

# Application for a Sewage Disposal System Construction Permit

Commonwealth of Virginia  
Department of Health

For Department Use Only

Health Department  
Identification Number 83-180-0180  
Map Reference G-24

Roanoke County

Health Department

Date Received 06-21-83 pda

## To Be Completed By The Applicant

Type sewage system:  New  Repair  Expanded  Conditional  
FHA/VA yes  no

Owner W. C. CRANWELL Address 934 COMMADEN DR. Phone 362-1273  
ROANOKE, VA.

Agent TOWNSIDE CONSTR. CO., INC. Address 4309 OLD CAVE SPR. RD. Phone 774-0264  
John Smith 389-6936 ROANOKE, VA.

Directions to Property END OF COMMADEN DR. OFF WILCOXON RD.

Subdivision \_\_\_\_\_ Section \_\_\_\_\_ Block \_\_\_\_\_ Lot \_\_\_\_\_

Other Property Identification \_\_\_\_\_

Dimensions/size of Lot/Property 10 Acres

## Other Application Information

I. Building/facility  New  Existing  
Intermittent Use  Yes  No If yes, describe: \_\_\_\_\_

II. Residential Use  Yes  No  
Termite Treatment  Yes  No  
Basement  Single Family  Multifamily Number of Units \_\_\_\_\_ Number of Bedrooms \_\_\_\_\_  
Fixtures in Basement  Yes  No  
 Yes  No

III. Commercial Use  Yes  No Describe: \_\_\_\_\_

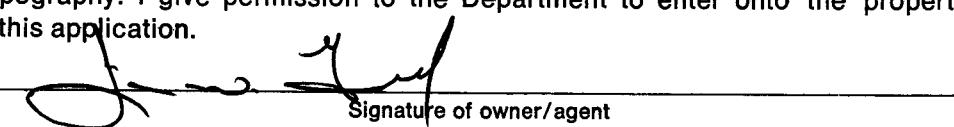
Commercial/Wastewater  Yes  No Number of Patrons \_\_\_\_\_ Number of Employees \_\_\_\_\_  
If yes, give volumes and describe \_\_\_\_\_

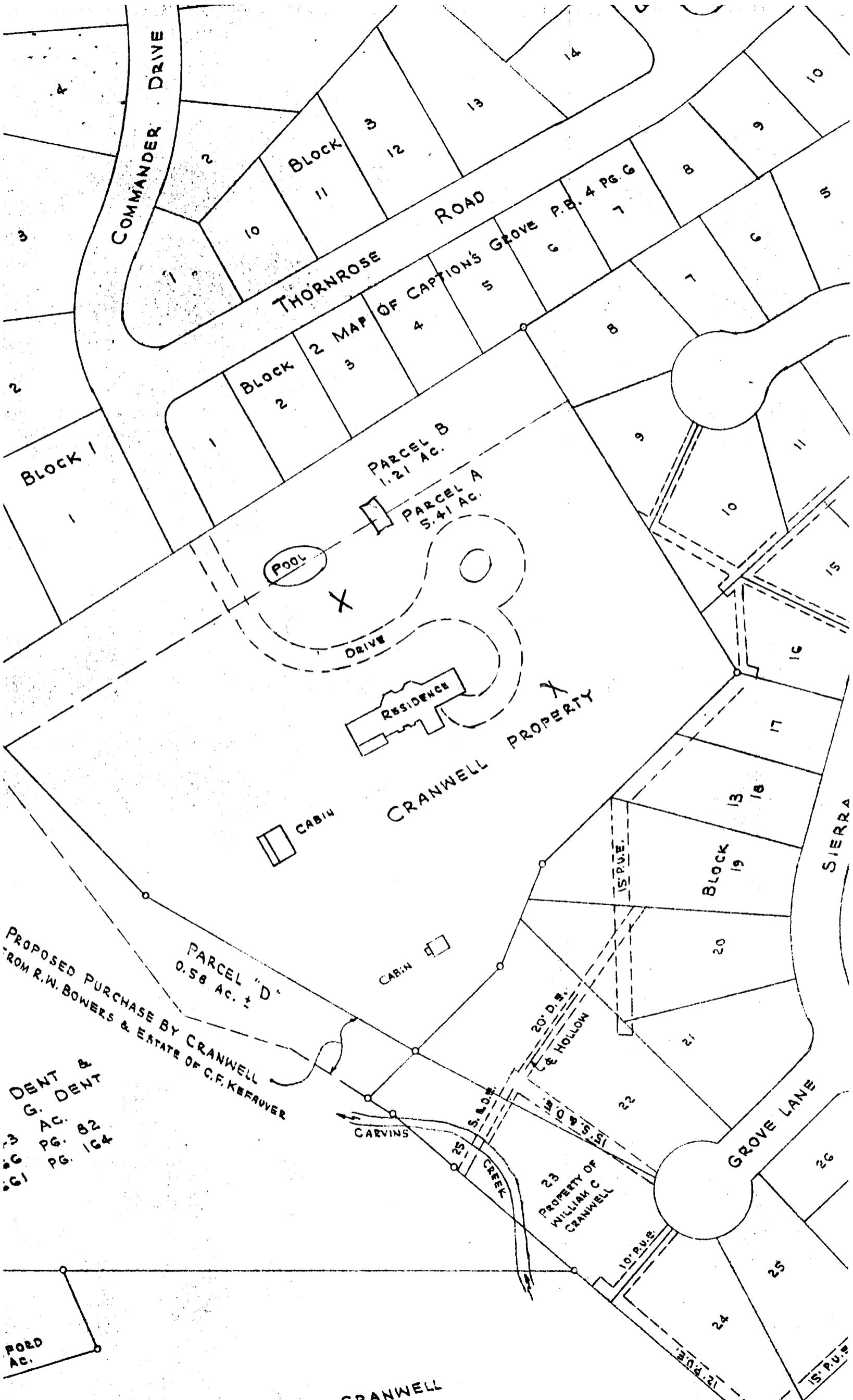
IV. Water Supply:  Public  New Describe: \_\_\_\_\_  
 Private  Existing \_\_\_\_\_

