File 5794B App 7561 No fee changes

MECKLENBURG COUNTY
HEALTH DEPARTMENT

APPLICATION FOR A RESIDENTIAL SITE IMPROVEMENT PERMIT/ CONSTRUCTION AUTHORIZATION FOR AN ON-SITE WASTEWATER SYSTEM, NEW WELL INSTALLATION, OR REPAIR OF EXISTING WELL

1. **SEPTIC / TYPE APPLICATION:** ○ N/A ◉ NEW SYSTEM ○ ALTERATION ○ REPAIR ○ MODIFIED PLOT PLAN

2. **WELL / TYPE APPLICATION:** ◉ N/A ○ NEW WELL ○ MAJOR REPAIR ○ ABANDONMENT

3. **JOB LOCATION INFORMATION:**
TAX PARCEL NUMBER: 01942117
STREET ADDRESS: 15622 Mac Wood Rd
CITY: Huntersville
STATE: NC ZIP: 28078
SUBDIVISION NAME: MacWoods
LOT #: 2 LOT SIZE (acres): 1
TOWNSHIP:
◉ MECKLENBURG ○ CORNELIUS ○ HUNTERSVILLE
○ DAVIDSON ○ CHARLOTTE ○ PINEVILLE
○ MATTHEWS ○ MINT HILL

4. **BUILDING INFORMATION:**
BUILDING TYPE:
○ SINGLE MOBILE HOME ○ MODULAR HOME
○ DOUBLE WIDE ○ MULTIPLE FAMILY
◉ HOUSE ○ OTHER
HEATED SQUARE FOOTAGE: 2500
NUMBER OF BEDROOMS: 3
NUMBER OF OCCUPANTS: 6
FOUNDATION TYPE:
○ CONCRETE SLAB ○ BASEMENT WITH PLUMBING
◉ CRAWL SPACE ○ BASEMENT WITH NO PLUMBING

5. **IF PLANNING TO EXPAND OR ALTER THE EXISTING SEPTIC SYSTEM PLEASE COMPLETE THE FOLLOWING SECTION:** ☑ N/A

NUMBER OF BEDROOMS TO BE ADDED: _____ NUMBER OF ADDITIONAL OCCUPANTS IN THE RESIDENCE: _____

6. **WATER SUPPLY:** ○ MUNICIPAL ◉ PRIVATE WELL ○ PUBLIC WELL ○ SHARED WELL ○ OTHER _____

7. **PROPOSED USE OF WELL:** ◉ N/A ○ IRRIGATION ○ POTABLE (DRINKING WATER) ○ OTHER _____

8. **PLEASE INDICATE AND RANK DESIRED SEPTIC SYSTEM TYPE(S) IN ORDER OF PREFERENCE** *(1-MOST DESIRED 5-LEAST DESIRED):*
☐ N/A ☐ ANY TYPE ☐ CONVENTIONAL ☐ ACCEPTED ☐ INNOVATIVE ☐ ALTERNATIVE ☑ OTHER sand-lined

8A. **RANK:** ____ ____ ____ ____ ____

9. **DO ANY OF THE FOLLOWING APPLY TO THE PROPERTY IN QUESTION? IF "YES" PLEASE ATTACH SUPPORTING DOCUMENTATION.**

BURIED CABLES, LANDFILLS, STUMPHOLES	○ YES ◉ NO	GRADING/SOIL REMOVAL PERFORMED	○ YES ◉ NO
EXISTING WASTEWATER (SEPTIC) SYSTEMS	○ YES ◉ NO	JURISDICTIONAL WETLANDS	○ YES ◉ NO
WELLS, SPRINGS, OR WATER LINES	◉ YES ○ NO	APPROVAL REQUIRED BY ANY OTHER PUBLIC AGENCY	○ YES ◉ NO
EASEMENTS OR RIGHT-OF-WAYS	○ YES ◉ NO	WASTEWATER OTHER THAN DOMESTIC SEWAGE	○ YES ◉ NO
CHEMICAL/PETROLEUM STORAGE TANKS	○ YES ◉ NO	KNOWN UNDERGROUND CONTAMINATION	○ YES ◉ NO
WASTE STORAGE	○ YES ◉ NO	GROUNDWATER USE RESTRICTIONS/VARIANCES	○ YES ◉ NO

10. **WHAT DATE WAS THE PROPERTY ORIGINALLY DEEDED AND RECORDED?** 02/08/2005 ☐ UNKNOWN

11. **WHAT IS THE ANTICIPATED CLOSING DATE FOR THIS PROPERTY?** _____ ☑ N/A

12. **PROPERTY OWNER:**
NAME: Anwar and Lisa Karim
ADDRESS: 16434 Grapperhall Dr
CITY: Huntersville
STATE: NC ZIP: 28078
WORK PHONE: _____
MOBILE PHONE: 704-728-6162
FAX: _____
E-MAIL: braketech@live.com

13. **OWNER'S LEGAL REPRESENTATIVE, IF APPLICABLE:**
NAME: Rich Sossa
ADDRESS: 18135 W. Catawba Ave
CITY: Cornelius
STATE: NC ZIP: 28031
WORK PHONE: 704-902-9057
MOBILE PHONE: 704-902-9057
FAX: 704-625-1766
E-MAIL: RichSossa@gmail.com

14. SEPTIC SYSTEM PERMIT APPLICATION:

If the information in this application is falsified, changed, or the site is altered, then the Improvement Permit and Authorization to Construct shall become invalid. I have read this application and certify that the information provided herein is true, complete and correct. Authorized county and state officials are granted right of entry to conduct necessary inspections to determine compliance with applicable laws and rules. I understand that I am solely responsible for the proper identification and labeling of all property lines and corners and making the site accessible so that a complete site evaluation can be performed. The permit is valid for either sixty (60) months or is non-expiring depending upon the documentation submitted: complete site plan = 60 months, complete plat = non-expiring.

RS (Initial here for septic system applications)

15. WELL PERMIT APPLICATION:

If the information in this application is falsified, changed, or the site is altered, then the Well Permit shall become invalid. I have read this application and certify that the information provided herein is true, complete and correct. Authorized county and state officials are granted right of entry to conduct necessary inspections to determine compliance with applicable laws and rules. I understand that I am solely responsible for the proper identification and labeling of all property lines and corners and making the site accessible so that a complete site evaluation can be performed. The permit is valid for a period of twelve (12) months from the date of issuance.

RS (Initial here for well applications)

16. APPLICATION SIGNATURE SECTION:

ONLY COMPLETE APPLICATIONS WILL BE PROCESSED. A proper signature is required in order to process your application. Please review the application carefully and sign in the space provided below. A PROPOSED PLOT PLAN is required to be submitted with each application.

DocuSigned by: Rich Sossa 16EAFF54AAA648D...

Rich Sossa

Property Owner's or Owner's Legal Representative Signature

06/12/205

Date

OFFICE USE ONLY

O SURVEY PLAT TO SCALE SUBMITTED O SCALED SITE PLAN SUBMITTED O UN-SCALED SITE PLAN SUBMITTED

SEPTIC APPLICATION FEE RECEIVED: $ _____ DATE FEE RECEIVED: _____

WELL APPLICATION FEE RECEIVED: $ _____ DATE FEE RECEIVED: _____

APPLICATION PROCESSED BY: Val Weeks

GWS FILE NUMBER ASSIGNED: 57943

APPLICATION ID NUMBER ASSIGNED: 7561

COMMENTS:

MECKLENBURG COUNTY – GROUNDWATER & WASTEWATER SERVICES
700 N. TRYON ST. SUITE 211 CHARLOTTE, NC 28202, OFFICE: 704-336-5103, FAX: 704-336-6894

