

19518 SUNNYPOINT CT

00109191

6/14/2007

duponbj

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

Mecklenburg County
Health Department

May 24, 1990

Crater Investments, Ltd
PO Box 309
Davidson, NC 28036

RE: Property located at 19518 Sunny Point Lane
FILE: 6418A
PARCEL: 001-091-03

Gentlemen:

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

Your plans for the modified system for the above property as submitted are approved with the following comments:

- The well should be located 100 feet or no less than 50 feet away from any part of the sewage disposal system and repair area.
- Water saving plumbing devices and low flush toilets should be installed when constructing the residence.
- Occupants to utilize maximum water conservation measures wherever possible.
- Effectively rake and lime all trench sidewalls
- Landscaping of repair area to be undisturbed. No grading, shaping, or altering in anyway.

Upon execution and recording with the Register of Deeds Office, Mecklenburg County, of the enclosed "Septic Tank Agreement Form", an Improvements Permit may be issued by this office.

Sincerely,

Gene Vaughan, R.S., Supervisor
On Premises Waste Disposal & Water Supply

GV/kat

Enclosures - 3 Septic Tank Agreement Forms

Environmental Health Division
1200 Blythe Boulevard • Charlotte, North Carolina 28203 • (704) 376-4603

Mecklenburg County
Health Department

April 11, 1990

Mr. Dwight Crater, Jr.
Crater Investments, Ltd.
P. O. Box 309
Davidson, N. C. 28036

Subject: 19518 Sunny Point Lane
Tax Parcel # 001-091-03 PO
File #6418A

Receipt of the plans and specifications for a modified system of sewage 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 conjuction with provisions of 10NCAC 10A; 1900. "Laws and Rules for Sanitary Sewage Collection., Treatment and Disposal". Our comments are listed below:

DESIGN SPECIFICATIONS AND CALCULATIONS MUST BE PROVIDED. PLEASE SEE ATTACHMENT.

For these reasons, the plans as submitted are disapproved. If you have any questions regarding these matters, please do not hesitate to contact me.

Sincerely,

Gene Vaughan, R.S., Supervisor
Individual Water & Wastewater Systems

Enclosure:

Environmental Health Division
1200 Blythe Boulevard • Charlotte, North Carolina 28203 • (704) 376-4603

APPLICATION FOR AN IMPROVEMENT PERMIT

HEALTH DEPARTMENT
ENVIRONMENTAL HEALTH DIVISION
1200 BLYTHE BOULEVARD
CHARLOTTE, NC 28203
PHONE (704) 376-4603

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

(OFFICE USE ONLY)
FILE: 6418A
TC: _____
SERIAL: Nº 20176 ☐ L ☐ CRT

JOB LOCATION

① ADDRESS: 9518 Sunny Point Lane (STREET NO. / STREET) ② FILE: 6418

③ JURISDICTION: _____ ④ TAX PARCEL NO.: 001-091-03 (Part of)

⑤ SUBDIVISION: Diane Shores (Part of) ⑥ LOT: 27 ⑦ BLOCK: _____

OWNER

⑧ NAME: Crater Investments, Ltd (FIRST / MIDDLE / LAST)

⑨ MAILING ADDRESS: PO Box 309

⑩ CITY: Davidson ⑪ STATE: N.C ⑫ ZIP: 28036

⑬ PHONE: (WORK) 892-5518 ⑭ (HOME) 892-9219

REQUEST

This request is for a(n):

⑮ ☑ New permit ⑰ ☐ Authorization for mobile home exchange

⑯ ☐ Repair or alteration permit ⑱ ☐ Other (specify) _____

DESIGN CRITERIA

System will serve:

⑲ ☑ Residence ⑳ ☐ Mobile home ㉑ ☐ Business or place of public assembly

㉒ Number of bedrooms? 3 ㉕ Type? _____

㉓ Maximum occupancy? _____ ㉖ Maximum number of employees? _____

㉔ Basement? ☐ yes ☐ no ㉗ Maximum number of seats? _____

WATER SUPPLY

㉘ Water supply from (present or proposed):

A ☑ Individual well

B ☐ Municipal system

C ☐ Community well

D ☐ Community system

㉙ The undersigned, 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: D. Crater Crater Jr

Date: 3-29-88

IMPROVEMENT PERMIT

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 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 permit is issued by this Department.