V. Proposed Installation:  Septic tank and drainfield  Other  
If other, describe REPAIR EXISTING & INSTALL NEW SYSTEM

SITE Attach a site plan (rough sketch) showing dimensions of property, proposed and/or existing structures and  
PLAN driveways, underground utilities, adjacent soil absorption systems, bodies of water, drainage ways, and wells  
and springs within 200 feet radius of the center of the proposed building or drainfield. Distances may be paced  
or estimated.

The property lines and building location are clearly marked and the property is sufficiently visible to see the topography. I give permission to the Department to enter onto the property described for the purpose of processing this application.

  
Signature of owner/agent





# County of Roanoke

DEPARTMENT OF PUBLIC FACILITIES  
ENGINEERING DIVISION

RAYMOND E. ROBERTSON, P.E., C.L.S.  
DIRECTOR

July 5, 1983

Mr. David Taylor, Sanitarian  
Roanoke County Health Department  
126 E. Lee Avenue  
Vinton, Virginia 24179

Re: Septic tank permit  
934 Commander Drive

Dear Dave:

Please be advised that it is not required that the existing house of William Cranwell located at 934 Commander Drive connect to the public sanitary sewer system. A septic tank installation permit may be issued to correct the problem with the existing septic system.

If you have any questions, please contact our office.

Sincerely,

R. E. Robertson, P.E., C.L.S.  
Director of Engineering  
By

Michael S. Webb, P.E.

MSW:sbo

# Soil Evaluation Form

for Repair

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Commonwealth of Virginia  
Department of Health

Health Department  
Identification Number 83-180-0180  
Tax Map Number 6-24

## General Information

Date 7/1/83

Roanoke County Health Department

Applicant TOWNSIDE CONST. COMPANY Telephone No. 774-0724

Address 4709 old Cave Spring Drive Rte, Va

Owner W.C. Cranwell Address 939 commander drive Rte, Va  
29019

Location end of commander drive follow driveway to house

Subdivision Boxley Hills Block/Section \_\_\_\_\_ Lot \_\_\_\_\_

## Soil Information Summary

1. Position in landscape satisfactory Yes  No  Describe low area just below tank.

2. Slope 10-15 %

3. Depth to rock/impervious strata Max. \_\_\_\_\_ Min. \_\_\_\_\_ None

4. Depth to seasonal water table (gray mottling or gray color) No  Yes  \_\_\_\_\_ inches

5. Free water present No  Yes  \_\_\_\_\_ range in inches

6. Soil percolation rate estimated Yes  Texture group I II  IV  
No  Estimated rate 50 min/ inch

7. Percolation test performed Yes  Number of percolation test holes \_\_\_\_\_  
No  Depth of percolation test holes N/A  
Average percolation rate \_\_\_\_\_

Name and title of evaluator: David Taylor Sanitarian

Signature: David Taylor

## Department Use

Site Approved: Drainfield to be placed at 36-42' depth at site designated on permit.

