

10322 PASCHALL RD

1/3/2008

duponbj

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

Mecklenburg County
Health Department

November 16, 1995

Mr. Jim Bass
Crescent Resources Inc.
Charlotte, NC 28201-1003

Re: Axson Lane
File: 3433B
Parcel: 113-183-14

Dear Mr. Bass:

Receipt of your plans for a modified waste disposal system for the above referenced property is acknowledged.

The plans as submitted are approved with the following comments:

- Water saving plumbing devices and low flush toilets should be installed when constructing the residence.

- Effectively rake and lime all trench sidewalls.

- Landscaping of original system area and the repair area is prohibited. No grading, shaping, or altering in any way.

- The well should be located 100 feet, but in no case less than 50 feet from the sewage system and repair area.

- This is a Type 4 sewage disposal system. A contract must be executed for periodic maintenance between the property owner and a certified operator prior to the issuance of an operation permit (final).

Upon execution and recording of the enclosed "Septic Tank Agreement Form" an improvement permit can be issued by this Department.

If you have any questions concerning this matter, please contact me at 336-5575.

Sincerely,

Kelly Randall, R.S.
Individual Water and Wastewater Systems

Enclosure(s)

TCJ CONSULTING

SITE / SOIL EVALUATION

JOB: C.E Axson & Paschall Rd PHONE: _____ DATE: _____

LOCATION: _____ PIN: _____ COUNTY: _____ PROPERTY SIZE: _____

PROPOSED FACILITY: _____ WATER SUPPLY: On-Site Well__ Community__ Public__ EVALUATION: Auger Boring__ Pit__ Cut__

WEATHER: _____ ANTECEDENT MOISTURE: _____ SURFACE WATER: _____

FACTORS	PROFILE_	PROFILE_	PROFILE_	PROFILE_
LANDSCAPE POSITION-%				
HORIZON I DEPTH				
Color - Munsell				
Texture				
Structure				
Consistence				
Boundary				
HORIZON DEPTH II				
Color - Munsell				
Texture				
Mottles				
Structure				
Consistence				
Boundary				
HORIZON III DEPTH				
Color - Munsell				
Texture				
Mottles				
Structure				
Consistence				
Boundary				
HORIZON IV DEPTH				
Color - Munsell				
Texture				
Mottles				
Structure				
Consistence				
Boundary				
SOIL WETNESS				
RESTRICTIVE HORIZON				
SAPROLITE				
LTAR				
CLASSIFICATION				

LEGEND

LANDSCAPE POSITION
R - Ridge
S - Shoulder
L - Linear slope
S - Foot slope
N_p Nose slope
H - Head slope
Cc - Concave slope
Cv - Convex slope
T - Terrace
P - Flood Plain

TEXTURE
s - sand
ls - loamy sand
sl - sandy loam
l - loam
si - silt
sil - silt loam
sicl - silty clay loam
cl - clay loam
scl - sandy clay loam
sc - sandy clay
sic - silty clay
c - clay

CONSISTENCE
MOIST / WET

WET
Ns - non-sticky
Ss - slightly sticky
S - sticky
Vs - very sticky

Np - non-plastic
Sp - slightly plastic
P - plastic
Vp - very plastic

MOIST
vfr - very friable
fr - friable
fi - firm
vfi - very firm
efi - extremely firm

STRUCTURE
sg - single grain
m - massive
cr - crumb
gr - granular
sab - subangular blocky
ab - angular blocky
pl - platy
pr - prismatic

TCJ CONSULTING

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CRESCENT RESOURCES, INC.

LAKE LOT CAT-215 CORNER OF AXSON 7 PASCHALL RD.

MECKLENBURG COUNTY, NORTH CAROLINA

MCHD FILE #3433P PARCEL #113-183-14

by

Toney C. Jacobs & Associates, Inc.
Consulting Soil Scientists
168 Broadbill Drive
Mooresville, N. C. 28115

October 15, 1995



To: Mr. Kelly Randall, R.S.
Mecklenburg County Health Dept. - IWWS
Charlotte, N. C.

Mr. Jim Bass
Crescent Resources, Inc.
P.O. Box 396
Terrell, N. C. 28632



Toney C. Jacobs, CPSS

Crescent Resources, Inc. Lake Lot CAT-215 - Corner of Axson Ln. & Paschall Rd.

LOW-PRESSURE DISTRIBUTION T & J PANEL SYSTEM

Design Considerations

This system is proposed for a single family residential lot of 1.172 acres in an older developed rural community of single family homes in western Mecklenburg County along Lake Wiley. This is a waterfront lot on an unimproved gravel road. There are woodlands and a horse barn across the street There is a drainageway across the lot which will be changed and setbacks considered. The system is designed for a 3 bedroom home to be served by a private on-site well. Because the property was platted in May 1959, the proposed drainfield does not require a 100% repair area. The need for a repair area along with the possible consequences of failure have been discussed with the developer. The soil on most of the tract is of an unsuitable quality for ground absorption. One small area was identified with sufficient area for use with a modified system, site modification, and an extremely conservative loading rate.

Because of limited space associated with the lake setback, drainage, and provisionally suitable soil, the panel block system with pressure distribution is considered best suited and permittable. A caution to the owner and installer includes no cutting or leveling, except by fill to the surface. The need for a French drain is indicated and are a requirement of this permit. The system will require a management agreement.

Location

The approximately 1.2 acre building lot is on the left near the end of Paschall Road, off Walker's Ferry Road, Mecklenburg County, N. C.

Reference

[1] *Design and Installation of Low Pressure Wastewater Treatment Systems,* by Craig Cogger, Bobby L. Carlisle, Dennis Osborne, and Ed Holland. UNC Sea Grant UNC-SG-82-03, May 1982.

[2] *Laws and Rules for Ground Absorption Sewage Disposal Systems 15A NCAC 18A. 1900,* NCDEHNR-DEH.

[3] *Design, Installation and Maintenance of the T & J Panel Wastewater Treatment System for Sanitarians and Septic Tank Installers,* 1988.

Recommendation

Three hundred and twenty (320) lineal feet of Pressure T & J lines.

Ownership Responsibility for a LPP Distribution System

Conservation measures should be undertaken in plumbing fixture specifications to minimize the volume of wastewater entering the disposal system, including, but not limited to the following precautions:

(a) Provide water conserving plumbing fixtures within the facility. Waterclosets must be 1.6 gal. flush (per code). Shower head should also have restrictions or be of low volume design.

(b) Develop conservative water use habits. If weekends are the time of significantly more water use and week days are less, system should be reworked with timer rather than floats for flow equalization. This can be retrofitted if maintenance monitoring indicates such a need.

(c) Monitor and maintain the system as necessary for proper operation. An Operation Permit will require a maintenance contract to be filed with the Mecklenburg County Health Department. It is recommended that the owner aggressively utilize this requirement because of its importance to system longevity. The management entity (certified operator) should be a part of installation process. If installed by other, it would be best if operator was consulted for a preclosure inspection.

System must be properly installed by a *qualified* and *competent* contractor following the requirements of the Mecklenburg County Department of Environmental Health, DEH, the N.C. Building Code, Plumbing Code, and the Electrical Code. This plan, as any, is a guide to a minimum standard, but cannot take the place of experience and common sense. County inspector should allow additional inspection time because of complexity of system and need for exacting levels. Only after the installation of (1) a new ditch system at the street, (2) a drainage swail toward the lake and past the septic system, and (3) a French drain immediately upslope of the system can be permit be completed.

NOTE

Components of System

1. Two compartment septic tank - 1500 gal.
2. Pumping tank - 1500 gal.
3. Submersible effluent pump and level controls - SSOMA certified
   (This is for equal distribution and not to overcome gravity.)

4. High water alarm signals which are UL approved
5. Supply pipe
6. Gate valves
7. Laterals with LPP distribution and T & J Panels in ground absorption trenches, 2 feet wide, level end to end, and placed to the exact relative level specifications in plan. If the installer does not understand this or its importance, he should not begin construction until certain of all requirements.

