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Groundwater and Wastewater Services File Imaging Project

May 2007

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Mecklenburg County
Health Department
Conditions of Improvement Permit

File Number: 4326B
Site Address: 19600 Youngblood Road

1. The permitted system is a Type IVa low-pressure pipe (LPP) 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** 6/29/10

CONDITIONS OF IMPROVEMENT PERMIT

Permit Number 4326B

Tax Number: 217-191-61

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	V 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	V Low Pressure Pipe ___ Large Diameter Pipe ___ Fill ___ Other	___ Innovative or Experimental: ___ IWWS-93-1 ___ IWWS-93-2 ___ IWWS-94-1

.083 Long-term acceptance rate	240 Max gallons/day wastewater flow	2900 Absorption Area (sq ft)	5' Trench spacing (min. on centers)
Yes Serviced by private well	1500 Gallon septic tank	589 Total trench length (ft)	14" Maximum trench depth (At least 12" of provisionally suitable soil must remain between trench bottom and unsuitable soil conditions)
2 Bedrooms in residence	1000 Gallon pump tank	10" Depth of stone	

Any surface waters present: Type: Minimum separation distance:

Site modifications required:

Additional Conditions:
- Agreement forms must be recorded before Construction authorization can be issued
- Operator required - Contract w/CO must be submitted before OP is issued
- Nema 4x Simplex Control Panel w/Alarm required / lot does not require 100% repair

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.

DEHNR Authorized Agent Date: 6-28-00

Owner/Agent Signature Date: 6/29/00

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

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

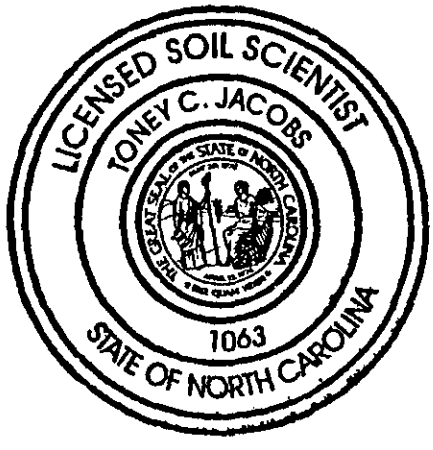
RESIDENTIAL LOW PRESSURE PIPE SYSTEM
FOR
SUBSURFACE WASTEWATER DISPOSAL
19720 YOUNGBLOOD ROAD WEST
CHARLOTTE, NORTH CAROLINA

MCHD FILE # 4/3266
PARCEL ID# 217-19-161

Prepared for
Mr. Jim Bass
Crescent Resources, Inc.
P.O. Box 396
Terrell, NC 28682



Prepared by
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June 26, 2000

Copy: ✓ Mr. Larry Thompson, R.S.
MCHD – IWWS
N. Tryon Street
Charlotte, N. C.

Toney C. Jacobs, CPSS

Paul G. Penninger, LSS

BACKGROUND

The property is planned for a single family 2-bedroom residence. The number of bedrooms was provided by the soil scientist at the maximum for standard septic technology. Even though the lot is 2.3 acres, it is limited by soil that is not permittable. There was a maximum effort, including the use of a backhoe, to better define soil and position the actual field layout to maximize unequal pressure lines. If a buyer should require a three-bedroom, there may be pretreatment drip option available, but this would be a very expensive alternative.

APPLICATION INFORMATION

1. Application for Improvement Permit has been submitted to Mecklenburg County Health Department by Toney C. Jacobs and Associates for Crescent Resources, Inc.
2. Property is shown on attached portion of development survey.
3. Owner:

   Mr. Jim Bass
   Crescent Resources, Inc.
   P. O. Box 396
   Terrell, NC 28682

   Soil Scientists
   and Designers: Mr. Toney C. Jacobs, CPSS
   Mr. Paul Penninger, LSS
   Toney C. Jacobs & Associates, Inc.
   168 Broadbill Drive
   Mooresville, NC 28117
   (704) 663-6905 (Office)
   (704) 662-9845 (fax)
   e-mail jacobs@i-america.net

4. Project described herein is a new project.
5. Water supply for development is provided by a private on-site water supply well.
6. Facility to be served by the proposed system is a 2-bedroom single family residence.
7. Wastewater system components are described herein.

LOCATION

The property is located at 19720 Youngblood Road West in southwest Mecklenburg County, North Carolina.

REFERENCES

1. Design and Installation of Low Pressure Pipe Waste Treatment System by: Craig Cogger, Bobby L. Carlile, Dennis Osborne, Ed Holland; published by UNC Sea Grant College Pub. UNC-SC-82-03, May 1982.
2. Law and Rules for Sewage Treatment and Disposal Systems, 15A NCAC 18A, Section .1900, Department of Environment Health and Natural Resources, August 1, 1998.

PLANS AND SPECIFICATIONS FOR SPECIFIC SYSTEM COMPONENTS

Septic Tank

1. The septic tank receives wastewater directly from the house.
2. A septic tank shall be watertight, structurally sound, and not subject to excessive corrosion or decay
3. The ~~1000~~ 1500 gallon septic tank must be of two compartment design for maximum solids and retention. The inlet compartment of two-compartment tank shall hold between two-thirds and three-fourths of the total tank capacity.
4. Effluent from the two-compartment septic tank flows by gravity through a State approved effluent filter and a four-inch solid PVC pipe to the pumping tank.
5. Both the septic tank and pumping tank must be provided with above ground approved manhole risers to provide easy access for clean-out and pump service.
6. When prefabricated concrete tanks or tanks of other material are used, they shall be constructed in accordance with the plans which have been approved by the State and shall comply with all requirements of Section .1953 of 15A NCAC 18A.
7. On the outlet tee of the septic tank an effluent filter must be installed. This filter should be equivalent to a Zabel Model A1800 or other State approved unit supplied by the tank manufacturer.

Pumping Tank

1. 1000 gallon pumping tank shall have an access manhole extending at least 6 inches above finished grade.
2. Pump and Simplex 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. Pump control (Simplex) may be mounted on side of house if long cord pump is used. The pump 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 water proof, gas proof, 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. There shall be two electric circuits for controls: one for pump power, one for the alarm. These will require 2 circuit brakes.
3. The pumping tank shall have a properly functioning high-water alarm within the Simplex box. 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 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. For maintenance flexibility, tree must be used to set floats.
7. Pump discharge piping shall be of Schedule 40 PVC.

8. Watertight testing per .1900 rules will be required on two piece pump tanks.

Pipe and Fittings

1. All pipes and fitting should be made of PVC plastic.
2. All joints must be sealed with an appropriate PVC-solvent cement. The supply manifold from the pumping tank to the LPP distribution field is two-inch Sch PVC.
3. As shown on plan, there will be an automatic zone valve to alternate between fields.
4. There should be a threaded PVC union above the pump to allow easy removal or replacement. Lateral lines are made of 1¼ inch Sch 40 PVC. Holes in the laterals are drilled on site.
5. A gate valve for final pressure adjustment is installed in the supply manifold inside the pumping tank.
6. Two manifolds and valves as shown in specifications.
7. The end of each lateral line is equipped with a capped "turn-up" that provides above ground access for clean-out or back flushing. Using (2) 45-degree elbows rather than 90 degree elbows for the turn-ups will make clean-out easier.

Pump, Float Controls and Alarm System

1. A septic tank effluent pump or a submersible sump pump that will not be corroded by sewage should be used in the pumping tank. Goulds WEO7H, or equivalent, should be used to pump 20 gpm at 37 feet of head (*note on design specifications).
2. The controls for the pumping system include a switching control for turning the pump on and off and a high water alarm to signal pump malfunctions.
3. The controls must also be sealed against entry of corrosive and explosive gases from the effluent and should have NEMA (National Electrical Manufacturing Association) approval.
4. Mercury switches are activated by a sealed float which contains a tube of mercury in contact with power leads. Best performance has been obtained using two switches – one to close the pump circuit and the other to open it.
5. In addition to the on and off control floats, there must be a separate float control for the high water alarm. This may be a sealed, mercury float switch mounted several inches above the on float. The high water alarm should be located within the house and consist of a light bulb and/or audible signal mounted over a sign marked "wastewater system alarm". It should be on a separate electrical circuit form the pump power line, and be equipped with a test switch. The alarm is activated if the water level in the pumping tank rises above the "pump-on" float control. The tank provides at least one day or more of excess storage capacity (depending on water use in the home) during which time the system must be repaired.

Home Water-Saving Devices

Any home with an LPP system must be equipped with low-flow showerheads and low-flush commodes (1.6 gallons or less per flush) in order to minimize the hydraulic load on the

system. Those devices are a simple, low-cost way of reducing consumption with no inconvenience to the homeowner.

CONSTRUCTION INSTALLATION

Site Preparation

1. One of the most important concerns for an LPP system is to protect the site from soil disturbance by heavy equipment. Because of the thin soil depth, this is critical.
2. Now that the absorption area has been designed and flagged, it should be roped off and protected from construction traffic. No site preparation or LPP construction work should occur if the soil is wet.
3. After the soil is dry enough, the site should be cleared of brush and small trees.
4. Provisions must be made for intercepting or diverting surface water away from the absorption area.
5. After the area has been cleared and shaped, the location of the lateral lines and supply manifold should be accurately re-flagged according to design specifications. Each lateral line must be laid out along a level contour using a transit. This step can be completely avoided if flags are protected during clearing.

Tank Installation

1. The two-compartment septic tank is installed.
2. The pumping tank is installed next to the septic tank.
3. The tanks are connected with an appropriate length of solid, four-inch PVC pipe.

Automatic Multizone valve

This valve allows for switching fields and reducing the pump size instead of both being dosed at one time. Specifications are enclosed.

Supply Manifold

1. The supply manifold conveys effluent from the pump to the distribution laterals.
2. The manifold joins each lateral through a short riser pipe connecting a reducing tee on the manifold to a 1¼ inch elbow or tee on the lateral. This assembly places each lateral pipe about six inches higher than the supply manifold and helps prevent the back-flow of effluent from a higher lateral to a lower lateral. Use a 2" x 2" x 1¼" tee rather than "bushing down" when connecting laterals to the manifold.
3. After the supply manifold has been placed in its trench and lateral lines connected, it should be backfilled with tightly tamped soil. The supply manifold trench must not be backfilled with gravel, or the trench may become a conduit for downslope flow effluent from the laterals.

Lateral Lines

These lines have been laid out in the field and sketched on plan. Field layout supercedes what is in plan. Line lengths are what is shown in plan, as flags were set to maximize distance.

1. Laterals will be placed at 5' minimum separation.
2. The depth of a given lateral trench should be uniform from the manifold to the end of the lateral. In no case should the trench bottom be allowed to slope away from the manifold.
3. Small earthen dams are placed at the beginning of each lateral trench to help maintain uniform distribution of effluent along each trench.
4. Lateral trench bottoms are then lined with five inches of gravel.
5. The 1¼-inch PVC pipes should be laid out and cut to proper lengths for the lateral lines. Holes are drilled (in a straight line) facing upwards (except for a hole 1/3 of the way from beginning and end of each line) after the laterals have been cut to proper length.
6. Holes are only drilled through one side of the pipe.
7. Sleeve laterals in 4" diameter perforated corrugated pipe. The corrugated pipe shall have three rows of holes, each hole between ½" and ¾" in diameter and spaced longitudinally approximately 4" on centers. The rows of holes may be equally spaced 120° on centers around the periphery, or three rows may be located in the lower portion of the pipe, the outside rows being approximately on 120° centers.
8. A short turn-up with a capped end is at the end of each lateral. The capped end must be brought up above or flush with the final grade. Using two 45 degree bends for constructing cleanouts is recommended. A larger diameter sleeve with cap or approved box with lid shall be placed over the turn-up.
9. Rock used in nitrification trench shall be clean, washed gravel or crushed stone and graded or sized between 3/8" to 1". The rock shall be placed a minimum of 9" deep with at least 5" between the pipe and the trench bottom and 2" over the pipe, and distributed uniformly across the trench bottom and over the pipe.
10. There shall be at least 4" of soil cover over the gravel.