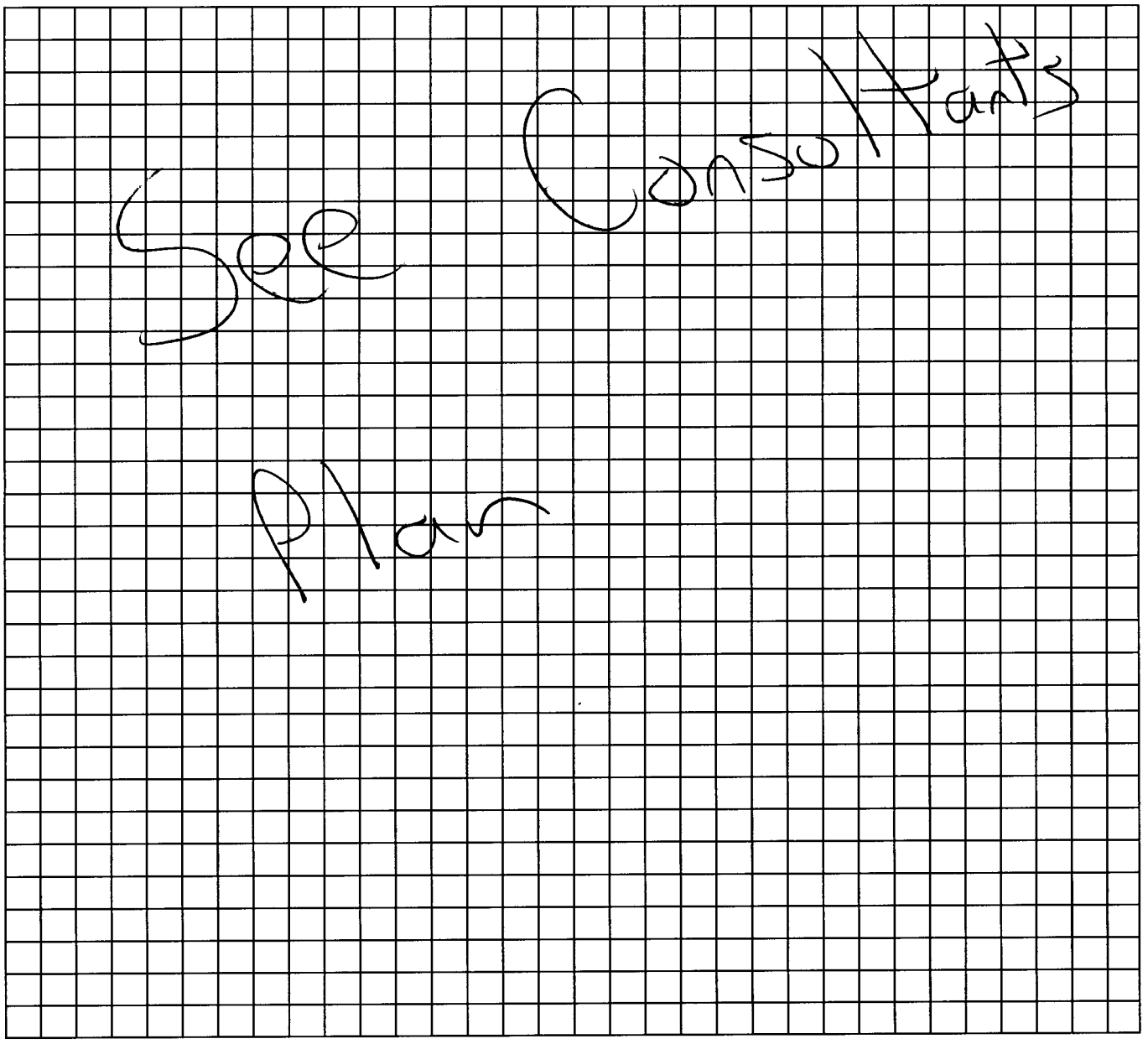
File #: _____

PROPOSED PLOT PLAN

A drawing showing the locations of the following items is required: existing and proposed property lines with dimensions, easements or right-of-ways, proposed building pad(s) or existing building footprint(s), all appurtenances (garage, driveway, deck, pool, etc.), location of existing or proposed well(s), location of existing or proposed sewer lines and sewage disposal systems, surface water bodies, and any aboveground or underground storage tanks. Provide names for all roads that adjoin the property.

Street Address: _____ Tax Parcel #: _____

Subdivision Name: _____ Lot #: _____



_____ _____

Property Owner's or Owner's Legal Representative Signature Date

MECKLENBURG COUNTY – GROUNDWATER & WASTEWATER SERVICES
700 N. TRYON ST. SUITE 211 CHARLOTTE, NC 28202, OFFICE: 704-336-5103, FAX: 704-336-6894

Revised on: 12/15/10

DocuSign Envelope ID: 9A971EB3-7FB8-4B20-8D33-E65995B4153F

MECKLENBURG COUNTY
Health Department

E. Winters Mabry, MD
Director

(704) 432-3199

Addendum to Application for
New Well or Septic System Installation
Abandonment or Repair of Existing Well or Septic System

Your signature below confirms the following:

1. The information on the application is true, complete and accurate.
2. Authorized county and state officials are granted right of entry to conduct necessary inspections to determine compliances with applicable laws and rules.
3. I acknowledge that Rich Sossa is acting as my legal representative (agent) in the submittal of the application for a water supply well or septic permit located at 15622 Mac Wood Rd , Huntersville (Pin# 01942117).

Number Street Town
(Or Parcel Number)

Anwar Karim
Property Owner (print name)

DocuSigned by:
Anwar Karim
Property Owner (signature)

6/12/2015
Date

Mecklenburg County Groundwater & Wastewater Services
700 N. Tryon St, Suite 211 Charlotte, NC 28202
Phone: (704) 336-5103 Fax: (704) 336-6894

NC DENR
Division of Environmental Health
On-Site Wastewater Section

IMPROVEMENT PERMIT for a RESIDENTIAL ON-SITE WASTEWATER TREATMENT & DISPOSAL SYSTEM

Permit #: **30007561** GWS File #: **5794B** Tax Parcel #: **019-421-24**

- This 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.

I. This Improvement Permit Shall: Expire in Five (5) Years **Expiration Date (If Applicable):** 6/19/2020

Type of Installation: Residential - New System Lot Number: 2

Structure Type: HOUSE Size (ft^2): 2500 # Bedrooms: 3 # Occupants: 6

Building Foundation: Crawl Space Water Supply: Private Well

II. Initial System Type: Pump to Conventional Sand Lined, LP **System Classification:** Va

Initial System Specifications: Trench System

Design Flow (gpd):	360	LTAR (gpd/ft^2):	0.2	Septic Tank Size (gal):	1000	Pump Tank Size (gal):	1000
Trench Width (ft):	3	Trench Spacing (ft):	9	Absorption Area (ft^2):	1800	Total Trench Length (ft):	600
Maximum Trench Depth (in):	60	Depth of Media (in):	48	Distribution Device:	Pressure Manifold		

III. Repair System Type: Low Pressure Pipe (LPP) **System Classification:** Vd

Repair System Specifications: Sand Lined Trench System with TS-1 Pretreatment LP

Design Flow (gpd):	360	LTAR (gpd/ft^2):	0.3	Septic Tank Size (gal):	1000	Pump Tank Size (gal):	1000
Trench Width (ft):	3	Trench Spacing (ft):	9	Absorption Area (ft^2):	1200	Total Trench Length (ft):	400
Maximum Trench Depth (in):	60	Depth of Media (in):	48	Distribution Device:	Manifold (LPP Distri		

IV. Permit Conditions/Comments:

(Please See the Following Page for Permit Conditions.)

The undersigned, an authorized agent of the STATE OF NORTH CAROLINA, certifies that the Department is issuing an IMPROVEMENT PERMIT for the above referenced property. This permit is being issued in accordance with the *Laws and Rules For Sewage Treatment, and Disposal Systems* and is subject to the following provisions:

- No work shall be conducted on the septic system until a Pre-Construction meeting has been completed by the Department.
- The septic system installer shall be a licensed septic contractor with the North Carolina Wastewater Contractor Inspector Certification Board.
- The permitted system shall be installed in accordance with the included PLOT PLAN.
- This IMPROVEMENT PERMIT is transferable.

Authorized Agent: Jacob Presley

Signature: JPP

Date Issued: 6/19/2015

Owner/Legal Agent: Print Name

Signature:

Mecklenburg County Groundwater & Wastewater Services
700 N. Tryon St, Suite 211 Charlotte, NC 28202
Phone: (704) 336-5103 Fax: (704) 336-6894

NC DENR
Division of Environmental Health
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Maximum Trench Depth (in): 60 Depth of Media (in): 48 Distribution Device: Pressure Manifold

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Authorized Agent: Jacob Presley Owner/Legal Agent: _____
Print Name

Signature: _____ Signature: _____

Date Issued: 6/19/2015

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700 N. Tryon St, Suite 211 Charlotte, NC 28202
Phone: (704) 336-5103 Fax: (704) 336-6894

NC DENR
Division of Environmental Health
On-Site Wastewater Section

IMPROVEMENT PERMIT for a RESIDENTIAL ON-SITE WASTEWATER TREATMENT & DISPOSAL SYSTEM

Permit #: **30007561** GWS File #: **5794B**

IV. Permit Conditions/Comments:

- This type of septic system requires an inspection once every year by our office. The system owner is responsible for any fees, as determined by the Mecklenburg County Board of Commissioners, associated with this inspection.
- This type of septic system requires a Certified Operator to maintain the system. A system maintenance contract with a Certified Operator must be on file prior to issuance of an Operation Permit.
- The septic system shall be installed in accordance with the plans submitted by the wastewater system design consultant.
- All components of the septic system must be located at least 100 ft. from all private wells (saprolite system).
- All waterlines must be located a minimum of 10 ft. from any part of the septic system.
- Upon completion of the project the system designer shall provide Groundwater & Wastewater Services with a letter certifying that the system was installed in accordance with the approved design.
- Flow from all gutters and downspouts shall be directed not to discharge water onto or across any part of the septic system.
- The septic system shall be located at least 25 feet from any foundation drain.
- PERMIT WILL BE REVOKED IF HOUSE AND DRIVEWAY ARE NOT CONSTRUCTED WHERE SHOWN ON CONSULTANT'S PLOT PLAN.

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Authorized Agent: Jacob Presley

Signature: _____

Date Issued: 6/19/2015

Owner/Legal Agent: Zion Sessie
Print Name

Signature: _____

Mecklenburg County Groundwater & Wastewater Services
700 N. Tryon St, Suite 211 Charlotte, NC 28202
Phone: (704) 336-5103 Fax: (704) 336-6894

NC DENR
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Authorized Agent: Jacob Presley

Signature: _____

Date Issued: 6/19/2015

Owner/Legal Agent: _____
Print Name

Signature: _____

ON-SITE WASTEWATER SOIL/SITE EVALUATION REPORT

for

ANWAR AND LISA KARIM
15622 MACWOOD ROAD
Pin #01942117
MECKLENBURG COUNTY

GWS Septic System Design Review

	Approved	Disapproved
GWS File #: 5794B	☑	☐
Design Review:	☑	☐
Field Review:		

*Projects are not considered "APPROVED" until both sections above are completed and indicate an APPROVED status.

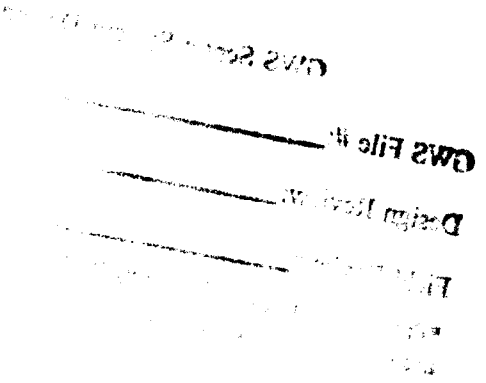
May 21, 2015

Mr. & Ms. Karim,
16434 Grapperhall Drive
Huntersville, NC 28078

This report lists the findings, conclusions and recommendations for the property. A sand lined trench system with a pump is recommended. **This report contains information necessary to obtain an Improvement Permit.** If you have any questions or if I can be of assistance, contact me at (828) 310-0089, E-mail at joe.lynnoswps@yahoo.com.