Construction Sequence

1. Lines have been flagged as noted on drawing and in specifications.
2. Clear the area of all organic material with minimum soil disturbance (do not grade).
3. Install trenches per cited reference material and this plan. There should be one hole near the center of each panel, pointed up. Top grade on pipes to be "level" from end to end and vertically from manifold and checked by sanitarian. (Note: This is a four valve designed system and uses both 11/64" and 5/32" holes).
4. All joints in lateral manifold piping shall be watertight connections to insure that the only source of water seepage from the system is through the orifices as designed. Carefully install manifold and lateral network according to the attached design layout. Protect valves with valve box. A larger diameter protective sleeve with cap or approved box with lid shall be placed over the turned up lateral and positioned level with the ground surface (so as not to be damaged by mowing machine). Turn-up with two 45 degree ells, not one 90. Area around pipe should be stabilized with crushed stone, both inside and outside of riser. Stone allows for infiltration of waste and wash water when system is maintained.
5. Carefully backfill manifold trenches to grade with clean clay or clay loam soil fill material which is carefully placed and compacted. Place cleanouts as shown on plan.
6. The installation contractor shall stabilize the area of construction by planting with Kentucky 31 tall Fescue and mulching. Area to be limed and fertilized with 0.5 tons lime, 75 units of N, 150 units P, and 100 units of K per disturbed acre. This is approximately one tenth acre.
7. The septic tank shall consist of an approved 1500 gallon capacity reinforced, precast watertight, concrete tank with full baffle and shall have easy access to each chamber from ground level for inspection. The first chamber of the septic tank shall consist of 2/3 to 3/4 of the volume of the total tank and the baffle shall contain a

horizontal opening across the tank at about midway . Locate the septic tank at such height as to provide approximately 8" of cover soil over top of the tank.

8. The dosing tank shall consist of an approved 1500 gallon capacity, reinforced, precast, watertight concrete tank without baffle and shall have a concrete mounting pad (concrete blocks) for accommodating the pump. Test for leakage per regulations. Provide access for entry into the tank directly over the pump location, and extending 6" above final grade. Use a 30" diameter concrete well casing or equivalent and concrete well cap or other approved type cover. There must be a seal (masonry or seal rope) between well tile and top of tank.

9. All piping and fitting shall be SCH 40 PVC. Glue for all PVC pipe joints shall be as recommended by the pipe manufacturer. Note: On the distal end of each lateral turn-up should be 2 each, 45 degree elbows, rather than one 90 to facilitate maintenance.

10. Pump: The submerged pump shall be Model ME 50 manufactured by Myers or equal, 115 or 230 v/1 phase; capable of pumping 31.5 gallons per minute at 35.5' of head.

11. Pump controls and alarm to meet specifications of .1952, all being compatible.

12. A "Warning Sign" shall be located within the house to inform the occupants of action to take in case the "High Water Alarm" is activated. This sign shall contain the name, address, telephone number, and emergency telephone number of the person to contact upon malfunction of the system. This should be "management entity".

13. Pump and Controls: Details of pump installation are shown in the plan. The pump must be placed on concrete blocks on the bottom of the tank. This prevents the pumping of any solid particles which can clog the pipe system. A piece of nylon rope or other non-corrodible material should be attached to the pump and the outlet pipe for lifting the pump in and out of the chamber. Controls should be fastened to a "tree" or the outlet pipe with clamps or brackets supplied by the manufacturer. The lower level control or "pump-off" must be positioned above the pump, so that the pump remains submerged at all times. The level control "pump-on" is positioned to pump a specified volume of effluent. The high water control float is then mounted about 3" above the upper pump-on control. (Note: Care must be taken to insure that floats do not become fouled by other components in the tank, such as the electric power cord or the lifting rope. It is highly recommended that a telescoping "tree" be used for floats to facilitate adjustments.) The pump outlet pipe should be connected to the supply manifold with a threaded PVC union (or dresser coupling) to allow quick removal.

14. Electrical Connections: The pump and high water alarm must be placed on separate electrical circuits. (If the pump circuit fails, the alarm must still be able to operate). Follow the manufacturers recommendations for the proper fuses or circuit breakers. All electrical connections must be made outside the pumping chamber. Power cords from the pumps and controls should be plugged into a NEMA 4X approved outdoor receptacle. This must not be located inside the pumping chamber due to the corrosive and explosive gasses that may form from the sewage. This box must be a minimum of 1' above finished grade. Some level control switches have a box built into the housing, but are more expensive than the plug-in devices. Wiring between the pumping chamber and the station should meet State and local code requirements. A lightning arrester is recommended to protect the pump and controls from electrical surges.

15. Proper Operation Check: After all components have been installed and connected, the system should be checked for proper operation. With electrical power turned off, fill the pumping chamber with water from garden hose until the liquid rises to the level of the high-water alarm float. Turn on the electrical power. The alarm light should go on in the house, and the pump should start operating. The alarm light should go off when the liquid reaches the lowest float control. Be sure the pump is still completely submerged.

16. Pressure Head Adjustment: The pressure head must be adjusted to match that specified in the design. The pressure head is measured as the height liquid will rise above the turn-up elbow when the pump is running. To adjust the head:

(a) Glue a 4' length of pipe (preferably clear) to a threaded adapter that will screw onto the turn-up adapters. (Call this the "test tube".)

(b) Replace the turn-up cap with the "test tube".

(c) Adjust the gate valves until the effluent reaches the desired height in the "test tube". This may also be done with a weep hole in solid pipe at the desired height. Strive to be within 1/8" accuracy. Remember to include the distance below the ground surface to the lateral line when measuring the height. The pressure head should be as specified for each line. This is the height above the lateral where the liquid should be in the temporary "test tube".

17. Final Landscaping: After the system is installed, the absorption field should be reshaped to shed rainwater and be free of low areas to insure that the system will not be overloaded with excess rainwater and run-on.

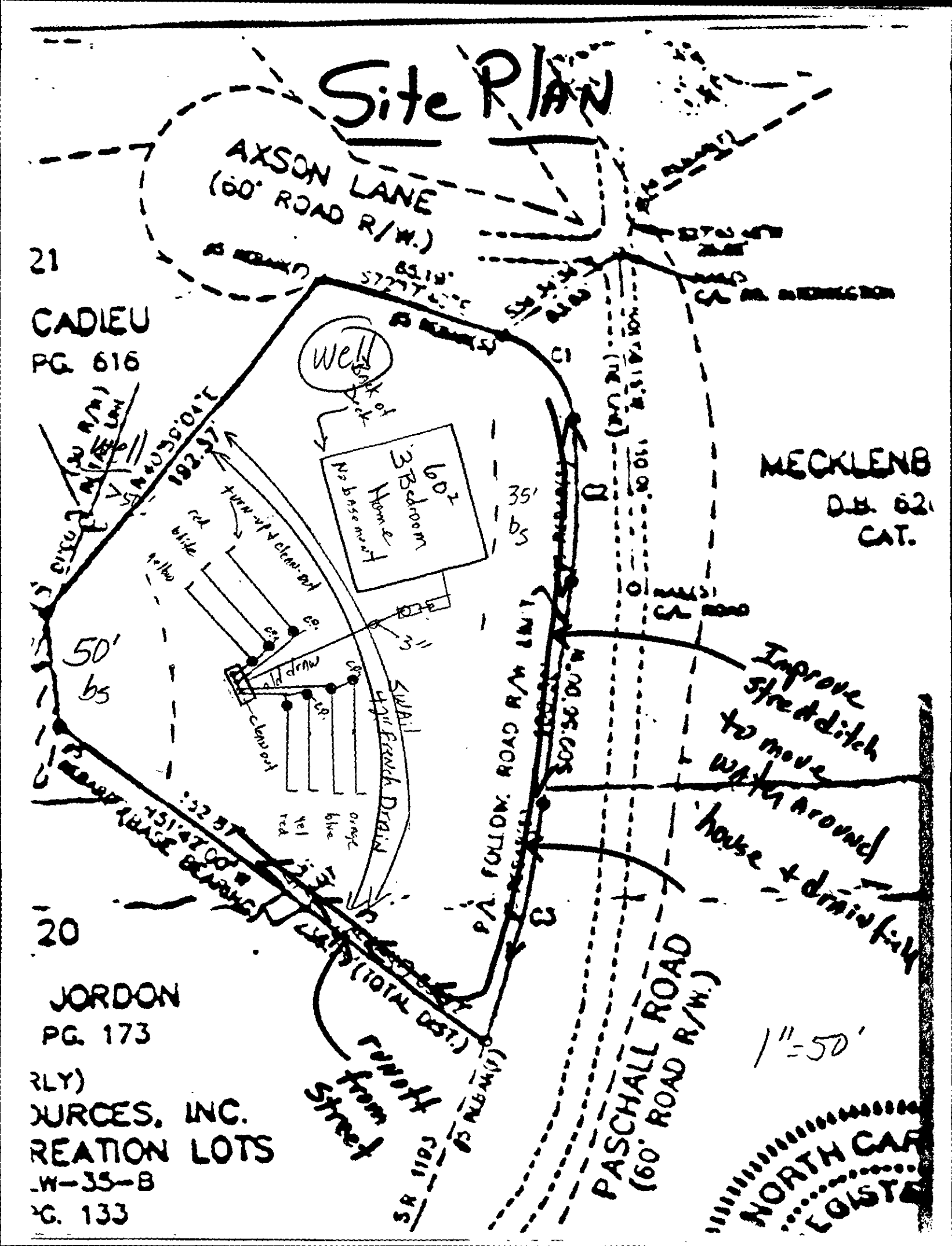
Concluding Note:

This plan was done to facilitate permitting by the Mecklenburg County Health Department by an agent of the developer. Any additions, or additional requirement(s), or deletions to enhance design or workability which will facilitate a permit are welcomed and may be made by note on this plan without returning entire design. The designer realizes that a plan with as many details as this can be changed and/or improved upon. The installer must realize that this is an exact plan and must be installed with exacting measurements. Should the installer desire a change, it must be approved by the health department in writing. Final inspection will also require more time and detail than a conventional system. If there are questions, please give me a call.