... This permit is not transferable, and shall become null and void 36 months from the date of issuance.

Environmentalist / Date

Director or Authorized Section Head / Date

*This permit must be signed by the Director of Mecklenburg County Health Department or an authorized section head in order to be valid.

3-28-90

6418 Meck

001-091-03p0

19518 Sunny point Ct

27

N/A

Wall ? Septic tank

Initial

- 2" PVC
- 5/32" Hole @ 5'
- 3x1' rock fill
- 2' pressure Head

line	length (ft)	Flow per Hole	# Holes	Flow per line
A	60	0.41 gpm	12	4.92 gpm
B	106	"	21	8.61
C	95	"	19	7.79
D	98	"	19	7.79
E	105	"	21	8.61
Tot	464 (ft)			Tot 37.72

Repair

T & J Panel.

- 1 5/32" Hole per Panel
- 2' pressure Head

line	length (ft)	Flow Per Hole	# Holes	# Panels	Flow per line
F	85	0.41 gpm	19	19	7.79
G	90	"	20	20	8.20
H	50	"	11	11	4.51
Tot	225'				

Pump requirements for initial system

Elevation → 12 ft

Friction Head 100' @ 37.72 gpm → 2.62 ft

Total Head → 14.62

Design Specifications

Daily Wate flow	360 gal
Septic Tank Size	1500 gal
Pumping Tank Size	1000 gal
Effluent loading Rate	.3 gal/ft²/day
Absorbtion area	1392 sq-ft
Total length laterals	464 ft
lateral diamete	2 inch
lateral Conf.	See chart
Supply line Length	100 ft
Supply line diameter	2 inch
Manifold Placement	end
Hole size	5/32 inch
Hole spacing	5 ft
Number Holes	92
Pressure Head	2 ft
Flow Per Hole	0.41 gpm
Total Flow	37.72 gpm
Elevation Head	12 ft
Friction Head (rounded to 40gpm)	2.62 ft
Total Head	14.62 ft
Pump requirment	37.72 gpm @ 14.62 ft
Storage Vol laterals (464ft)	90.01 gal
storage Vol supply line (100ft)	19.40 gal
Total storge	109.41 gal
Dosing Vol	450 gal
Dosing Depth	20.46 inch
Check Valve	yes

Mecklenburg County
Health Department

February 8th, 1990

Crater Investments, Ltd.
PO Box 309
Davidson, NC 28036

RE: Property located at Sunnypoint Ln.
FILE: 6418A
PARCEL: 00109103

Dear Sir:

At your request, a field investigation was conducted on the property designated above for the purpose of determining site suitability for the installation of a ground absorption sewage disposal system. The results of this investigation showed the property to be classified UNSUITABLE for the installation of such a system. A copy of the Site Evaluation Report (Serial Number 17541) is enclosed.

State regulations provide that sites originally classified unsuitable may be utilized for the installation of alternate or modified sewage disposal systems provided the requirements of 10 NCAC 10A .1948 (c) are met. A reprint of this section is enclosed for your information.

Should you desire to file for permission to install an alternate or modified sewage treatment system on the property, please submit an Application For An Improvement Permit with an ACCURATELY dimensioned plot plan detailing the location of current and/or proposed buildings, wells and sewage disposal systems to this office. They will be reviewed, and if it is determined that the proposed system may reasonably be expected to function satisfactorily, an Improvement Permit will be issued by the Department upon completion by you, of a formal request for lot reclassification.

If I may be of any assistance, please feel free to call.

Very truly yours,

Gene Vaughan, R.S., Supervisor
On Premises Waste Disposal & Water Supply

Enclosure (2)

Environmental Health Division
1200 Blythe Boulevard • Charlotte, North Carolina 28203 • (704) 376-4603