Sincerely,

Joe Lynn LSS



May 21, 2015

Mr. & Ms. Karim,
16434 Grapperhall Drive
Huntersville, NC 28078

This report lists the findings, conclusions and recommendations for the property. A sand lined trench system with a pump is recommended. **This report contains information necessary to obtain an Improvement Permit.** If you have any questions or if I can be of assistance, contact me at (828) 310-0089, E-mail at joe.lynnoswps@yahoo.com.

Sincerely,

Joe Lynn LSS

INTRODUCTION

COUNTY: Mecklenburg
OWNER/APPLICANT: Anwar & Lisa Karim/Rick Sossa
LOCATION: Macwood Road, Huntersville Pin # 01942117
TYPE OF FACILITY: Residence
DESIGN UNIT: 360 gallons/day
WATER SUPPLY: On-site well

SITE INFORMATION

AREA/USE: 1acre/ grass and trees
TOPOGRAPHY: 2 to 20 percent
LANDSCAPE POSITION: Ridge, linear and foot slopes
SITE LIMITATIONS: Gullies, stream, development restrictions

SOIL INFORMATION

TEXTURE: Surface: Fill, loam
Subsurface: Clay
STRUCTURE: Subangular and angular blocky
CLAY MINERALOGY: Expansive & slightly expansive
SOIL DEPTH: Rock/parent material: 84+ inches
Saprolite: 16 to 40 inches
SOIL WETNESS: Chroma 2 at 15 inches
RESTRICTIVE HORIZONS: N/A
AVAILABLE SPACE: Suitable
LONG TERM ACCEPTANCE RATE:
INITIAL SYSTEM .2 gallons/day square foot of trench bottom
REPAIR: .3 gallons/day square foot of trench bottom

RECOMMENDATIONS

Initial System: A sand-lined trench system 15A NCAC 18A .1956 (7) with a pump and pressure manifold.

Repair System: A sand-lined trench system (same as above) with TS-I pretreatment and pressure dispersal (Low Pressure Pipe) added. I recommend the AdvanTex AX20 pretreatment system from Orenco.

DISCLAIMER

The findings in this report represent my professional opinion about soil and site conditions based upon the information available to me during the evaluation.

Variability in the soils could result in conditions that are unpredictable and different than what I found. Backhoe pits can reveal different soil conditions than those found in auger borings. I cannot guarantee any permits of design daily flows results. Only the Health Department has the regulatory authority to issue septic system permits. They may choose to disagree with my findings based on their own findings. I am not responsible for errors made due to unclear, unknown, or misrepresented property lines. I am not responsible for difficulties caused by the location of overlooked critical features (such as wells, water lines, streams, septic systems, buildings, etc.) on this or neighboring property.

There are other circumstances beyond the scope of this report that could create problem that might deny the use of the property as desired. Some of these include: zoning laws, excessive grading, and misallocations of houses, drives, property lines, wells, and utilities. Buried utilities and culvert runoff should not cross drainfields, septic tanks, or repair areas.

Repair System: A sand-lined trench system (same as above) with TS-I pretreatment and pressure dispersal (Low Pressure Pipe) added. I recommend the AdvanTex AX20 pretreatment system from Orenco.

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RESIDENTIAL PUMP SYSTEM

Linear feet of trench 600 X .65 gallons/foot of trench = 390 gallons

Dose volume 390 gallons x .70 = 273 gallons/dose

Flow rate and scour velocity
Minimum of 21 gpm for two inch SCH 40 pipe
Pressure manifold with 8 SCH 40 ½ inch taps
8 taps x 7.11 gal/min/tap = 56.88 gal/minute

Total Dynamic Head 55 feet
Elevation head 30 feet
Friction Head 23 feet
Pressure Head 2 feet
Total 55

Pump requirements 57 gpm at 55 feet TDH

Pump draw down/dose
Dellinger Precast top seam tank 21.5 gallons/inch
270 gal/dose divided by 21.5 gal/inch = 12.7 inch draw down

NOT TO BE USED FOR SYSTEM INSTALLATION, FOR IMPROVEMENT PERMIT ONLY

Groundwater & Wastewater Services
Septic Project File & Data Review Worksheet

GWS File #: 5794B WASPS App #: 7561

Primary ES assigned to project: _____

Secondary ES assigned to project: _____

Project Type: New System ☑ Alteration ☐ Repair ☐ Modified Plot Plan ☐

I. File Review:

Rule or Law	Permit Application			
.1937(d)	Is the Application complete	Yes ☑	No ☐	N/A ☐
.1937(d)	Is there a Site plan/Plat with application	Yes ☑	No ☐	N/A ☐
.1937(d)	Is the Facility shown?	Yes ☑	No ☐	N/A ☐
.1937(d)	Are appurtenances shown	Yes ☑	No ☐	N/A ☐
	Site Evaluation Information			
.1939 (a)(1)	Topography and Landscape Position Recorded?	Yes ☑	No ☐	N/A ☐
.1940 (a-g)	Slope % Recorded?	Yes ☑	No ☐	N/A ☐
.1939 (a)(2)	Texture Class Recorded?	Yes ☑	No ☐	N/A ☐
.1939 (a)(2)	Structure type Recorded?	Yes ☑	No ☐	N/A ☐
.1939 (a)(2)	Consistence Recorded?	Yes ☑	No ☐	N/A ☐
.1939 (a)(2)	Mineralogy Recorded?	Yes ☑	No ☐	N/A ☐
.1939 (a)(3)	Soil Wetness Condition Recorded?	Yes ☑	No ☐	N/A ☐
.1939 (a)(4)	Soil Depth to Rock or Parent Material Recorded When Encountered	Yes ☑	No ☐	N/A ☐
.1939 (a)(5)	Depth to Restrictive Horizons Recorded When Encountered?	Yes ☑	No ☐	N/A ☐
.1939 (a)(6)	Sufficient Available Space Recorded?	Yes ☑	No ☐	N/A ☐
.1937(m)	Are the Profile Locations Shown?			
.1939(a)	Are the S/PS Profiles in system & in repair area?	Yes ☑	No ☐	N/A ☐
& .1945(b)	Number of auger borings made: 5 Were sufficient auger borings made?	Yes ☑	No ☐	N/A ☐
.1939(d), .1955, .1956, .1957	LTAR Initial 0.2 Repair 0.3 w/pre treatment	Yes ☑	No ☐	N/A ☐
	Improvement Permit/Construction Authorization			
.1937(g) 130A-336(a)	Proposed System Type stated-Initial	Yes ☑	No ☐	N/A ☐
.1945(b)	Proposed System Type stated-Repair	Yes ☑	No ☐	N/A ☐
130A-336 (a)(3)	System location identifiable by setbacks - Initial	Yes ☑	No ☐	N/A ☐
.1937(g) .1945(b)	System components shown – Initial	Yes ☑	No ☐	N/A ☐
.1945(b)	Repair area shown	Yes ☑	No ☐	N/A ☐
.1937 (f)(g)	Does System design match facility, flow & WWcharacteristics?	Yes ☑	No ☐	N/A ☐
.1937 (f)(g)	Is System design consistent with soil/site conditions?	Yes ☑	No ☐	N/A ☐
.1937 (f)(g)	Is the System located in the approved area?	Yes ☑	No ☐	N/A ☐
130A-336(a)	Is the Design flow (gpd) indicated?	Yes ☑	No ☐	N/A ☐

130A-336(a)	Number of Bedrooms, employees, seats, etc. indicated?	Yes ☑	No ☐	N/A ☐
.1937(g)	Trench depth indicated?	Yes ☑	No ☐	N/A ☐
.1937(g)	Trench width indicated?	Yes ☑	No ☐	N/A ☐
.1937(g)	Trench length indicated?	Yes ☑	No ☐	N/A ☐
130A-336(a)(1)	Proposed/existing well shown?	Yes ☑	No ☐	N/A ☐
130A-336(a)(1)	Property line lengths shown?	Yes ☑	No ☐	N/A ☐
130A-336(a)	Facility/appurtenance setbacks shown from fixed points?	Yes ☑	No ☐	N/A ☐
	Operation Permit			
.1937(i)	System type as described in table V(a) of rule .1961	Yes ☐	No ☐	N/A ☐
.1937(i)	Conditions for system performance, operation, maintenance, monitoring and reporting.	Yes ☐	No ☐	N/A ☐

II. WASPS Review:

Construction authorization issued	Yes ☐	No ☐	N/A ☐
Installation approval issued	Yes ☐	No ☐	N/A ☐
Operation permit issued	Yes ☐	No ☐	N/A ☐
Other related documentation	Yes ☐	No ☐	N/A ☐

Items requiring correction/modification: _____

Comments:

_____

_____

_____

_____

_____

IA issued date: _____

OP issued date: _____

Review performed by: SAM _____ Date performed: _____

WASTEWATER SYSTEM COMPONENTS

NOT TO BE USED FOR INSTALLING SYSTEM FOR IMPROVEMENT PERMIT ONLY

1,000-gallon septic tank
1,000-gallon pump tank
Pump Total Dynamic Head of 55 feet and 57 gallons/minute (*this must be recalculated once house location, house size, septic tank, and pump tank locations are finalized by the buyer of the lot*).
Control panel & floats
Supply line, about 280 feet of 2 inch (typically) Sch 40 PVC pressure pipe and fittings
600 linear feet of 3-foot wide trench with 2 to 3 feet of sand and 1 foot of tire chips.
Six hundred linear feet of 3 feet wide trench installed at a depth of 5 feet will be required. The trenches will be backfilled with sand (ASTM C-33) to within 24 inches of the soil surface, then 12 inches of approved tire chips placed in the trenches, soil backfilled added to trench, and the site crowned to shed surface water. Chambers or polystyrene aggregate may be substituted for the tire chips. I recommend tire chips, as they are a bit cheaper than the other 2 options.

SITE PREPARATION

The initial system and repair area are in the cleared part of the site. No grading can be done in this area. The house must be at least 25 feet from any part of the drainfield. The drive will have to be installed carefully; no grading that will cut deeper than 1 foot will be possible. Fill material will probably have to be added to establish a drive. No part of the drive can encroach on the system or repair area.