Design Specifications

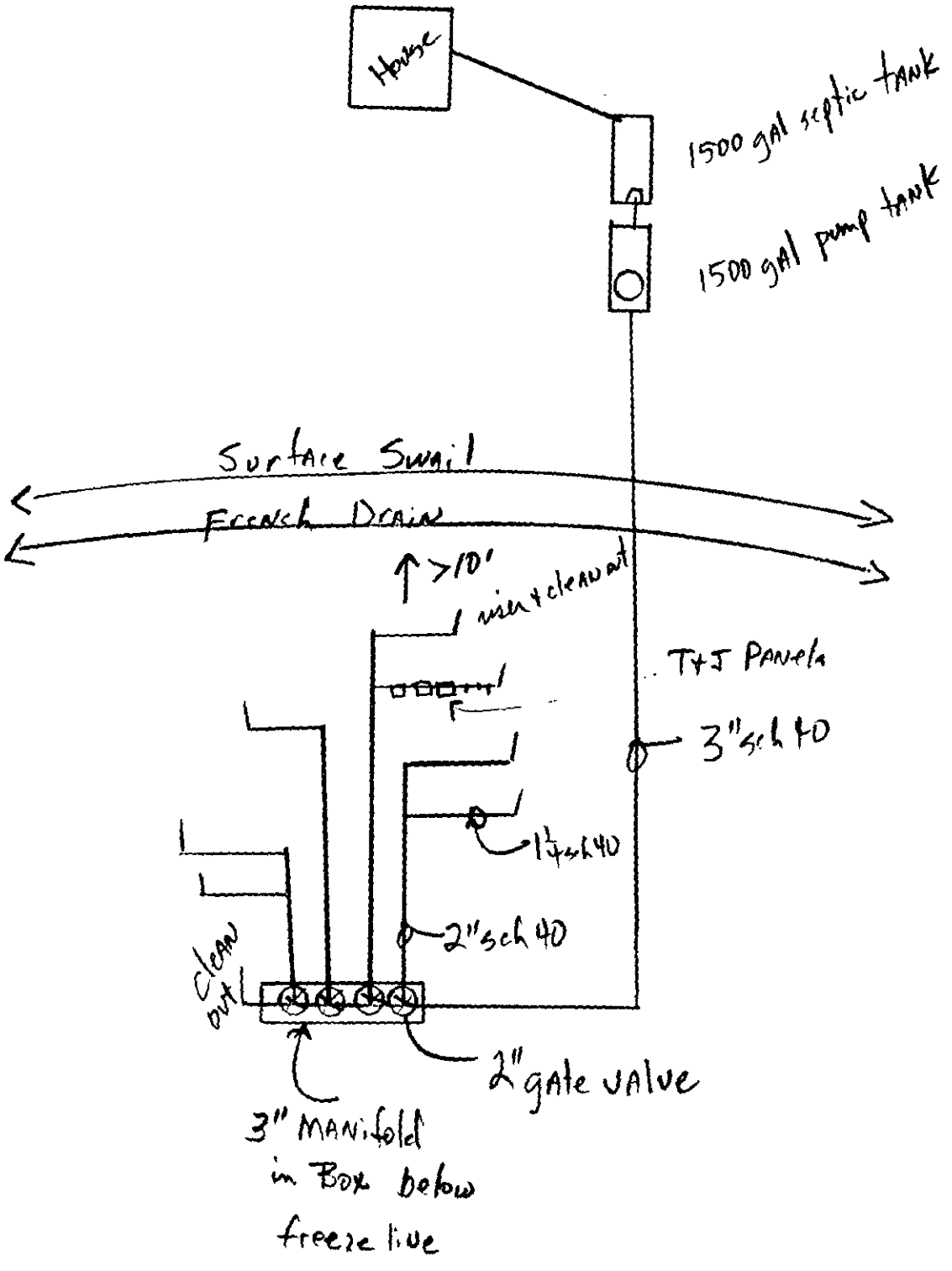
Crescent Resources, Inc. lot - CAT 215

Daily design flow:	360 gpd. - 3 bedroom house
Septic tank size:	1500 gal. (2 compartments)
Pumping tank size:	1500 gal.
Effluent loading rate:	0.1875 gpd/sf conventional
Total length and diameter of supply manifold:	app. 50 lf-3" sch 40 PVC and app. 145 lf 2" sch 40 PVC
Number and length of laterals:	7 lines of varying length or 315 lf of 1¼" sch 40 PVC,
Hole size:	2 sizes 11/64" and 5/32"
Hole spacing:	1 per panel or 54"
Total number of holes:	72 (one in each T & J Panel near the center with the hole turned up)
Flow rate through the system:	42.4 gpm
Elevation head:	7.0'
Pressure head:	3.0' - 4.45'
Friction head:	4.0'
20% contingency	3.7"
Total head:	19.2'
Pump requirements:	42.4 gpm at 19.2' of head; use Myers "ME 33" pump or equivalent with compatible electrical
Dosing volume:	259 gal. - 1.4 doses/day at design flow
Depth of water pumped per dose:	calculated to specific tank by measure or dealer engineering specifications(1 cubic ft. of water equals 7.48 gals.)
Pump run per dose:	approx. 6.1 min., (by gate valve adjustment)
Check valve:	No
Siphon break hole:	Yes


Site Plan
AXSON LANE
(60' ROAD R/W.)
21
CADIEU
PG. 616
Well
60'
3 Bedroom
Home
No basement
182.37'
N 44°30'04"E
35'
bs
50'
bs
turn-up + clean-out
red
white
yellow
clean-out
3"
Subsoil
4" French Drain
orange
blue
red
N 31°47'00" E
332.37'
20
JORDON
PG. 173
RLY)
OURCES, INC.
REATION LOTS
W-35-B
G. 133
MECKLENB
D.B. 62
CAT.
Improve
Str. ditch
to move
with around
house + drainfield
P.A. (FOLLOW ROAD R/W LINE)
PASCHALL ROAD
(60' ROAD R/W.)
SR 1182
(PAVED)
1"=50'

Schematic

Improve or Install Road Ditch

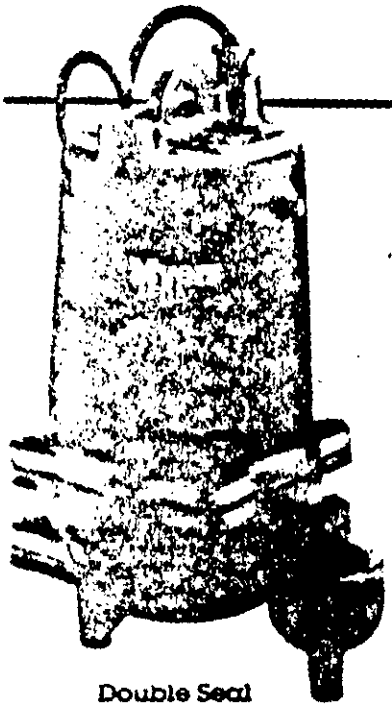


DISTRIBUTION SPECIFICATIONS

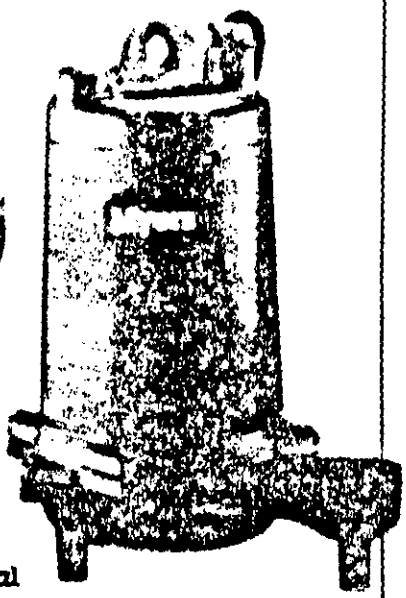
LINE	COLOR	LENGTH	ASSUMED GROUND SURFACE ELEV.	HOLE SIZE "	HOLE SPACING "	DESIGN HEAD '	FLOW/HOLE GPM	# HOLES & PANELS	FLOW LINE GPM
1	ORANGE	50	102.0	11/64	~54	3	.606	11	6.67
2	BLUE	45	102.7	5/32	"	4.3	.60	10	6.00
3	YEL	45	99.5	11/64	"	3	.606	10	6.06
4	RED	40	97.65	5/32	"	4.45	.610	9	5.49
5	RED	45	94.5	11/64	~54	3	.606	10	6.06
6	WHITE	45	93.2	11/64	"	3	.606	10	6.06
7	YEL	45	91.9	5/32	"	4.3	.60	10	6.00
									42.34

