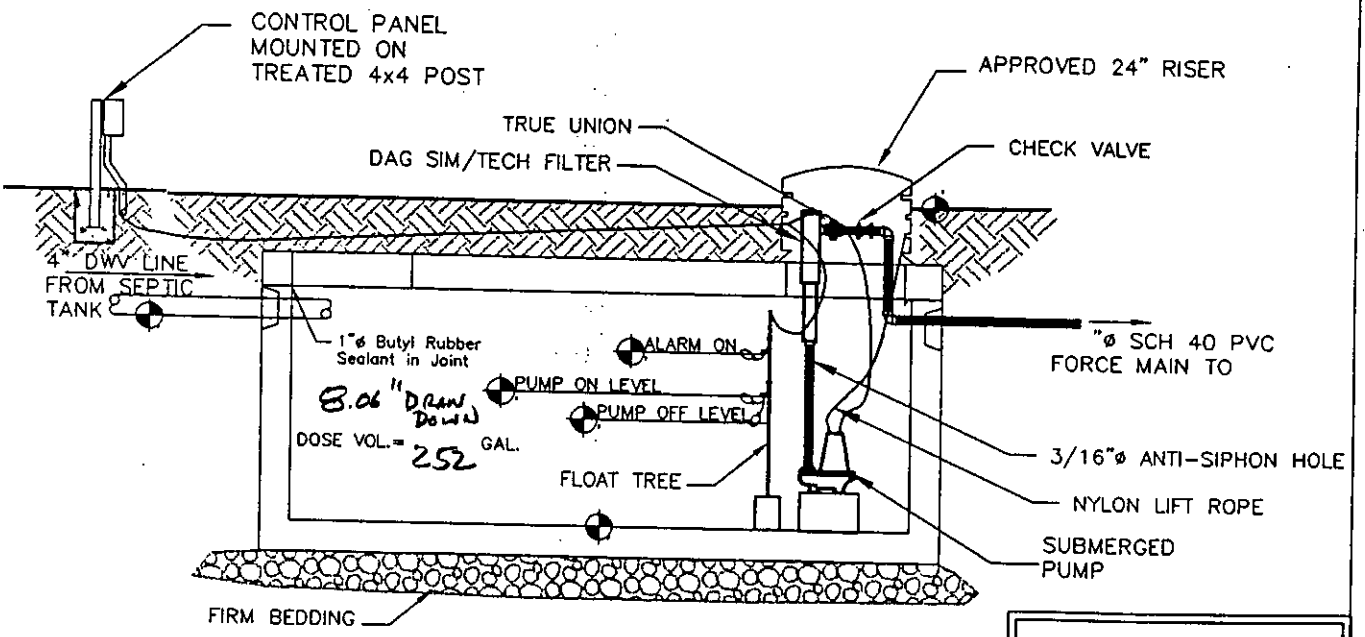
ACCOMAZZO

Manufactured by Zabel Environmental Technology • 10409 Watterson Trail • Jeffersontown, KY 40299

Recycled Paper



1 SECTION VIEW- DEH APPROVED 1500 GAL SEPTIC TANK
N.T.S.

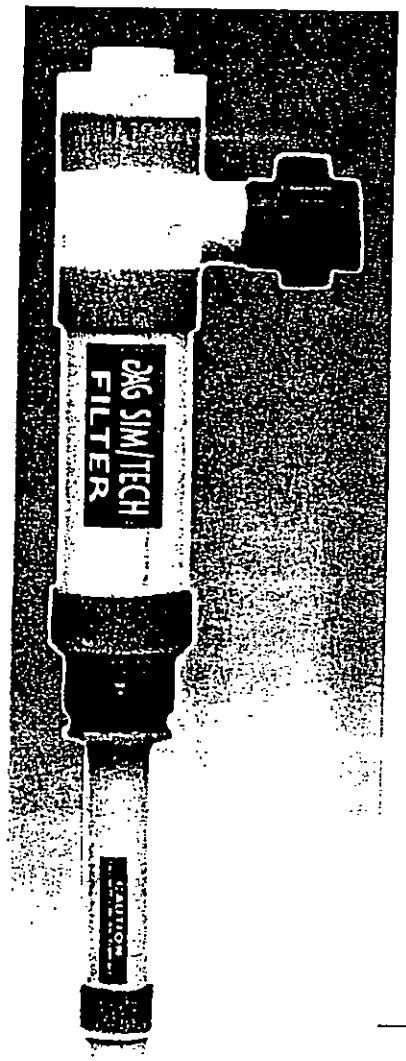


2 SECTION VIEW- DEH APPROVED 1500 GAL PUMP TANK
N.T.S.

1-25-00

Publication or reuse of this drawing must be with the written consent of the Architect/ Engineer

SCALE:	ACCOMAZZO	B.K. BARRINGER & ASSOCIATES, P.A.	REVISIONS
DATE:	1500 GAL SEPTIC TANK &	ARCHITECTURE/PLANNING/ENGINEERING	
DRAWN BY: JSI	1500 GAL PUMP TANK	SUITE 104 WESTFIELD CENTER	
CHK'D. BY: BKB	Co., North Carolina	125 EAST PLAZA DRIVE	
DATE OF ISSUE:		MOORESVILLE, NC 28115	
		PH:704-664-7888 FAX:664-1778	





The Sim/Tech Filter, with its unique design and mounting location, allows the filtering screen to be scrubbed while in operation providing maximum maintenance intervals with unmatched performance capabilities.

The filter screen is a type 304 S.S. with .062 diameter holes. It is 3 inches in diameter and 18 inches long with a 69.52 square inch open area. This large 41% open area allows the filter to pass 83.8 gallons per minute at 1 psi. With features like these even a partially clogged screen will keep the system well protected and working properly.

This performance product assures quality effluent with lower BOD and TSS, not directly but indirectly, by assuring your pressurized system functions at 100% efficiency.

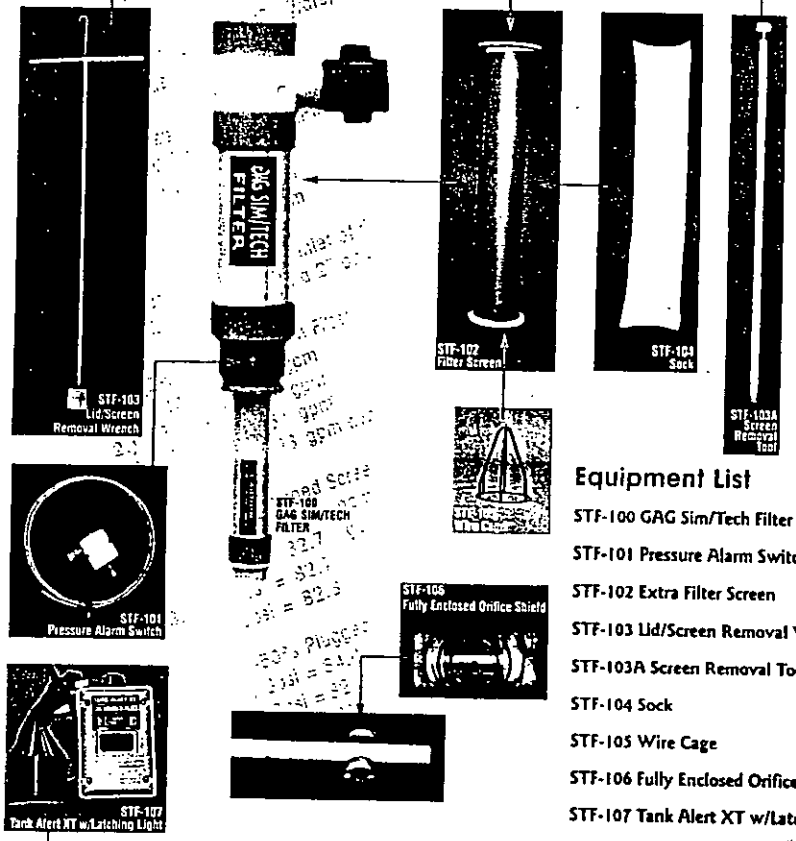
Engineers and designers now have the opportunity to offer a simple safeguard to meet performance standards now and in the future.

- Easy installation
- Low maintenance
- Economical
- Extends life of drainfield
- Improves effluent quality by assuring even distribution
- Ideal for effluent submersible pumps
- Can be used in both residential and commercial applications

An Innovative **Solution**

Engineered *For Performance*





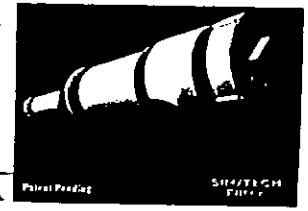
Equipment List

- STF-100 GAG Sim/Tech Filter
- STF-101 Pressure Alarm Switch
- STF-102 Extra Filter Screen
- STF-103 Lid/Screen Removal Wrench
- STF-103A Screen Removal Tool
- STF-104 Sock
- STF-105 Wire Cage
- STF-106 Fully Enclosed Orifice Shield
- STF-107 Tank Alert XT w/Latching Light

Restrictions and Specifications

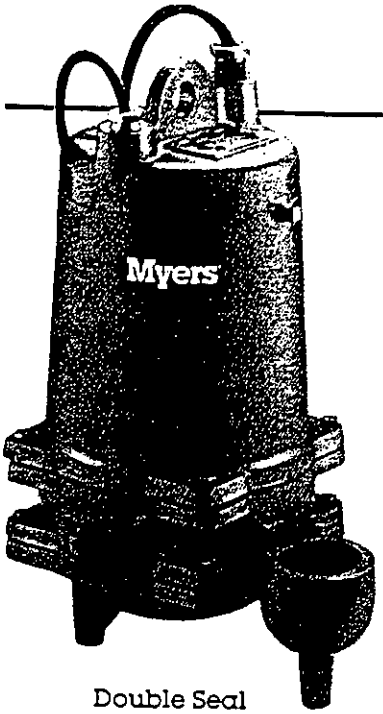
Total Head Loss .5002ft. or .21psi
Flow Rate with a Clean Screen = 120.672 GPD at 1psi
Flow Rate with a 95% Plugged Screen = 114.912 GPD at 1.8psi

Pump chamber detailed drawings and/or CAD disks for the Sim/Tech Filter are available upon request, at no cost, to help aid in your blueprint and drafting needs.

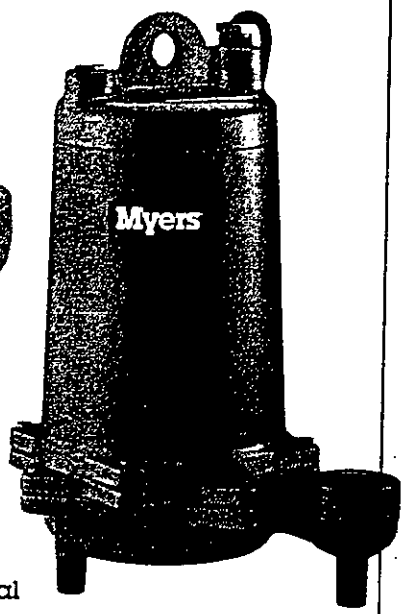


ME SERIES

1/3 through 1-1/2 HP
Effluent Pumps



Double Seal



Single Seal

THE MYERS ME SERIES EFFLUENT PUMPS ARE DESIGNED SPECIFICALLY FOR TODAY'S EFFLUENT PRESSURE DISTRIBUTION MOUNDS, TRENCHES AND HIGH FLOW DRAINAGE APPLICATIONS. The ME Series effluent pumps with their efficient two vane, enclosed impellers, provide the ideal performance for optimum dosing. ME Series pumps are constructed of only corrosion resistant materials like cast iron, stainless steel and thermoplastics to assure that they will perform for years to come in the harsh effluent environment and drainage applications. For more information, call your Myers distributor today or the Myers Ashland, Ohio sales office at 419/289-1144.

ADVANTAGES BY DESIGN

IDEAL FOR USE IN MOUND AND TRENCH PRESSURE DISTRIBUTION SYSTEMS

- High efficiency, two vane, enclosed impeller provides ideal performance for most efficient dosing.
- Impeller passes full ¾ inch solids.
- Enclosed impeller design eliminates possibility of jamming or corrosion between impeller and volute.

DURABLE MOTOR WILL DELIVER MANY YEARS OF RELIABLE SERVICE

- Oil-filled motor for maximum heat dissipation and constant bearing lubrication.
- High torque, permanent split capacitor (PSC), single phase motors. No starting switches or relays to wear out.
- Optional seal leak probe warns of seal leak condition. (Dual seal motors only.) Helps prevent costly motor damage.
- Motors have on winding current and temperature sensitive overload. (Single phase only.)

THE ME SERIES EFFLUENT PUMPS ARE DESIGNED FOR YEARS OF MAINTENANCE FREE OPERATION

- Volute seal ring is replaceable. Restores pump to original performance if wear should occur.
- Motor is held in place by 4 screws. Easily removed if service is ever needed.