SYSTEM INSTALLATION

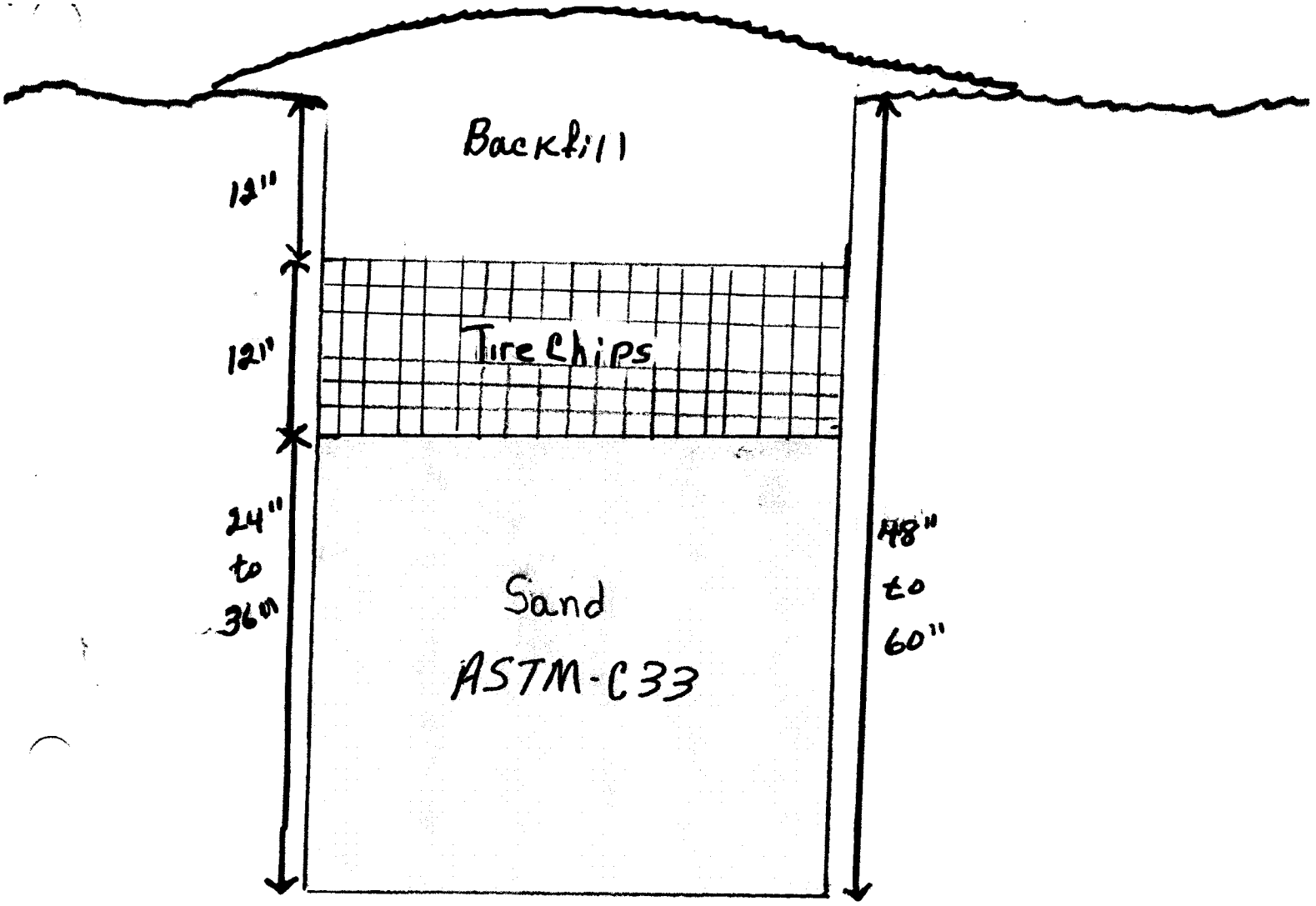
The initial system, well, house, driveway etc. must be located as shown in the Improvement Permit and Authorization to Construct. The property line between lot #2 and the open space lot must be located before system installation. The initial system must be located on site before the installation begins, consult with environmental health. Trench construction must begin 10 feet from the open space lot and lot #2 property line. Trench depth at the beginning will be 5 foot deep and gradually getting shallower, due to the system not being on contour. The systems must be installed when the soil is not wet. Consult Environmental Health about soil wetness and system installation.

Well across stream, 100 feet from the tanks and 50 feet from the stream.

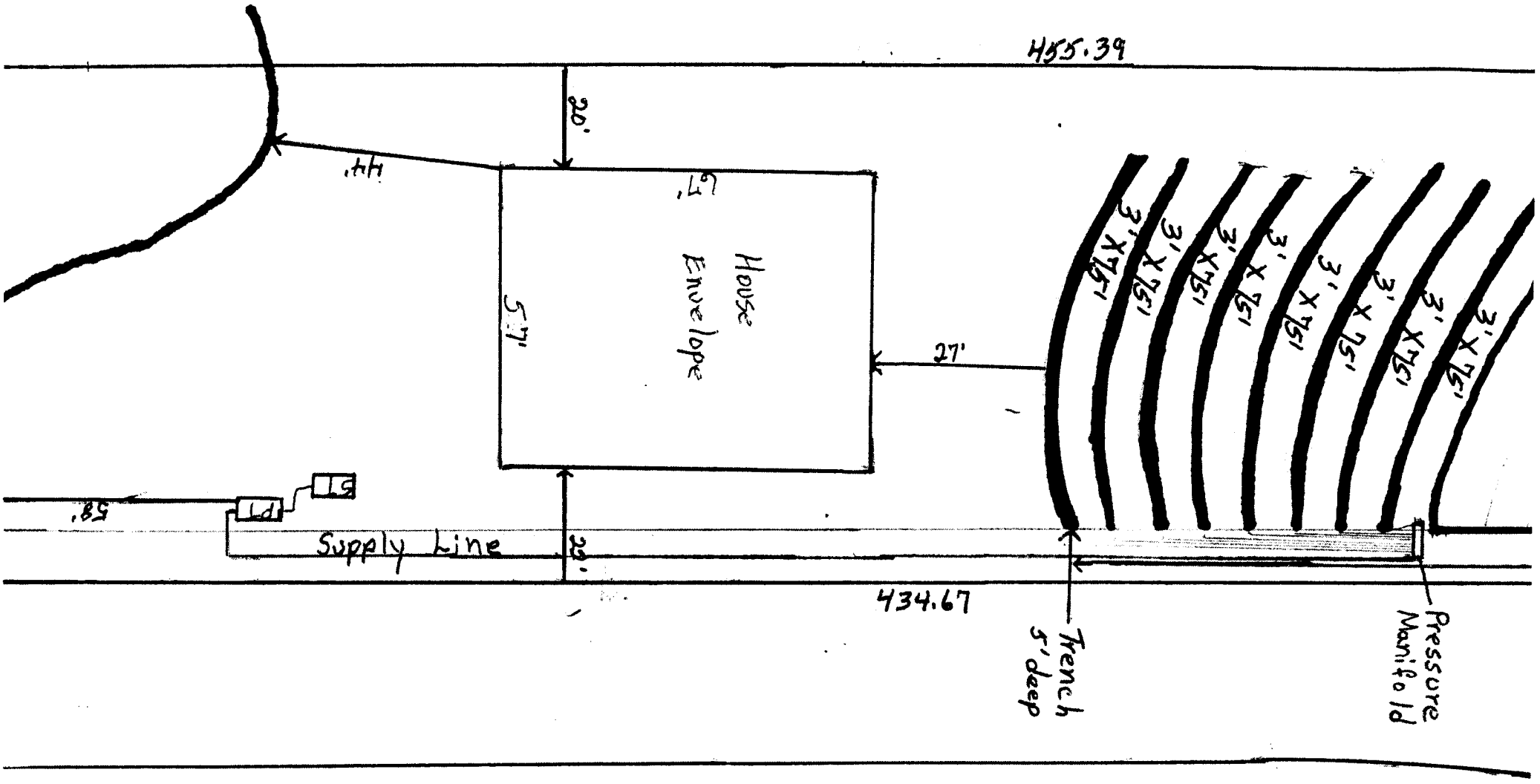
SYSTEM INSTALLATION

The initial system, well, house, driveway etc. must be located as shown in the Improvement Permit and Authorization to Construct. A surveyor must locate the property line between lot #2 (Pin # 01942117) and the open space lot (Pin # 01942124) before system installation. The initial system must be located on site before the installation begins, consult with environmental health. Trench construction must begin 10 feet from the open space lot and lot #2 property line. Trench depth at the beginning will be 5 foot deep and gradually getting shallower, due to the system not being on contour. The systems must be installed when the soil is not wet. Consult Environmental Health about soil wetness and system installation.

Well across stream, 100 feet from the tanks and 50 feet from the stream.



Construction Authorization will have details on trench depth.