MECKLENBURG COUNTY HEALTH DEPARTMENT
SITE EVALUATION REPORT
SERIAL NUMBER 17541

File: 6418A
Parcel: 00109103

Action 2
☐ PC

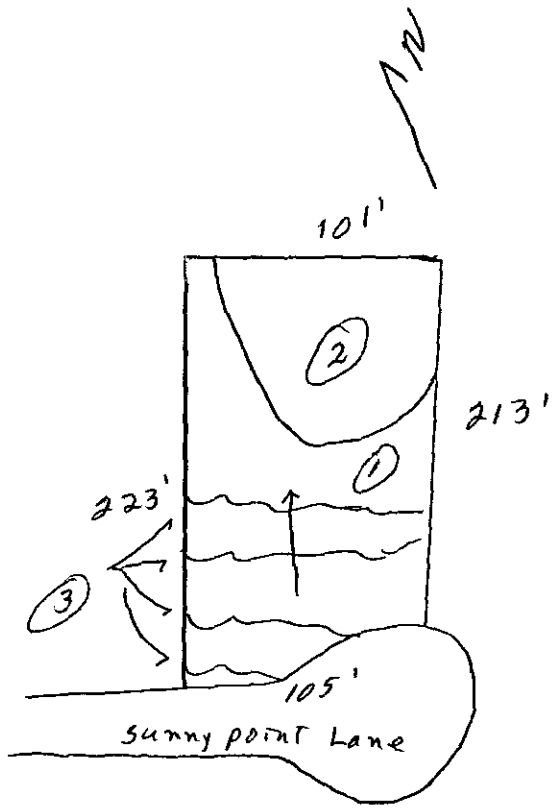
Location: Sunnypoint Ln.
Subdivision:

Lot: 27 Block: Acres: Approx .55

Owner:
Address: Crater Investments, Ltd.
PO Box 309
Davidson, NC 28036

Comments: Soils 7 36" in bottom of Terraces
100% Repair

Described by: William A. Marks
Date: 2-7-90



*** 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 2-10%	S PS (U) Depression	S PS (U) Old Terraces	S PS U	S PS U	S PS U
Texture	S (PS) U Clay	S PS U —	S PS U —	S PS U	S PS U	S PS U
Structure	S (PS) U Blocky	S PS U —	S PS U —	S PS U	S PS U	S PS U
Drainage	(S) ~~PS~~ U 7 48" to water	S PS U —	S PS U —	S PS U	S PS U	S PS U
Depth	(S) PS U 49"+	S PS U —	S PS U —	S PS U	S PS U	S PS U
Restrictive Horizons	(S) PS U 7 48"	S ~~PS~~ U	S PS U —	S PS U	S PS U	S PS U
Available Space	S (~~PS~~ U) Restricted	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	IV Cec-1-Ult	Depression	Old Terraces			
Area Classification	S PS (U)	S PS (U)	S PS (U)	S PS U	S PS U	S PS U

Thanks for Sixty Info. Please Complete Sketch of all Calculations as Required

DESIGN SPECIFICATIONS

27

Daily waste flow	360	Gal.
Septic tank size	1500	Gal.
Pumping tank size	1000	Gal.
Effluent loading rate	~~2.4~~ .3	Gal/ft²/day
Absorption area	1200 ~~1540~~	Ft.
Total length of laterals	400 ~~223~~ 200	Ft. 46.5 / (47 Panels)
Lateral diameter	1¼	In.
Lateral configuration	see chart	No. and length of lines attached drawing
Supply line length	50'	Ft.
Supply line diameter	2	In.
Manifold placement	end	
Hole size*	5/32	In. ✓
Hole spacing	5	Ft. ✓
Number of holes	~~64~~ 47	
Pressure head	2	Ft.
Flow per hole	.41	gpm
Total flow	19.27 ~~26.24~~	gpm
Elevation head	11 ~~20~~	Ft.
Friction head	.44 ~~2.470~~	Ft.
Pressure head	2	Ft.
Total head	~~12.7~~	Ft. 13.44
Pump requirements	(19.27 ~~26.24~~ gpm @ ft of head at ~~12.7~~ ft head)	
Storage volume in laterals	18 ~~81.90~~	Gal.
Storage volume in supply line	9.7 ✓	Gal.
Total storage volume	27.7 ~~81.97.7~~	Gal.
Dosing volume	99.7 ~~145.2~~	Gal.
Dosing depth	4.79 ~~5.23~~	In.
Check valve needed?	yes	

*NOTE: Data on hole size, spacing, pressure head and flow must be listed for each line for systems where lines are different (such as sloping lots).

Effluent Loading Rate for LPP Systems (.16) unless otherwise specified by this department

Suggest 20% Safety

23.12 gpm @ 13.44

Approx what you Have.