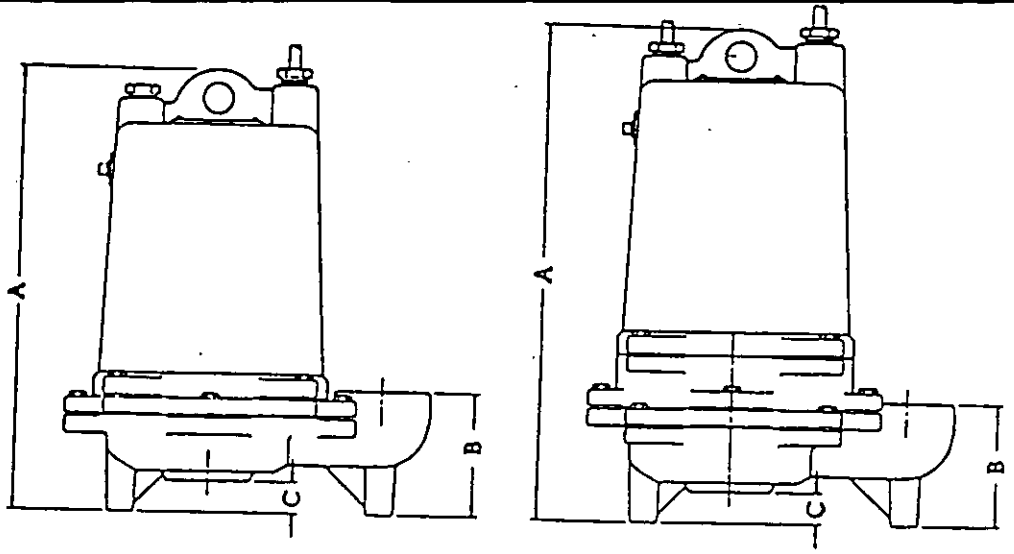
PRODUCT CAPABILITIES

Capacities To	120 GPM	454 LPM
Heads To	98 ft.	29.8 m
Max. Spherical Solids	¾ in.	19 mm
Liquids Handling	domestic effluent & drain water	
Intermittent Liquid Temp.	up to 140° F	up to 60° C
Motor Electrical Data	1/3 & 1/2 HP, 115 volts, 1 ph 1/3 to 1-1/2 HP, 230 volts, 1 ph 208, 230, 460, 575 volts, 3 ph oil-filled, permanent split capacitor type, 1 ph, 3450 rpm, 60 Hz	
Motor Insulation	Class B (105°C)	
Third Party Approvals	Pending	
Acceptable pH Range	6-9	
Specific Gravity	.9-1.1	
Viscosity	28-35 SSU	
Discharge, NPT	2 in.	50.8 mm
Min. Sump Dia. Simplex Duplex	24 in. 36 in.	61 cm 91.4 cm

Construction Materials	
Motor Housing, Volute	cast iron, Class 30, ASTM A48-76
Enclosed Two Vane Impeller Standard Optional	10% glass-filled polycarbonate bronze
Impeller Wear Ring	304 SST
Volute Sealing Ring	Buna-N
Shaft	416 SST
Power Cord 1/3 & 1/2 HP, 1 Ph 3/4 - 1-1/2 HP, 1 Ph All 3 Ph	 20 ft. 16/3 SJOW/SJOW-A 20 ft. 14/3 SJOW/SJOW-A 20 ft. 14/4 SOW/SOW-A
Shaft Seals Standard Optional Opt. Lower	single carbon & ceramic tandem carbon & ceramic tungsten carbide
Fasteners	300 Series SST

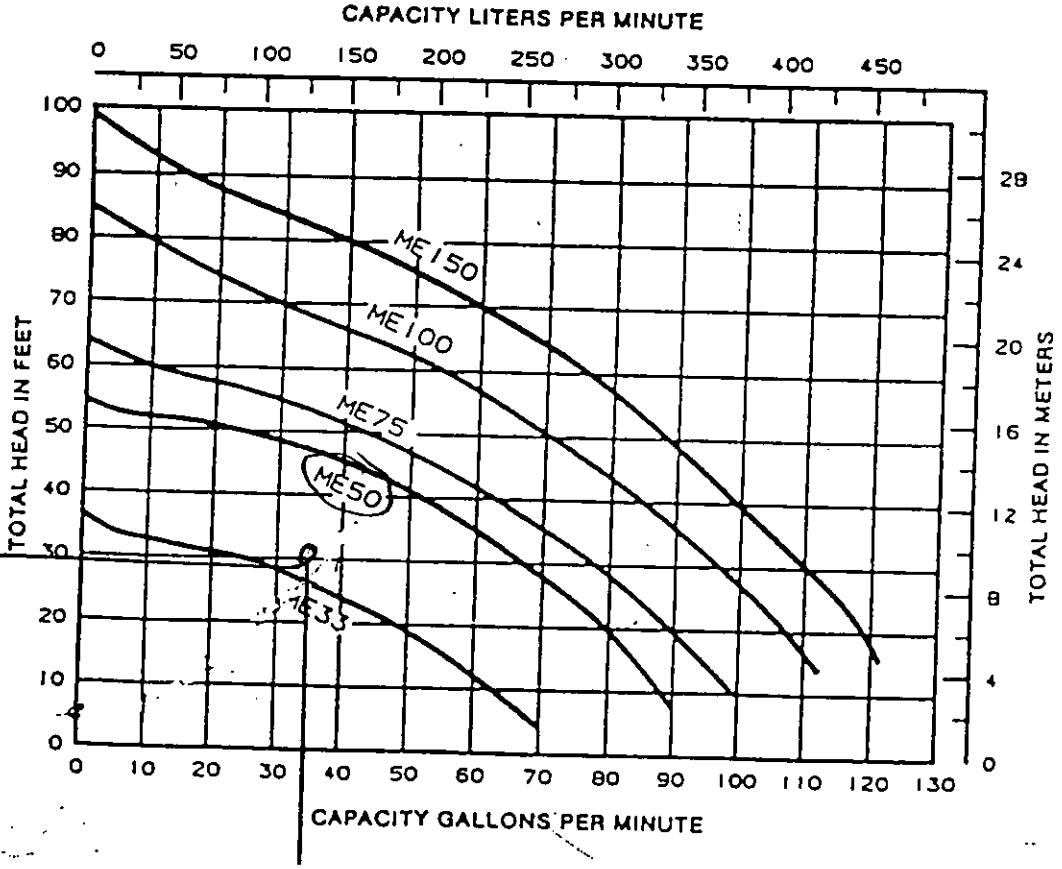
WHERE INNOVATION MEETS TRADITION

Myers®



Model Series	Inches (millimeters)			
	A	B	C	F
ME33S & ME50S	14.7 (373)	4.09 (104)	1.03 (26)	12.13 (308)
ME33D & ME50D	16.5 (419)	4.09 (104)	1.03 (26)	12.13 (308)
ME75S, ME100S, ME150S	16.8 (427)	4.0 (102)	1.06 (27)	12.5 (318)
ME75D, ME100D, ME150D	18.6 (472)	4.0 (102)	1.06 (27)	12.5 (318)

ORMANCE CURVE



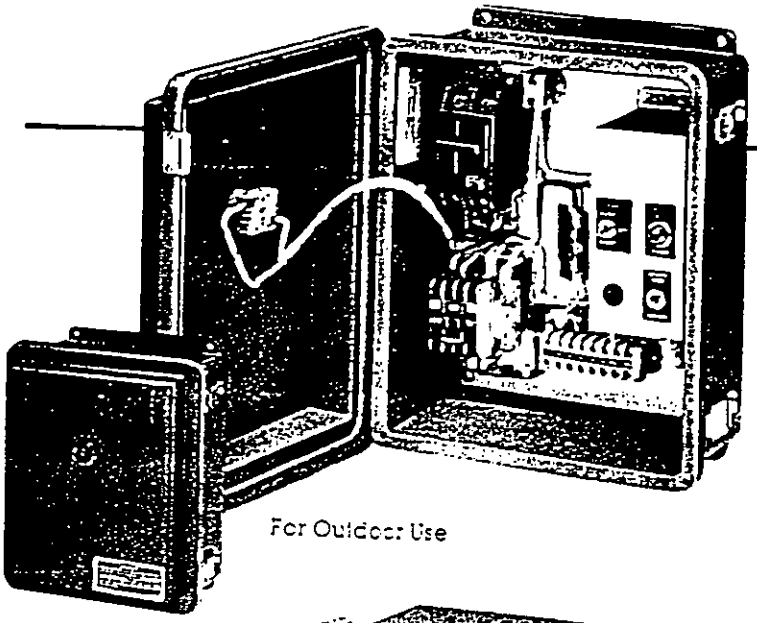
28.6 TDH.

35 GPM

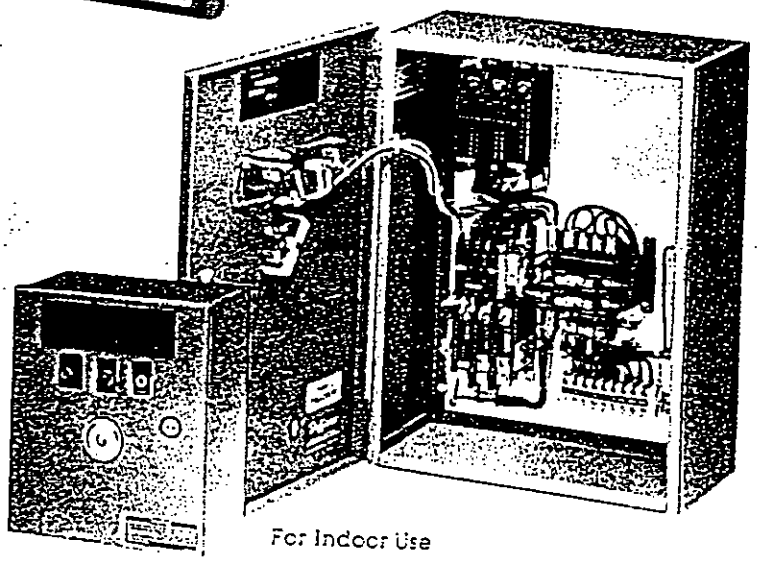
ACCOMAZZO

CE Simplex Electrical Control Panels

For 1/4-2 HP S, SS, SR, WHV-5, WHR, WHRE, WHRH, ME, E Pumps



For Outdoor Use



For Indoor Use

MYERS HAS RE-ENGINEERED THE CONTROL PANEL LINE FOR IMPROVED DURABILITY, RELIABILITY AND ECONOMY. CAD flexibility enhances our response time to help us better meet your control panel requirements. Contact your Myers distributor, or the Myers Ohio sales office at 419/289-1144 for more details.

ADVANTAGES BY DESIGN

QUALITY ELECTRICAL COMPONENTS ASSURE RELIABLE, AUTOMATIC PUMP OPERATION

- IEC horsepower-rated contactors (single phase) and motor starters (three phase) rated at over 1 million cycles.
- Three phase starters with ambient-compensated quick-trip overloads for maximum motor protection.
- Designed for use with three standard mercury float switches, off-on-alarm. (Not included with panel, please order separately.)

CORROSION RESISTANT FOR LONG LIFE

- Outdoor panels of weathertight NEMA 4X fiberglass with aluminum back panel.
- Indoor panels of enamel-coated galvanized steel.

MEETS NEC AND UL STANDARDS FOR SAFETY

- UL-approved panel designs (label installed only on request).
- 100 VA control circuit transformer with primary fusing on 3-phase panels.
- Main circuit breaker.

SIMPLEX PANEL MODELS

WHERE INNOVATION MEETS TRADITION

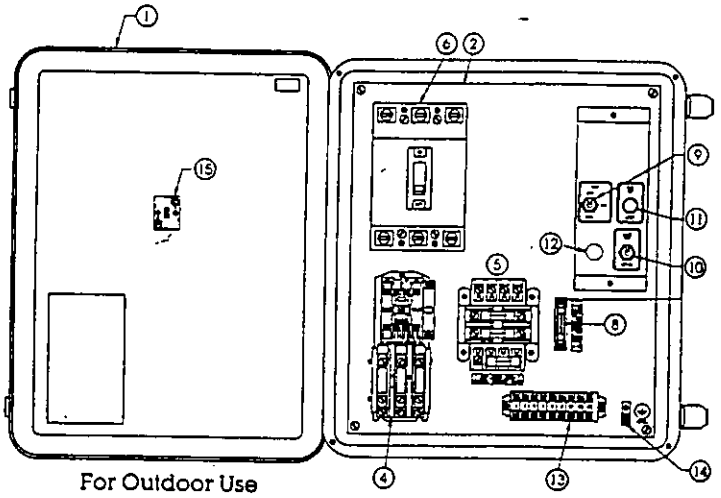
CATALOG NUMBER	ENCLOSURE	HP	PHASE	VOLTAGE	USED WITH PUMP								
					S	SS	SR	WHV-5	WHR	WHRE	WHRH	ME	E
CE-11SW	NEMA 4X	1/4-1/3	1	115	X	X	X	X	X	X	X	X	X
CE(DS)-11SW	NEMA 4X	1/2	1	115					X	X	X	X	
CE-21SW	NEMA 4X	1/2-2	1	230	X	X	X	X	X	X	X	X	X
CE(DS)-21SW	NEMA 4X	1/2-2	1	230					X	X	X	X	
CE-23SW	NEMA 4X	1/2-2	3	208/230					X	X	X	X	
CE-43SW	NEMA 4X	1/2-2	3	460					X	X	X	X	
CE-11S	NEMA 1	1/4-1/3	1	115	X	X	X	X	X	X	X	X	X
CE(DS)-11S	NEMA 1	1/2	1	115					X	X	X	X	
CE-21S	NEMA 1	1/2-2	1	230	X	X	X	X	X	X	X	X	X
CE(DS)-21S	NEMA 1	1/2-2	1	230					X	X	X	X	
CE-23S	NEMA 1	1/2-2	3	208/230					X	X	X	X	
CE-43S	NEMA 1	1/2-2	3	460					X	X	X	X	

NOTE: Catalog Numbers with (DS) are for double seal pump, panel has seal leak light.