Foxlyn Trail Court

SOIL/SITE EVALUATION
FOR ON-SITE WASTEWATER SYSTEM

Owner/Applicant Anwar & Lisa Karim		**Date Evaluated** 12/12/2014	
Address		**County/ PIN #** Mecklenburg	
Facility Residence	**Design Flow** 360 gal/day	**Property Size** 1 acre	
Location/Road Macwood Road		**Subdivision/Lot #**	
Water Supply	**Private Well X**	**Public**	**Community Well**
Evaluation Method	**Auger Boring**	**Pit X**	**Cut**
Type of Wastewater	**Sewage X**	**IPWW**	**Mixed**

Profile #	Landscape position & slope .1940	Horizon depth in.	Texture structure .1941	Consistency Mineralogy .1941	Soil wetness color .1942	Soil depth .1943 in.	Saprolite Class. .1956	Profile classification & LTAR
1	R	0-11	Fill					
		11-13	L GR	FR				U
		13-16/18	C ABK	FI VS-VP		16/18		
		16/18-32	SCL SAP	S-P			U	
		32-86	SL SAP	FR			PS	
2	LS	0-5/6	Fill					
	2/3 %	5/6-8/10	LGR	FR				
		8/10-19	C ABK	VS-VP		19		
		19-42	SCL/SL SAP	VS-VP			U	U
		42-86	SL SAP	FR			PS	
3	LS	0-10/12	Fill					
		10/12-22	C ABK	VS-VP		22		
		22-40	SCL SAP	S-P			U	U
		40-60	SL SAP	FR ¼ FI			PS	
		60-87	SL SAP	FR			PS	
4	FS	0-5	L GR	FR				
	6-8%	5-15	C SK/ABK	FI				
		15-23	C ABK	S-VP	CHROMA 2	23		
		23-33	SCL/SL SAP	FI			U	U
5	R	0-9	Fill					
		9-24	C ABK	VS-VP				
		24-43	SCL SAP	S-P		24	U	U
		43-84	SL SAP	FI < ¼ VFI			PS	

OTHER FACTORS: Reclassified to Provisionally suitable under Rule .1956 (7) Sand Lined Trench
SITE CLASSIFICATION:

Description	Initial System	Repair System
Available Space	S	S
System Type	Sand-lined trench with pump and pressure manifold	Sand-lined trench TS-I pretreatment with LPP distribution
Site LTAR	.2	.3

EVALUATED BY: Joe Lynn
OTHER(S) PRESENT: Jacob Presley, Russell Williams and assistant
COMMENTS: Sand lined trench 4 to 5 feet deep.

use the following standard abbreviations

PE POSITION	GROUP	SOIL TEXTURE	CONVENTIONAL .1995 LTAR*	LPP .1957 LTAR*	MINERALOGY/ CONSISTENCE	STRUCTU
ve Slope)	I	S (Sand)	1.2 - 0.8	0.6 - 0.4	SEXP (Slightly Expansive)	G (Single Gr
x Slope)		LS (Loamy Sand)			EXP (Expansive)	M (Massive)
e Way)						CR (Crumb)
Slump)	II	SL (Sandy Loam)	0.8 - 0.6	0.4 - 0.3		GR (Granula
Plain)		L (Loam)				SBK (Subang
ope)						ABK (Angul
ope)	III	Si (Silt)	0.6 - 0.3	0.3 - 0.15		PL (Platy)
lope)		SiCL (Silty Clay Loam)				PR (Prismati
ope)		CL (Clay Loam)				
		SCL (Sandy Clay Loam)			MOIST	WET
Slope)		SiL (Silt Loam)				
					VFR (Very Friable)	NS (Non
	IV	SC (Sandy Clay)	0.4 - 0.1	0.2 - 0.05	FR (Friable)	SS (Slig
		SiC (Silty Clay)			FI (Firm)	S (Sticky
		C (Clay)			VFI (Very Firm v. Very Sticky)	VS (Very
		O (Organic)	None	None	EFI (Extremely Firm)	NP (Non
						SP (Slig
						P (Plas
						VP (Ver

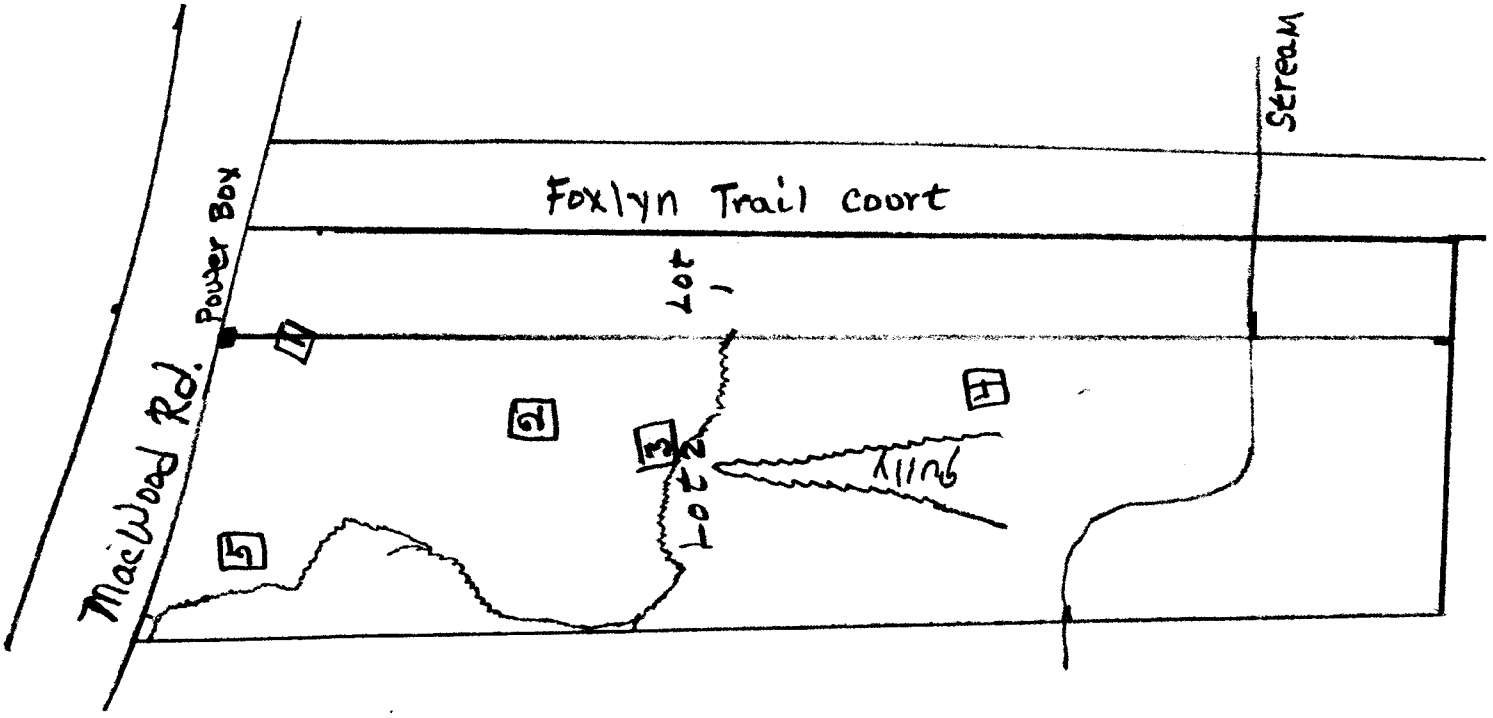
*Adjust LTAR due to depth, consistence, structure, soil wetness, landscape, position, wastewater flow and quality.

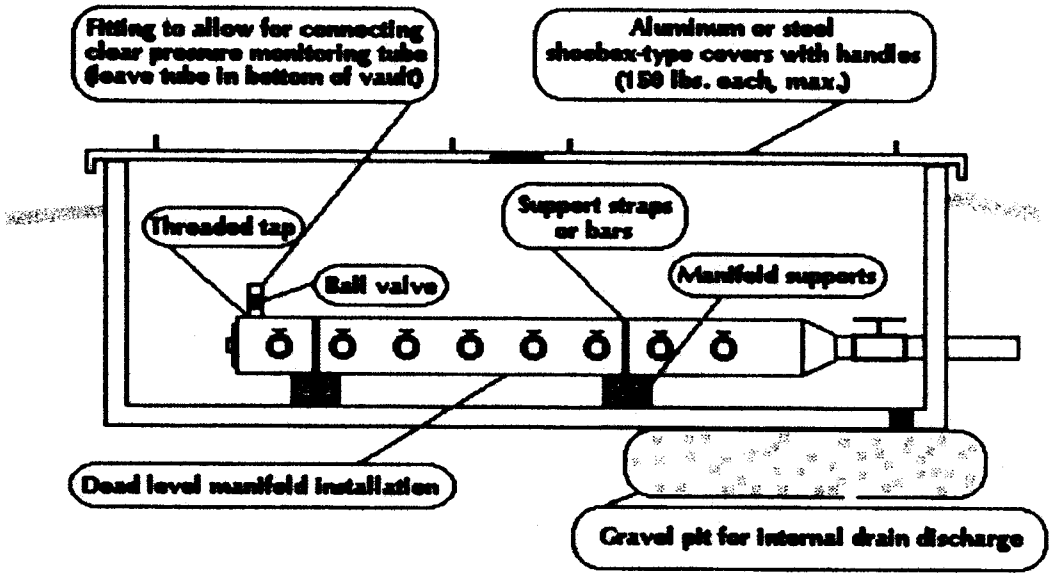
DEPTH	In inches below natural soil surface
F FILL	In inches from land surface
IVE HORIZON	Thickness and depth from land surface
E	S(suitable) or U(unsuitable)
VESS	Inches from land surface to free water or inches from land surface to soil colors with chroma 2 or less - record Munsell color chip designatio
ATION	S (Suitable), PS (Provisionally Suitable), or U (Unsuitable)

of saprolite shall be by pits.