Pump and Controls

1. The pump must be placed on two concrete blocks set next to each other on the bottom of the tank. This prevents the pumping of any solid particles which can clog the LPP system.
2. 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.
3. The lower level control or "pump-off" must be positioned above the pump, so that the pump remains submerged at all time.
4. The pump outlet pipe should be connected to the supply manifold with a threaded PVC union to allow quick removal.

Electrical Connections

1. The pump and high water alarm must be placed on separate electrical circuits.

2. All electrical connections must be made outside the pumping tank. Power cords from the pump and controls should be plugged into a NEMA-approved outdoor receptacle mounted outside of the pumping tanks at least 12" above final grade.
3. Wiring between the pumping tank and the house should meet State and local code requirements.

PROPER OPERATION CHECK

1. After all connections have been installed and connected, the system should be checked for proper operation. With electrical power turned off, fill the pumping tank with a garden hose until the liquid rises to the level of the high-water alarm float.
2. Turn on the electrical power. 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.

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.

With the auto zone valve, this process will have to be carried out twice.

- Glue a four-foot length of pipe (preferable clear) to a threaded adapter that will screw onto the turn-up adapters at the end of each lateral.
- Replace the turn-up cap with the pipe and adapter.
- Turn the power on to allow liquid to rise in the pipe.
- Adjust the gate valves until the effluent reaches the desired height in the pipe. Remember to include the distance below the ground surface to the lateral line when measuring the height.

FINAL LANDSCAPING

1. After the LPP system is installed, the following should be checked to ensure that the system will not be overloaded with excess rainwater and runoff:
   - The distribution field is shaped to shed rainwater and is free of low areas.
   - Grassy swales or ditches for diverting surface water are properly installed.
   - Gutter and downspout drains are directed away from the system.

2. Finally, the entire area should be planted with grass in order to prevent erosion. The soil should be properly tilled, limed (if necessary) and fertilized before planting. After applying an appropriate grass seed, the area should be heavily mulched with straw or other suitable material.

QUALITY ASSURANCE REQUIREMENTS

The LPP system must be installed by a qualified, contractor that is on the Mecklenburg County list of competent contractors. Critical stages of the installation which should be checked are:

1. System layout
2. Septic and pump tank installation prior to backfilling.
3. Manifold and lateral installation prior to backfilling.
4. Final landscaping, operation and pressure head check.

The system design is based on a maximum waste flow of 240 gallons per day. Homeowners should pay particular attention to the section titled Homeowner Suggestions for ways to minimize the burden on the system.

MAINTENANCE

1. Any person owning or controlling the property upon which a ground absorption sewage treatment and disposal system is installed shall be responsible for the following items regarding the maintenance of the system:
   - Ground absorption sewage treatment and disposal systems shall be maintained at all times to prevent seepage or discharge of sewage or effluent to the surface of the ground or to surface water.
   - Ground absorption sewage treatment and disposal systems shall be checked and the contents of the septic tank removed periodically to ensure proper operation of the system.
2. A contract shall be executed between the system owner and a management entity prior to the issuance of an Operation Permit for a system required to be maintained by a public or private management entity. The contract shall include the specific requirements for maintenance and operation, responsibilities of the owner and system operator, provisions that the contract shall be in effect for as long as the system is in use, and other requirements for the continued proper performance of the system. It shall also be a condition of the Operation Permit that subsequent owners of the system execute such a contract.

OPERATION AND MAINTENANCE PROCEDURE

The system is classified as Type IV. The Regulations require that the system be operated by a person certified by the N. C. Division of Environmental Health to operate this type of system.

Operating, Maintenance and Inspection procedures shall include, but not be limited to the following:

- Minimum inspection/maintenance frequency shall be 2 times per year, with reporting frequency every 6 months to the local Health Department.
- Septic system shall be pumped every 4 years or when solids accumulate to 1/3 the volume of the tank.

- At 6 month intervals inspect the effluent filter. When washing the filter, debris must be sprayed directly back into the septic tank and not onto the lawn.
- All laterals shall be checked and if necessary, flushed annually with clean water.
- Pressure head for laterals should be checked and adjusted one month after installation and semi-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 diverted 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.
- Pump draw down depth and delivery rate shall be checked twice a year.
- Check septic tank and pump tank for evidence of damage or leakage. Check the quality of effluent including grease and sludge accumulation.

The system operator in conjunction with the local Health Department shall establish an operation and maintenance program and procedure based on experience obtained from similar installations.

HOMEOWNER SUGGESTION

Most low pressure pipe systems do not require much effort to operate and maintain. Even thou the effort is small, the system must be maintained properly so that it operates reliably and at a minimum cost. Following are suggestions for the home owner to minimize the burden on a low pressure pipe system.

1. Garbage disposals should not be used in on-site systems. The ground garbage adds large amounts of solids to a septic tank, causing sludge to build up at a quicker rate than without. If disposal is installed, use should be limited.
2. Grease, cooking oils and coffee grounds should never be put into a septic tank.
3. Items such as disposable diapers, cigarettes, facial tissues and other solid or paper wastes should not be flushed into the on-site system.
4. Used motor oil and other such oily liquids should not be put into a septic tank.
5. Using less water can reduce the amount of water flowing to the treatment and disposal field.
6. Water-saving fixtures and devices can be installed on sinks, toilets and showers to reduce the rate at which the water flows from the fixture.
7. Dishwashers and washing machines should only be run with full loads.

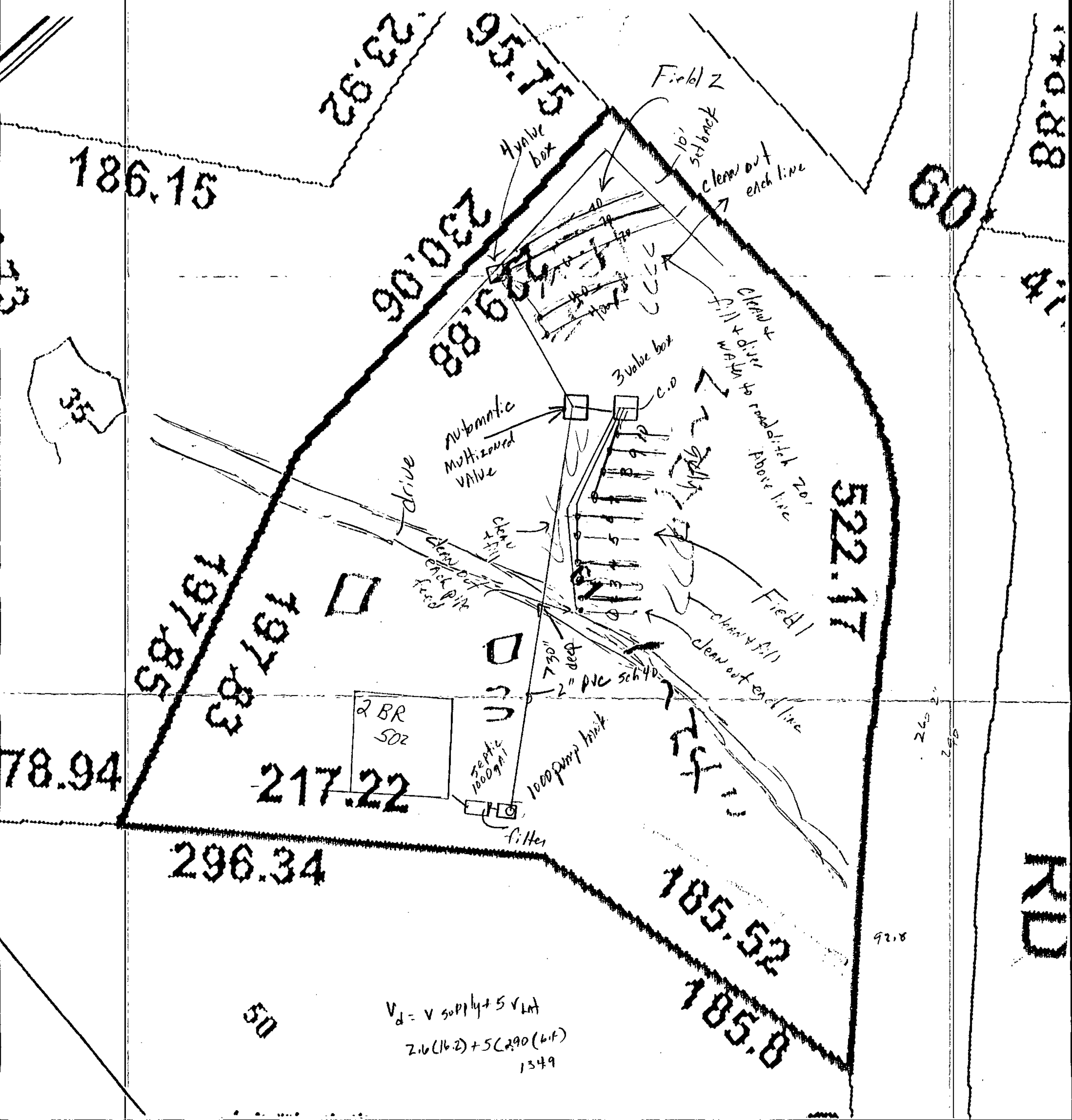
8. Leaky faucets and toilets can add large volumes of water to the daily flow of water into the on-site system. Repair the leaks to save water and give the treatment and disposal field a rest.
9. Roof drains, basement sump pumps, foundation drains, driveway turnouts, and other such drains should not empty into or onto the surface above the on-site system. These drains should be directed to another part of the lot away from the treatment and disposal field.

DESIGN SPECIFICATIONS

19720 Youngblood Road West

Daily design flow:	240 gpd - 2 bedroom home
Septic tank size:	1500 ~~1000~~ gal (2 compartments)
Pumping tank size	1000 gal
Effluent loading rate:	design 0.083 gpd/ft^2
Total length and diameter of supply manifold:	approx. 260' of 2" sch 40 PVC and approx. 580' of 1¼" sch PVC
Number of manifolds	2
Number and length of laterals (manifold 1):	system(10) 1¼" dia., 25-40' length end-fed
Number and length of laterals (manifold 2):	system (5) 1¼" dia., 40-70' length end-fed
Hole size:	see table
Hole spacing:	see table
Total number of holes	see table
Flow rate through the system	19.2 gpm
Elevation head:	*approx. 20.0'
Pressure head:	2.0' – 4.3'
Friction head:	6.9'
20% contingency:	5.8'
Total head:	37'
Pump requirements:	19.2 gpm at 37' of head; use Goulds WE05HH ½ h pump or equivalent with compatible electrical with Simplex control
Dosing volume:	120gal. - 1.0 doses/day at design flow
Depth of water pumped per dose:	calculated to specific tank by measure or dealer engineered specifications (1 cubic ft. of water equals 7.5 gal)
Pump run dose:	approx. 6.25 min.
Check valve:	No
Siphon break hole:	No

* Head was measured and calculated with house at location shown. At time of installation, tanks elevations may vary and pump must be re-sized to that exact elevation.



186.15
23.92
95.75
60
88.0
41
230.06
229.88
4 valve box
Field 2
10' setback
clean out each line
Clean + fill + divert water to road ditch 20' above line
3 valve box
C.O
automatic multizoned valve
35
drive
clean + fill
clean out each pit
Field 1
clean + fill
clean out each line
522.17
197.85
197.83
7 30" deep
2" PVC sch 40
2 BR
502
septic 1000 gal
1000 pump tank
78.94
217.22
filter
296.34
185.52
185.8
50
92.8
RD
V_d = V supply + 5 V_{lat}
2.6(16.2) + 5(.290(61.1))
1349

Design Specifications for Lot 61 Youngblood Road.