Myers®

CE Simplex Electrical Control Panels

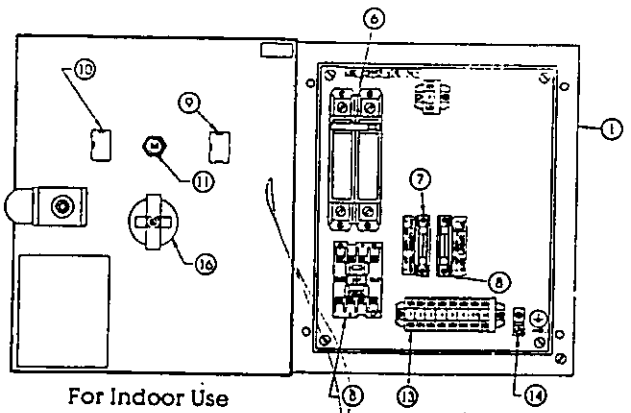
For 1/4-2 HP S, SS, SR, WHV-5, WHR, WHRE, WHRH, ME, E Pumps



For Outdoor Use

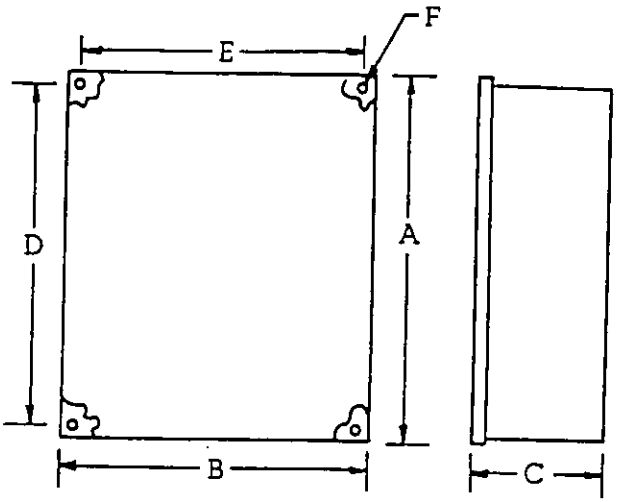
STANDARD PANEL FEATURES

1. **CORROSION-RESISTANT ENCLOSURE** NEMA 4X fiberglass (outdoor). NEMA 1 steel (indoor)
2. **ALUMINUM BACK PANEL** NEMA 4X only
3. **IEC CONTACTOR** Silver cadmium oxide contacts
4. **IEC MOTOR STARTER** 3-pole bi-metal overload relay
5. **100VA CONTROL CIRCUIT TRANSFORMER** Primary fusing on 3Ø
6. **MAIN CIRCUIT BREAKER**
7. **CONTROL CIRCUIT FUSE** 1 amp
8. **ALARM CIRCUIT FUSE** 1 amp
9. **HAND-OFF-AUTO SWITCH** Momentary in-hand position
10. **ALARM TEST SWITCH**
11. **PUMP RUN LIGHT** Amber
12. **SEAL LEAK LIGHT** Red. Use with double seal pumps only
13. **TERMINAL BLOCKS** For pump and float connections
14. **GROUND LUG**
15. **ALARM LIGHT** Nameplate mounted through enclosure front (NEMA 4X)
16. **ALARM BUZZER** 86 db at 10 ft. (NEMA 1)



For Indoor Use

ENCLOSURE DIMENSIONS



Panel	NEMA 1 1Ø	NEMA 1 3Ø	NEMA 4X 1Ø	NEMA 4X 3Ø
MATL	Steel	Steel	Fiberglass	Fiberglass
A	12-1/4	16-1/4	13-9/16	17-1/2
B	10-1/4	12-1/4	11-7/16	15-7/16
C	6	6	6-9/16	7-11/16
D	9	13	12-3/4	16-3/4
E	9	11	8	12
F	9/32	9/32	5/16	5/16

OPTIONAL PANEL FEATURES

- Elapsed time meter
- Alarm bell or horn
- Alarm bell or horn with silence switch
- Auxiliary contacts
- Condensation heater
- Convenience outlet
- Intrinsically safe relays
- Lightning arrestor
- Full inner door
- Cycle counter
- 24 volt control circuitry
- Transfer switch/generator receptacle
- Pump delay circuitry
- Low level cut-off and alarm
- Phase loss circuitry
- Low voltage circuitry

Other options also available

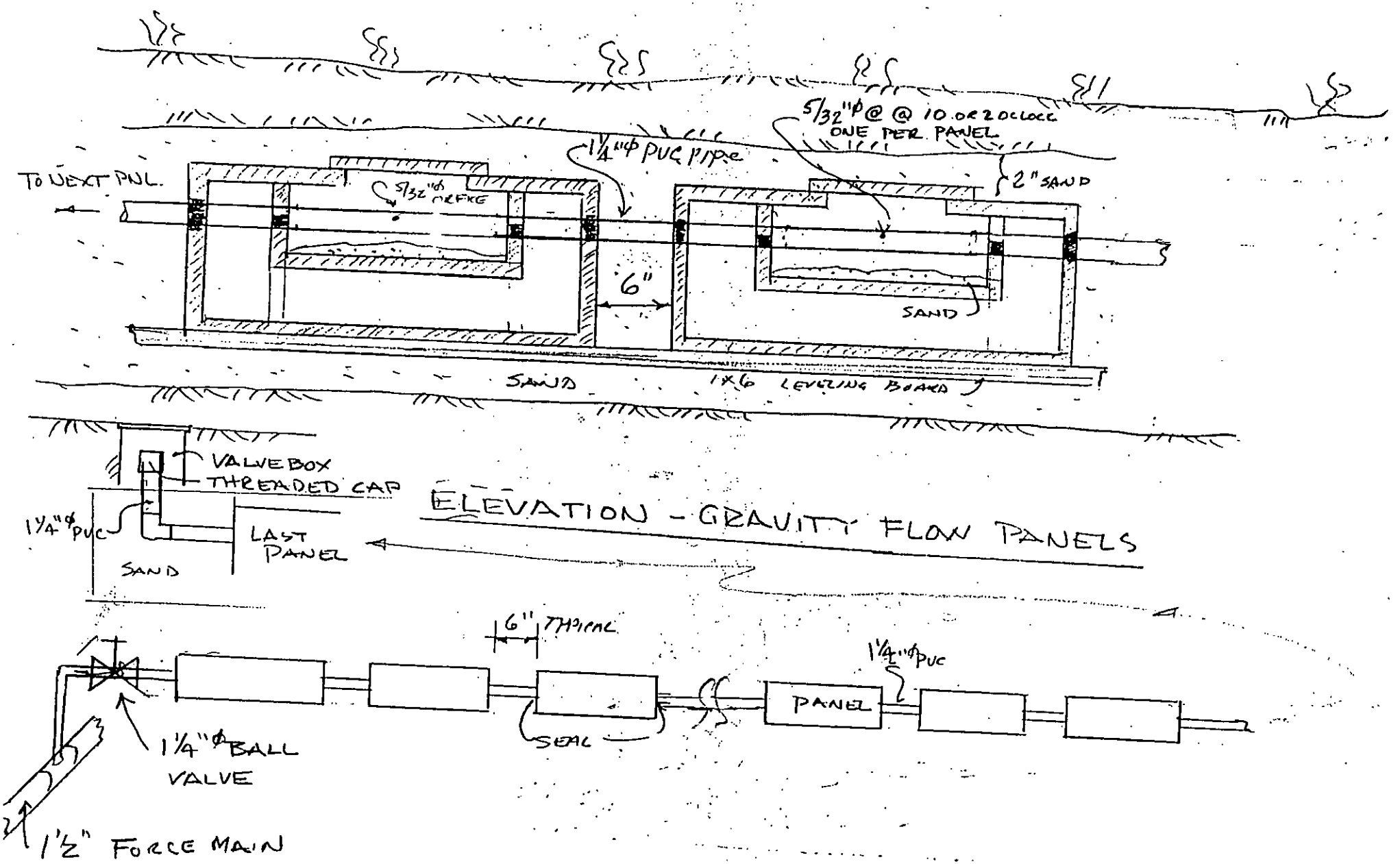
NOTE: Some options may increase enclosure size.

Myers®

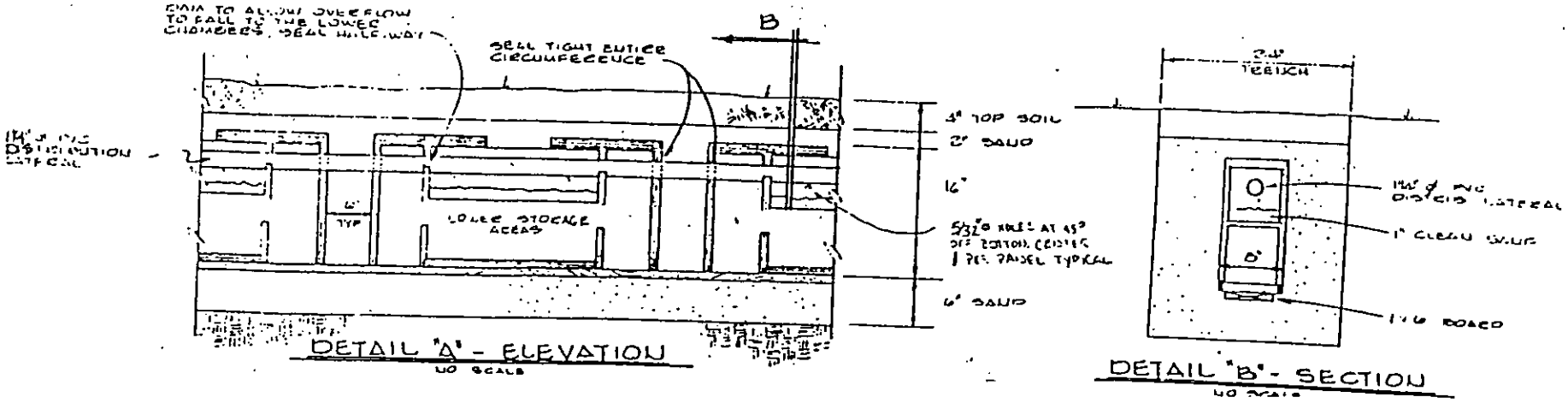
F. E. Myers, A Pentair Company
1101 Myers Parkway
Ashland, Ohio 44805-1923

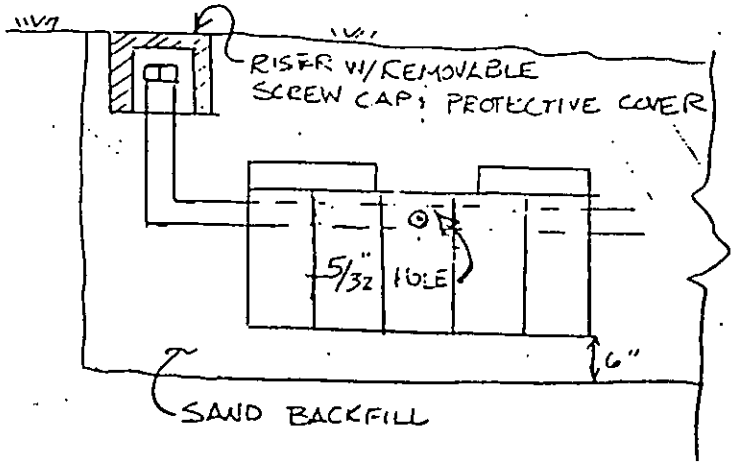
419/289-1144
FAX: 419/289-6658, TLX: 98-7443

K3194 8/91
Printed in U.S.A.


TO NEXT PNL.
5/32"ϕ ORIFICE
1¼"ϕ PVC PIPE
5/32"ϕ @ @ 10 OR 2 O'CLOCK
ONE PER PANEL
2" SAND
6"
SAND
SAND
1X6 LEVELING BOARD
VALVE BOX
THREADED CAP
1¼"ϕ PVC
LAST PANEL
SAND
ELEVATION - GRAVITY FLOW PANELS
6" THRUMC
1¼"ϕ PVC
PANEL
SEAL
1¼"ϕ BALL VALVE
1½" FORCE MAIN

T & J PANEL AS MFGE'D
BY STATESVILLE
CONCRETE PRODUCTS





B.K. Barringer, Jr. P.E.
104 Westfield Center
MOORESVILLE, NORTH CAROLINA 2811

1-18-00 03:13PM FROM MECK CO HLTH HAL MAR

Post-it® Fax Note 7671	Date 1-19-00	# of pages 2
To Mark Accom-zzo	From K. Randall	
Co./Dept	Co.	
Phone #	Phone # 336 5575	
Fax # 541-7613	Fax # 336 6019	

#2

Sheet:

Property ID: 113-302-34

Lot #: 34

File #: 16971

JATION
TER SYSTEM

OWNER: Wyatt D. Brannon

APPLICANT:

ADDRESS: 3477 Brighton Ct, Concord

DATE EVALUATED: 1-12-00

PROPOSED FACILITY: residence PROPOSED DESIGN FLOW (.1949) 480gpd /PROPERTY SIZE: .91

LOCATION OF SITE: New Hillpark Ct.

PROPERTY RECORDED:

WATER SUPPLY: ☒Private ☐Public ☒Well ☐Spring ☐Other

EVALUATION METHOD: ☒Augur Boring ☐Pit ☐Cut

TYPE OF WASTEWATER: ☒Sewage ☐Industrial Process ☐Mixed

PROFILE #	.1940 Landscape Position/ Slope %	Horizon Depth (IN.)	SOIL MORPHOLOGY (.1941) .1941 STRUCTURE/ TEXTURE	SOIL MORPHOLOGY (.1941) .1941 CONSISTENCE MINERALOGY	OTHER PROFILE FACTORS .1943 SOIL WETNESS/ COLOR	OTHER PROFILE FACTORS .1943 SOIL DEPTH	OTHER PROFILE FACTORS .1956 SAPRO CLASS	OTHER PROFILE FACTORS .1944 RESTR HORIZ	PROFILE CLASS &LTAR
1	LS 2%	0-3"	GR L	F-I SE SPL SS/SP	7.5YR 7/8 to 10YR 5/1 WETness	48"+	N/A	N/A	PS .39 / P2 IV
		3-30"	SAK / C	F-I SE SPL SP					
		30-48"	SAHI SCL	F-I SE SPL SS/SC					
2	LS 2%	0-4"	GR L SCL	F-I SE SPL SS/SP	7.5YR 7/8 to 10YR 5/1 WETness	48"+	N/A	N/A	PS .39 / P2 IV
		4-37"	SBHI C	F-I SE SPL SP					
		37-48"	SBHI SCL	F-I SE SPL SS/SC					

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	45	
System Type(s)		
Site LTAR		

OTHER FACTORS (.1946):

SITE CLASSIFICATION (.1948): Unsuitable

EVALUATED BY: Mark A Hall LSS 1-13-00

OTHER(S) PRESENT:

01-18-00 03:13PM FROM MECK CO HLTH HAL MAR 502

COMMENTS Lot probably does not qualify for new or repair existing system

FILE # 1692

LANDSCAPE POSITION

R-RIDGE
S-SHOULDER SLOPE
L-LINEAR SLOPE
FS-FOOT SLOPE
N-NOSE SLOPE
H-HEAD SLOPE
CC-CONCLAVE SLOPE
CV-CONVEX SLOPE
T-TERRACE
FP-FLOOD PLAIN