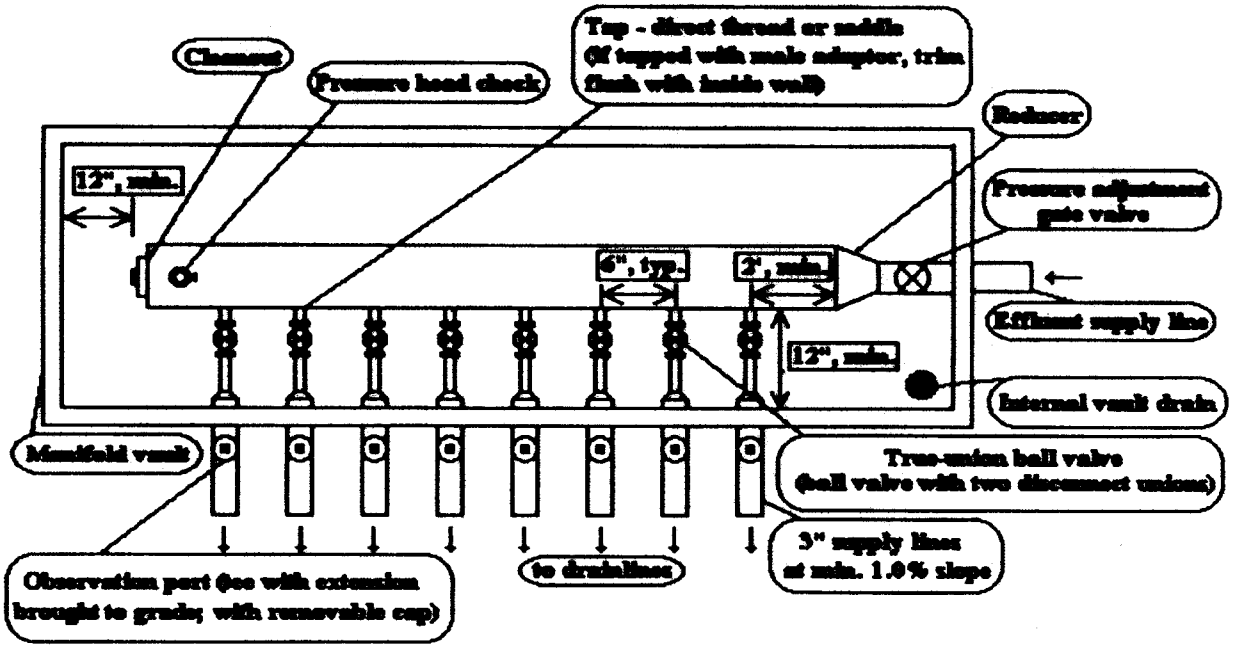
Acceptance Rate (LTAR): gal/day/ft^2

Show profile locations and other site features (dimensions, reference or benchmark, and North).



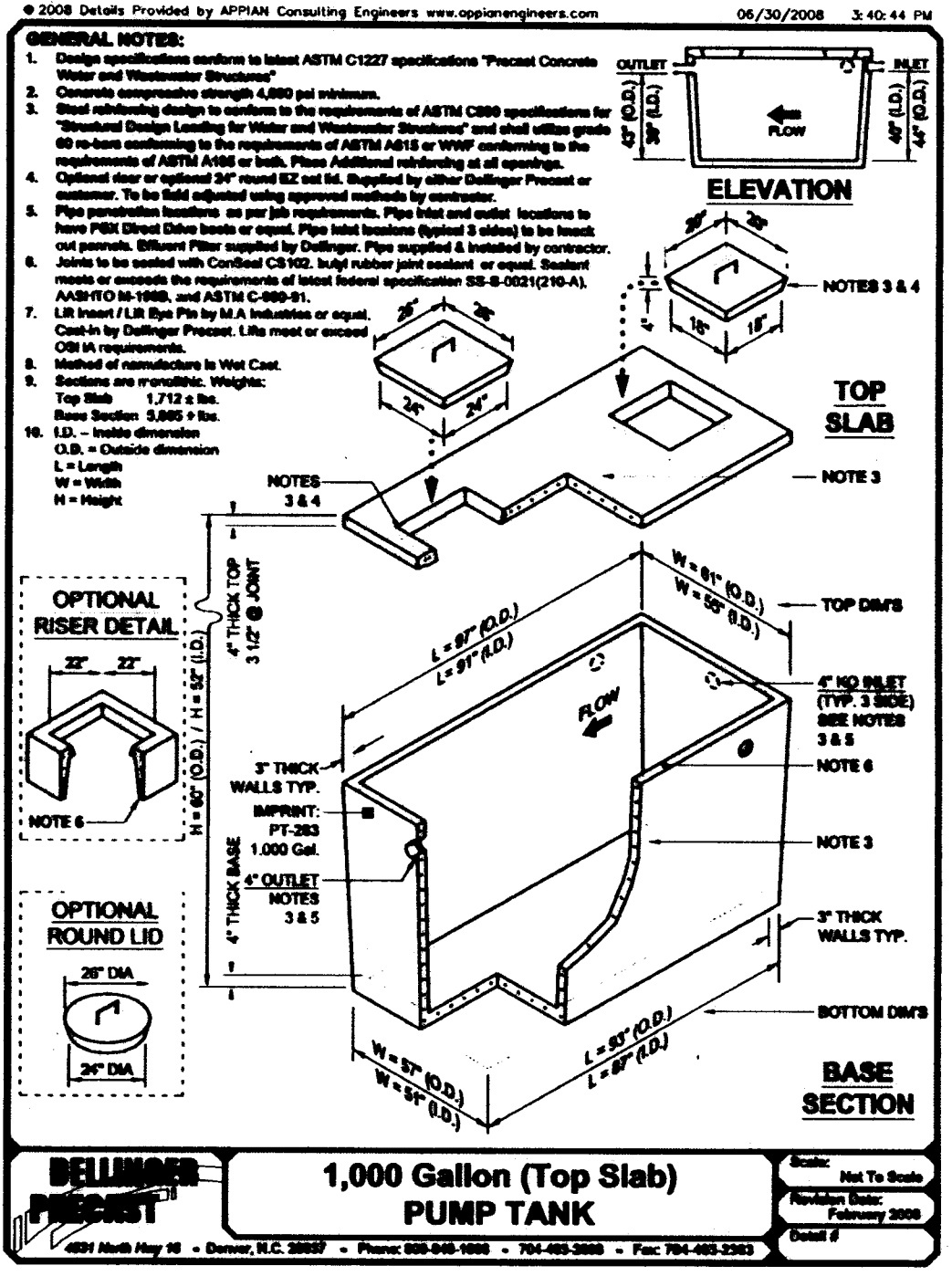


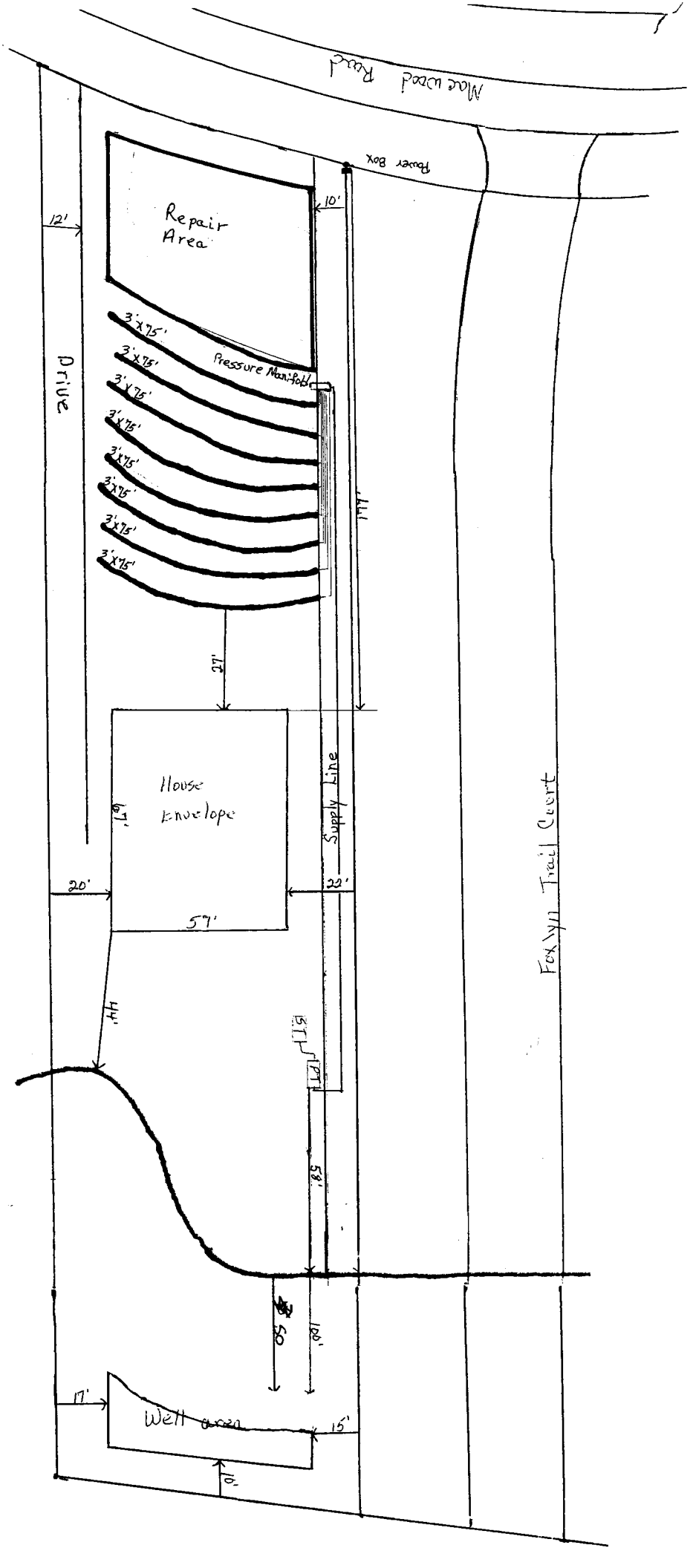
Profile View of Pressure Manifold for Sloping Site Installation (not to scale)