Site Disapproved:

### Reasons for rejection:

- Position in landscape subject to flooding or periodic saturation.
- Insufficient depth of suitable soil over hard rock.
- Insufficient depth of suitable soil to seasonal water table.
- Rates of absorption too slow.
- Insufficient area of acceptable soil for required drainfield, and/or Reserve Area.
- Proposed system too close to well.
- Other Specify \_\_\_\_\_

Date of Evaluation

8/1/83

Profile Description  
**SOIL EVALUATION REPORT**

## Health Department

Identification No. 83-180-0180

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Where the local health department conducts the soil evaluation the location of profile holes may be shown on the schematic drawing on the construction permit or the sketch submitted with the application. If soil evaluations are conducted by a private soil scientist, location of profile holes and sketch of the area investigated including all structural features i.e., sewage disposal systems, wells, etc., within 100 feet of site (See Section 4) and reserve site shall be shown on the reverse side of this page or prepared on a separate page and attached to this form.

See application sketch

See construction permit

See sketch on reverse side or page attached to this form.

Hole #	Horizon	Depth (inches)	Description of, color, texture, etc.	Texture Group
1	A B	0--12 12-24 24-60	clay FILL sandy clay loam clay loam	4 2 3
2	A B	0-7 7-24 24-60	loam sandy clay loam clay loam	2 2 3
3	A B	0-6 6-60	loam clay loam	2 3

**Remarks:**

IN COOPERATION WITH THE  
STATE DEPARTMENT OF ENVIRONMENT

July 5, 1983

W. C. Cranwell  
934 Commander Drive  
Roanoke, Virginia 24012

Dear Mr. Cranwell:

Enclosed is a copy of your construction permit and other pertinent data in reference to your application for a sewage disposal system identification number 83-180-0180.

At this time you may begin construction of this system, which has to comply with all requirements on the enclosed permit.

If you feel any changes are necessary, please contact your local health department.

Sincerely,

David Taylor  
Sanitarian

In

cc: Building Inspector

COMMONWEALTH of VIRGINIA

In cooperation with the  
State Department of Health

Roanoke County - Salem Health Department

510 COLLEGE AVENUE  
SALEM, VIRGINIA 24153

August 15, 1983

W. C. Cranwell  
934 Commander Drive  
Roanoke, Virginia 24012

Dear Mr. Cranwell:

Enclosed you will find the operation permit for your sewage  
disposal system and other data relating to your application  
# 83-180-0180.

If this office can be of any further assistance to you, please  
do not hesitate to call.

Sincerely,

David Taylor  
Sanitarian

pa

cc: Building Inspector

# Sewage Disposal System Construction Permit

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Commonwealth of Virginia  
Department of Health

*Roanoke County*  
Health Department



Health Department  
Identification Number 83-180-0180  
Map Reference G-24

## General Information

New  Repair  Expanded  Conditional  FHA  VA  Case No. \_\_\_\_\_

Based on the application for a sewage disposal system construction permit filed in accordance with Section 3.13.01, a construction permit is hereby issued to:

Owner W. C. Cranwell Telephone 362-1273

Address 939 Commander drive Roanoke, Va

For a Type I Sewage disposal system which is to be constructed on/at Commander drive off Wmson Rd to end of road

Subdivision Borley Hills Section/Block \_\_\_\_\_ Lot \_\_\_\_\_

Actual or estimated water use 1050

### DESIGN

Water supply, existing: (describe) Public

To be installed: class \_\_\_\_\_  
cased \_\_\_\_\_ grouted \_\_\_\_\_

Building sewer:  
EXISTING I.D. PVC 40, or equivalent.  
Slope 1.25" per 10' (minimum).  
 Other \_\_\_\_\_

Septic tank: Capacity EXISTING gals. (minimum).  
 Other Added 1500 gal tank

Inlet-outlet structure:  
PVC 40, 4" tees or equivalent.  
 Other \_\_\_\_\_

Pump and pump station:  
No  Yes  describe and shown design.  
if yes: \_\_\_\_\_