GROUP	TEXTURE	1955 LTAR
I	S-SAND LS-LOAMY SAND	1.2-0.8
II	SL-SANDY LOAM L-LOAM	0.8-0.6
III	SI-SILT SICL-SILTY CLAY LOAM CL-CLAY LOAM SCL-SANDY CLAY LOAM	0.6-0.3
IV	SC-SANDY CLAY SIC-SILTY CLAY O-ORGANIC	0.4-0.1

CONSISTENCE

MOIST

VFR-VERY FRIABLE
FR-FRIABLE
FI-FIRM
VFI-VERY FIRM
EFI-EXTREMELY FIRM

WET

NS-NON-STICKY
SS-SLIGHTLYSTICKY
S-STICKY
VS-VERY STICKY
NP-NON-PLASTIC
SPSLIGHTLYSTICKY
P-PLASTIC
VP-VERY PLASTIC

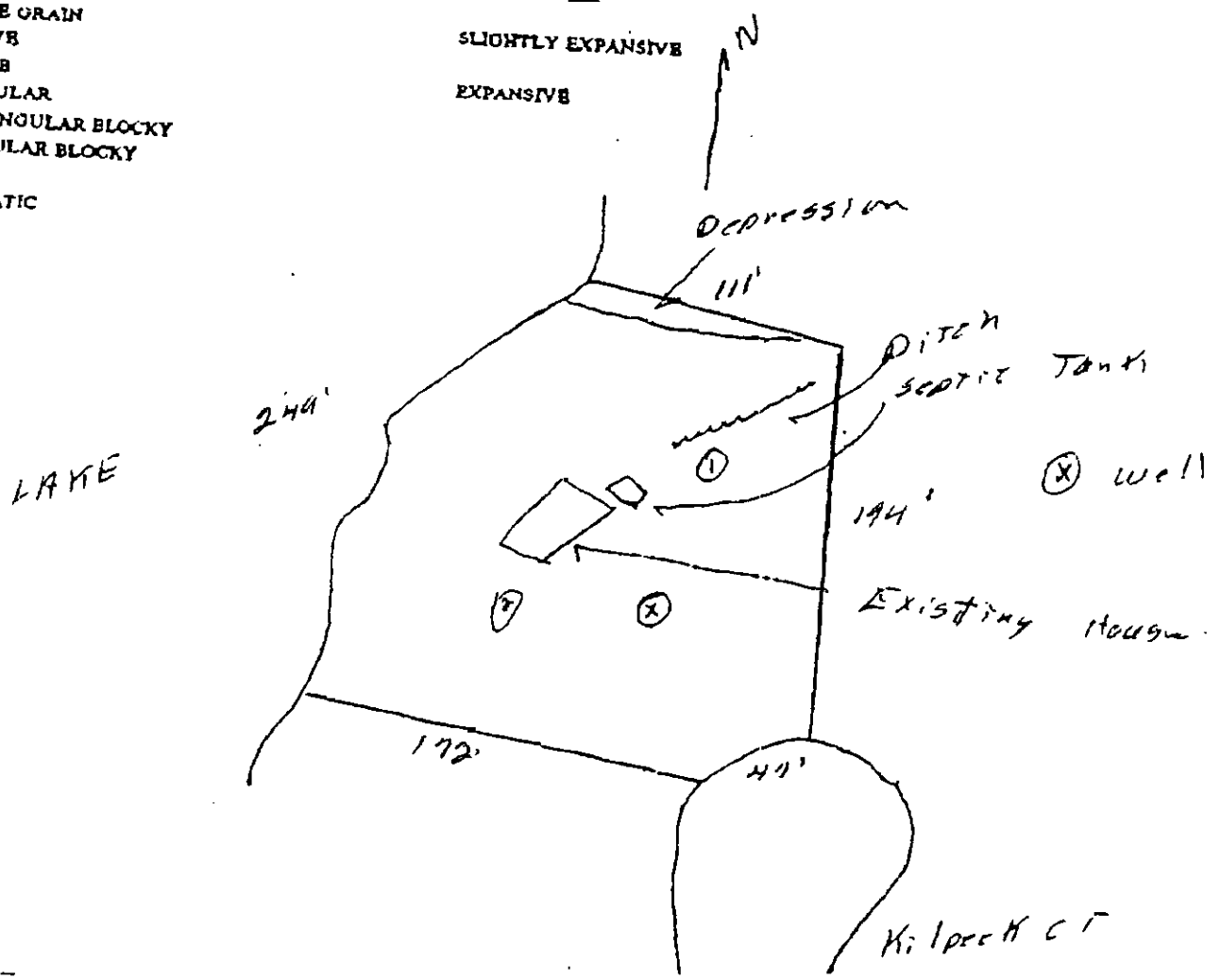
STRUCTURE

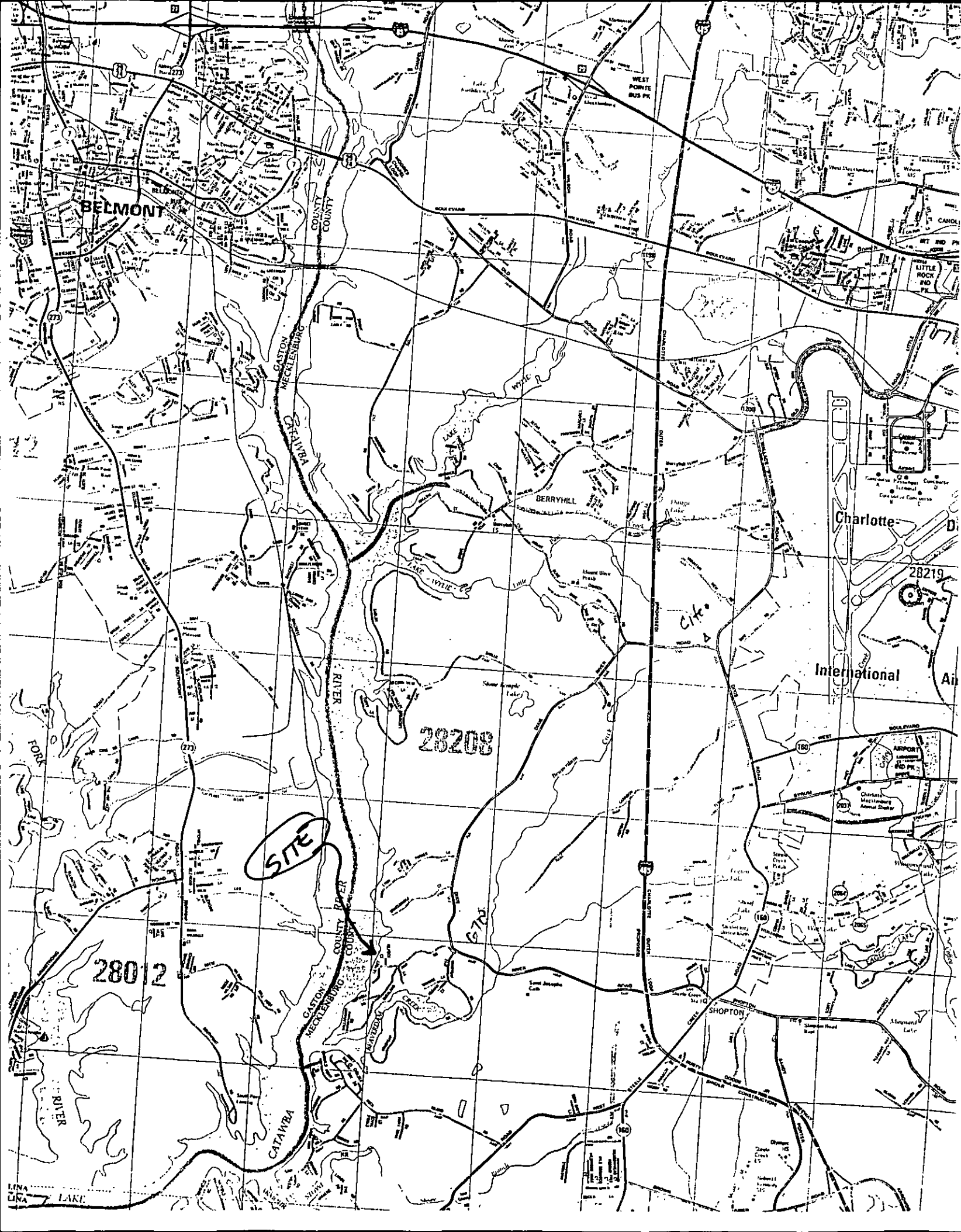
SG-SINGLE GRAIN
M-MASSIVE
CR-CRUMB
GR-GRANULAR
SBK-SUBANGULAR BLOCKY
ABK-ANGULAR BLOCKY
PL-PLATY
PR-PRISMATIC

MINERALOGY

SLIGHTLY EXPANSIVE

EXPANSIVE




BELMONT
CATAWBA RIVER
GASTON COUNTY
MECKLENBURG COUNTY
WYLIE R.
LAKE WYLIE
BERRYHILL
Charlotte
28219
28208
28212
SITE
SHOPTON
CREEK
LAKE
FORK
RIVER
CATAWBA
LAKE

104 Westfield Center NC 150 and US 21
Mooresville, North Carolina 28115-8812
Telephone (704) 664-7888 Fax (704) 664-1778

Architecture
Engineering
Planning

FAX TRANSMITTAL SHEET

DATE: 2-3-00 FAX: 336-6894

TO: LARRY THOMPSON RE: ACCOMAZZO LAKE WYLIE

FROM: BK BARRINGER PAGES:

REV PLAT SHOWING TANKS 50' FROM LAKE.

ADVISE IF ANY OTHER COMMENTS.

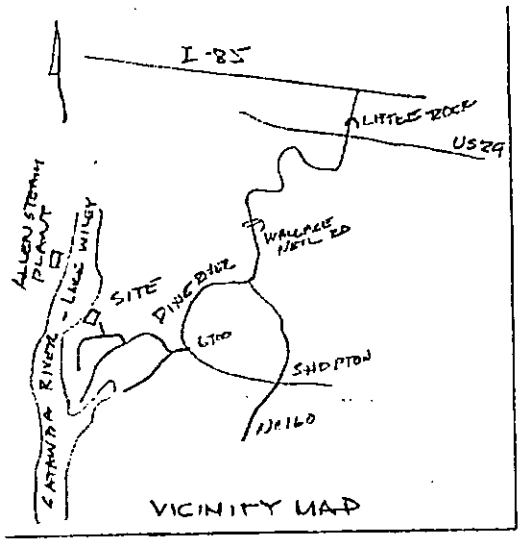
THANKS

BK

CC MARC ACCOMAZZO.

PS. FULL SIZE IN MAIL.

2-3-00 updated plot plan



PROPOSED SEPTIC SYSTEM
USING T & J PANELS FOR
MARK & VINA ACCOMAZZO
7000 KILPECK CT
MECKLENBURG CO NC.

SCALE: 1" = 30' DATE: 1-25-00
DRAWN BY: BKB

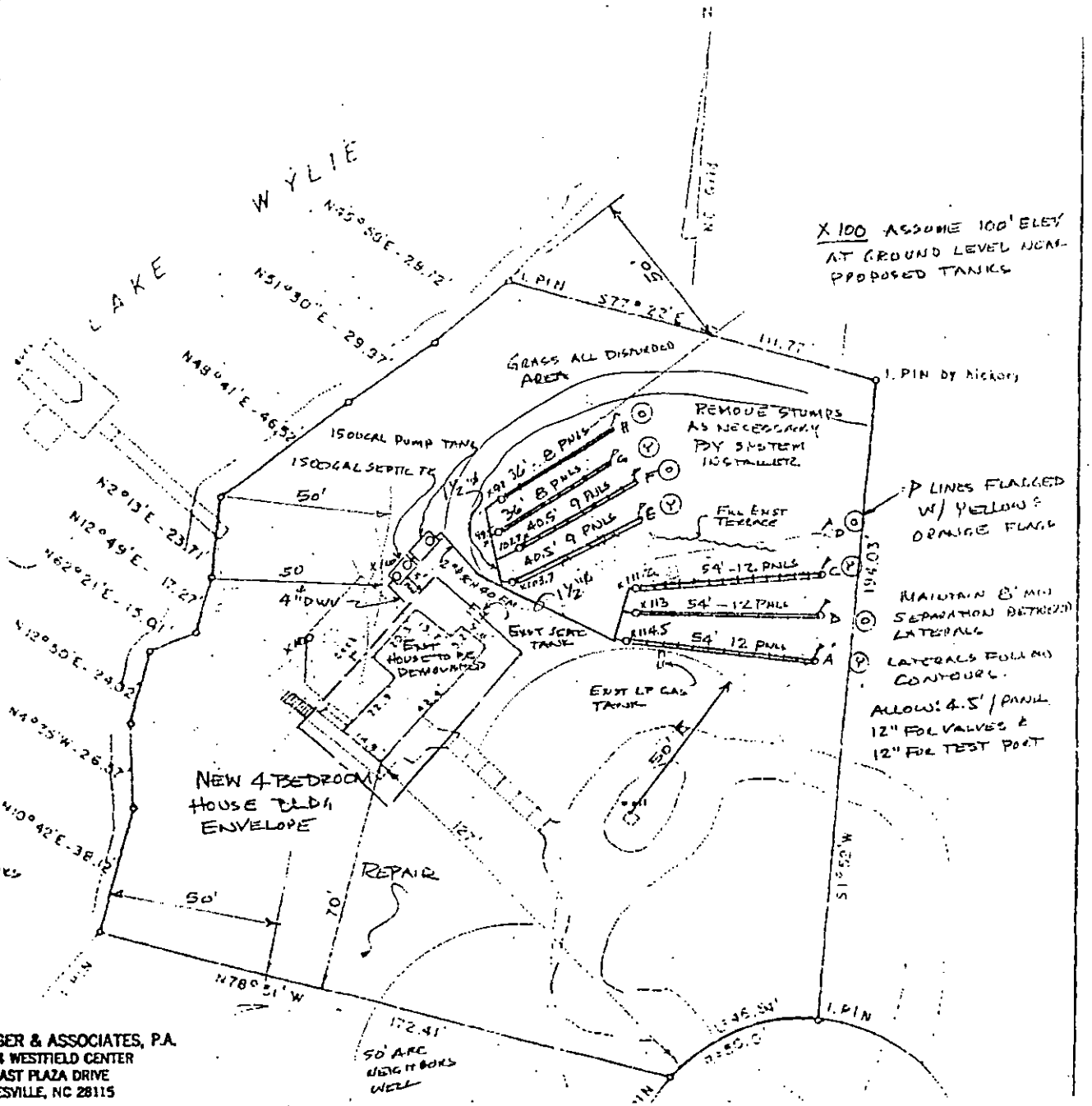
PROPERTY ID: 113-302-39
LOT 34
FILE NO: 16771
OWNER: BRANNON

2-3-00 REV. MOVE TANKS 50' FROM LAKE.