ME SERIES

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



Double Seal



Single Seal

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

ADVANTAGES BY DESIGN

IDEAL FOR USE IN MOUND AND TRENCH PRESSURE DISTRIBUTION SYSTEMS

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

DURABLE MOTOR WILL DELIVER MANY YEARS OF RELIABLE SERVICE

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

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

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

PRODUCT CAPABILITIES

Capacities To	120 GPM	454 LPM
Heads To	98 ft.	29.8 m
Max. Spherical Solids	¾ in.	19 mm
Liquids Handling	domestic effluent & drain water	
Intermittent Liquid Temp.	up to 140° F	up to 60° C
Motor Electrical Data	1/3 & 1/2 HP, 115 volts, 1 ph 1/3 to 1-1/2 HP, 230 volts, 1 ph 208, 230, 460, 575 volts, 3 ph oil-filled, permanent split capacitor type, 1 ph, 3450 rpm, 60 Hz	
Motor Insulation	Class B (130°C)	
Third Party Approvals	Pending	
Acceptable pH Range	6-9	
Specific Gravity	9-1.1	
Viscosity	28-35 SSU	
Discharge, NPT	2 in.	50.8 mm
Min. Sump Dia. Simplex Duplex	24 in. 36 in.	61 cm 91.4 cm

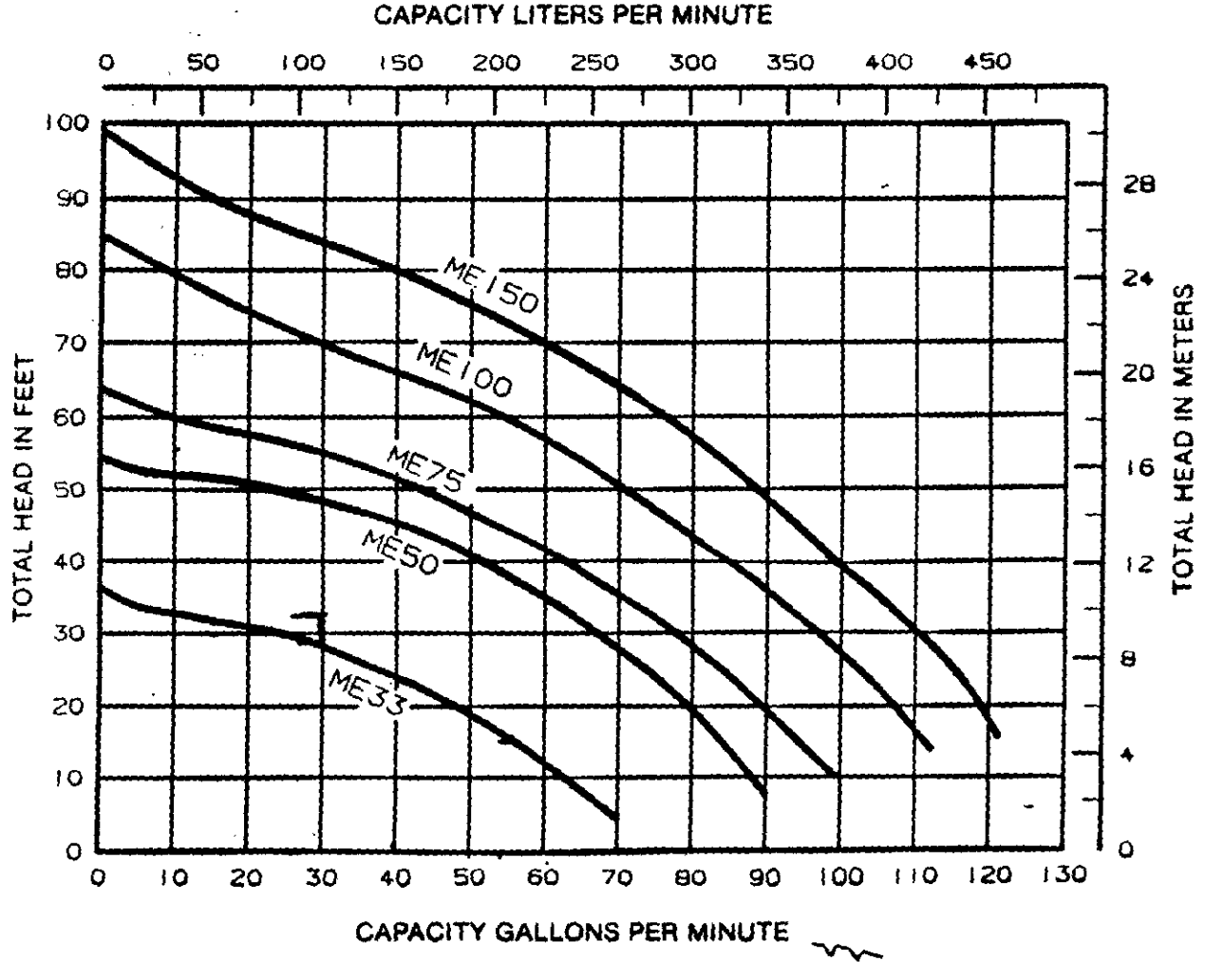
Construction Materials	
Motor Housing, Volute	cast iron, Class 30, ASTM A48-76
Enclosed Two Vane Impeller Standard Optional	engineered thermoplastic bronze
Impeller Wear Ring	304 SST
Volute Sealing Ring	Buna-N
Shaft	416 SST
Power Cord 1/3 & 1/2 HP, 1 Ph 3/4 - 1 1/2 HP, 1 Ph All 3 Ph	 20 ft. 16/3 SJOW/SJOW-A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