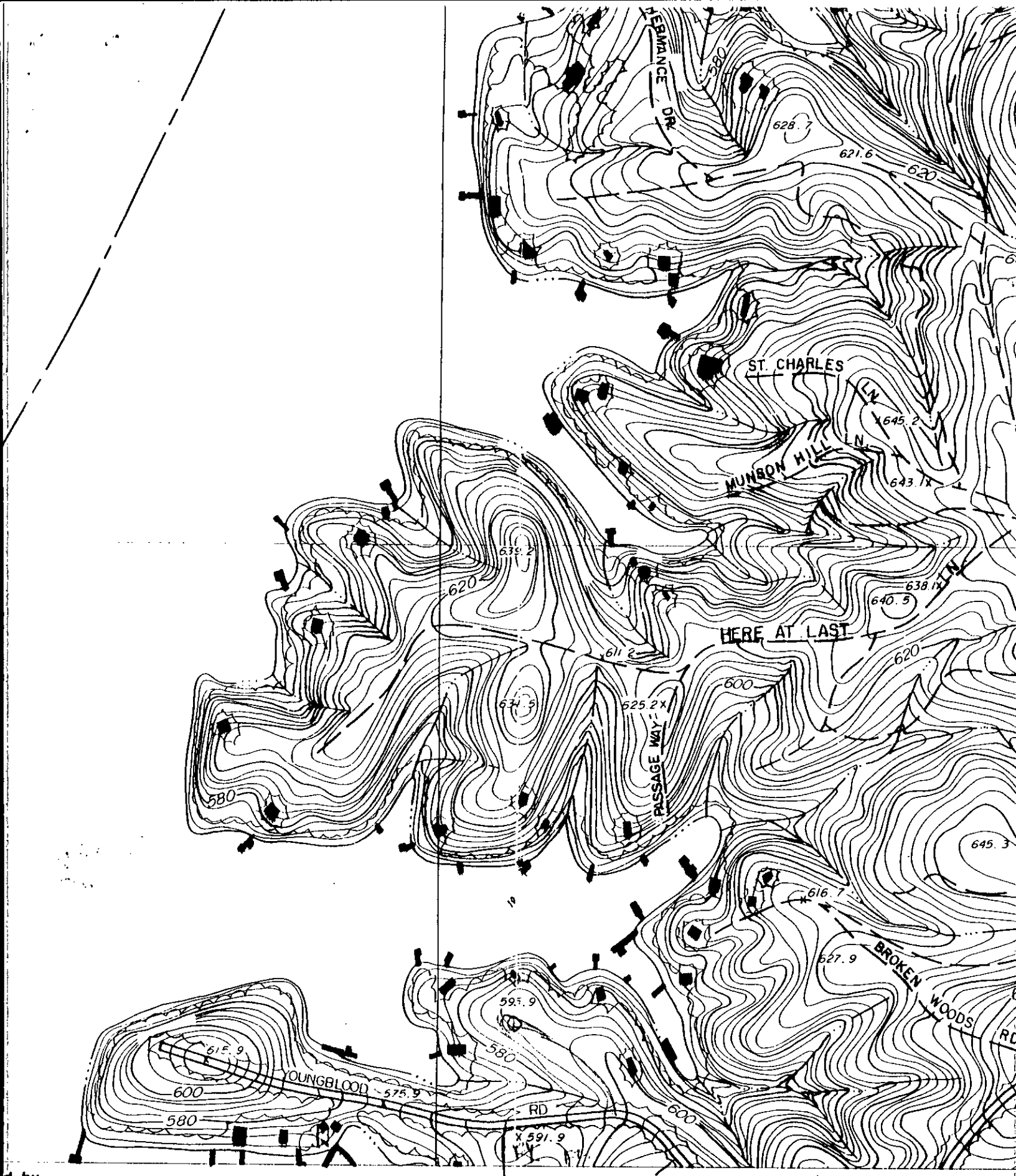
FIELD 1

Line	Color	Length (ft)	Rod Reading (ft)	Design Head (ft)	Hole Size (in)	Hole Spacing (ft)	# Holes	Flow per Hole (gpm)	Flow per Line (gpm)
1	orange	25	6.7	4.1	9/64	8.3	3	0.474	1.42
2	yellow	25	6.0	3.4	9/64	8.3	3	0.432	1.30
3	blue	25	5.3	2.7	5/32	8.3	3	0.475	1.43
4	red	25	4.6	2	5/32	8.3	3	0.409	1.23
5	yellow	25	4.1	3.5	5/32	8.3	3	0.541	1.62
6	white	40	3.2	2.6	5/32	8.0	5	0.466	2.33
7	orange	35	2.6	2	5/32	7.0	5	0.409	2.05
8	blue	35	1.9	4.3	5/32	7.0	5	0.600	3.00
9	red	30	1.2	3.6	5/32	6.0	5	0.549	2.75
10	white	25	0.6	3	5/32	6.2	4	0.501	2.00
	TOTAL	**290**						TOTAL	**19.12**

Design Specifications for Lot 61 Youngblood Road.

FIELD 2

Line	Color	Length (ft)	Rod Reading (ft)	Design Head (ft)	Hole Size (in)	Hole Spacing (ft)	# Holes	Flow per Hole (gpm)	Flow per Line (gpm)
1	blue	70	9.4	2	5/32	7.0	10	0.409	4.09
2	red	70	8.4	2.3	5/32	7.0	10	0.439	4.39
3	yellow	70	7.4	2.6	5/32	7.0	10	0.466	4.66
4	blue	40	4.6	3.6	5/32	8.0	5	0.549	2.75
5	white	40	4.0	3	5/32	6.6	6	0.501	3.01
	TOTAL	**290**						TOTAL	**18.89**



d by

SERVICES, INC.
g, Ohio

NORTH CAROLINA RECTANGULAR COORDINATE SYSTEM

ELEVATIONS REFERED TO MEAN SEA LEVEL DATUM

INDEXED AND IDENTIFIED BY SOUTHWEST COORDINATE

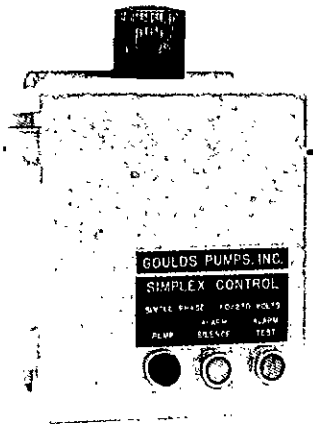
DATE OF PHOTOGRAPHY : 1975

CUTED

GOULDS PUMPS

SES Series Customized Control Panels

Simplex/Weather Proof Controller with Alarm



APPLICATIONS

Superior quality simplex liquid level controller, automatically maintains pump operation, includes high level alarm warning for a variety of sump, effluent, sewage and water transfer applications.

SPECIFICATIONS

- Accepts single or dual power feed.
- Hand-off automatic pump selection switch.
- On-off control circuit switch.
- Oversized magnetic contactor.
- Numbered terminal strip-screw type.
- NEMA 4X, 30 watt, flashing red light.
- NEMA 4X, fiberglass enclosure with gasketed, hinged door and stainless steel hardware.
- NEMA 4X, alarm horn – 95db.
- 115 V, 3 amp, control circuit breaker.
- Auxiliary alarm contacts.

Single Phase

- Field adjustable for 115 or 230 V, 60 Hz.

Maximum Pump Running Amps	Panel Order No.
20	S10020
27 (3 HP)	S10027*
36 (5 HP)	S10036*

*For 3 and 5 HP single phase, includes run capacitors and pilot duty overloads.

Three Phase

- Field adjustable for 208/230 /460/575 V, 60 Hz.
- 115V control circuit transformer.
- Adjustable motor overload protectors.
- **Heaters not required.**

Maximum Pump Running Amps	Panel Order No.
1.6 to 2.5	S31625
2.5 to 4.0	S32540
4.0 to 6.3	S34063
6.3 to 10	S36310
10 to 16	S31016
16 to 20	S31620
20 to 25	S32025

FEATURES

■ Rugged NEMA 4X construction withstands even the most severe weather conditions and prevents corrosion.

■ Hinged door with lockable stainless steel latch for safe operation indoors and out.

■ High level alarm circuit includes spring loaded through door mounted silence switch for manual silence of alarm horn.

■ Through door mounted alarm test switch insures proper operation of the alarm circuit without the need to open the panel.

■ Through door mounted pump run light.

■ Top mounted high intensity flashing red light provides 360° visibility.

■ Pulsating, corrosion proof alarm horn.

■ Color coded wiring, screw type terminals and plug in sockets, ensure ease of field servicing.

■ Field wiring diagram, panel schematic and installation instructions included.

■ Panel can be wired for a single power feed for pump and control circuit or the control circuit can be wired to a separate power supply to insure alarm integrity in case of a tripped pump breaker.

■ Auxiliary alarm contacts provided for remote alarm connection.

■ Entire unit is UL/CSA approved and listed.

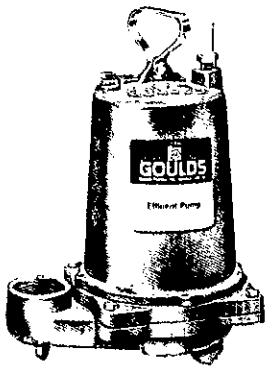
Goulds Pumps

ITT Industries

© 1999 Goulds Pumps
Effective January, 1999
BSPANEL

GOULDS PUMPS

Submersible Effluent Pump



MODEL

3885

PROSURANCE AVAILABLE FOR RESIDENTIAL APPLICATIONS.

APPLICATIONS

Specifically designed for the following uses:

- Homes
- Farms
- Trailer courts
- Motels
- Schools
- Hospitals
- Industry
- Effluent systems

SPECIFICATIONS

Pump

- Solids handling capabilities: ¾" maximum.
- Discharge size: 2" NPT.
- Capacities: up to 140 GPM.
- Total heads: up to 128 feet TDH.
- Temperature: 104°F (40°C) continuous 140°F (60°C) intermittent.
- See order numbers on reverse side for specific HP, voltage, phase and RPM's available.

FEATURES

■ **Impeller:** Cast iron, semi-open, non-clog with pump-out vanes for mechanical seal protection. Balanced for smooth operation. Silicon bronze impeller available as an option.

■ **Casing:** Cast iron volute type for maximum efficiency. 2" NPT discharge.

■ **Mechanical Seal: SILICON CARBIDE VS. SILICON CARBIDE** sealing faces. Stainless steel metal parts, BUNA-N elastomers.

■ **Shaft:** Corrosion-resistant, stainless steel. Threaded design. Locknut on three phase models to guard against component damage on accidental reverse rotation.

■ **Fasteners:** 300 series stainless steel.

■ Capable of running dry without damage to components.

■ Designed for continuous operation when fully submerged.

MOTORS

■ Fully submerged in high-grade turbine oil for lubrication and efficient heat transfer.

■ **Class B insulation.**

Single phase:

- Built-in overload with automatic reset.
- All single phase models feature capacitor start motors for maximum starting torque.
- ⅓ and ½ HP – 16/3 SJTOW with 115 V or 230 V three prong plug.
- ¾-2 HP – 14/3 STOW with bare leads.

Three phase:

- Overload protection must be provided in starter unit.
- ½-2 HP – 14/4 STOW with bare leads.

■ **Designed for Continuous Operation:** Pump ratings are within the motor manufacturer's recommended working limits, can be operated continuously without damage.

■ **Bearings:** Upper and lower heavy duty ball bearing construction.

■ **Power Cable:** Severe duty rated, oil and water resistant. Epoxy seal on motor end provides secondary moisture barrier in case of outer jacket damage and to prevent oil wicking. 20 foot standard with optional lengths available.

■ **O-ring:** Assures positive sealing against contaminants and oil leakage.