1-25-00

NORTH CAROLINA PROFESSIONAL SEAL 3370 ENGINEER D. K. BARRINGER, JR.

B. K. BARRINGER & ASSOCIATES, P.A.
SUITE 104 WESTFIELD CENTER
125 EAST PLAZA DRIVE
MOORESVILLE, NC 28115



02-03-00 03:27PM F02

104 Westfield Center NC 150 and US 21
Mooresville, North Carolina 28115-8812
Telephone (704) 664-7888 Fax (704) 664-1778

Architecture
Engineering
Planning

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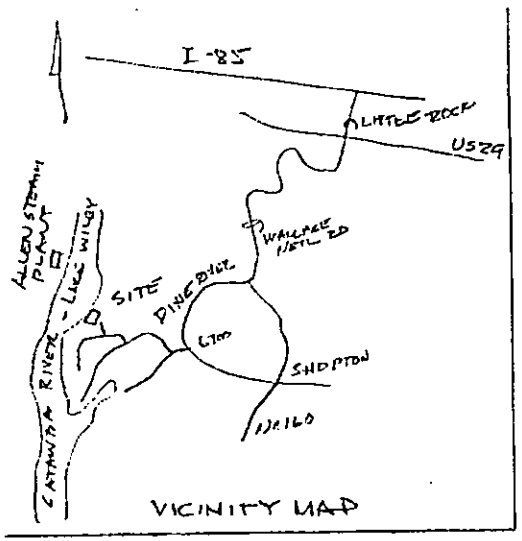
THANKS

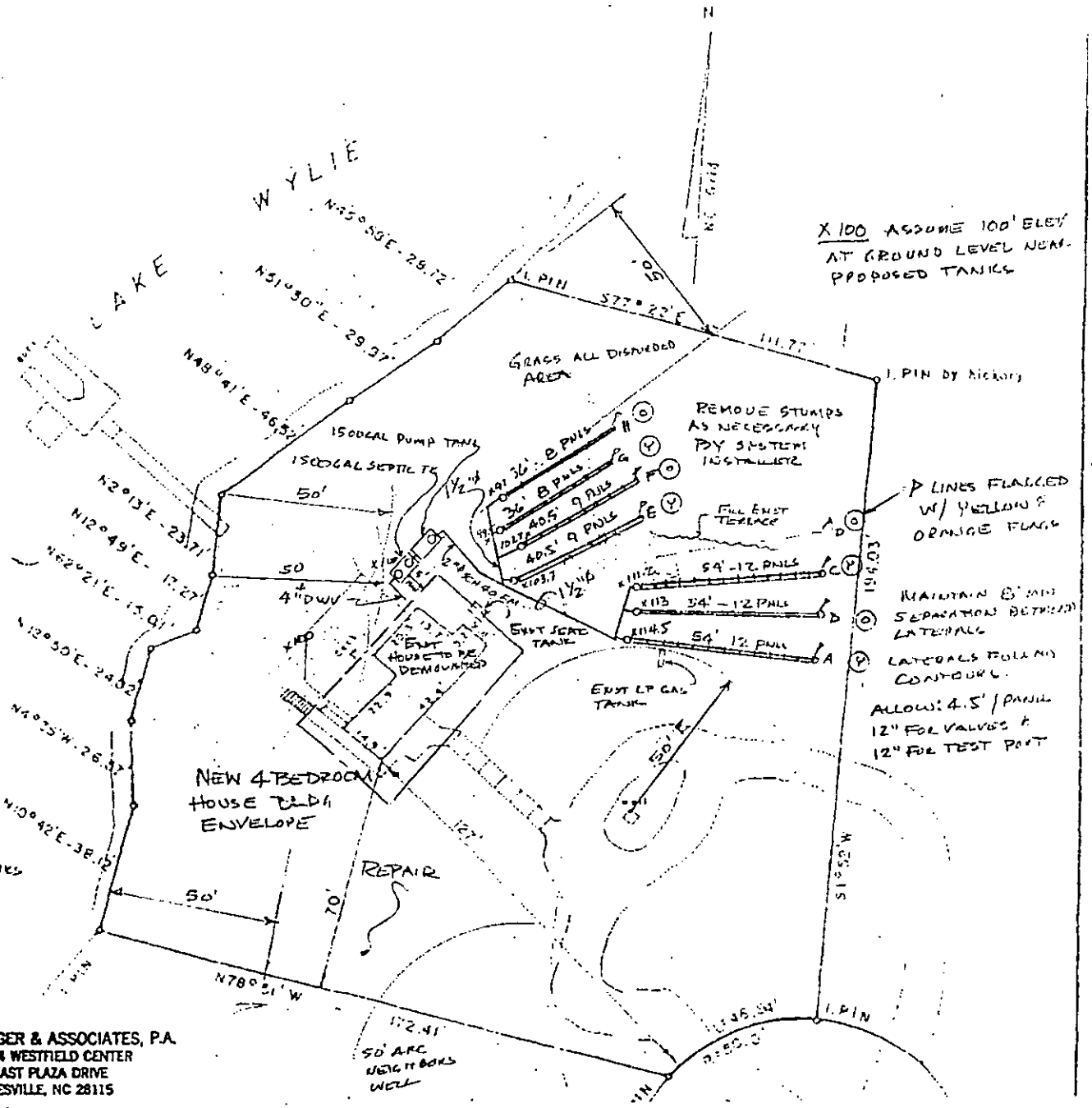
BK

CC MARC ACCOMAZZO.

PS. FULL SIZE IN MAIL.

2-3-00 updated plot plan





X 100 ASSUME 100' ELEV AT GROUND LEVEL NEAR PROPOSED TANKS

PROPOSED SEPTIC SYSTEM
USING T & J PANELS FOR
MARK & VINA ACCOMAZZO
7000 KILPECK CT
MECKLENBURG CO NC.

SCALE: 1" = 30' DATE: 1-25-00
DRAWN BY: BKB

PROPERTY ID: 113-302-39
LOT 34
FILE NO: 16771
OWNER: BRANNON

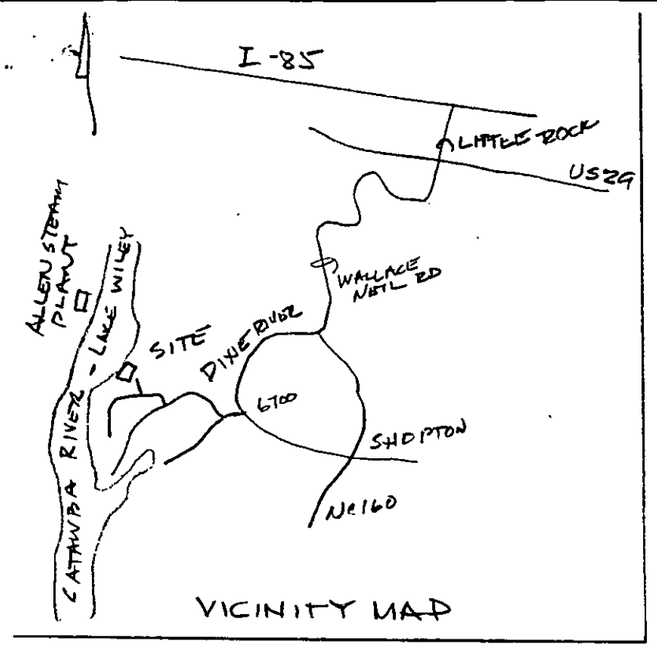
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1-25-00

NORTH CAROLINA PROFESSIONAL SEAL 3370 ENGINEER C.K. BARRINGER, JR.

B. K. BARRINGER & ASSOCIATES, P.A.
SUITE 104 WESTFIELD CENTER
125 EAST PLAZA DRIVE
MOORESVILLE, NC 28115

02-03-00 03:27PM F02



PROPOSED SEPTIC SYSTEM

USING T & I PANELS FOR

MARK & VINA ACCOMAZZO

7000 KILPECK CT

MECKLENBURG CO NC.

SCALE: 1" = 30' DATE: 1-25-00

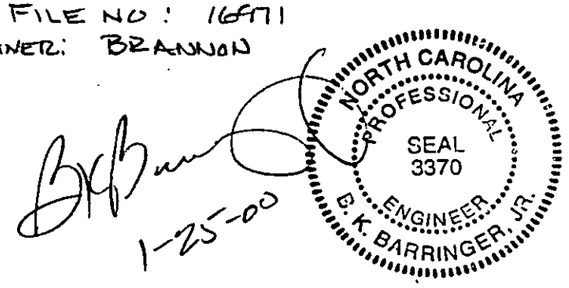
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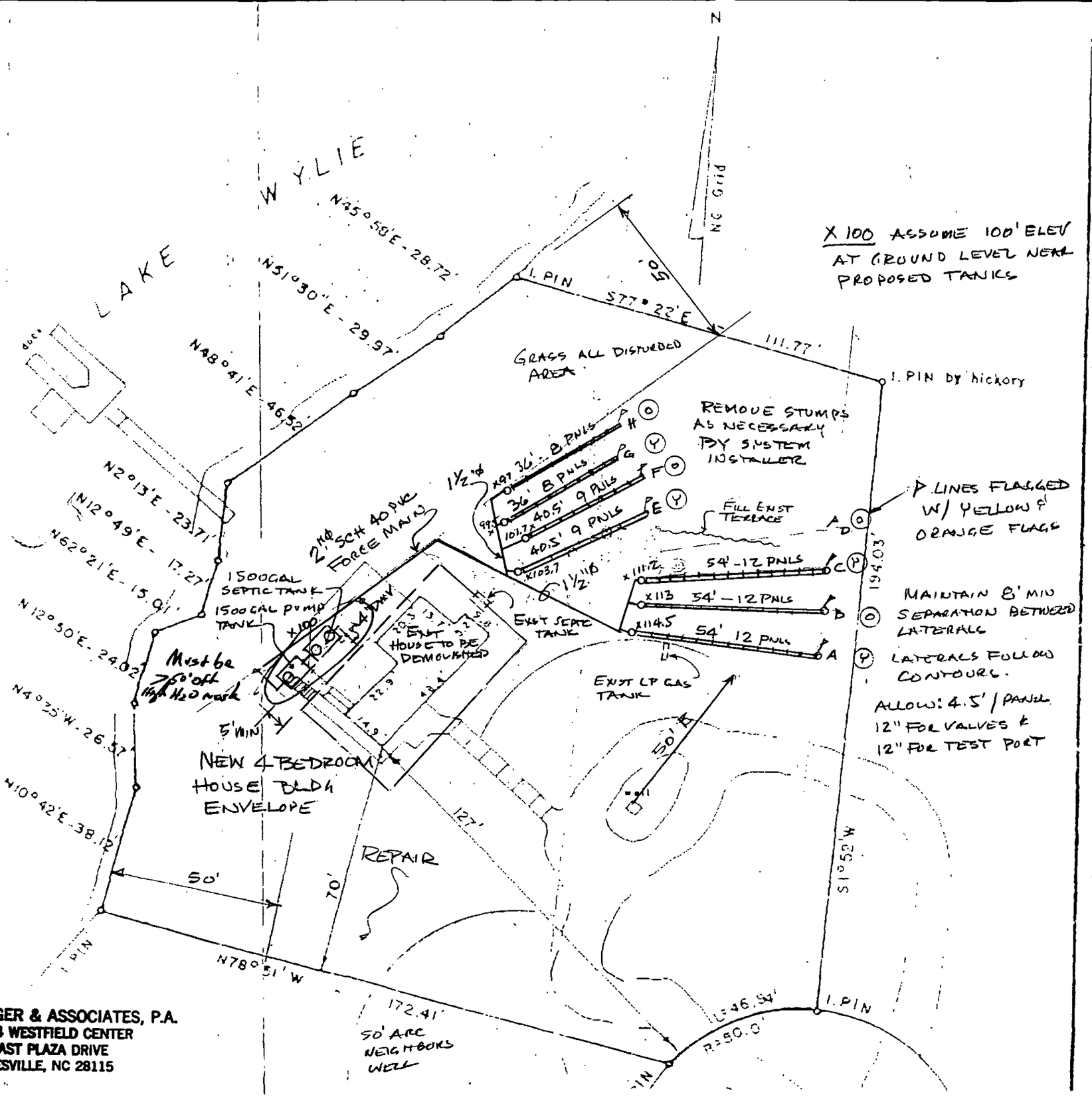
PROPERTY ID: 113-302-39

LOT 34

FILE NO: 16771

OWNER: BRANNON





B. K. BARRINGER & ASSOCIATES, P.A.
SUITE 104 WESTFIELD CENTER
125 EAST PLAZA DRIVE
MOORESVILLE, NC 28115

Pub Coll

FEE: $150.00 AUTHORIZATION FOR WASTEWATER SYSTEM CONSTRUCTION
DATE: 8-11-00 VOID SIXTY (60) MONTHS FROM DATE OF ISSUANCE

DATE: 2/3/00 PERMIT NO: 16971
PARCEL NO: 113-302-39

JOB LOCATION ADDRESS: 7000 Kilpeck Court
PROPERTY OWNER: Mark & Nina Acconazzo
BUILDING CONTRACTOR: _____
SUBDIVISION NAME: _____
AUTHORIZATION ISSUED BY: LB Thompson, Jr., R.S. DATE: _____
DEHNR AUTHORIZED AGENT

AUTHORIZATION CONDITIONS

1. WASTEWATER SYSTEM CONSTRUCTION AND INSTALLATION MUST MEET ALL CONDITIONS AND SPECIFICATIONS AS SET FORTH IN IMPROVEMENT PERMIT NO. 16971, AND THE ATTACHED SITE PLAN WITH SYSTEM DETAILS. CONSTRUCTION AND INSTALLATION MUST ALSO MEET ALL REQUIREMENTS SET FORTH IN THE RULES GOVERNING SANITARY SEWAGE COLLECTION, TREATMENT, AND DISPOSAL AND ANY OTHER APPLICABLE RULES AND LAWS.