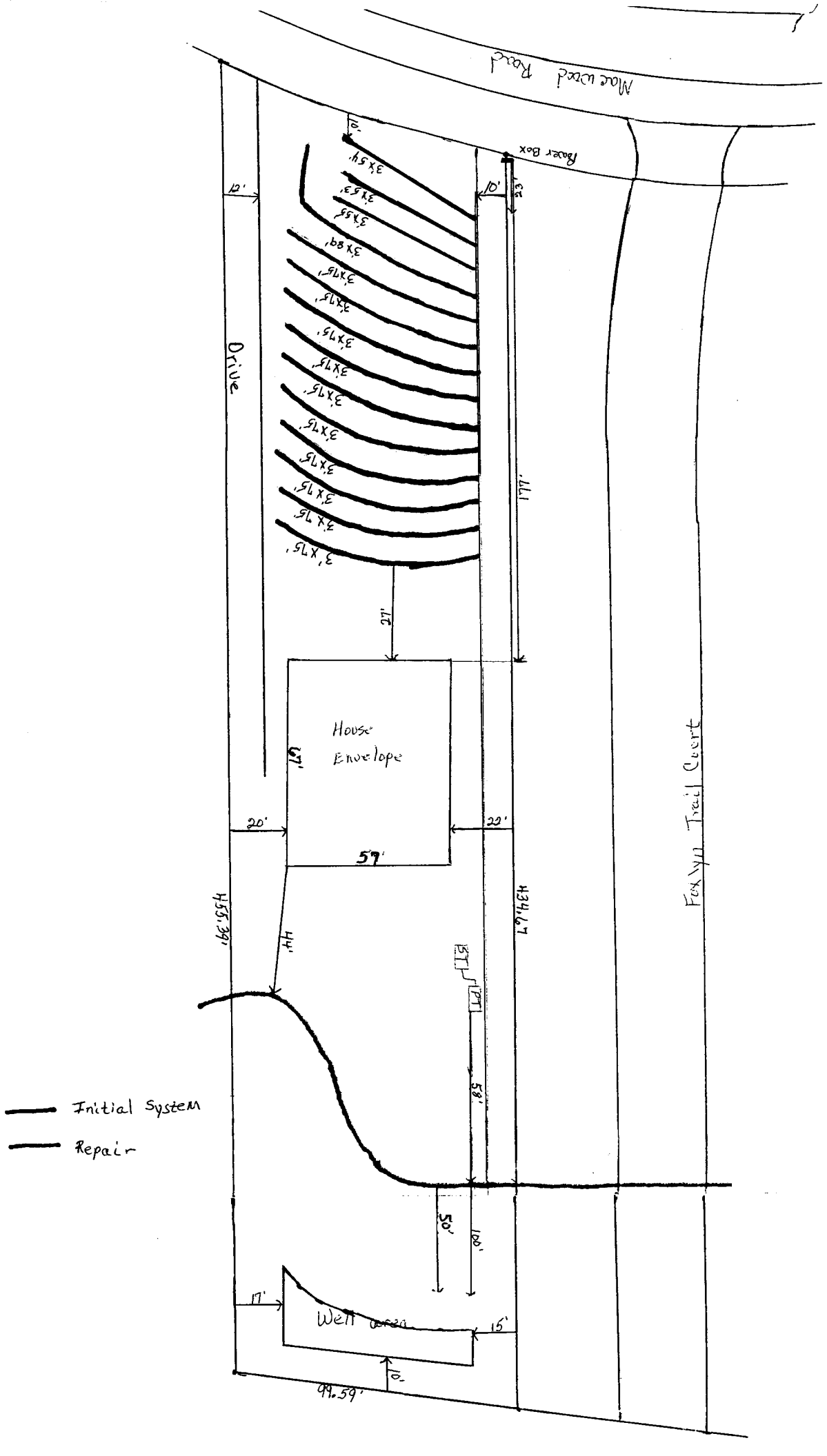


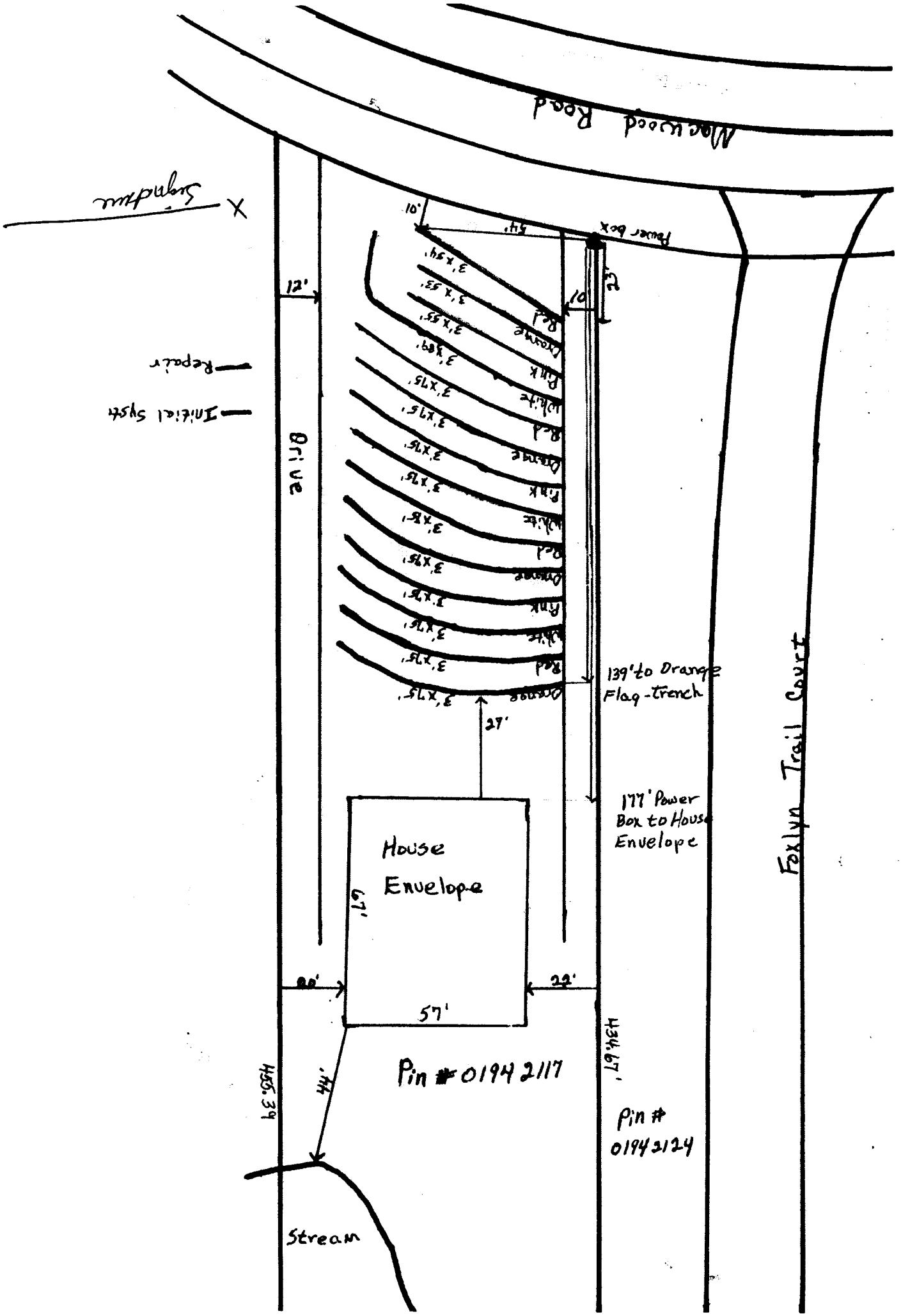
Plan View of Pressure Manifold for Sloping Site Installation (not to scale)

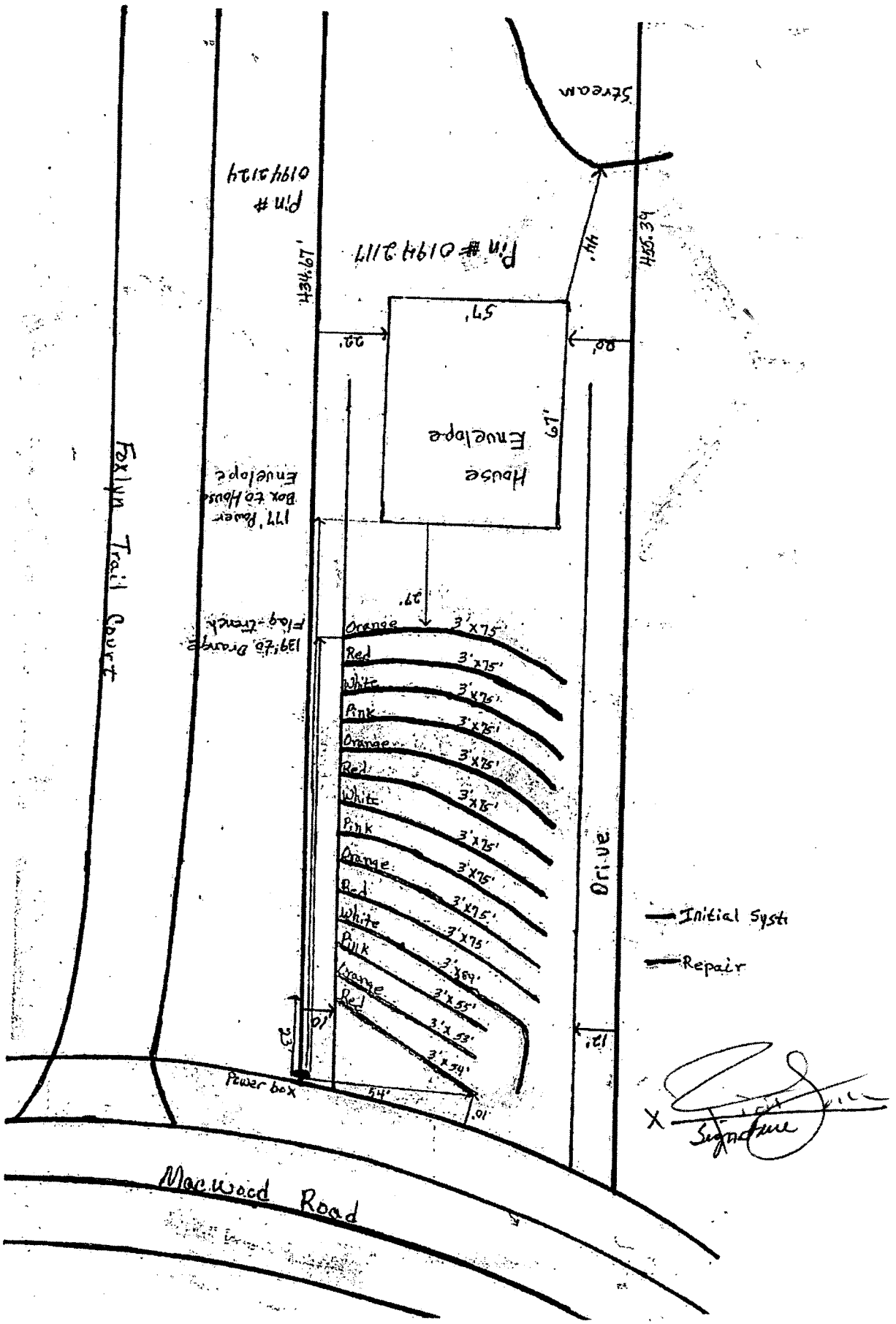
PT-1000-TS.pdf | Download 1 of 1




Mac Wood Road
Power Box
Repair Area
10'
12'
3'x75'
3'x75'
3'x75'
3'x75'
3'x75'
3'x75'
3'x75'
3'x75'
Pressure Manifold
Drive
147'
27'
House Envelope
67'
Supply Line
20'
25'
57'
Foxtyn Trail Court
47'
SEPTIC
50'
50'
100'
17'
Well area
15'
10'