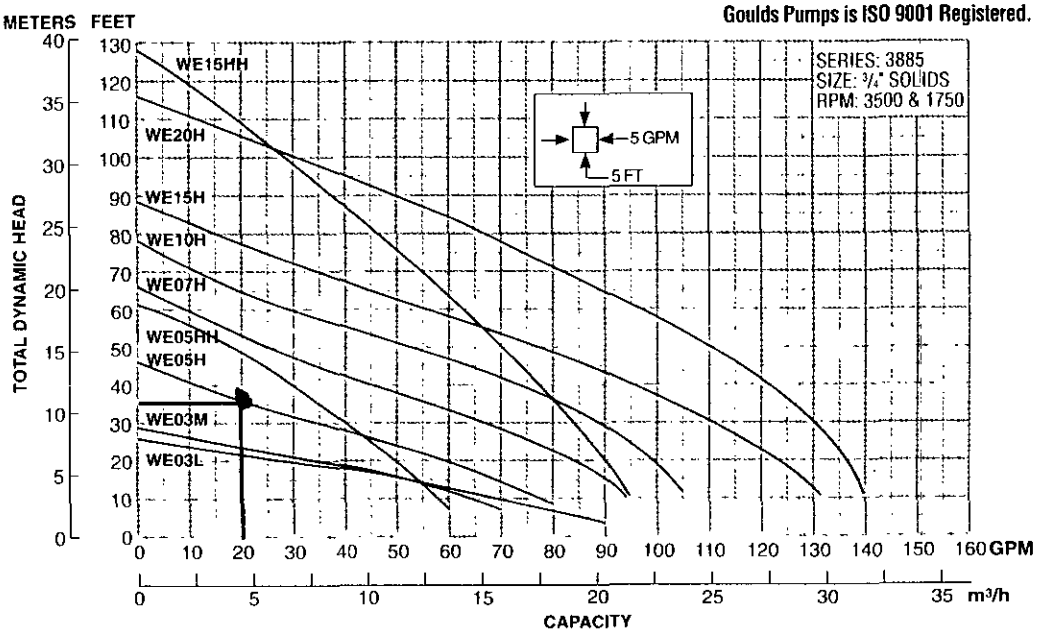
■ Consult factory for information on CSA listed models.

AGENCY LISTINGS

Canadian Standards Association
File #LR38549

Underwriters Laboratories
File #83318

Goulds Pumps is ISO 9001 Registered.



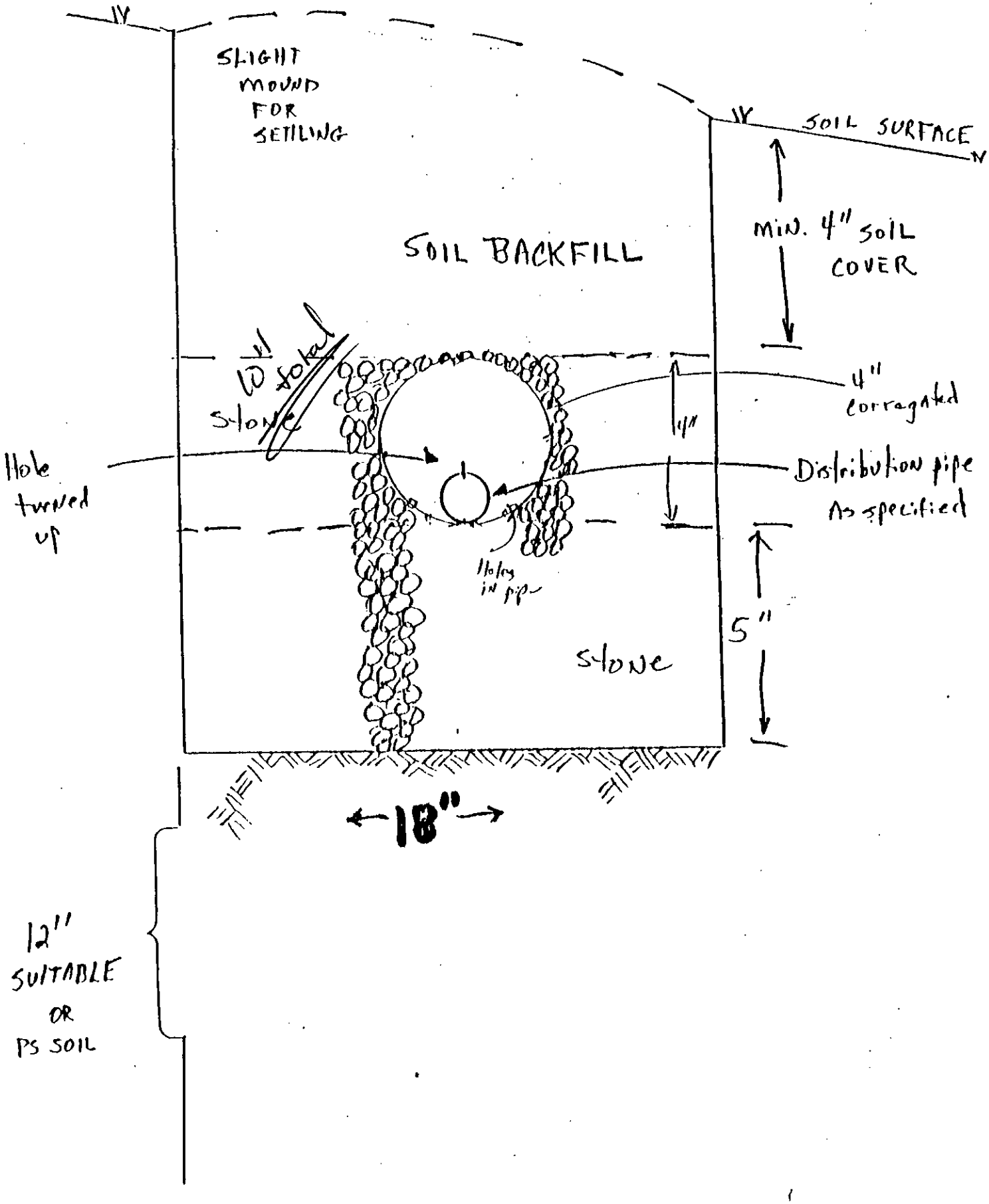
Goulds Pumps

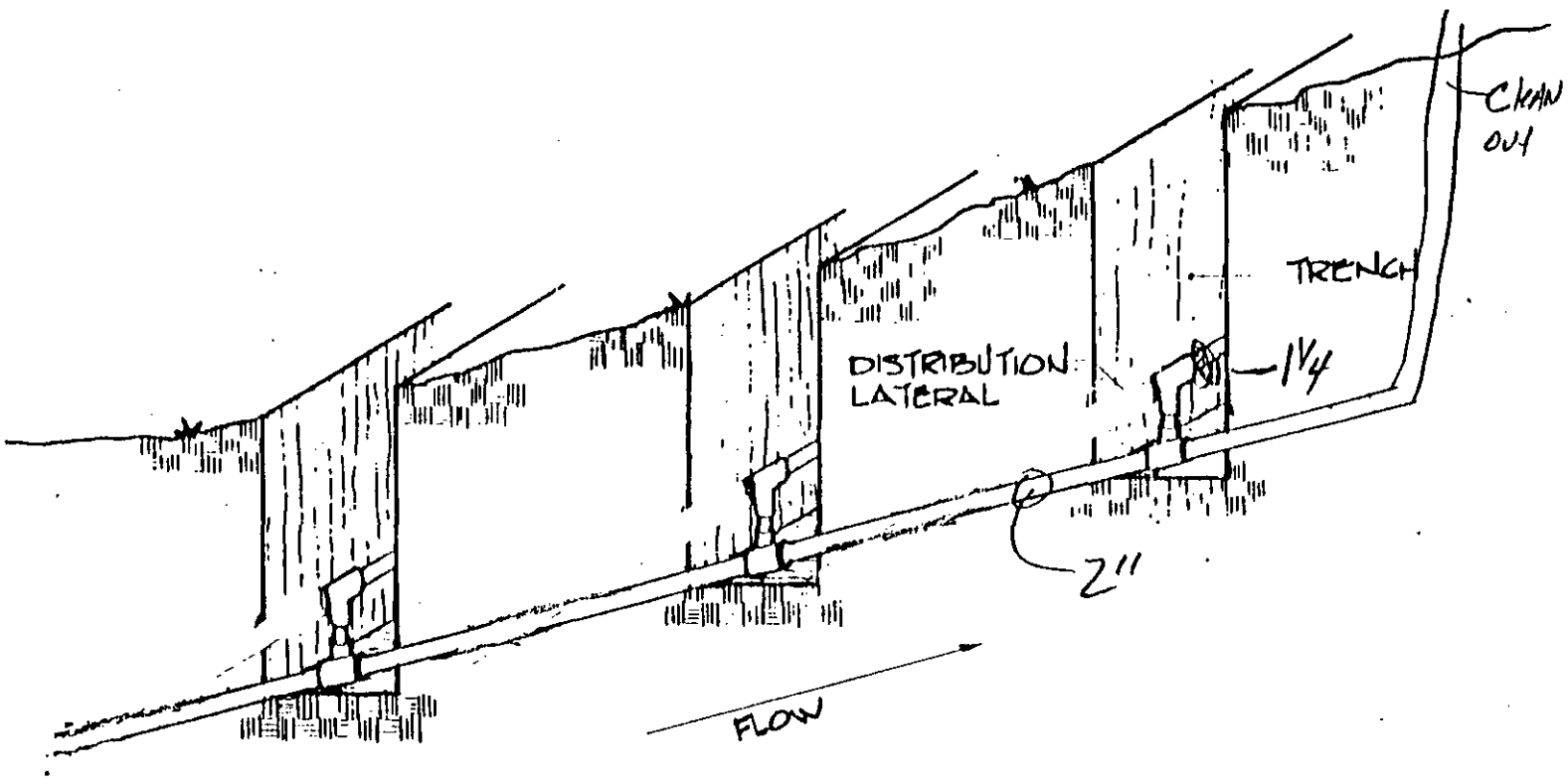
ITT Industries

© 1999 Goulds Pumps
Effective January, 1999
B3885

LPP Trench Design

typical





A. PUMPING UPHILL

from Cooper et. al, 1982)

"Quality Pumps Since 1939"

Product information presented here reflects conditions at time of publication. Consult factory regarding discrepancies or inconsistencies.

ZOELLER PUMP CO.

MAIL TO: P.O. BOX 16342 • Louisville, KY 40256-0342
SHIP TO: 3649 Cane Run Road • Louisville, KY 40211-1961
(502) 778-2731 • 1 (800) 928-PUMP • FAX (502) 774-3624

visit our web site:
http://www.zoeller.com

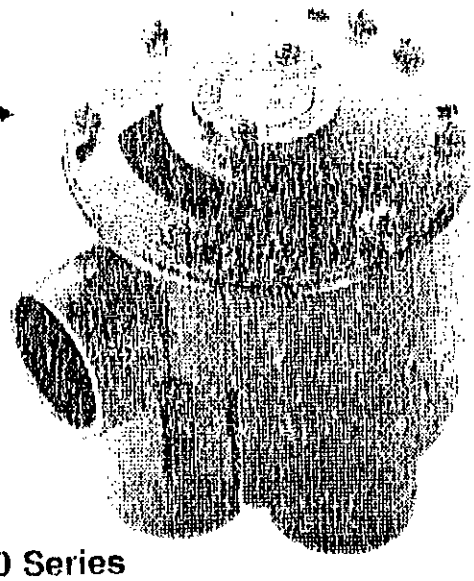
ZOELLER ON-SITE WASTEWATER PRODUCTS

ZOELLER SEPTIC SYSTEM ACCESSORIES

Automatic Multizoned Valves

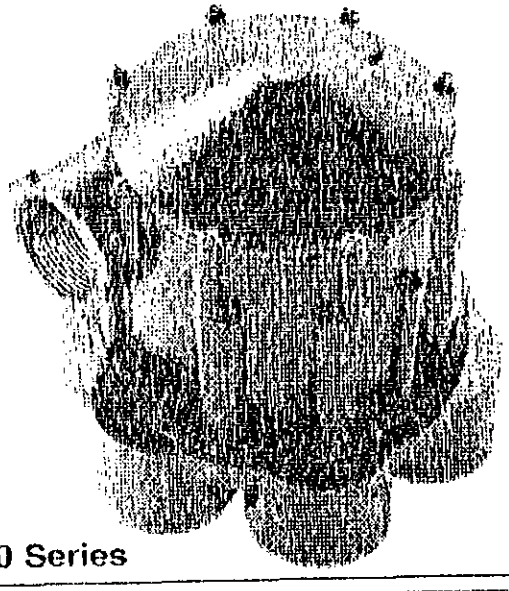
NEW!