2. AN INSTALLATION, CONSTRUCTION, ALTERATION AND/OR REPAIR APPROVAL MUST BE SECURED PRIOR TO INSTALLATION OF THE SEPTIC TANK SYSTEM. THE INSTALLER OF THE SYSTEM SHALL BE A REGISTERED SEPTIC TANK CONTRACTOR WITH MECKLENBURG COUNTY HEALTH DEPARTMENT.

3. ANY ALTERATION IN SITE OR SOIL CONDITIONS (INCLUDING LOCATION OF STRUCTURES AND APPURTENANCES) OR MODIFICATION IN USE, DESIGN WASTEWATER FLOW, OR WASTEWATER CHARACTERISTICS AS SPECIFIED IN THE ASSOCIATED IMPROVEMENT PERMIT AND APPLICATION, MAY SUBJECT THIS AUTHORIZATION AND ASSOCIATED PERMIT(S) TO REVOCATION.

4. OTHER CONDITIONS: See conditions of Improvement Permit

OWNER CERTIFICATION

I CERTIFY THAT THERE HAVE BEEN NO ALTERATIONS IN SITE OR SOIL CONDITIONS OR MODIFICATIONS TO FACILITY, WASTEWATER FLOW, OR WASTEWATER CHARACTERISTICS FROM THOSE SPECIFIED IN THE ORIGINAL APPLICATION OR ASSOCIATED IMPROVEMENT PERMIT UNLESS AUTHORIZED IN WRITING BY THE MECKLENBURG COUNTY HEALTH DEPARTMENT. I ALSO UNDERSTAND THAT ANY SUCH ALTERATIONS, MODIFICATIONS, OR FALSE INFORMATION ARE GROUNDS FOR REVOCATION OF PERMITS AND AUTHORIZATION TO CONSTRUCT.

SIGNATURE OF OWNER/OWNER'S REPRESENTATIVE 02-03-00 DATE

MECKLENBURG COUNTY HEALTH DEPARTMENT
Environmental Health Fees

Requestor (please print): Mark E. Accountz Phone #: 541613 Date Requested: 5-11-00 Date Filled:

Account Name: Cash Charge Account No.:

I certify that I am authorized to charge this account for this service:

Signature: Printed Name: Date:

T.C.	Qty	Description	Unit Cost	Total Cost
0701		Improvement Permit Application - Residential	$ 200.00	
0735		Improvement Permit Application - Commercial	$ 400.00	
0702		Optional Site Evaluations	$ 100.00	
0703		Installation and Final Approval	$ 150.00	
0704		Change in Plot Plan	$ 100.00	
0705		MH Exc/Add/Repl without System Modification	$ 100.00	
0706		MH Exc/Add/Repl with System Modification	$ 300.00	
0707		Site Consultation Visit	$ 100.00	
0734	1	Authorization for Wastewater System Construction	$ 150.00	$150.00
0708		Realty Closing - Conventional	$ 85.00	
0709		Realty Closing - FHA with water	$ 135.00	
0710		Additional Trips	$ 65.00	
0711		Well Water Analysis-Bacteriological with regular parameters	$ 50.00	
0712		Well Water Analysis -Nitrates and Nitrites	$ 15.00	
0714		Well Water Analysis - Organic Analysis	$ 200.00	
0715		Admin. Fee - Field Activity Letter	$ 25.00	
0718		Residential Pool Permit	$ 50.00	
0719		Public Pool Permit - operating	$ 240.00	
0720		Seasonal Pool Permit - operating	$ 120.00	
0736		Pool Late Fee	$ 120.00	
0733		Permit to Construct a Public Pool	$ 200.00	
0721		Home Day Care Evaluation and Permit	$ 70.00	
0722		Home Day Care Evaluation and Annual Fee	$ 40.00	
0723		Eval and Report Non-Permit Facility	$ 50.00	
0724		Private Pool Testing	$ 15.00	
0731		Garbage Hauler Permit - (1-9 vehicles)	$ 30.00	
0736		Garbage Hauler Permit - (each over 9)	$ 20.00	
0725		Document Copies	$ 0.05	

Payment received by: Date: 5-11-00 Total: 150.00

File # 169-71
7000 Tilpack Court

4/2000

White-AUDIT Canary-CUSTOMER Pink-DIVISION

FOR REGISTRATION JUDITH A. GIBSON
REGISTER OF DEEDS
MECKLENBURG COUNTY, NC
2000 FEB 03 02:32 PM
BOOK: 11067 PAGE: 551-554 FEE: $12.00
INSTRUMENT # 2000014962

STATE OF NORTH CAROLINA

COUNTY OF MECKLENBURG

WASTEWATER TREATMENT AND DISPOSAL SYSTEM DESIGN AGREEMENT: 15A NCAC 18A .1948 AND ANY OF THE FOLLOWING RULES: .1956; .1957(a); .1957(b); or .1957(c); OR .1969

FILE # 16971
PARCEL # 113-302-39

The undersigned, Mark Accomazzo, owner of property located at 7000 Kilpeck Court, (the "site") and described in an instrument recorded in Book _____ at Page _____, Mecklenburg Public Registry, hereby acknowledges that the undersigned applied to the Mecklenburg County Health Department (the "Department") for a permit to install a septic tank sewage disposal system on the site; that the Department evaluated the site for suitability for such a system in accordance with the regulations promulgated by the North Carolina Commission for Health Services as 15A NCAC 18A .1900 et seq.; that the Department originally classified the site as "unsuitable" pursuant to the standards set forth in the regulations; that the undersigned requested that the Department reclassify the site as "provisionally suitable" in light of the particular septic tank system proposed by the undersigned; that the Department considered various studies, data, and other information which indicate to the Department that the septic tank system proposed by the undersigned is allowed by the rules; and that the Department therefore reclassified the site as "provisionally suitable" and issued an appropriate permit for such proposed septic tank system.

The undersigned further acknowledges that the proper design, construction, operation and maintenance of such septic tank system is the responsibility of the designer, owner, developer, installer, or user of the system, as applicable, and that neither the Department nor its officials, employees, or agents warrant or guarantee that the said system installed pursuant to the permit issued by the Department will function in a satisfactory manner for any given period of time or that the Department, its officials, employees or agents assume any liability for any damages of any kind which are caused, or which may be caused, by a malfunction of such system.

The undersigned further acknowledges that the following conditions will apply to the site:

- Any changes on the property may make the Improvement Permit Null and void and may make the Improvement Permit subject to revocation.

This instrument was prepared by: DK Brannigan
Mail after recording to: Mark Accomazzo
3729 MacFarlane Dr
Charlotte, NC 28226

- Do not grade, cut, fill, pave, construct a building or deck, dig a well, install a swimming pool or otherwise cover or disturb the soil (except for planting and maintaining grass or other ground covers) in a manner which will adversely affect the repair area or area where the septic tank system is located.

- When a private certified operator is required, no improvement permit for the designated repair shall be issued unless there is a private certified operator to carry out this management program in the service area where the proposed system is to be located. (Refer to Rule .1961, "Maintenance of Sewage Systems," for further information.)

- Additional fees will be required according to the Mecklenburg County user fee schedule applicable at the time for the issuance of a repair permit for any subsequent repairs to the sewage treatment and disposal system or for installation of a replacement system.

- At the time repairs to the sewage treatment and disposal system are to be made or a replacement system installed, the regulations in effect at that time will govern the repairs or installation of a replacement system.

The undersigned further agrees for himself, his heirs and assigns that he shall indemnify and hold harmless the Department, its employees, and officials, as well as Mecklenburg County and its employees and officials, for any damages or other claims of any person or persons whatsoever arising out of the installation, operation, or failure of said septic tank system.

Use of the singular masculine pronoun forms herein shall be deemed to also include the plural and feminine forms as the context may require.

This document shall be placed on the public records of the Register of Deeds of Mecklenburg County and indexed therein under the Grantor Index in the name or names of the undersigned, and the foregoing acknowledgements shall henceforth be binding on all persons claiming any right, title, or interest in the site.

IN WITNESS WHEREOF, the undersigned has hereunto set his hand and seal, or if corporate, has caused this instrument to be signed in its corporate name by its duly authorized officers and its seal to be hereunto affixed by authority of its Board of Directors, this _____ day of _____, 199__.

MARK E. Accomazzo
(Corporate Name)

By: Mark E. Accomazzo

_____ President

ATTEST:

_____

_____ Secretary

(Corporate Seal)

_____ (SEAL)

_____ (SEAL)

_____ (SEAL)

_____ (SEAL)

STATE OF NORTH CAROLINA
COUNTY OF Mecklenburg

I, ~~Mark E Accomazzo~~ (SW) Suzanne R Weston, a Notary Public for said County and State, do hereby certify that Mark E. Accomazzo personally appeared before me this date and acknowledged the due execution of the foregoing instrument.

WITNESS my hand and notarial seal, this 3 day of February, ~~199~~ 2000.

_____
Notary Public

My Commission Expires:

~~My Commission Expires:~~ 11-16-04

SUZANNE R. WESTON NOTARY PUBLIC MECKLENBURG COUNTY, N.C.

RBCWM:24751_1/8-30-95

Permit Number: 16971 Tax Number: 113-302-39

- The IMPROVEMENT PERMIT is subject to revocation if site plans or the intended use change. There is to be NO grading, filling or disturbance of the soil in the area of the septic tank system or repair area.
- CONSTRUCTION AUTHORIZATION must be obtained prior to receiving a Building Permit. The Construction Authorization is NOT transferable. Do not clear, grade, fill or disturb soil prior to obtaining a Construction Authorization.
- Domestic-type wastewater only. No industrial process wastewater may be discharged into the system.

Basement	✓ Yes	___ No	___ Partial Basement
Type Primary Wastewater System Type (circle one): I II III (IV) V VI	___ Conventional ✓ Prefabricated, permeable block panel system ___ Shallow Placed Conventional	___ Low Pressure Pipe ___ Large Diameter Pipe ___ Fill ___ Other	___ Innovative or Experimental: ___ IWWS-93-1 ___ IWWS-93-2 ___ IWWS-94-1

.3 Long-term acceptance rate	480 Max gallons/day wastewater flow	630 Absorption Area (sq ft)	8' Trench spacing (min. on centers)
Yes Serviced by private well	1500 Gallon septic tank	315 Total trench length (ft)	___ Maximum trench depth (At least 12" of provisionally suitable soil must remain between trench bottom and unsuitable soil conditions)
4 Bedrooms in residence	1500 Gallon pump tank	N/A Depth of stone 22" Sand	

Any surface waters present: Type: Minimum separation distance:

Site modifications required:

Additional Conditions: Property deeded prior to 1950 - 100% repair not required.
- Use Versatex control panel at pump tank
- Certified Operator required - Contract must be submitted prior to final system approval
- Agreement form required

Repair Area System Type Type (circle one): I II III IV V VI	___ Conventional ___ Prefabricated, permeable block panel system ___ Shallow Placed Conventional	___ Low Pressure Pipe ___ Large Diameter Pipe ___ Fill ___ Other	___ Innovative or Experimental: ___ IWWS-93-1 ___ IWWS-93-2 ___ IWWS-94-1

___ Absorption Area (Sq ft) ___ Total Trench Length (Ft)	___ Depth of Stone Trench	___ Trench spacing (min. on centers)	___ Maximum Trench Depth

For existing system, enter the year originally installed:

The undersigned, an authorized agent of the MECKLENBURG COUNTY HEALTH DEPARTMENT, certifies that the Department has approved the Request for the Job Location contained in this document. This approval is granted in accordance with the provisions of Laws and Rules For Sewage, Treatment and Disposal in effect at the time of issuance of the permit and is subject to the following provisions:

- No work shall be conducted on the septic tank system until an Installation, Construction, Alteration and/or Repair Approval is granted by this Department
- This Improvement permit is transferable.

LB Thompson Jr. R.S. 2-03-00
DEHNR Authorized Agent Date

X [signature] 2-03-00
Owner/Agent Signature Date

MECKLENBURG COUNTY
HEALTH DEPARTMENT
ENVIRONMENTAL HEALTH DIVISION
c/o HAL MARSHALL CTR.
SUITE 211
700 N. TRYON ST.
CHARLOTTE, N.C. 28202.
(704) 336-5102

NORTH CAROLINA DEPARTMENT OF
ENVIRONMENTAL, HEALTH,
AND NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL HEALTH
ON-SITE WASTEWATER SECTION

IWWS-100195

Mecklenburg County
Health Department
Conditions of Improvement Permit

File Number: 16971
Site Address: 7000 Kilpeck Court

1. The permitted system is a Type IVa pressure dosed Prefabricated, Pemeable Block Panel System (PPBPS) wastewater treatment and disposal system and requires ongoing maintenance. A maintenance contract must be executed between the system owner and a private certified operator before an Operation Permit can be issued. It is a condition of the Operation Permit that a maintenance contract shall be in effect for as long as the system is in use. It is also a requirement that subsequent owners of the system shall execute such a contract.
2. The system will require a single phase, simplex control panel with alarm. The control panel must have a Nema 4x weather proof rating.
3. Septic and pump tanks must be installed in an area that is not subject to vehicular traffic. Final cover over both tanks must be less than 3 feet to prevent the need for State approved reinforced tanks.
4. Drain lines must be installed on contour. Trench bottoms shall be constructed as level as possible but in no case shall the fall in a single trench bottom exceed one-fourth inch in 10 feet.
5. Any changes in the site must be pre-approved by the Mecklenburg County Environmental Health Department.
6. The wastewater treatment and disposal drain field area, including the designated repair areas, shall not be used for any of the following:

   - Grading or filling
   - Parking or driving heavy equipment in the area or subjecting the site to possible soil compaction
   - Construction staging area
   - Installation of lawn irrigation components
   - Installation of underground utilities or cables of any type
   - Burial of any debris or material
   - Utilizing the area for gravesites
   - Diversion of storm water runoff into this area

7. Septic system installer must be registered with Mecklenburg County prior to meeting for the required pre-construction conference.
8. System installer will be required to operate the system at the time of the final inspection. Arrangements must be made to have the pump tank filled with water prior to the requested final inspection. The required pressure heads will be adjusted at the time of the final inspection.
9. The system owner shall have the contents of the septic tank checked, and the contents of the tank removed, periodically from all compartments, to ensure proper operation of the system. The contents of the septic tank shall be pumped whenever the solids level is found to be more than 1/3 of the liquid depth in any compartment.
10. All septic tank riser and effluent filter rules will apply to this system. It is strongly recommended that access risers be added to both ends of the septic tank, extending to at least finish grade. This will allow periodic inspection of the solids level in the tank as well as help facilitate the periodic cleaning of the effluent bio-filter.
11. The local Health Department is required, by the State, to perform system reviews of Type IVa systems at a minimum of once every 3 years. The owner of the system is responsible for paying any inspection fees, as determined by the Board of County Commissioners, at the time of the required inspection.