WHERE INNOVATION MEETS TRADITION

Myers®

ME Series
1/3 through 1-1/2 HP
Effluent Pumps
Performance Curve

Myers



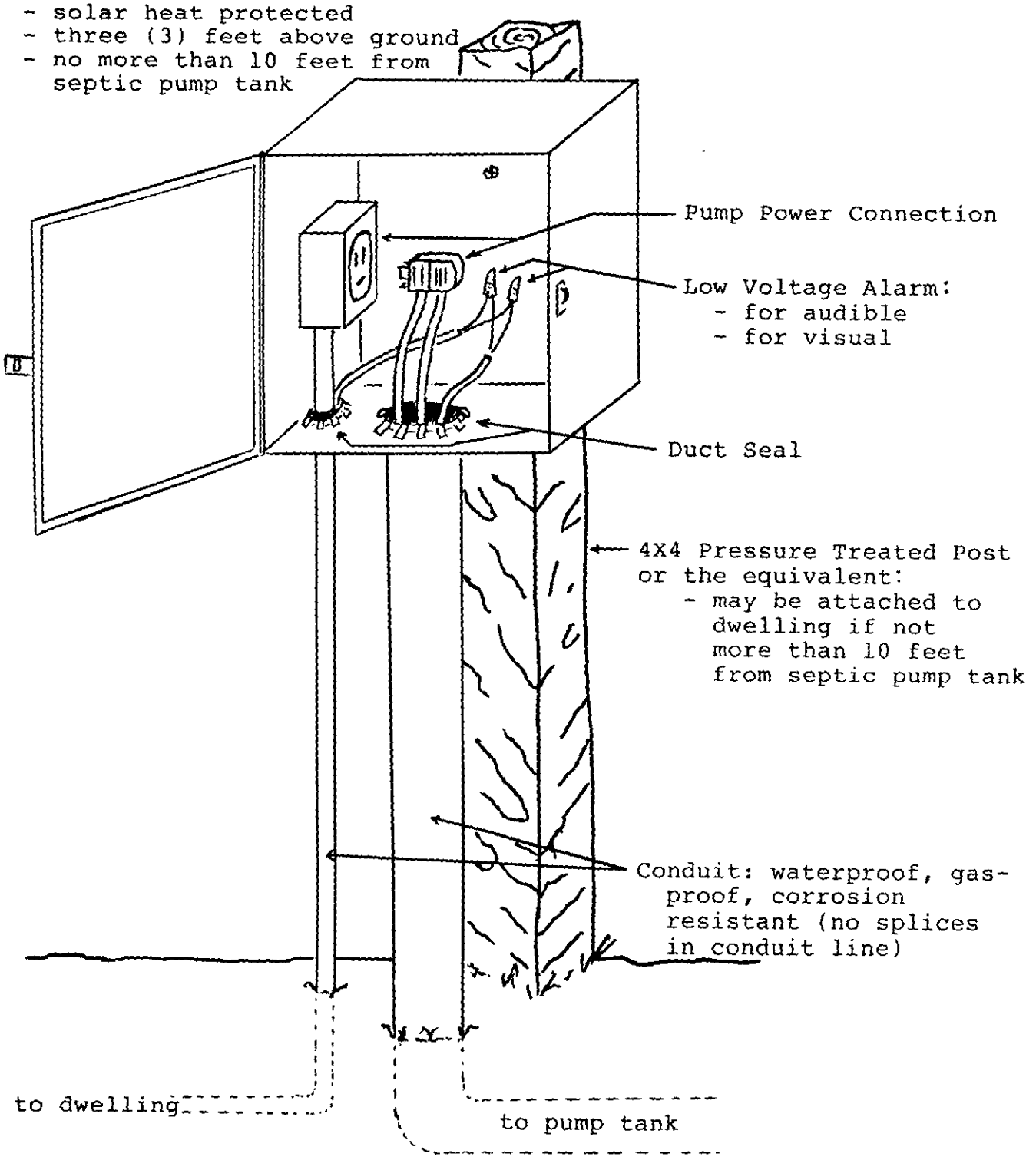
F.E. Myers, A Pentair Company • 1101 Myers Parkway, Ashland, Ohio 44805-1923
419/289-1144 FAX 419/289-6658 Telex 98-7443

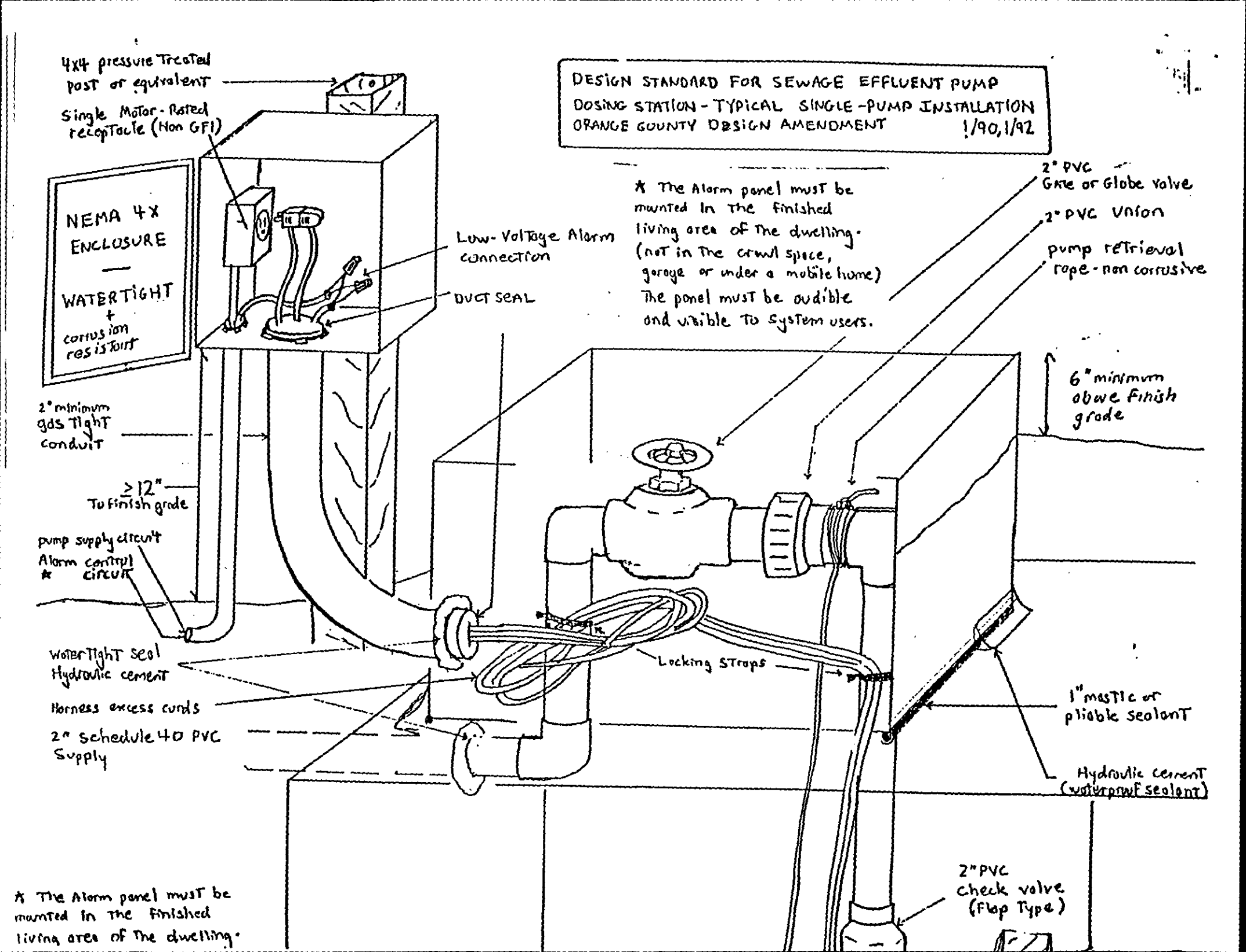
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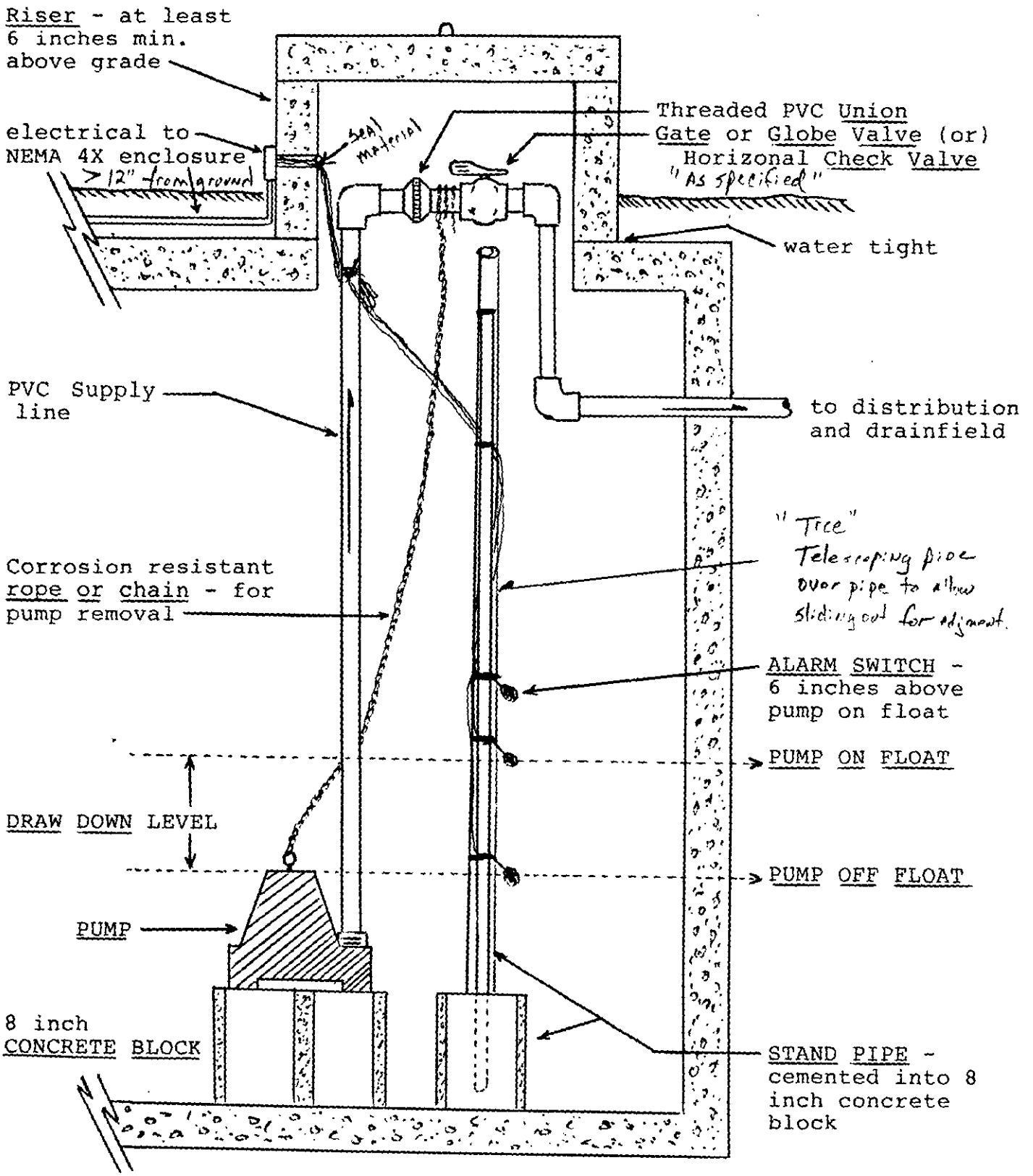
NEMA 4X ENCLOSURE must be:

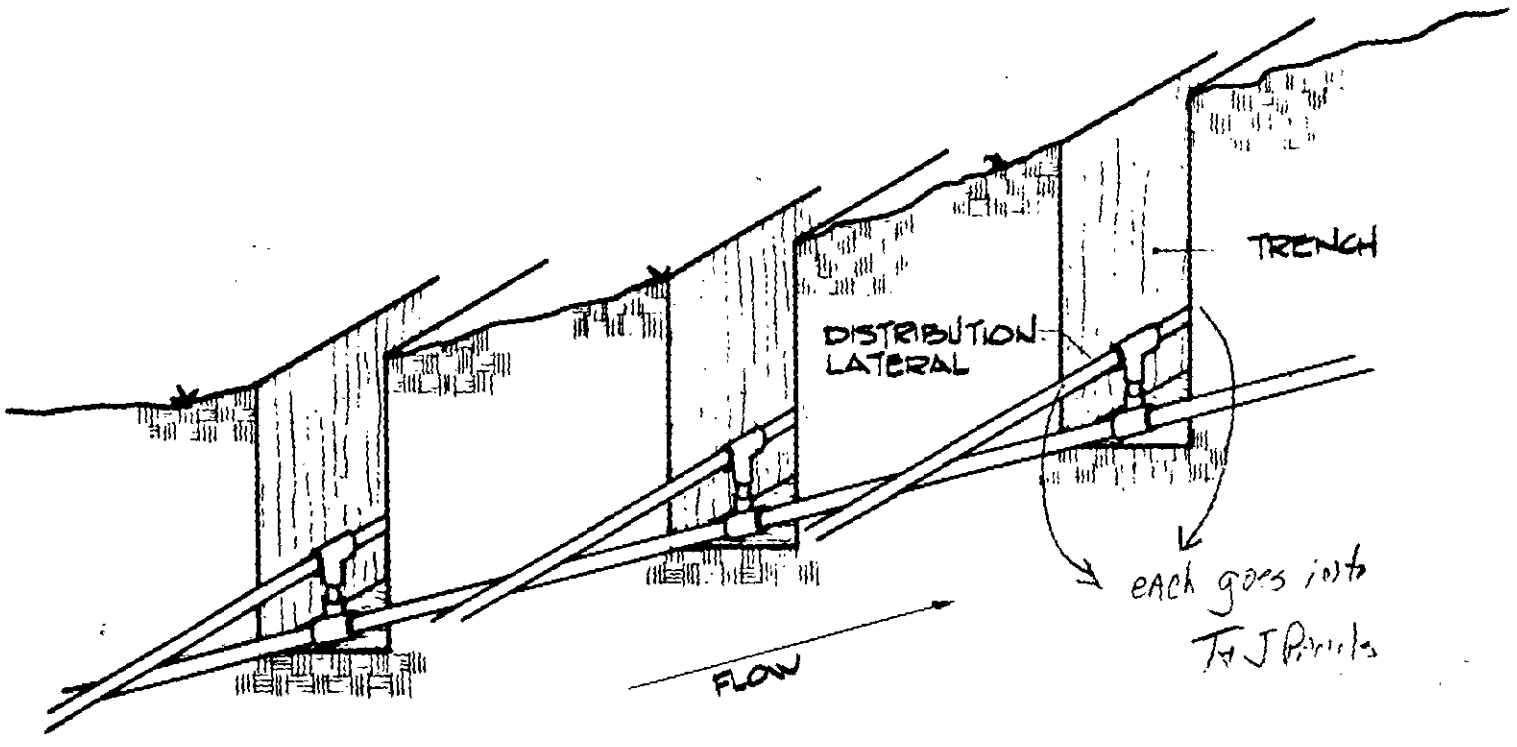
- water tight
- corrosion resistant
- solar heat protected
- three (3) feet above ground
- no more than 10 feet from septic pump tank




DESIGN STANDARD FOR SEWAGE EFFLUENT PUMP
DOSING STATION - TYPICAL SINGLE-PUMP INSTALLATION
ORANGE COUNTY DESIGN AMENDMENT 1/90, 1/92
4x4 pressure Treated post or equivalent
Single Motor-Rated receptacle (Non GFI)
NEMA 4X ENCLOSURE — WATERTIGHT + corrosion resistant
Low-Voltage Alarm connection
DUCT SEAL
* The Alarm panel must be mounted in the finished living area of the dwelling. (not in the crawl space, garage or under a mobile home) The panel must be audible and visible to system users.
2" PVC Gate or Globe valve
2" PVC Union
pump retrieval rope - non corrosive
6" minimum above finish grade
2" minimum gas tight conduit
≥ 12" To finish grade
pump supply circuit
Alarm control * circuit
Watertight seal Hydraulic cement
Harness excess cords
2" schedule 40 PVC Supply
Locking Straps
1" mastic or pliable sealant
Hydraulic cement (waterproof sealant)
2" PVC check valve (Flap Type)
* The Alarm panel must be mounted in the finished living area of the dwelling.

PUMP DIAGRAM





A PUMPING UPHILL

from Cooper et al, 1982)

3433B

INDIVIDUAL WATER AND WASTEWATER SYSTEMS PROGRAM
APPLICATION FOR SERVICES

Property Owner

$1,130 10/ 1/30/95 CK.# 824

[] CRT

Mecklenburg County Health Dept.
Environmental Health Division
c/o Hal Marshall Ctr., Suite 211
700 N. Tryon St.
Charlotte, NC 28202

(704)336-5102

~~PERSON FILING APPLICATION:~~

NAME: Crescent Resources, INC (Jim Bass)
(last) (first) (mi)

ADDRESS: PO Box 1003 PHONE: 704 478-2130

CITY: CHARLOTTE STATE: NC ZIPCODE: 28201-1003

Date: OCTOBER 24 1994

~~PROPERTY OWNER: PERSON FILING Application~~

NAME: Sumpter ~~SAME~~ Hal
(last) (first) (mi)

ADDRESS: 3501 Wilkinson Blvd PHONE: (704) 399-5348

CITY: Charlotte STATE: NC ZIPCODE: 28208

PROPERTY INFORMATION (FROM ENGINEERING FORM):

TAX/PARCEL NUMBER: 113-183-~~04~~14

STREET ADDRESS: AXSON LN @ PASCHAL RD.