The Zoeller 4000 Series of distribution valves offers a reliable, economical way to automate multiple zoned residential and small commercial disposal fields. The simplicity of design and a minimum of moving parts ensure ease of maintenance and long service life. These patented valves are ideally suited for pump fed applications using reclaimed or dirty water.



4000 Series

The Zoeller 6000 Series is the foundation of distributing valves. Patented for its ability to manifold multiple zones with only one moving part. This valve offers exceptional reliability and durability under dirty water conditions. With its metal die cast body, the 6000 Series valves are capable of high pressure applications and are recommended to be used on pump fed systems.



6000 Series

Distributed by:

ZOELLER PUMP CO.

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4000 & 6000 Automatic Multizoned Valves

PERFORMANCE SPECIFICATIONS	4000 SERIES	6000 SERIES
Flow Range:	4 Outlet Valve: 10 - 40 GPM 6 Outlet Valve: 10 - 25 GPM	4 Outlet Valve: 15 - 150 GPM 6 Outlet Valve: 15 - 150 GPM
Pressure Rating:	25 - 75 PSI	25 - 150 PSI
Pressure Loss - 4 Outlet Valve:	Flow (GPM): 10 20 30 40 PSI Loss: 2.0 3.0 4.5 6.4	Flow (GPM): 20 40 60 80 100 PSI Loss: 2.5 3.5 5.0 7.5 10.0
Pressure Loss - 6 Outlet Valve:	Flow (GPM): 10 20 30 PSI Loss: 2.5 4.5 7.5	Flow (GPM): 20 40 60 80 100 PSI Loss: 3.0 4.0 6.0 9.0 11.0

PHYSICAL SPECIFICATIONS	4000 SERIES	6000 SERIES
Inlet:	Slip and glue connections to 1¼" PVC pipe.	Threaded 1½" NPT Connection.
Outlets:	Slip and glue connections. 4 Outlet Valve: To 1¼" PVC Pipe 6 Outlet Valve: To 1" PVC Pipe	Slip and glue connections to 1½" PVC Pipe.
Construction:	High strength noncorrosive ABS polymer.	Valve Top/Housing: Die Cast Metal Valve Outlets: High strength non-corrosive ABS Polymer
Dimensions:	Height: 5¾" Width: 5¾"	Height: 7" Width: 8"

4000 SERIES:

4 Outlet Models have interchangeable cams for 2, 3, or 4 zone operation.

P/N 170-0064 Model 4402 - Cammed for 2 Zone operation, with four outlet bottom.
P/N 170-0065 Model 4403 - Cammed for 3 Zone operation, with four outlet bottom.
P/N 170-0066 Model 4404 - Cammed for 4 Zone operation, with four outlet bottom.

6 Outlet Models have interchangeable cams for 5 or 6 zone operation.

P/N 170-0067 Model 4605 - Cammed for 5 Zone operation, with six outlet bottom.
P/N 170-0068 Model 4606 - Cammed for 6 Zone operation, with six outlet bottom.

6000 SERIES:

4 Outlet Models have interchangeable cams for 2, 3, or 4 zone operation.

P/N 170-0069 Model 6402 - Cammed for 2 Zone operation, with four outlet bottom.
P/N 170-0070 Model 6403 - Cammed for 3 Zone operation, with four outlet bottom.
P/N 170-0071 Model 6404 - Cammed for 4 Zone operation, with four outlet bottom.

6 Outlet Models have interchangeable cams for 5 or 6 zone operation.

P/N 170-0072 Model 6605 - Cammed for 5 Zone operation, with six outlet bottom.
P/N 170-0073 Model 6606 - Cammed for 6 Zone operation, with six outlet bottom.

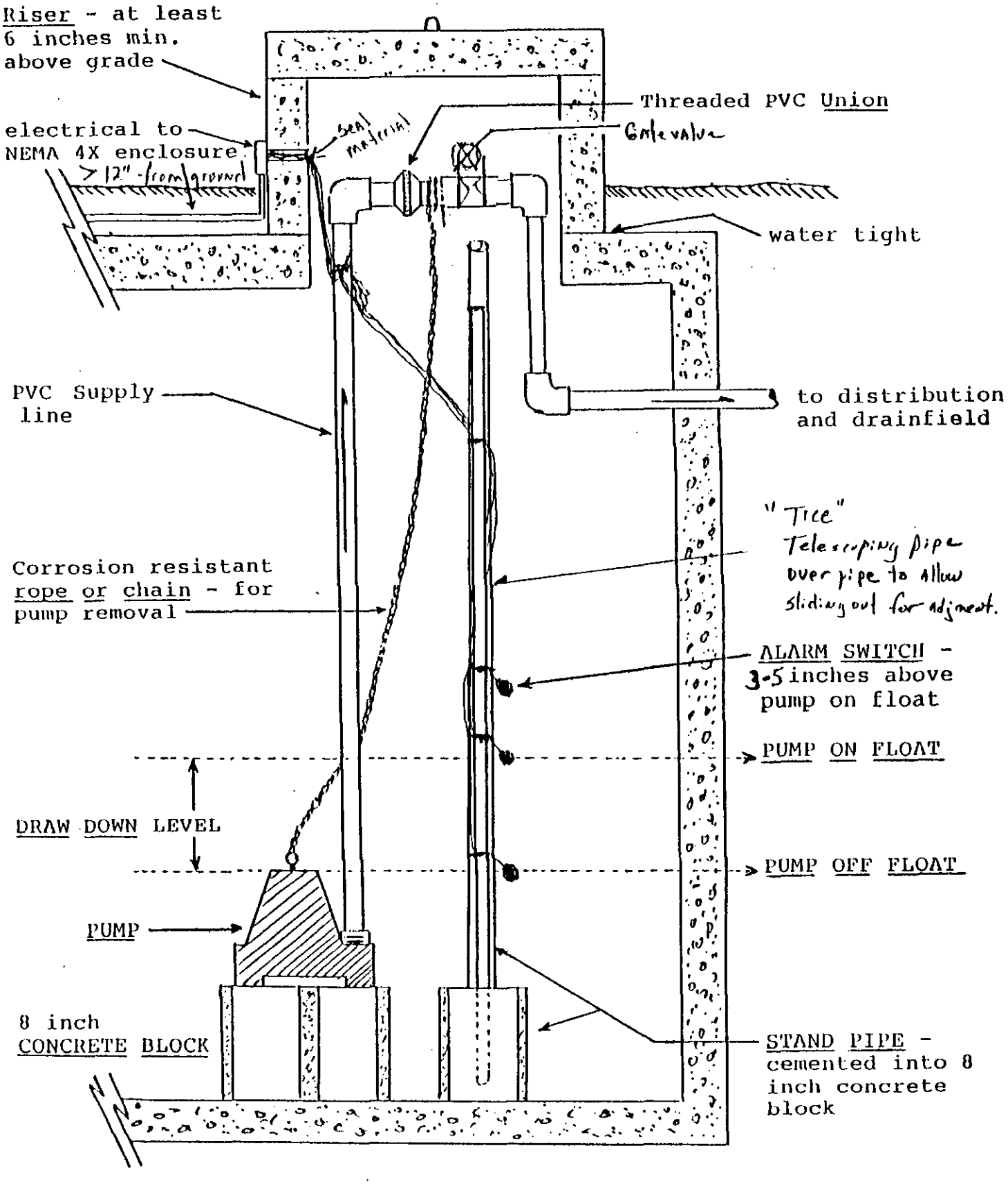
6" Clear PVC Pipe

P/N 170-0074 6" Clear PVC pipe for 4400 2-4 Zone - (4) 1¼" dia. pieces.
P/N 170-0075 6" Clear PVC pipe for 4600 5-6 Zone - (6) 1¼" dia. pieces.
P/N 170-0076 6" Clear PVC pipe for 6400 2-4 Zone - (4) 1½" dia. pieces.
P/N 170-0077 6" Clear PVC pipe for 6600 5-6 Zone - (6) 1½" dia. pieces.

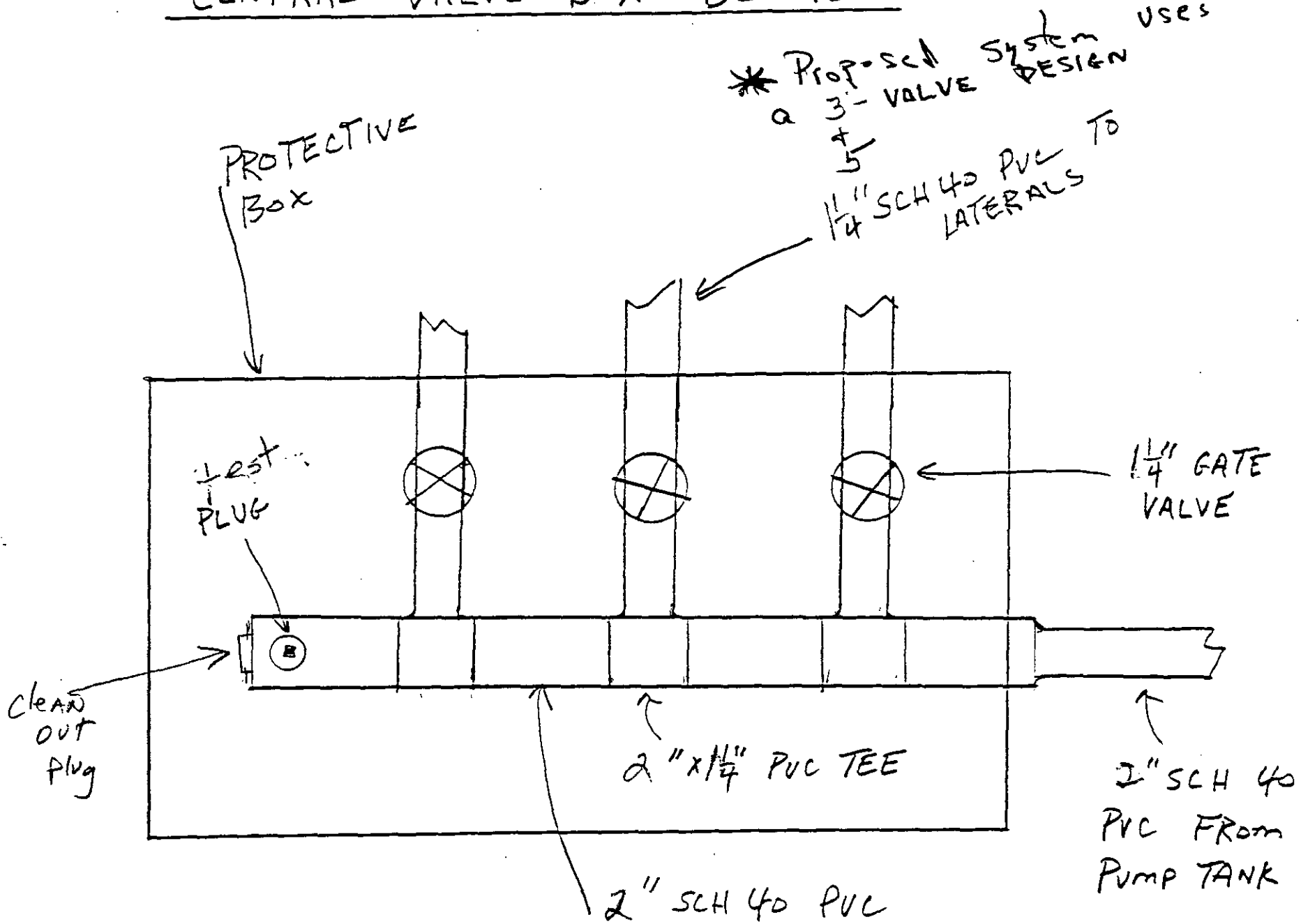
ER ON-SITE WASTEWATER PRODUCTS MUST BE INSTALLED IN ACCORDANCE WITH LOCAL AND/OR STATE PLUMBING RTMENT CODES.