Owner/Agent Signature _____ **Date** 12-3-00

PEOPLE • PRIDE • PROGRESS

Environmental Health Division

700 North Tryon Street • Suite 211 • Charlotte, North Carolina 28202-2236

FEE: 230.00 ck# 1145
DATE: 1/4/00

APPLICATION FOR IMPROVEMENT PERMIT FOR RESIDENTIAL SITE INDIVIDUAL WATER AND WASTEWATER SYSTEMS PROGRAM

[ ] CRT

TYPE APPLICATION: [✓] NEW SYSTEM [ ] EXPANSION/ ALTERATION OF EXISTING SYSTEM [ ] REPAIR OF EXISTING SYSTEM

NORTH CAROLINA
DEPARTMENT OF ENVIRONMENT,
HEALTH, AND NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL HEALTH
ON-SITE WASTEWATER SECTION

FILE #: 16971

PROPERTY INFORMATION (FROM ENGINEERING FORM) FOR JOB LOCATION:

TAX/PARCEL NUMBER: 113-302-39

STREET ADDRESS: 7000 Kilpeck Court

SUBDIVISION OR MOBILE HOME PARK NAME: Charlotte, NC 28208

LOT NUMBER: 34

TYPE OF BUILDING (CHECK ONE):

- [ ] SINGLE MOBILE HOME(S)
- [ ] DOUBLE WIDE (D)
- [X] HOUSE (H)
- [ ] MODULAR HOME (M)
- [ ] MULTIPLE FAMILY (U)
- [ ] OTHER (O)

HEATED SQUARE FOOTAGE: 3,000

NUMBER OF BEDROOMS: 4 NUMBER OF OCCUPANTS: 5

FOUNDATION FOR RESIDENCE:

- [ ] WITHOUT BASEMENT
- [X] ON SLAB
- [ ] CRAWL SPACE
- [ ] WITH BASEMENT /PLUMBING
- [ ] WITH BASEMENT /NO PLUMBING

TOWNSHIP (CHECK ONE):

- [ ] 0 MECKLENBURG
- [ ] 1 CHARLOTTE
- [ ] 2 DAVIDSON
- [ ] 3 CORNELIUS
- [ ] 4 PINEVILLE
- [ ] 5 MATTHEWS
- [ ] 6 HUNTERSVILLE
- [ ] 7 MINT HILL

CLOSING DATE Feb 1 00

Steele Creek Township

IF EXPANSION/ALTERATION OF EXISTING SYSTEM, DESCRIBE THE PROPOSED BUILDING ADDITION:
Plan to demolish existing 2-bedroom home. Propose to build new 4 bedroom

WILL THERE BE A HOME BUSINESS IN THE RESIDENCE: [ ] YES [X] NO TYPE: _____

WATER SUPPLY (CHECK ONE):

- [ ] COMMUNITY (C)
- [ ] MUNICIPAL (M)
- [X] PRIVATE WELL (P)
- [ ] SHARED WELL (S)
- [ ] OTHER 'SPRINGS' (O)

IF ANY OF THE FOLLOWING ARE LOCATED ON THE PROPERTY, PLEASE SHOW LOCATION ON PLAT:

BURIED CABLES, LANDFILLS, STUMPHOLES	[ ] YES [ ] NO	WELL, SPRINGS OR WATERLINES	[X] YES [ ] NO
EXISTING WASTEWATER SYSTEMS	[✓] YES [ ] NO	DESIGNATED WETLANDS	[ ] YES [ ] NO
EASTMENTS OR RIGHT-OF-WAYS	[ ] YES [ ] NO		

PROPERTY OWNER:

NAME: Brannan Nyra B.
(LAST) (FIRST) (MI)

ADDRESS: 3477 Brighton Court

CITY: Concord STATE: NC ZIP: 28027

DAYTIME PHONE: (704) 784-9313

LEGAL AGENT FOR PROPERTY OWNER, IF APPLICABLE:

NAME: Accomazzo, Vina
(LAST) (FIRST) (MI)

DAYTIME PHONE: (704) 541-7613

WHAT DATE WAS THE PROPERTY ORIGINALLY DEEDED AND RECORDED? _____

An Improvement Permit is subject to suspension or revocation if site plans or the intended use change or if information submitted in this application is falsified or changed. The undersigned, owner, or legal agent for the owner, of the property described above as the "Job Location" has read the foregoing application, acknowledges that the contents of same are true, and authorizes agents of the Mecklenburg County Health Department to enter onto the property for the purpose of processing this request.

SIGNED: Vina Accomazzo DATE: 1-4-00

MECKLENBURG COUNTY HEALTH DEPARTMENT
ENVIRONMENTAL HEALTH DIVISION
c/o HAL MARSHALL CTR., SUITE 211, 700 N. TRYON ST., CHARLOTTE, N.C. 28202., (704) 336-5102

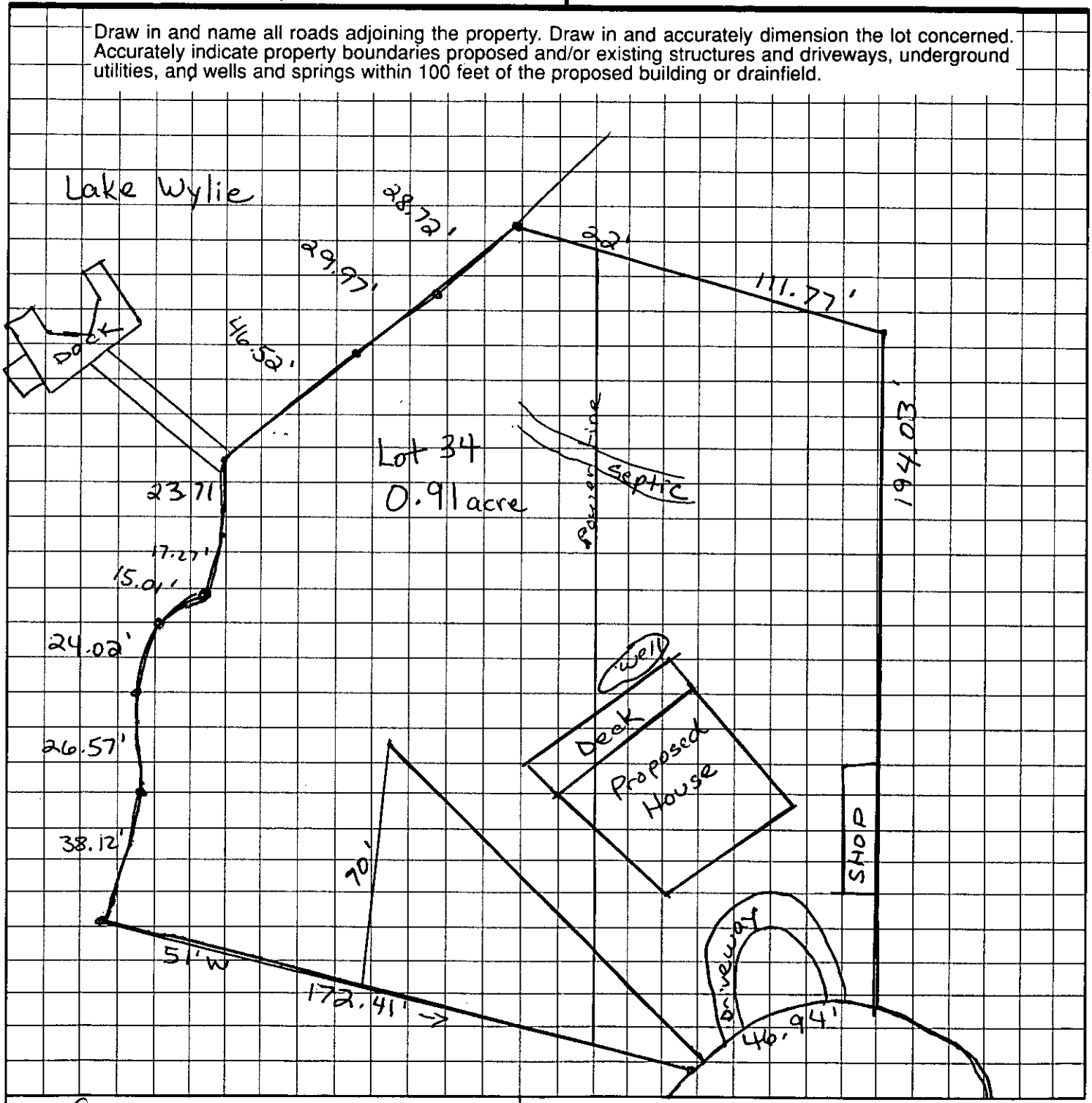
PROPOSED PLOT PLAN

HEALTH DEPARTMENT
ENVIRONMENTAL HEALTH DIVISION
700 NORTH TRYON STREET
CHARLOTTE, NC 28202
PHONE (704) 336-5102

FILE: 16971

TC: 113-302-39

Draw in and name all roads adjoining the property. Draw in and accurately dimension the lot concerned. Accurately indicate property boundaries proposed and/or existing structures and driveways, underground utilities, and wells and springs within 100 feet of the proposed building or drainfield.



Vina Accomazzo.
OWNER/AGENT SIGNATURE

DATE 1-4-00

APPROVAL DATE _____

White - Health Department's Copy Canary - E.H.S. Copy Pink - Owner's Copy

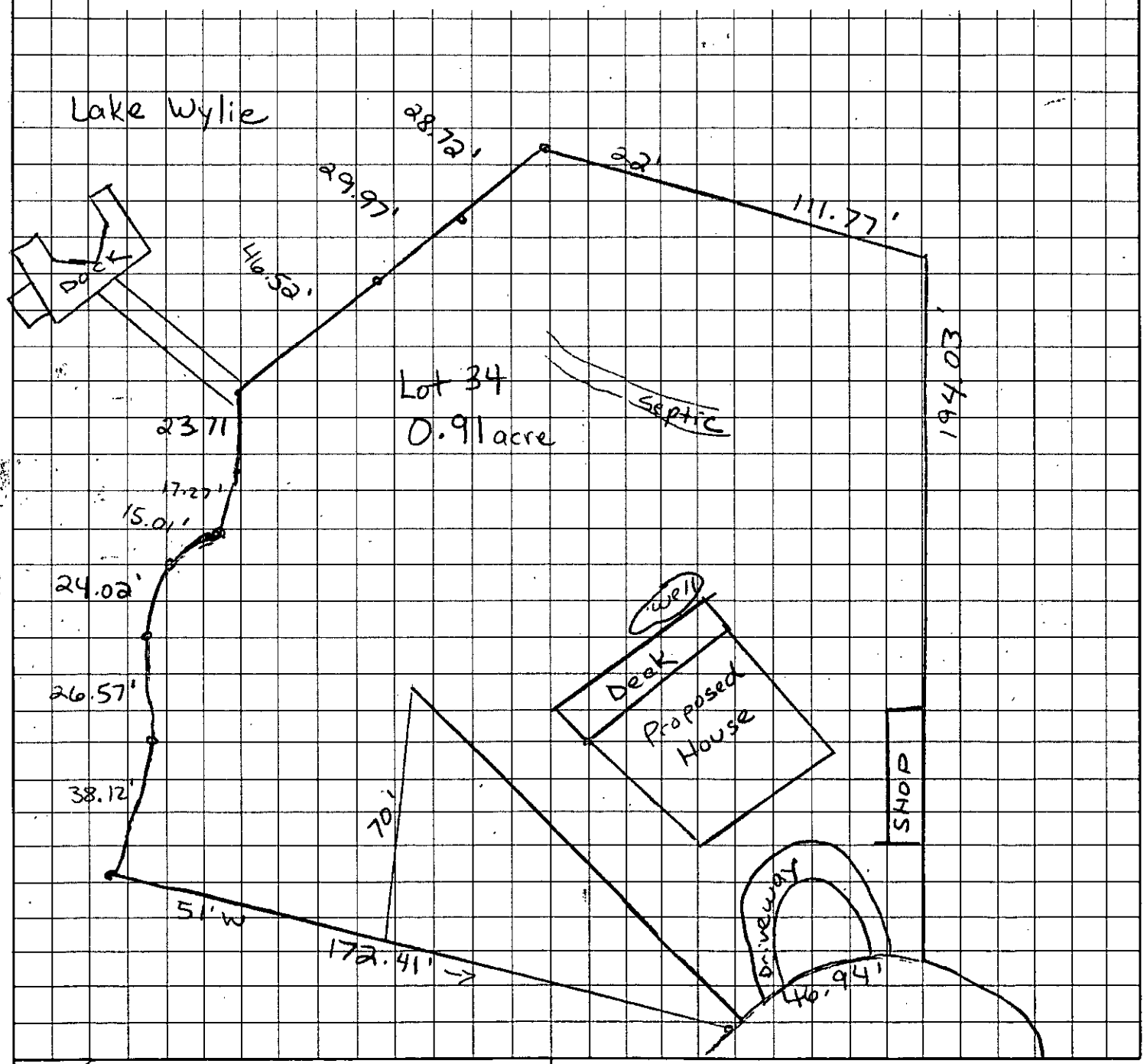
PROPOSED PLOT PLAN

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ENVIRONMENTAL HEALTH DIVISION
700 NORTH TRYON STREET
CHARLOTTE, NC 28202
PHONE (704) 336-5102