ZONING:

Township (check one):
[X] 0 Mecklenburg County [] 2 Davidson [] 4 Pineville [] 6 Huntersville
[] 1 Charlotte [] 3 Cornelius [] 5 Matthews [] 7 Mint Hill

SUBDIVISION OR MOBILE HOME PARK NAME:

LOT NUMBER: LOT SIZE (in acres):

TYPE APPLICATION (check one):

[X] SOIL TEST - INDIVIDUAL LOT (D)
[X] NEW CONSTRUCTION ON VACANT LOT - 4 BEDROOMS OR LESS (N)
[] EXCHANGE MOBILE HOME - SAME # BEDROOMS (Y)
[] ADDITION - INCREASE ROOMS/OCCUPANCY/MOBILE HOME SIZE (A or M)
[] COMMERCIAL OR INDUSTRIAL (N)
[] SOIL TEST DEVELOPMENT (P)
[] ADDITION - GARAGE OR RENOVATION/NO MAJOR CHANGES (X)
[] MODIFIED /ALTERNATIVE/ OR RESIDENCE > 4 BEDROOMS (Z)
[] REPAIR TO SYSTEM (R)

RESIDENTIAL PROPERTY (Type Building, check one):
[] SINGLE MOBILE HOME (S) [X] HOUSE (H) [] MULTIPLE FAMILY (U)
[X] DOUBLE WIDE (D) [] MODULAR HOME (M) [] OTHER _____ (O)

NUMBER BEDROOMS: 3 NUMBER OCCUPANTS: 5

SYSTEM CLASSIFICATION:

COMMERCIAL/INDUSTRIAL PROPERTY:
Type Business _____ # Employees ___ Per Shift ___ ___ ___
Industrial Wastes (Y/N) ___
Underground Storage Tanks On Property (Y/N) ___ Type _____

WATER SUPPLY (check one):
[] Community (C) [] Shared Well (S)
[] Municipal (M) [] Other 'spring' (O)
[X] Private Well (P)

FUTURE ADDITIONS - ALL PLANNED ADDITIONS MUST BE ENTERED (check all that apply):
[] Swimming Pool [] Jacuzzi [] Stable/Barn [] Workshop [] None
[] Garage [] Storage Building [] Deck/Patio [] Bedrooms [] Other

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: James H Bass Jr Date: October 24, 1994

NOTICE:

The undersigned, an authorized agent of the MECKLENBURG COUNTY HEALTH DEPARTMENT, certifies that the Department has approved the the Request for the Job Location contained in this document. This approval is granted in accordance with the provisions of Laws And Rules for Sanitary Sewage Collection, 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 permit is not transferable.

...

[] IMPROVEMENT PERMIT - VALID 60 MONTHS FROM ISSUANCE
[] MOBILE HOME EXCHANGE APPROVAL - VALID 6 MONTHS FROM ISSUANCE
[] ADDITION/RENOVATION APPROVAL - VALID 1 YEAR FROM ISSUANCE

_____ Environmentalist Date

_____ Director or Authorized Section Head Date

WWATER : 122791

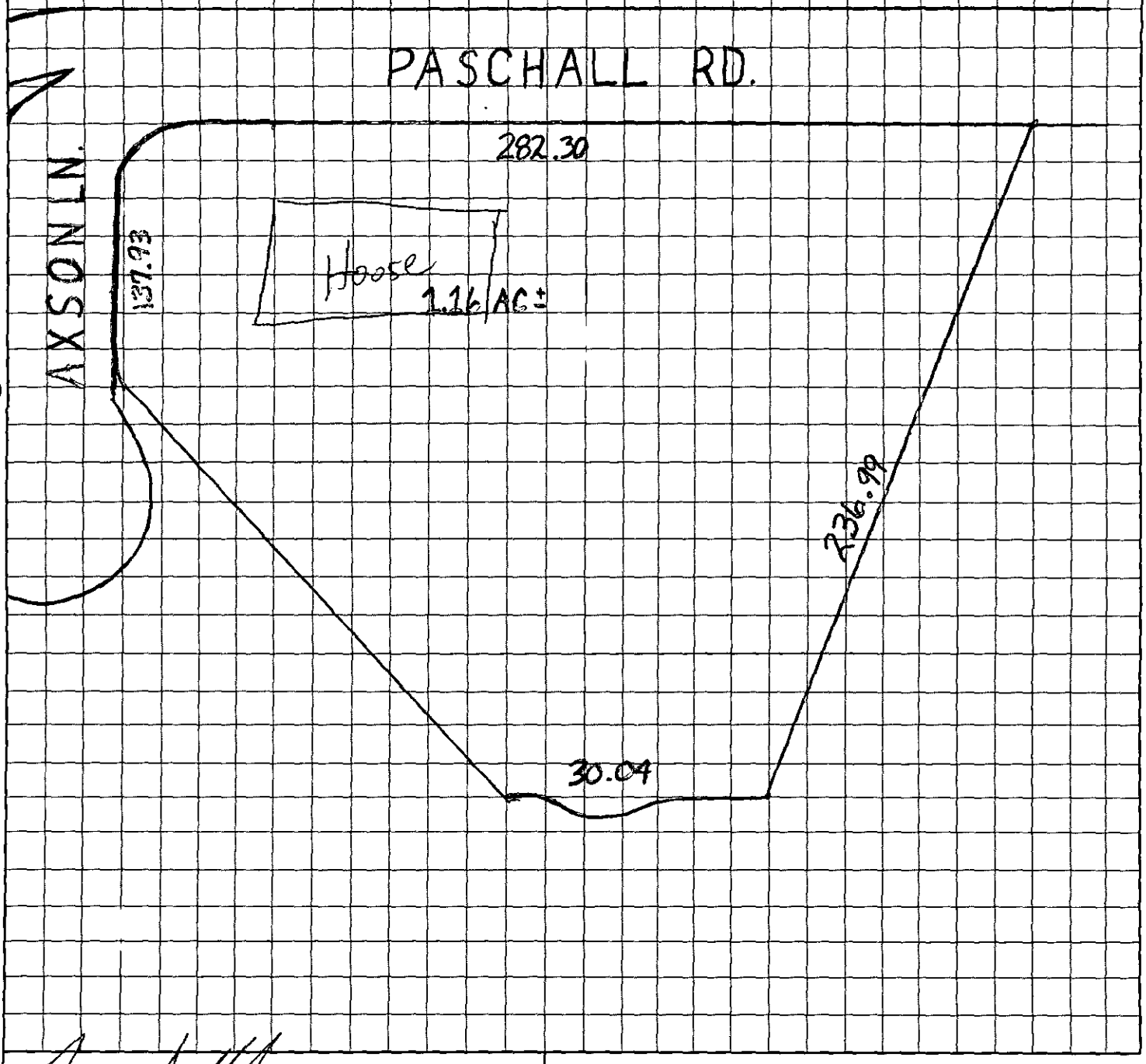
PROPOSED PLOT PLAN

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

FILE: 34336

TC: 113-183-14

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 Jun 28, 1995

APPROVAL DATE _____

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

MECKLENBURG COUNTY HEALTH DEPARTMENT
SITE EVALUATION REPORT
SERIAL NUMBER 20592 (2.4500)

File: 3433B Action 3

Parcel: 113-183-14 ☐ PC

Location: Axson Lane at Paschall Rd

Subdivision:

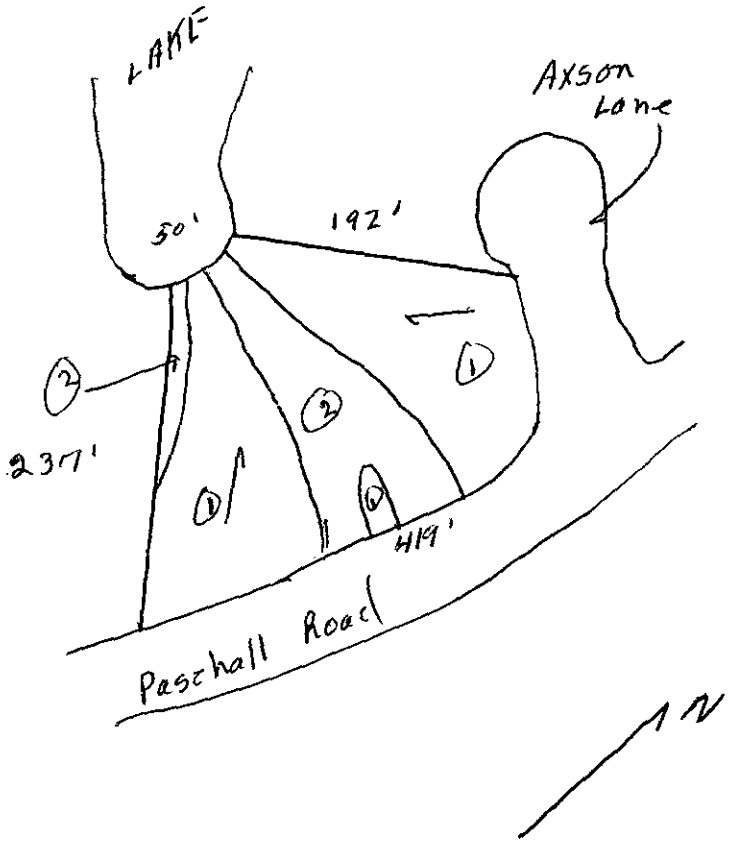
Lot: Block: Acres: 1.16

Owner: Crescent Resources, Corp. (Jim Bass)
Address: PO Box 1003
Charlotte, N.C. 28201-1003

Comments: _____

Described by: William R. Marlin

Date: 2-9-95



***** EVALUATION KEY *****

S = Suitable U = Unsuitable
PS = Provisionally Suitable
The "Area Classification" below indicates the suitability of areas in the diagram.