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PUMP DIAGRAM



CENTRAL VALVE BOX DETAIL



FEE: 3000 - Chk 1431
DATE: 5/12/00 SC

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 #: 43268

PROPERTY INFORMATION (FROM ENGINEERING FORM) FOR JOB LOCATION:

TAX/PARCEL NUMBER: 217-191-61

STREET ADDRESS: 19600 Youngblood Rd W

SUBDIVISION OR MOBILE HOME PARK NAME:

LOT NUMBER:

TYPE OF BUILDING (CHECK ONE):

__ SINGLE MOBILE HOME(S)
__ DOUBLE WIDE (D)
✓ HOUSE (H)
__ MODULAR HOME (M)
__ MULTIPLE FAMILY (U)
__ OTHER (O)

TOWNSHIP (CHECK ONE):

✓ 0 MECKLENBURG
__ 1 CHARLOTTE
__ 2 DAVIDSON
__ 3 CORNELIUS
__ 4 PINEVILLE
__ 5 MATTHEWS
__ 6 HUNTERSVILLE
__ 7 MINT HILL

HEATED SQUARE FOOTAGE: 3600

NUMBER OF BEDROOMS: 3 | NUMBER OF OCCUPANTS: 6

CLOSING DATE _____

FOUNDATION FOR RESIDENCE:

__ WITHOUT BASEMENT
__ ON SLAB
__ CRAWL SPACE
✓ WITH BASEMENT /PLUMBING
__ WITH BASEMENT /NO PLUMBING

IF EXPANSION/ALTERATION OF EXISTING SYSTEM, DESCRIBE THE PROPOSED BUILDING ADDITION:

WILL THERE BE A HOME BUSINESS IN THE RESIDENCE: __ YES ✓ NO TYPE: _____

WATER SUPPLY (CHECK ONE):

__ COMMUNITY (C)
__ MUNICIPAL (M)
✓ 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
EXISTING WASTEWATER SYSTEMS __ YES ✓ NO
EASTMENTS OR RIGHT-OF-WAYS __ YES ✓ NO
WELL, SPRINGS OR WATERLINES __ YES ✓ NO
DESIGNATED WETLANDS __ YES __ NO

PROPERTY OWNER:	LEGAL AGENT FOR PROPERTY OWNER, IF APPLICABLE:
NAME: (LAST) Crescent Resource (FIRST) INC (MI)	NAME: (LAST) Jacobs (FIRST) Tracy (MI)
ADDRESS: PO Box 1003	DAYTIME PHONE: ( ) 663-6905
CITY: Charlotte STATE NC ZIP: 28201-1003	
DAYTIME PHONE: ( ) 663-6905	

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: Tracy C. Jacobs, CPM DATE: 5/12/00

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

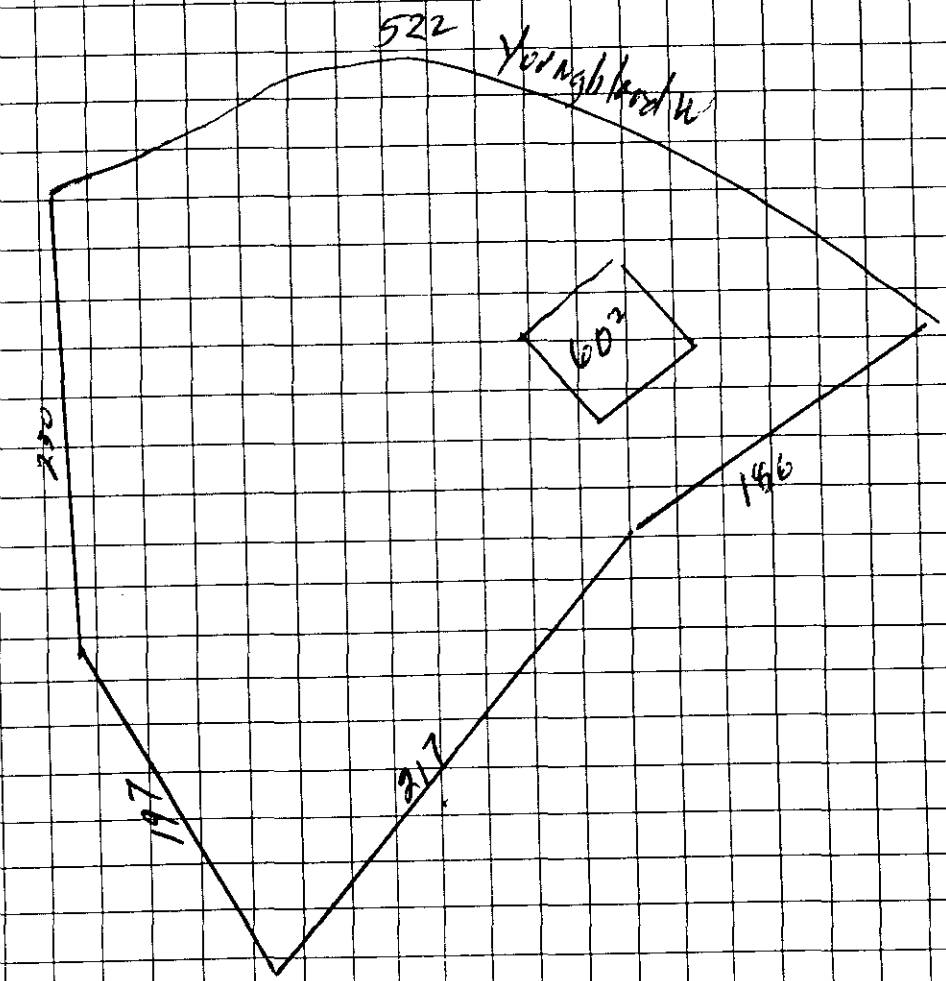
PROPOSED PLOT PLAN

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

FILE: 4326B

TC: 217-191-61

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.



OWNER/AGENT SIGNATURE

DATE 5/12/01

APPROVAL DATE _____

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

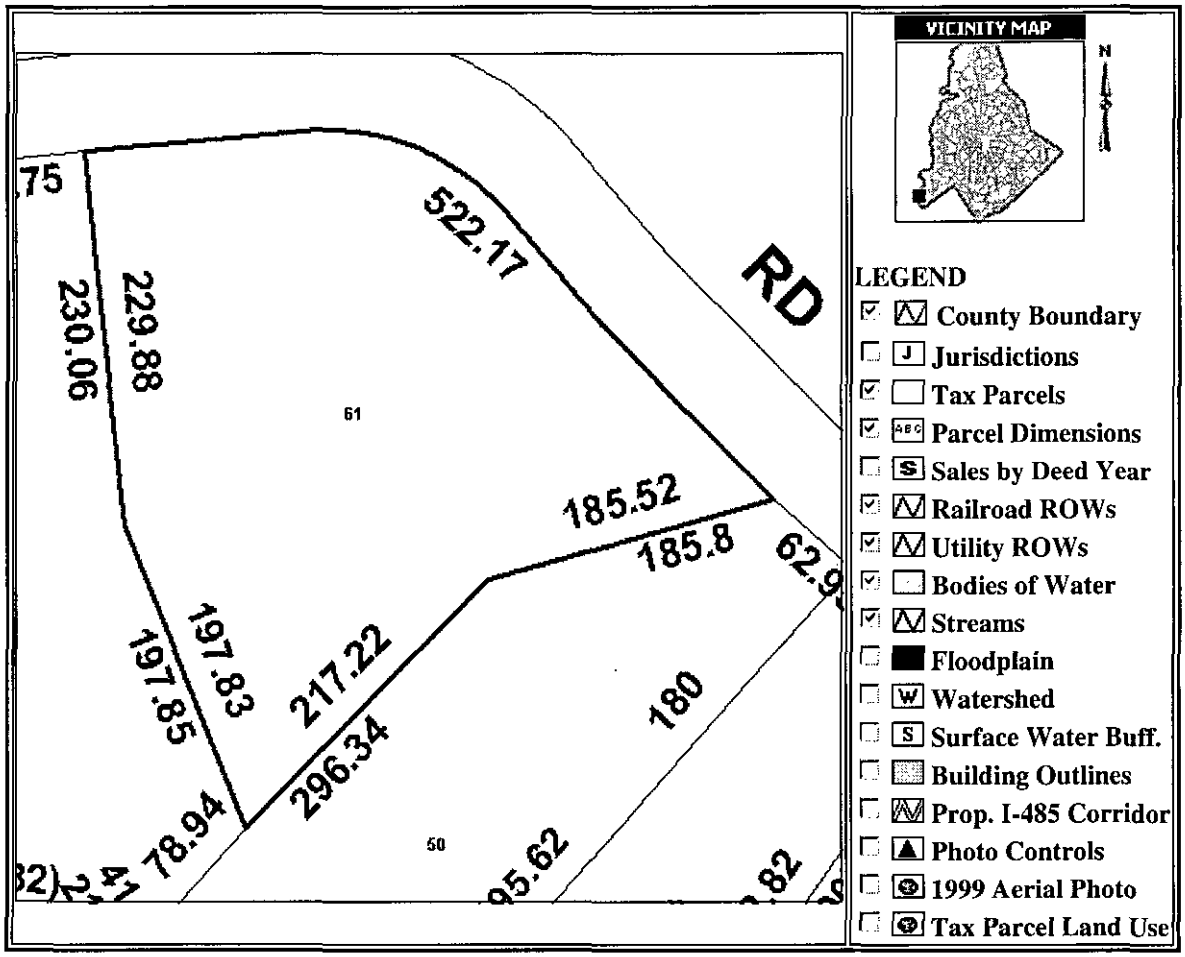
GIS Real Estate System

Mecklenburg County, NC Geographic Information Systems

Tax Parcel & Map Sheet Search | Road Name & Intersection Search | Market Analysis Search Menu
Return to Full Map Extent | How to Use the System | Return to GIS Homepage

Click on Map to Perform Operation

Refresh Map | Pan | Zoom In | Zoom Out | Zoom Factor [1X] | Identify [Parcels] | Surveyor's Report
Adjoining Owner's Report within [10 FEET] | Measure [Start Line] | Label Parcels by: [ ]



Click here to submit questions or comments about the information shown on this page.

Map Scale: 1 Inch = 96 Feet Date and Time Stamp 6/7/00 9:35:13 AM EST	This map is prepared for the inventory of real property within Mecklenburg County and is compiled from recorded deeds, plats, tax maps, surveys, planimetric maps, and other public records and data. Users of this map are hereby notified that the aforementioned public primary information sources should be consulted for verification. Mecklenburg County and its mapping contractors assume no legal responsibility for the information contained herein.