FILE: 16971

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Vina Accomazzo
OWNER/AGENT SIGNATURE

DATE 1-4-00

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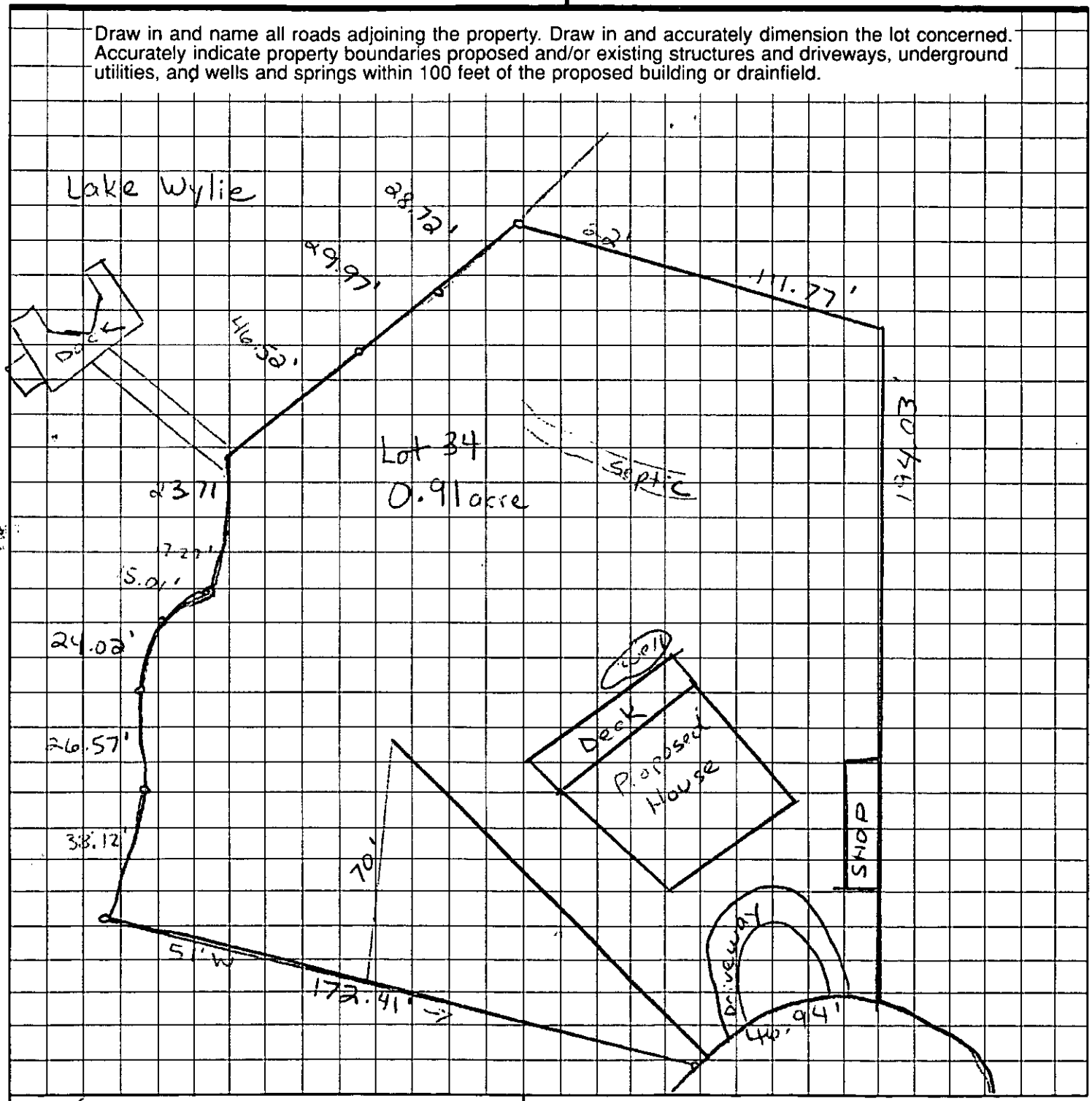
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HEALTH DEPARTMENT
ENVIRONMENTAL HEALTH DIVISION
700 NORTH TRYON STREET
CHARLOTTE, NC 28202
PHONE (704) 336-5102

FILE: 16971

TC: 113-302-39

Draw in and name all roads adjoining the property. Draw in and accurately dimension the lot concerned. Accurately indicate property boundaries proposed and/or existing structures and driveways, underground utilities, and wells and springs within 100 feet of the proposed building or drainfield.



Vina Accomazzo.
OWNER/AGENT SIGNATURE

DATE 1-4-00

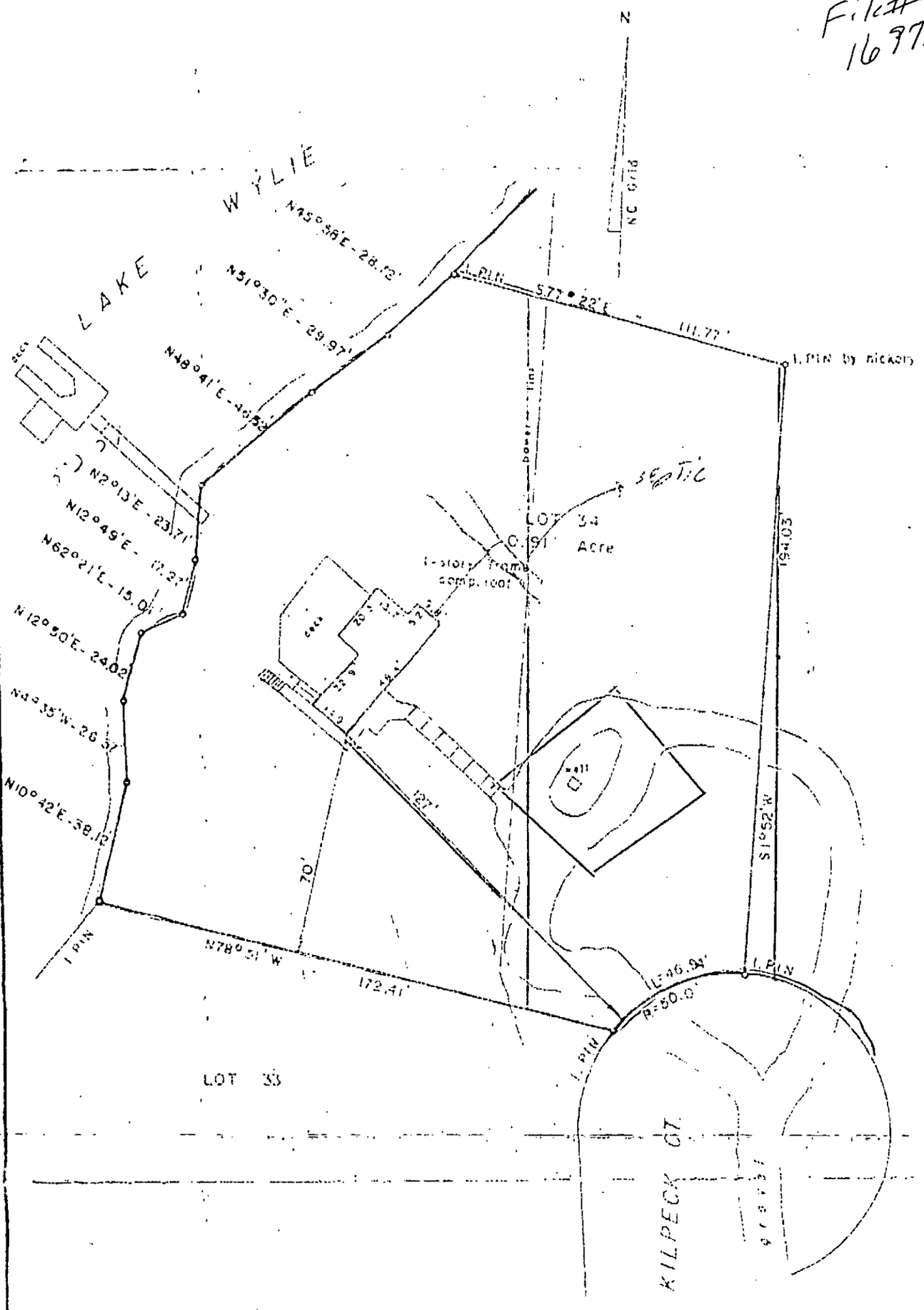
APPROVAL DATE _____

White - Health Department's Copy Canary - E.H.S. Copy Pink - Owner's Copy

THIS IS TO CERTIFY THAT ON THE 6th DAY OF MAY 19... I SURVEYED THE PROPERTY SHOWN ON THIS PLAT, AND THAT THE TITLE LINES AND THE WALLS OF THE BUILDINGS IF ANY ARE SHOWN HEREON.

SIGNED.. Paul J. Zambarello
REGISTERED SURVEYOR

File # 16971


N
NC 6718
LAKE WYLIE
N45°56'E - 28.12'
N31°30'E - 29.97'
N48°41'E - 40.53'
N2°13'E - 23.71'
N12°49'E - 0.22'
N62°21'E - 15.01'
N12°50'E - 24.02'
N44°35'W - 26.37'
N10°42'E - 58.12'
I. PIN
S77°22'E
111.77'
I. PIN by Nickson
Power line
SEPTIC
LOT 34
0.91 Acre
1-story frame comp. 1001
20'
22.5'
2.6'
49.4'
12.9'
1.3'
4.3'
1.3'
12.9'
4.3'
12.9'
1.3'
4.3'
12.9'
1.3'
4.3'
12.9'
1.3

113-302-38

Nyra Brannan
3477 Brighton Court
Concord, NC 28027
(704) 784-9313

To - Mark and Alvina Accomazzo
5129 MacAndrew Dr.
Charlotte, NC 28226-3235
Phone (704) 541-7613

Date - 12/30/99

Re - My property [Lot 34 Lake Wiley Section 37, Map Book 18 Page 50 / Steele Creek Township] which is located at 7000 Kilpeck Court, Charlotte, NC 28208

AUTHORIZATION FOR PERK TEST

This letter is your authority to have a perk test performed on the above referenced property which I own.

The cost of this test is to be at your expense.

Nyra B. Brannan

Nyra B. Brannan, Owner
(former married name Nyra B. Harley)

DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL HEALTH
ON-SITE WASTEWATER SECTION

AS #2

Sheet: _____
Property ID: 113-302-39
Lot #: 34
File #: 16977

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER: Myra B. Brannon APPLICANT: _____
ADDRESS: 3477 Brighton Ct. Concord DATE EVALUATED: 1-12-00
PROPOSED FACILITY: residence PROPOSED DESIGN FLOW (.1949) 480gpd/PROPERTY SIZE: .91
LOCATION OF SITE: 7000 Kilpeck Ct. PROPERTY RECORDED: _____
WATER SUPPLY: ☒Private ☐Public ☒Well ☐Spring ☐Other _____
EVALUATION METHOD: ☐Augur Boring ☐Pit ☐Cut
TYPE OF WASTEWATER: ☒Sewage ☐Industrial Process ☐Mixed

PROFILE #	.1940 Landscape Position/ Slope %	Horizon Depth (IN.)	SOIL MORPHOLOGY (.1941) .1941 STRUCTURE/ TEXTURE	SOIL MORPHOLOGY (.1941) .1941 CONSISTENCE MINERALOGY	OTHER PROFILE FACTORS .1942 SOIL WETNESS/ COLOR	OTHER PROFILE FACTORS .1943 SOIL DEPTH	OTHER PROFILE FACTORS .1956 SAPRO CLASS	OTHER PROFILE FACTORS .1944 RESTR HORIZ	PROFILE CLASS &LTAR
1	LS 27%	0-3"	grlcl	Fr/SEXPl SS/SP	>48" TO soil wetness	48"+	N/A	None	PS .39/Fz IV
		3-30"	SBKl / C	Fi/SEXPl S/P					
		30-48"	SBKl SCl	Fr/SEXPl SS/SP					
2	LS 20%	0-4"	grl scl	Fr/SEXPl SS/SP	>48" TO soil wetness	48"+	N/A	None	PS .39/Fz IV
		4-37"	SBKl C	Fi/SEXPl S/P					
		37-48"	SBKl SCl	Fr/SEXPl SS/SP					

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	US	
System Type(s)		
Site LTAR		

OTHER FACTORS (.1946): _____
SITE CLASSIFICATION (.1948): Unsuitable
EVALUATED BY: W.A. Martin LSS 1-13-00
OTHER(S) PRESENT: _____

FILE # 16971

COMMENTS Lot probably does not qualify for new system near existing system

LANDSCAPE POSITION	GROUP	TEXTURE	.1955 LTAR
R-RIDGE	I	S-SAND	1.2-0.8
S-SHOULDER SLOPE		LS-LOAMY SAND	
L-LINEAR SLOPE			
FS-FOOT SLOPE	II	SL-SANDY LOAM	0.8-0.6
N-NOSE SLOPE		L-LOAM	
H-HEAD SLOPE			
CC-CONCLAVE SLOPE	III	SI-SILT	0.6-0.3
CV-CONVEX SLOPE		SICL-SILTY CLAY LOAM	
T-TERRACE		CL-CLAY LOAM	
FP-FLOOD PLAIN		SCL-SANDY CLAY LOAM	
	IV	SC-SANDY CLAY	0.4-0.1
		SIC-SILTY CLAY	
		O-ORGANIC	

CONSISTENCE MOIST	CONSISTENCE WET
VFR-VERY FRIABLE	NS-NON-STICKY
FR-FRIABLE	SS-SLIGHTLYSTICKY
FI-FIRM	S-STICKY
VFI-VERY FIRM	VS-VERY STICKY
EFI-EXTREMELY FIRM	NP-NON-PLASTIC
	SP-SLIGHTLYSTICKY
	P-PLASTIC
	VP-VERY PLASTIC

STRUCTURE	MINERALOGY
SG-SINGLE GRAIN	SLIGHTLY EXPANSIVE
M-MASSIVE	
CR-CRUMB	EXPANSIVE
GR-GRANULAR	
SBK-SUBANGULAR BLOCKY	
ABK-ANGULAR BLOCKY	
PL-PLATY	
PR-PRISMATIC	