Amended with following corrections Rec'd.

$$\begin{array}{r} {\scriptstyle 4}\,{\scriptstyle 4}\,{\scriptstyle 8} \\ \times\ 6 \\ \hline 2880 \end{array}$$

1440

$$\begin{array}{r} {\scriptstyle 5}\,{\scriptstyle 5} \\ 273 \\ 273 \\ \hline \end{array}$$

$$\begin{array}{r} 546 \\ \times\ 2 \\ \hline 1092 \\ 7.5 \\ \hline 5460 \\ 7644 \\ \hline 81,900 \end{array}$$

19.4

9.7

ENBURG COUNTY HEALTH DEPARTMENT
EVALUATION REPORT
IAL NUMBER 17541

File: 6418A Action 2

Parcel: 00109103 ☐ PC

Location: Sunnypoint Ln.

Subdivision:

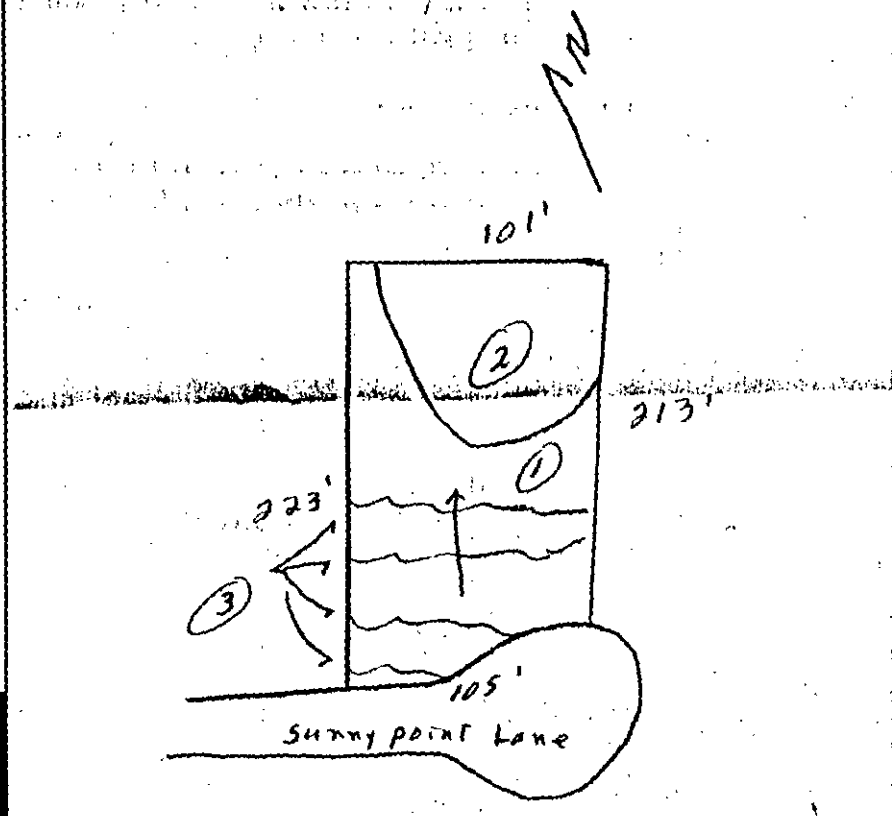
Lot: 27 Block: Acres: Approx .55

Owner:
Address: Crater Investments, Ltd.
PO Box 309
Davidson, NC 28036

Comments: Soils 7-36" to bottom of Terrace
with Rock

Described by: William A. Medlin

Date: 2-7-90



*** 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 2-10%	S PS (U) Depression	S PS (U) Old Terraces	S PS U	S PS U	S PS U
Texture	S (PS) U 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	(S) PS U 7-48" to water	S PS U	S PS U	S PS U	S PS U	S PS U
Depth	(S) PS U 48"+	S PS U	S PS U	S PS U	S PS U	S PS U
Restrictive Horizons	(S) PS U 7-48"	S PS U	S PS U	S PS U	S PS U	S PS U
Available Space	S (PS) U Restricted	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	IV Cecil-Like	Depression	Old Terraces			
Area Classification	S PS (U)	S PS (U)	S PS (U)	S PS U	S PS U	S PS U