DIVISION OF ENVIRONMENTAL HEALTH
ON-SITE WASTEWATER SECTION

#2

Property ID: 217-19161
Lot #: 2
File #: 4326B

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER: Crescent Resources Dev. APPLICANT: Tony Jacobs
ADDRESS: Box 1003, Charlotte, N.C. DATE EVALUATED: 6-6-00
PROPOSED FACILITY: residence PROPOSED DESIGN FLOW (.1949) 360gpd PROPERTY SIZE: 2.3
LOCATION OF SITE: 1960 Youngblood Road 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	1941 CONSISTENCE MINERALOGY	OTHER PROFILE FACTORS 1942 SOIL WETNESS/ COLOR	1943 SOIL DEPTH	1956 SAPRO CLASS	1944 RESTR HORIZ	PROFILE CLASS &LTAR
1	LS 3 to 5 6-12%	0-6"	gr/sl	Fr/SE/PI/NS/NP	726" to soil wetness	26"	N/A	None	US IgIF2 LL (LPP)
		6-25"	SBK/sc	Fi/SE/PI/SP					
2	LS	0-10"	gr/sl	Fr/SE/PI/NS/NP	732" to soil wetness	27"	N/A	Non-	US IgIF2 III (LPP)
		10-27"	SBK/sc	Fi/SE/PI/SP					
3	LS	0-4"	gr/sl	Fr/SE/PI/NS/NP	~~+25~~ to ~~soil~~ wetness 2.5Y6/2 @24"	25"	N/A	None	US IgIF2 III (LPP)
		4-12"	SBK/scl	Fr/SE/PI/SS/SP					
		12-25"	SBK/sc	Fi/SE/PI/SP					
4	LS	0-6"	gr/sl	Fr/SE/PI/NS/NP	710" to soil wetness	10"	N/A	None	US III
		6-10"	SBK/scl	Fr/SE/PI/SS/SP					
5	LS	0-6"	gr/sl	Fr/SE/PI/NS/NP	712" to soil wetness	12"	N/A	None	US IV
		6-17"	SBK/sc	Fi/SE/PI/SP					

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	US	
System Type(s)	LPP	
Site LTAR	IgIF2	

OTHER FACTORS (.1946)
SITE CLASSIFICATION (.1948) 6-6-00
EVALUATED BY Ken A. Meeks LSS - 6-7-00
OTHER(S) PRESENT P. Pennington

FILE # 432619

COMMENTS Lot does not appear to be 100' Reserve

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

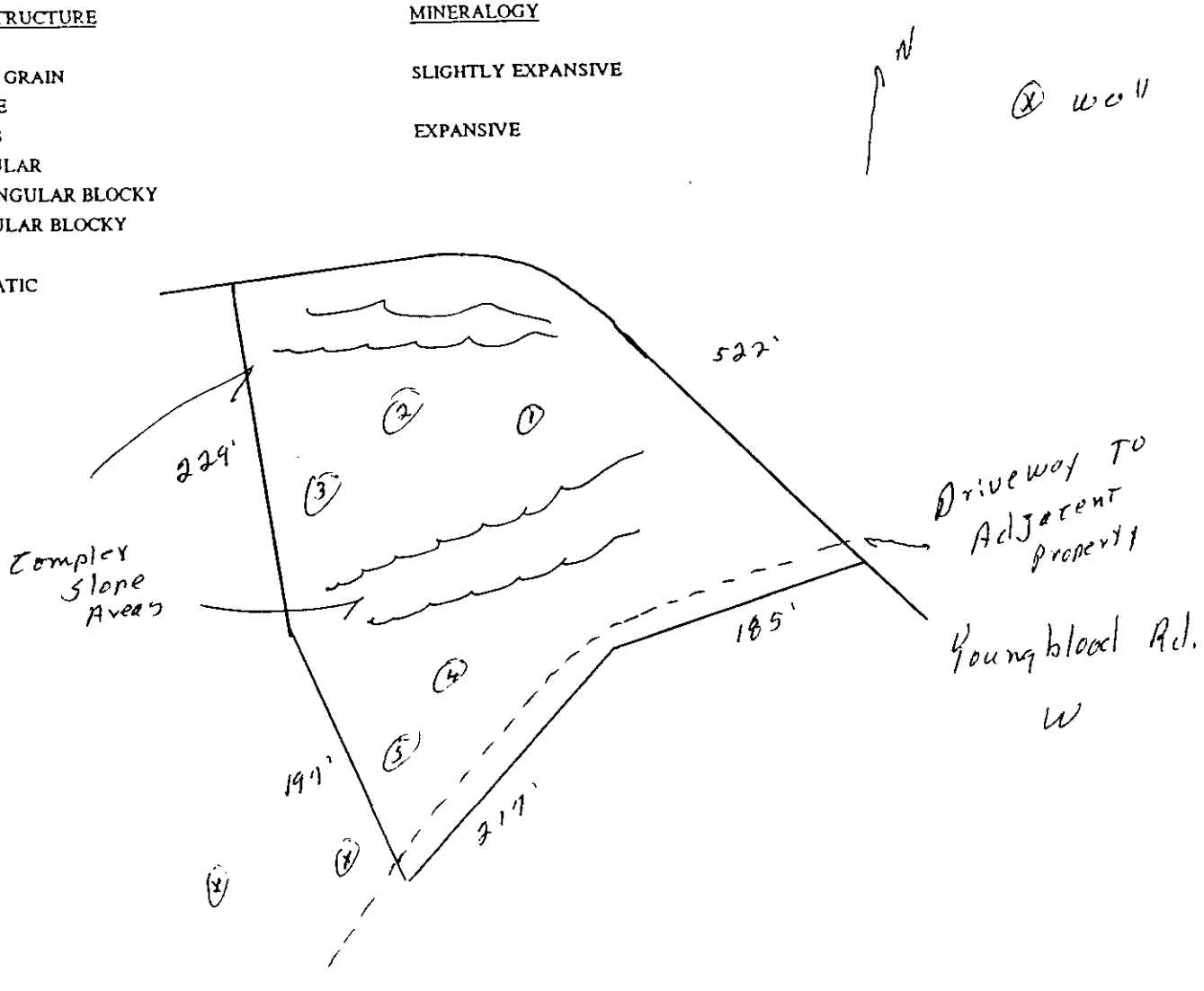
STRUCTURE

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

MINERALOGY

SLIGHTLY EXPANSIVE

EXPANSIVE



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

Sheet _____

#2 AC

Property ID: 217-19161

Lot #: 2

File #: 4326B

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER: Crescent Resources Dev. APPLICANT: Tony Jacobs

ADDRESS: Box 1003, Charlotte, N.C. DATE EVALUATED: 6-6-00

PROPOSED FACILITY: residence PROPOSED DESIGN FLOW (.1949) 360 gpd PROPERTY SIZE: 2.3

LOCATION OF SITE: 19600 Youngblood Rd PROPERTY RECORDED: _____

WATER SUPPLY: ☑Private ☐Public ☐Well ☐Spring ☐Other _____

EVALUATION METHOD: ☐Augur Boring ☐~~Pit~~ ☐Cut

TYPE OF WASTEWATER: ☐~~Sewage~~ ☐Industrial Process ☐Mixed

PROFILE #	Slopes 6-12% .1940 Landscape Position/ Slope %	Horizon Depth (IN:)	SOIL MORPHOLOGY (.1941) .1941 STRUCTURE/ TEXTURE	.1941 CONSISTENCE MINERALOGY	OTHER PROFILE FACTORS .1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	PROFILE CLASS &LTAR
1	LS	0-6"	gr/sl	Fr/SE/PL/NS/NP	726" To soil wetness	26"	N/A	None	US .19/F2 IV (LPP)
		6-25"	SBK/sc	Fi/SE/PL/SP					
2	LS	0-10"	gr/sl	Fr/SE/PL/NS/NP	722" To soil wetness	22"	N/A	Non-	US .19/F2 IV (LPP)
		10-27"	SBK/sc	Fi/SE/PL/SP					
3	LS	0-4"	gr/sl	Fr/SE/PL/NS/NP	~~725~~ To ~~soil~~ wetness 2.5Y6/2 @24"	25"	N/A	None	US .19/F2 IV (LPP)
		4-12"	SBK/scl	Fr/SE/PL/SS/SP					
		12-25"	SBK/sc	Fi/SE/PL/SP					
4	LS	0-6"	gr/sl	Fr/SE/PL/NS/NP	710" To soil wetness	10"	N/A	None	US III
		6-10"	SBK/scl	Fr/SE/PL/SS/SP					
5	LS	0-6"	gr/sl	Fr/SE/PL/NS/NP	712" To soil wetness	12"	N/A	None	US IV
		6-12"	SBK/sc	Fi/SE/PL/SP					

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	US	
System Type(s)	LPP	
Site LTAR	.19 F2	

OTHER FACTORS (.1946): _____

SITE CLASSIFICATION (.1948): 6-6-00

EVALUATED BY: W.R. Marks LSS - 6-7-00

OTHER(S) PRESENT: P. Pennington

FILE # 433269

COMMENTS Soil does not appear to be 100% Pheasant

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

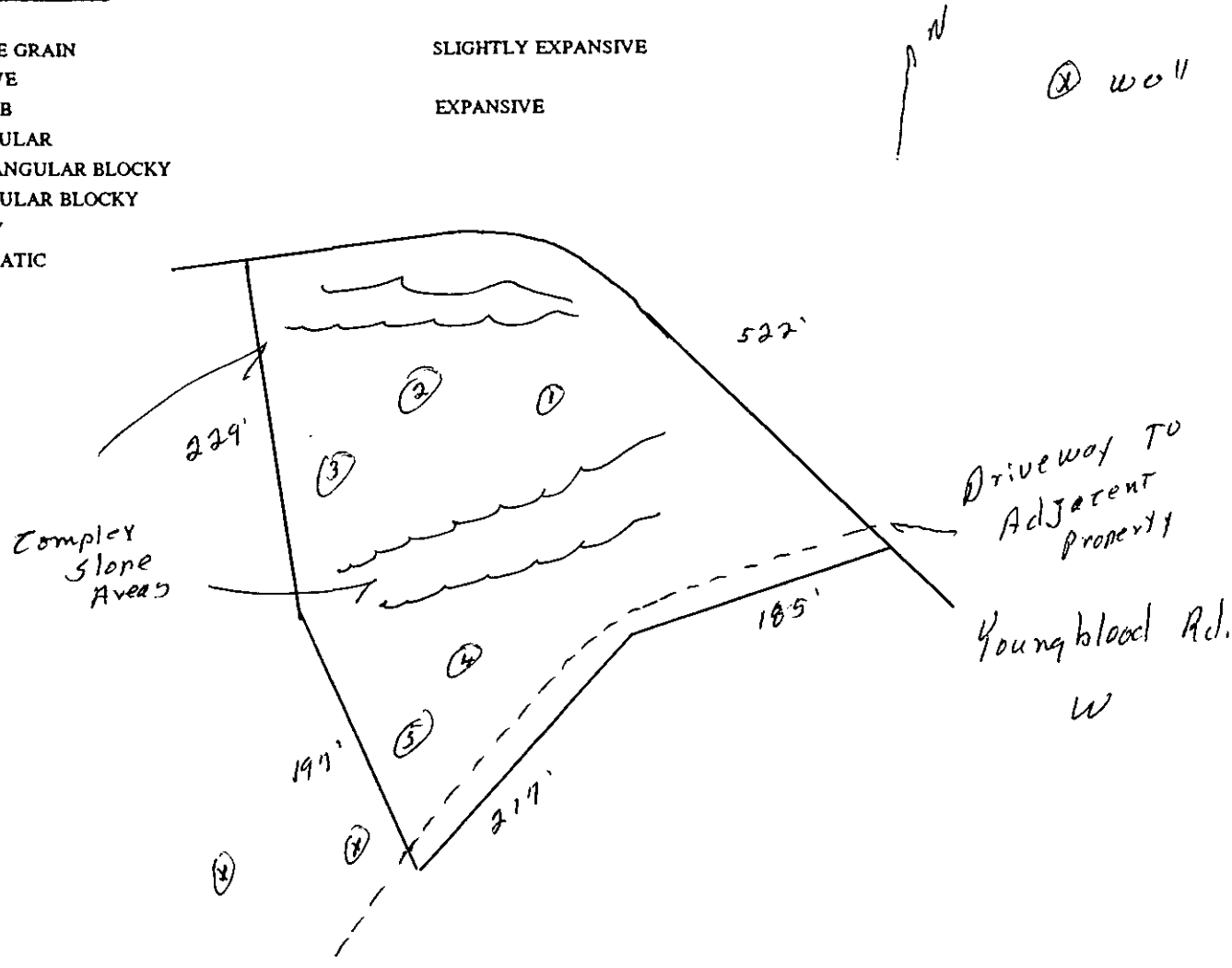
STRUCTURE

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

MINERALOGY

SLIGHTLY EXPANSIVE

EXPANSIVE



FEE: 200.00 Chk 1431
DATE: 5/12/00 SC

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 #: 4336B

PROPERTY INFORMATION (FROM ENGINEERING FORM) FOR JOB LOCATION:

TAX/PARCEL NUMBER: 217-191-61

STREET ADDRESS: 19600 Youngblood Rd W

SUBDIVISION OR MOBILE HOME PARK NAME:

LOT NUMBER:

TYPE OF BUILDING (CHECK ONE):

___ SINGLE MOBILE HOME(S)
___ DOUBLE WIDE (D)
✓ HOUSE (H)
___ MODULAR HOME (M)
___ MULTIPLE FAMILY (U)
___ OTHER (O)

TOWNSHIP (CHECK ONE):