Gravity mains: 3" or larger I.D., minimum 6" fall per 100', 1500 lb. crush strength or equivalent.  
 Other \_\_\_\_\_

Distribution box: 3 boxes needed  
Precast concrete with 10 ports.  
 Other \_\_\_\_\_

Header lines:  
Material: 4" I.D. 1500 lb. crush strength plastic or equivalent from distribution box to 2' into absorption trench.  
Slope 2" minimum.  
 Other \_\_\_\_\_

Percolation lines:  
Gravity 4" plastic 1000 lb. per foot bearing load or equivalent, slope 2" 4" (min. max.) per 100'.  
 Other \_\_\_\_\_

Absorption trenches:  
Square ft. required 2160; depth from ground surface to bottom of trench 36-42"; aggregate size 3-1/2 in.  
Trench bottom slope 2-4 1/4/100 FT.  
center to center spacing 9 FT.; trench width 3 FT.

### NOTE: INSPECTION RESULTS

Water supply location: yes  no  comments  
Satisfactory

Public

Building sewer: yes  no  comments  
Satisfactory

Existing

Pretreatment unit: yes  no  comments  
Satisfactory

Inlet-outlet structure: yes  no  comments  
Satisfactory

Pump & pump station: yes  no  comments  
Satisfactory

N/A

Conveyance method: yes  no  comments  
Satisfactory

4 in. installed

Distribution box: yes  no  comments  
Satisfactory

Header lines: yes  no  comments  
Satisfactory

Percolation lines: yes  no  comments  
Satisfactory

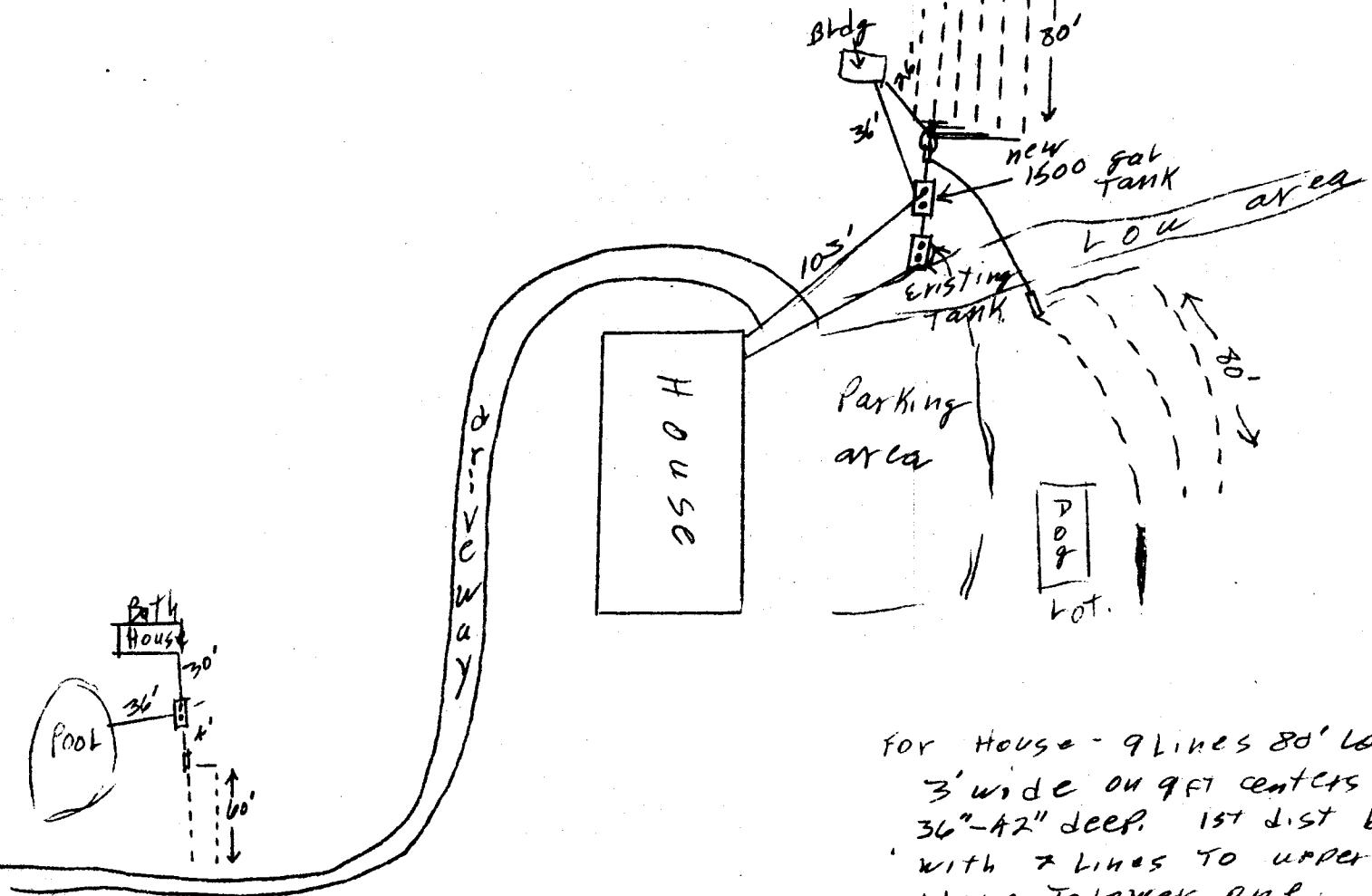
Absorption trenches: yes  no  comments  
Satisfactory