Moore Wood Road
Mail Box
10'
23'
12'
Drive
3'x54'
3'x53'
3'x55'
3'x89'
3'x75'
3'x75'
3'x75'
3'x75'
3'x75'
3'x75'
3'x75'
3'x75'
3'x75'
3'x75'
3'x75'
177'
27'
House
Envelope
57'
20'
22'
59'
Foxlyn Trail Court
455.39'
44'
LATERAL
58'
139'4EH
50'
100'
17'
Well area
15'
10'
99.59'
Initial System
Repair


Meadwood Road
Symdaw
Repair
Initial Syst
Drive
Power box
5'
10'
12'
10'
25'
3'x39'
3'x53'
3'x55'
3'x69'
3'x75'
3'x75'
3'x75'
3'x75'
3'x75'
3'x75'
3'x75'
3'x75'
3'x75'
3'x75'
3'x75'
3'x75'
Red
Orange
Yellow
Green
Blue
Indigo
Violet
Black
139' to Orange Flag - trench
27'
177' Power Box to House Envelope
House Envelope
67'
20'
29'
57'
Foxlyn Trail Court
434.67'
456.39'
44'
Pin # 0194 2117
Pin # 0194 2124
Stream


Stream
Pin # 0194.21.14
Pin # 0194.21.17
Foxlyn Trail Court
Mac Wood Road
Drive
House Envelope
Orange
Red
White
Pink
Orange
Red
White
Pink
Orange
Red
White
Pink
Orange
Red
Power box
Initial Syst
Repair
X
Signature

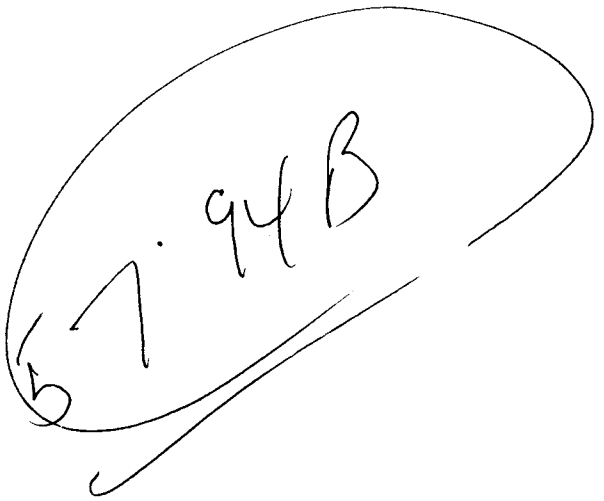
Ellis, Loretta

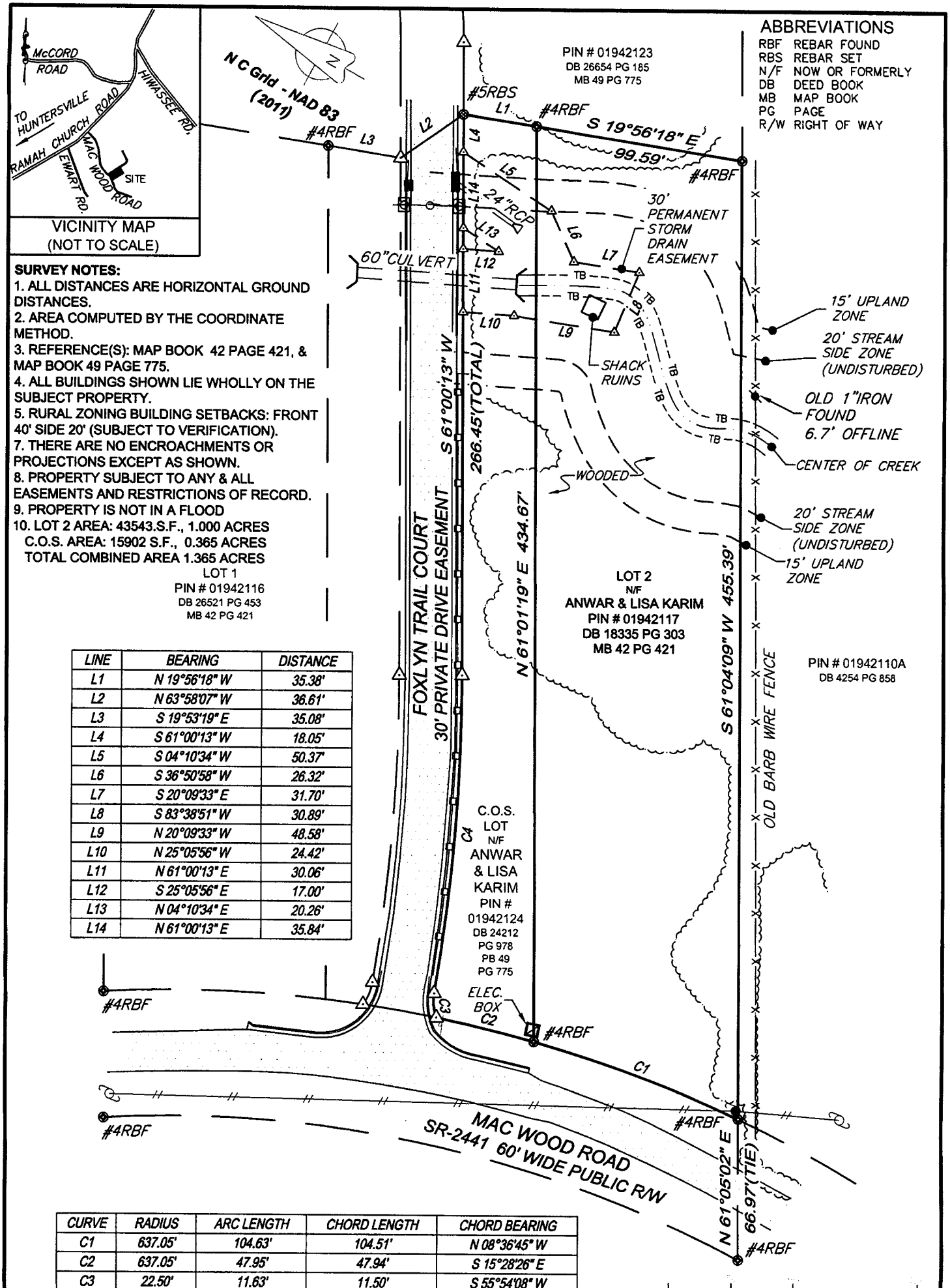
From: Joe Lynn <joe.lynnoswps@yahoo.com>
Sent: Friday, September 18, 2015 11:55 AM
To: Ellis, Loretta
Subject: permits

I called a few minutes ago about the status of a wastewater"septic" permit.
The address is 15622 Macwood Road Huntersville NC. The pin # is 01942117. The property owners are Anwar and Lisa Karim.
Any information would be great.

Thank you

Joe





SURVEY NOTES:

1. ALL DISTANCES ARE HORIZONTAL GROUND DISTANCES.
2. AREA COMPUTED BY THE COORDINATE METHOD.
3. REFERENCE(S): MAP BOOK 42 PAGE 421, & MAP BOOK 49 PAGE 775.
4. ALL BUILDINGS SHOWN LIE WHOLLY ON THE SUBJECT PROPERTY.
5. RURAL ZONING BUILDING SETBACKS: FRONT 40' SIDE 20' (SUBJECT TO VERIFICATION).
7. THERE ARE NO ENCROACHMENTS OR PROJECTIONS EXCEPT AS SHOWN.
8. PROPERTY SUBJECT TO ANY & ALL EASEMENTS AND RESTRICTIONS OF RECORD.
9. PROPERTY IS NOT IN A FLOOD
10. LOT 2 AREA: 43543.S.F., 1.000 ACRES
    C.O.S. AREA: 15902 S.F., 0.365 ACRES
    TOTAL COMBINED AREA 1.365 ACRES

LINE	BEARING	DISTANCE
L1	N 19°56'18" W	35.38'
L2	N 63°58'07" W	36.61'
L3	S 19°53'19" E	35.08'
L4	S 61°00'13" W	18.05'
L5	S 04°10'34" W	50.37'
L6	S 36°50'58" W	26.32'
L7	S 20°09'33" E	31.70'
L8	S 83°38'51" W	30.89'
L9	N 20°09'33" W	48.58'
L10	N 25°05'56" W	24.42'
L11	N 61°00'13" E	30.06'
L12	S 25°05'56" E	17.00'
L13	N 04°10'34" E	20.26'
L14	N 61°00'13" E	35.84'

CURVE	RADIUS	ARC LENGTH	CHORD LENGTH	CHORD BEARING
C1	637.05'	104.63'	104.51'	N 08°36'45" W
C2	637.05'	47.95'	47.94'	S 15°28'26" E
C3	22.50'	11.63'	11.50'	S 55°54'08" W
C4	896.27'	151.85'	151.67'	S 65°51'24" W