FACTORS	AREA 1	AREA 2	AREA 3	AREA 4	AREA 5	AREA 6
Topography	S (PS) U 10-20%	S PS (U) complex slopes	S PS (U)	S PS U	S PS U	S PS U
Texture	S PS (U) Expansive Clay	S PS U —	S PS U	S PS U	S PS U	S PS U
Structure	S (PS) U Block	S PS U —	S PS U	S PS U	S PS U	S PS U
Drainage 736" To	S (PS) U soil wetness	S PS U —	S PS U	S PS U	S PS U	S PS U
Depth	S PS (U) 16-33'	S PS U —	S PS U	S PS U	S PS U	S PS U
Restrictive Horizons	S (PS) U 736"	S PS U —	S PS U	S PS U	S PS U	S PS U
Available Space	S (PS) U	S PS U	S PS U	S PS U	S PS U	S PS U
Other (specify)	S PS U	S PS U	S PS U	S PS U	S PS U	S PS U
Soil Group/Series	Series Not Determined	Complex Slopes				
Area Classification	S PS (U)	S PS (U)	S PS U	S PS U	S PS U	S PS U

Mecklenburg County
Health Department

February 28, 1995

Mr. Hal Sumpter
3501 Wilkinson Blvd.
Charlotte, NC 28208

Re: Axson Lane @ Pascal Road
File: 3433B
Parcel: 113-183-14

Dear Mr. Sumpter:

Receipt of the plans and specifications for a conventional system of sewage treatment and disposal for the above property is hereby acknowledged. Upon receipt of the information, a review was made of the material on file and a site evaluation was conducted. The plan was then reviewed in conjunction with provisions of 15A NCAC 18A .1900, "Laws and Rules for Sewage Treatment and Disposal Systems." Our comments are listed below (see enclosed soil report):

1- The available area on this site is classified as UNSUITABLE according to the following rules:

(a) .1940 Topography and Landscape Position
(b) .1941 Expansive Clay
(c) .1943 Shallow Depth

For these reasons, the plans as submitted are disapproved. This Department is not aware of any site modifications or alternative systems that would allow for the issuance of an Improvement Permit for a wastewater treatment and disposal system on this property.

However, please be aware that according to Rule .1948(d) "A site classified as UNSUITABLE may be used for a ground absorption sewage treatment and disposal system specifically identified in Rules .1955,.1956, or .1957 of the Section or a system approved under Rule .1969 if written documentation, including engineering, hydrogeologic, geologic or soil studies, indicates to the local health department that the proposed system can be expected to function satisfactorily. Such sites shall be reclassified as PROVISIONALLY SUITABLE if the local health department determines that the substantiating data indicate that:

(1) a ground absorption system can be installed so that the effluent will be non-pathogenic, non-infectious, not-toxic, and non-hazardous;
(2) the effluent will not contaminate groundwater or surface water; and
(3) the effluent will not be exposed on the ground surface or be discharged to surface waters wherre it could come in contact with people, animals, or vectors.

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

The State shall review the substantiating data if requested by the local health department.

You also have the right to an informal review with this Department, you have the right to appeal under G.S. 130A-24 through the State Office of Administrative Hearings (OAH), and to have the appeal held in Mecklenburg County.

You may wish to contact the Charlotte-Mecklenburg Utility Department at 399-2551 to inquire about the possibility of municipal sewer service.

If you have any questions concerning this matter, please contact me at 336-5572.

Sincerely,

Toni Higgins-Bunney, R.S.
Individual Water and Wastewater Systems

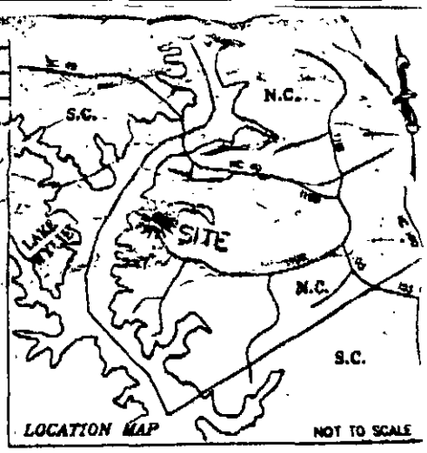
cc: Mr. William Marlin, Soil Scientist
Crescent Resources, Inc. (Jim Bass)

05'	52.95'	30.01'	49.95'	S38°37'22"E	67°20'36"
276.23'	71.76'	36.08'	71.56'	S02°2[illegible]28"W	14°53'04"
691.48'	110.24'	55.24'	110.12'	S14°30'03"W	09°08'04"

3433B

Tony —
Survey of Lot off
of Walkers Ferry Rd.

662-9845 Hank



PLAT NORTH — P.B. 18, PG. 133 DATED: 8-24-77

LOT 22

LOT 23

LOT 25

AXSON LANE (60' ROAD R/W.)

LOT 21
N/F
HELEN J. CADIEU
D.B. 4043, PG. 616

LAKE WYLIE

DUKE POWER COMPANY
(MARGARET L. CLARK, ET AL.)
CAT-215, D.B. 601, PG. 326

MECKLENBURG COUNTY
D.B. 6202, PG. 189
CAT. DWG. 575

AREA = 4.172 ACRES
TAX ID. 113-183-14

P/L FOLLOWS DRCO PROJECT BOUNDARY (LAKE WYLIE)

(MARGARET L. CLARK, ET AL.)
CAT-215, D.B. 601, PG. 326
CAT-490, D.B. 3146, PG. 165

LOT 20
N/F
VESTER G. JORDON
D.B. 4034, PG. 173

(FORMERLY)
CRESCENT RESOURCES, INC.
SECTION 35 RECREATION LOTS
REF. DWG. LW-35-B
P.B. 18, PG. 133

PASCHALL ROAD (60' ROAD R/W.)

TO S.R. 1193

NORTH CAROLINA REGISTERED SEAL L-3323 LAND SURVEYOR WALTER K. DIXON

7/14/95

STATE OF NORTH CAROLINA
MECKLENBURG COUNTY

I certify that this map was drawn from an actual survey made under my supervision.
The unadjusted error of closure as calculated is 1: 10,000+
Boundaries not surveyed, if any, are noted. Deed descriptions are recorded in Book 3146, Page 165

Witness my hand and seal this 14 day of July, 1995

Registered Land Surveyor

NOTE: AREA BY COORDINATE COMPUTATION.

NOTE: FOR SOURCE OF TITLE REFER TO D.BK. 3146, PG. 165

NOTE: PROPERTY SUBJECT TO ANY VALID & ENFORCEABLE EASEMENTS, RESTRICTIONS & RIGHTS OF WAY OF RECORD.

CRESCENT RESOURCES INC.
P.O. BOX 1003
CHARLOTTE, N.C. 28201-1003

PROPERTY OWNED BY
CRESCENT RESOURCES, INC.
WYLIE DEVELOPMENT

BOUNDARY SURVEY OF PORTION OF

M. L. CLARK, ET AL. TR., CAT-215

BERRYHILL TOWNSHIP
MECKLENBURG COUNTY, N.C.

PROJECT NO.	7507
PARCEL NO.	46668
REQUEST NO.	30522
CRI ID. NO.	304200
E.C. = 1" :	10,000'+
900 L.F.PER. TIES	240'
DRAWN BY:	DLH
CREW:	J.R. HOBBS
DATE:	6-19-95
CHK BY:	WKD 7-13-95

LEGEND
LINES SURVEYED
LINES NOT SURVEYED
RETAIL POWER POLE
TIE LINES

MAP PREPARED BY:
DUKE POWER COMPANY
P.O. BOX 1007
CHARLOTTE N.C. 28201-1007

SCALE: 1" = 100'
BOOK NO. 2252

JUNE 19, 1995
REQUEST NO. 305.

100 50 0 100 200 300
SCALE IN FEET

Hank Higgins 372-2150 H 525-4149

TOTAL P.01