✓ 0 MECKLENBURG
___ 1 CHARLOTTE
___ 2 DAVIDSON
___ 3 CORNELIUS
___ 4 PINEVILLE
___ 5 MATTHEWS
___ 6 HUNTERSVILLE
___ 7 MINT HILL

HEATED SQUARE FOOTAGE: 3600

NUMBER OF BEDROOMS: 3 NUMBER OF OCCUPANTS: 6

CLOSING DATE_____

FOUNDATION FOR RESIDENCE:

___ WITHOUT BASEMENT
___ ON SLAB
___ CRAWL SPACE
✓ WITH BASEMENT /PLUMBING
___ WITH BASEMENT /NO PLUMBING

IF EXPANSION/ALTERATION OF EXISTING SYSTEM, DESCRIBE THE PROPOSED BUILDING ADDITION:

WILL THERE BE A HOME BUSINESS IN THE RESIDENCE: ___ YES ✓ NO TYPE: _____

WATER SUPPLY (CHECK ONE):

___ COMMUNITY (C)
___ MUNICIPAL (M)
✓ 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	___ YES ✓ NO
EXISTING WASTEWATER SYSTEMS	___ YES ✓ NO	DESIGNATED WETLANDS	___ YES ___ NO
EASTMENTS OR RIGHT-OF-WAYS	___ YES ✓ NO		

PROPERTY OWNER:

NAME: (LAST) Crescent (FIRST) Resource (MI) Inc

ADDRESS: PO Box 1003

CITY: Charlotte STATE: NC ZIP: 28201 1003

DAYTIME PHONE: ( ) 663-6905

LEGAL AGENT FOR PROPERTY OWNER, IF APPLICABLE:

NAME: (LAST) Cobb (FIRST) Tony (MI)

DAYTIME PHONE: ( ) 663-6905

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: Tony Cobb, CPSS DATE: 5/12/00

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

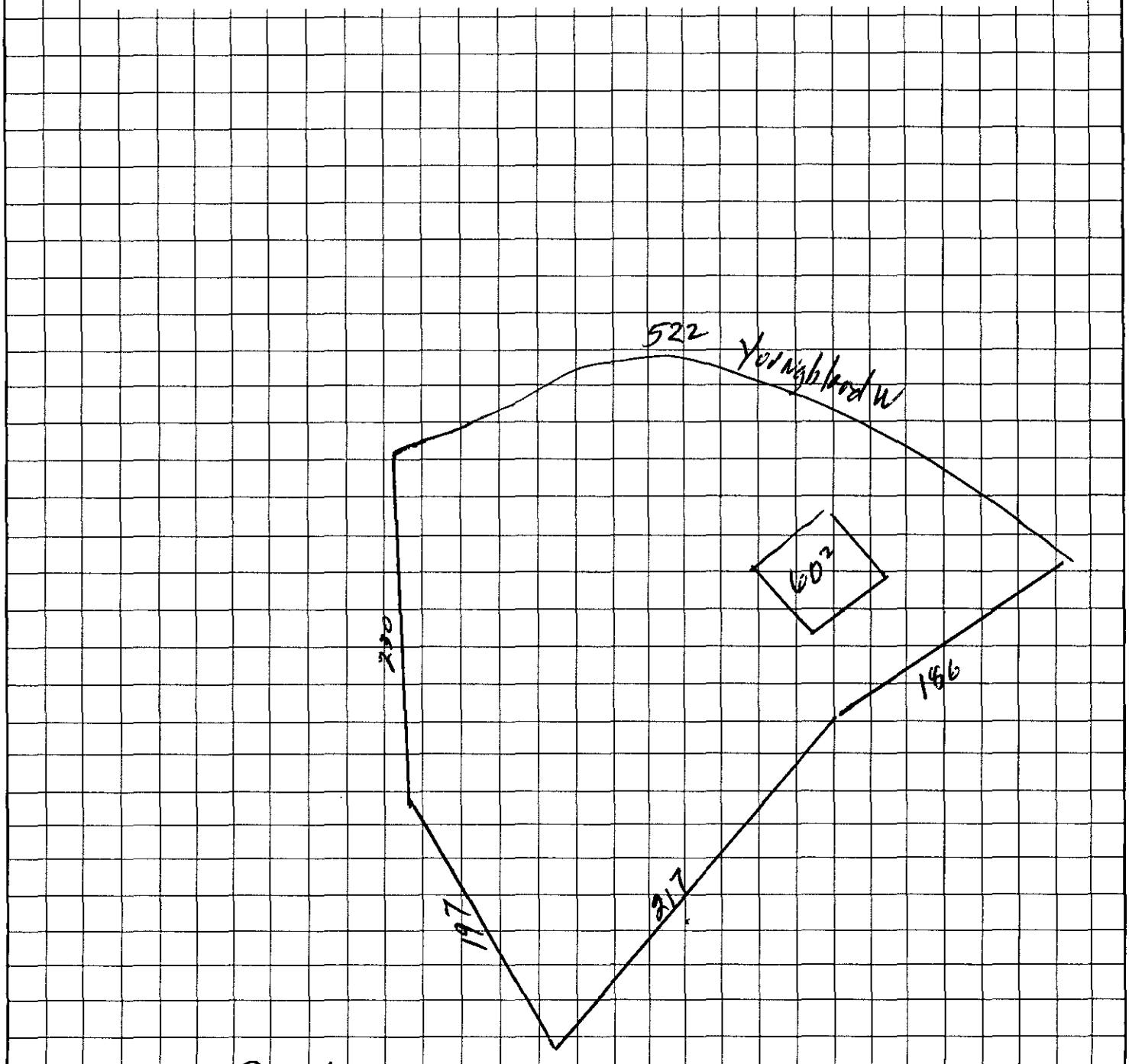
PROPOSED PLOT PLAN

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

FILE: 4326B

TC: 217-191-61

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.



OWNER/AGENT SIGNATURE

DATE 5/12/01

APPROVAL DATE _____

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

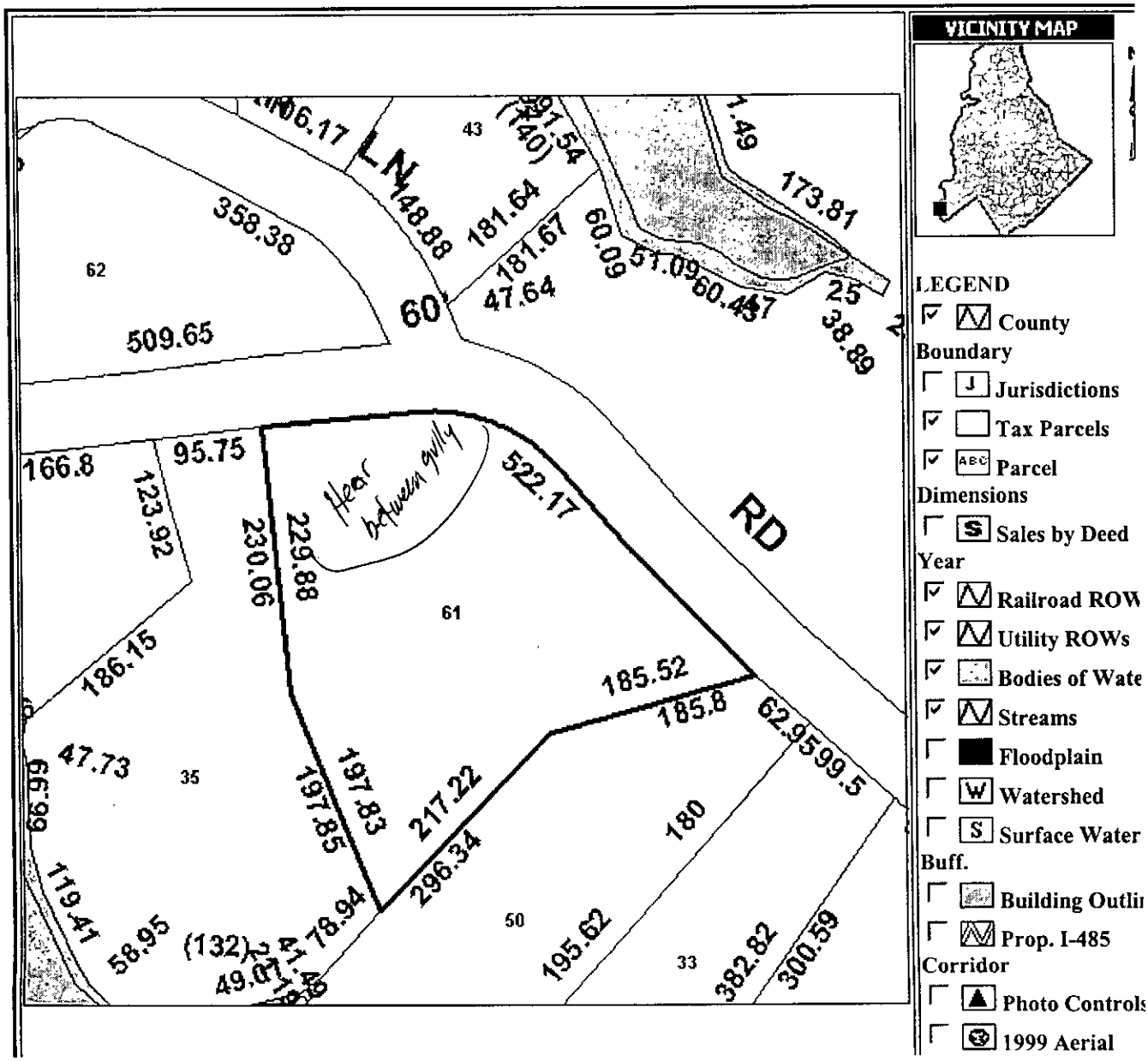
GIS Real Estate System

Mecklenburg County, NC Geographic Information Systems

Tax Parcel & Map Sheet Search | Road Name & Intersection Search | Market Analysis Search Menu
Return to Full Map Extent | How to Use the System | Return to GIS Homepage

Click on Map to Perform Operation

Refresh Map | Pan | Zoom In | Zoom Out | Zoom Factor [1X] | Identify [Parcels]
Surveyor's Report
Adjoining Owner's Report within [10 FEET] | Measure [Start Line] | Label Parcels by: [ ]



DATE: 5-12-00

TO: CHARLOTTE-MECKLENBURG BUILDING STANDARDS
PERMIT ISSUING SECTION

FROM: MECKLENBURG COUNTY ENGINEERING

pH water

JURISDICTION Meck

217-191-61
PARCEL NUMBER

19600 Youngblood Rd West
ASSIGNED STREET ADDRESS (ADDRESS OF RECORD)

EXISTING STREET ADDRESS (IF DIFFERENT FROM ASSIGNED)

N/A
PROJECT NAME (IF APPLICABLE)

THE ABOVE DESCRIBED LOCATION HAS BEEN CHECKED CONCERNING:

1. SUBDIVISION REGULATIONS	____ APPROVED	____ NOT APPROVED
2. FLOODWAY REGULATIONS	____ APPROVED	____ NOT APPROVED
3. WATERSHED PROTECTION	____ APPROVED	____ NOT APPROVED
4. COMERCIAL DRAINAGE PLAN	____ APPROVED	____ NOT APPROVED
5. PUBLIC UTILITY EASEMENT	____ PRESENT	____ NOT PRESENT
6. PROPERTY FRONTS ON THOROUGHFARE	____ YES	____ NO
7. DRIVEWAY PERMIT REQUIRED	____ YES	____ NO
8. DOES PROJECT CONFLICT WITH ROAD PROJECT?	____ YES	____ NO

REMARKS: Septic System

NOTE: THIS FORM MUST BE TURNED IN AT THE CASHIERS OFFICE WHEN PAYING PERMIT FEE. CERTIFICATE OF OCCUPANCY WILL NOT BE GRANTED UNTIL TRANSPORTATION DIVISION GRANTS FINAL APPROVAL ON DRIVEWAY(S).

ALL OTHER FORMS OBSOLETE

X NEW ADDRESS
REVISED 1/91

SIGNED: Dary A. Hum