PROPOSED PLOT PLAN

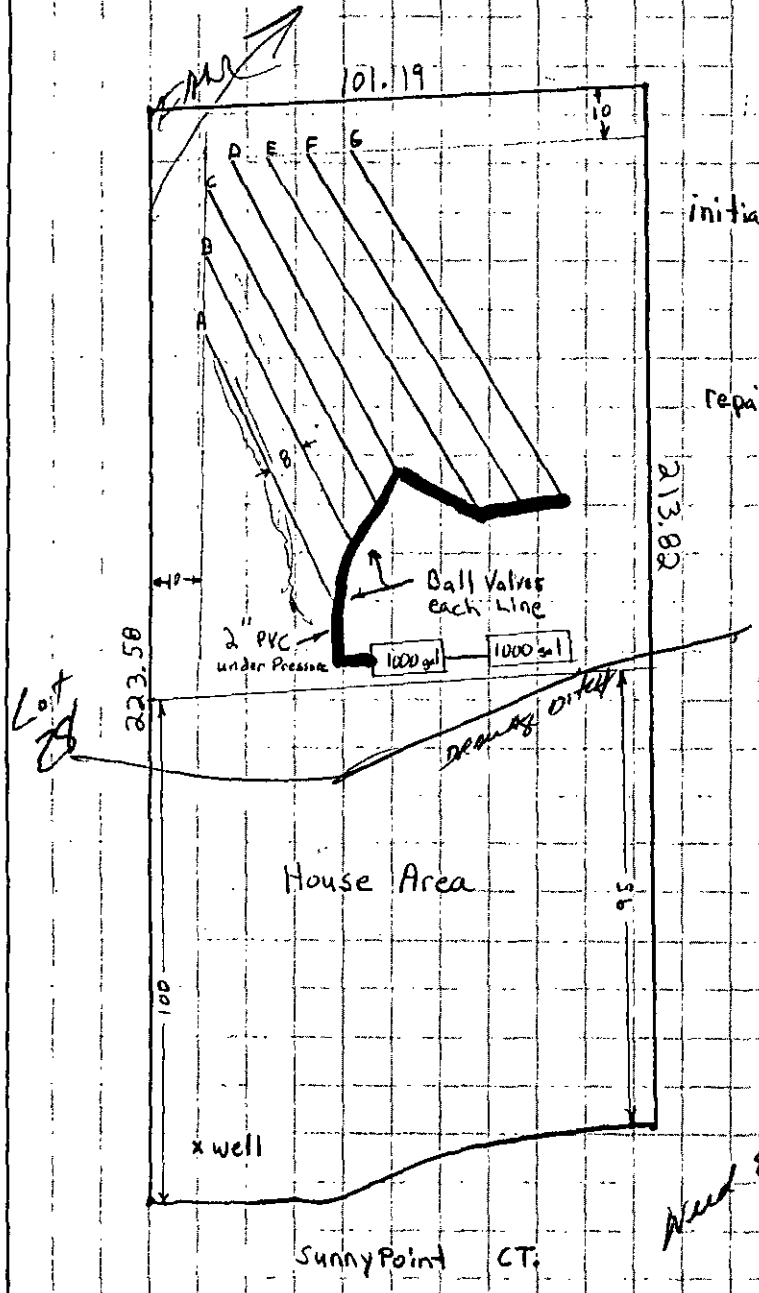
HEALTH DEPARTMENT
ENVIRONMENTAL HEALTH DIVISION
1200 BLYTHE BOULEVARD
CHARLOTTE, NC 28203
PHONE (704) 376-4603

FILE: 6418A

TC: 00109103

Lot 27

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.



	Line	Length	Totals	# Panels
initial	A	60		
	B	64	273	64
	C	72		
	D	77		
repair	E	85		
	F	85	255	59
	G	85		

Line will be T & J panels installed as per state regulations. The panels will be pressurized through 1¼" PVC with 5/32" hole in each Panel. Pressure head on each Panel will be 2'. Pump will be an HE 71A ¾ horse Liberty. Manhole will be accessible & wiring will be in a junction box mounted outside of Manhole.

Need elevation on lines

Scale 1:40
All Dimension in feet

Signed: _____

Date: _____

APPLICATION FOR SOIL INVESTIGATION

HEALTH DEPARTMENT
ENVIRONMENTAL HEALTH DIVISION
1200 BLYTHE BOULEVARD
CHARLOTTE, NC 28203
PHONE (704) 376-4603

(OFFICE USE ONLY)

See 6416A
6417A
6419A

FILE: 6418A

TC: _____

☐ PC ☐ REPT

JOB LOCATION

① ADDRESS: Lot 27 Sunnypoint Ln (Morrow Way)

② SUBDIVISION: Diane Shores ③ LOT: 27 ④ BLOCK: _____

⑤ PARCEL REFERENCE: BOOK NO.: 01 PAGE NO.: 091 PARCEL NO.: 03 PO

⑥ DEED REFERENCE: BOOK NO.: _____ PAGE NO.: _____

OWNER

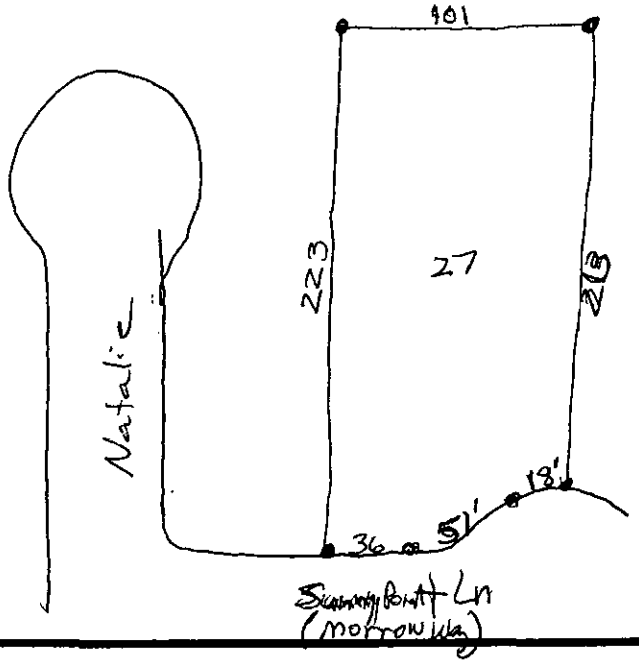
⑦ NAME: Crater Investments, Ltd
(FIRST) (MIDDLE) (LAST)

⑧ MAILING ADDRESS: PO Box 309

⑨ CITY: Davidson ⑩ STATE: NC ⑪ ZIP: 28036

⑫ PHONE: (WORK) 892-5518, 892-9219 (HOME) _____

⑬ Accurately diagram and dimension lot.



⑭ The undersigned, 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: _____

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

Date: 1/3/90

WHITE - HEALTH DEPARTMENT'S COPY • CANARY - ENVIRONMENTALIST'S COPY • PINK - OWNER'S COPY

Lot 27 Technichal Imformation

only 1 hole/line?

Line	#. Panels	Flow Per Panel	Flow Per Line	Dose Per Panel	Dose Per Line
A	14	0.41 gpm	5.74 gpm	1.8 gal	25.20 gal
B	15	0.41	6.15	1.8	27.00
C	17	0.41	6.97	1.8	30.60
D	18	0.41	7.38	1.8	32.40
Totals	64		Tot Flow 26.24 gpm		Dose Vol 115.20 gal

initial system

Friction Head 1.70 ft

Elevation Head ~~Apprx~~ 11 ft

Total Head 12.7 ft

Total Flow 26.24 gpm

Dose 115.20 gal

One ~~Hole~~ per Panel

@ 22 gal/in (1000 gal Tank) set Float Range 5.23 in

* Check Valve eliminates need for supply line Volume use.

As Per State codes T & J panels are equivalent to 0.5 x standard amount needed, Therefor 273 ft of initial system should be equal to 546 ft of standard line. This 273 ft of T & J Panels should be sufficient for a 3 bdrm house.

Re Design Spec Sheet

Gene,

We checked the elevations on all lines on lot 27. All lines are within 4" of being exactly on grade. The elevations are listed below.

Assume beginning of line A is at elevation 100'.

Line	elev.	varies
A →	100'	→ (+)(-) 1"
B →	99' 7½"	→ (+)(-) 3"
C →	98' 10"	→ (+)(-) 4"
D →	98' 5"	→ Level
E →	98' 3"	→ (+)(-) 3"
F →	98' 00"	→ (+)(-) 3"
G →	97' 9½"	→ (+)(-) 1"

Depending on exact elevation of tanks, the pump has at least 3' of extra head figured.