Date 8/9/83 Inspected and approved by:  
Harold Taylor  
Sanitarian

## **Schematic drawing of sewage disposal system and topographic features.**

Show the lot lines of the building lot and building site, sketch of property showing any topographic features which may impact on the design of the system, all existing and/or proposed structures including sewage disposal systems and wells within 100 feet of sewage disposal system and reserve area. The schematic drawing of the sewage disposal system shall show sewer lines, pretreatment unit, pump station, conveyance system, and subsurface soil absorption system, reserve area, etc. When a nonpublic drinking water supply is to be located on the same lot show all sources of pollution within 100 feet.

The information required above has been drawn on the attached copy of the sketch submitted with the application.  
Attach additional sheets as necessary to illustrate the design.



FOR HOUSE - 9 LINES 80' LONG  
3' wide on 9 ft centers  
36"-42" deep. 1st list box  
with 7 lines to upper system  
1 line to lower one.

- For Pool - 1000 gal tank  
and 260 ft lines 36 in. deep.

The sewage disposal system is to be constructed as specified by the permit  or attached plans and specifications  .

This sewage disposal system construction permit is null and void if (a) conditions are changed from those shown on the application (b) conditions are changed from those shown on the construction permit. If construction has not commenced within 12 months of date of issuance, the construction permit must be revalidated.

No part of any installation shall be covered or used until inspected, corrections made if necessary, and approved, by the local health department or unless expressly authorized by the local health dept. Any part of any installation which has been covered prior to approval shall be uncovered, if necessary, upon the direction of the Department.

Date: 8/9/83 Issued by:

Dave Taylor  
Sanitarian

## Sanitarian

Date: \_\_\_\_\_ Reviewed by: \_\_\_\_\_ Redrawn by: \_\_\_\_\_

### **Supervisory Sanitarian**

### If FHA or VA financing

Reviewed by Date \_\_\_\_\_

**Date** \_\_\_\_\_

### **Supervisory Sanitarian**

## Regional Sanitarian

## Schematic drawing of sewage disposal system and topographic features.

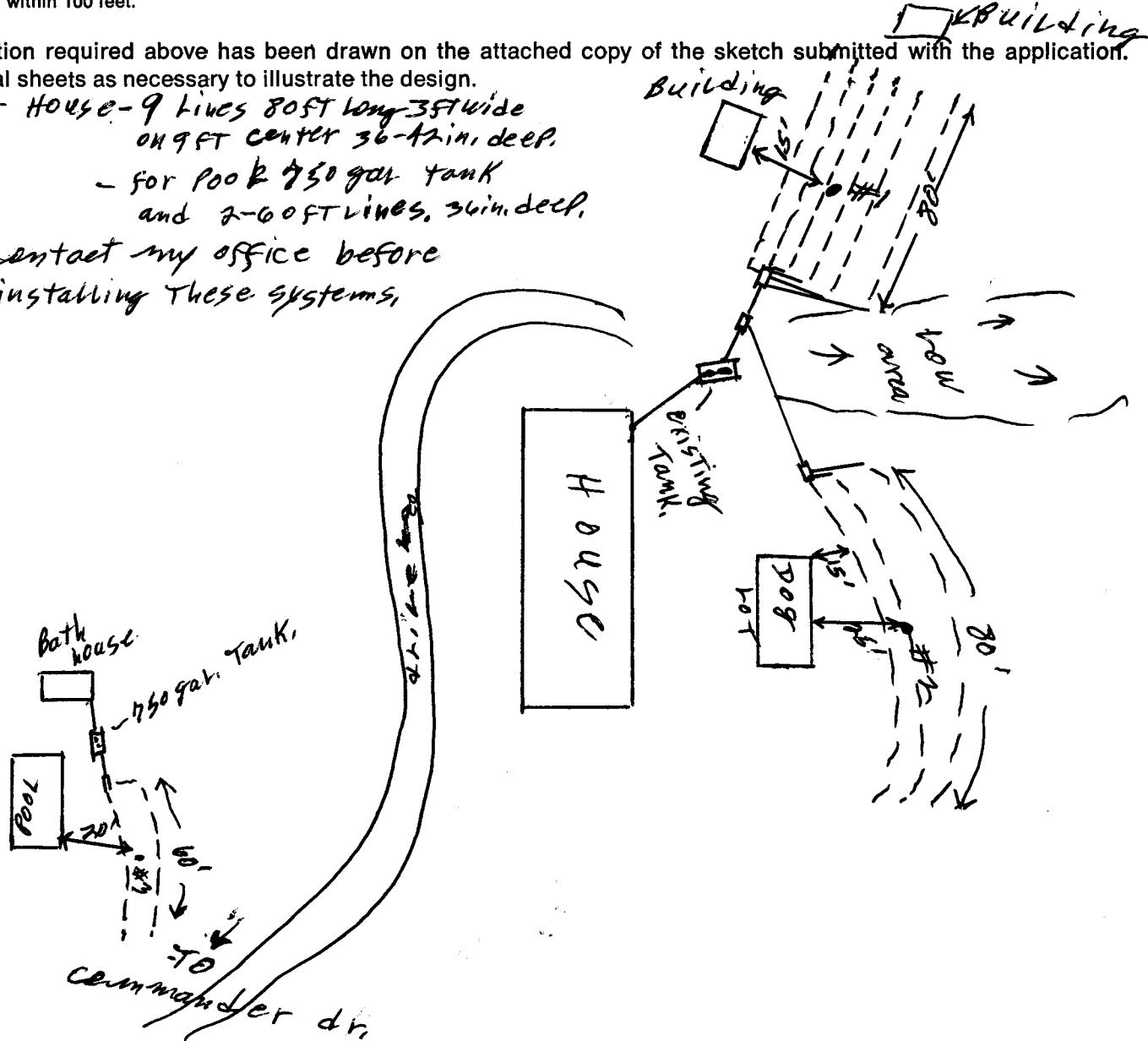
PAGE 2 OF 2

Show the lot lines of the building lot and building site, sketch of property showing any topographic features which may impact on the design of the system, all existing and/or proposed structures including sewage disposal systems and wells within 100 feet of sewage disposal system and reserve area. The schematic drawing of the sewage disposal system shall show sewer lines, pretreatment unit, pump station, conveyance system, and subsurface soil absorption system, reserve area, etc. When a nonpublic drinking water supply is to be located on the same lot show all sources of pollution within 100 feet.

The information required above has been drawn on the attached copy of the sketch submitted with the application.  
Attach additional sheets as necessary to illustrate the design.

FOR House-9 Lives 80ft long 35ft wide  
on 9ft center 36-42in. deep.  
- for pool & 750 gal. tank  
and 2-60 ft lines, 36in. deep.

contact my office before  
installing these systems,



The sewage disposal system is to be constructed as specified by the permit  or attached plans and specifications .

This sewage disposal system construction permit is null and void if (a) conditions are changed from those shown on the application (b) conditions are changed from those shown on the construction permit. If construction has not commenced within 12 months of date of issuance, the construction permit must be revalidated.

No part of any installation shall be covered or used until inspected, corrections made if necessary, and approved, by the local health department or unless expressly authorized by the local health dept. Any part of any installation which has been covered prior to approval shall be uncovered, if necessary, upon the direction of the Department.

Date: 7/1/83 Issued by: David Taylor

Sanitarian

Date: 7-1-83 Reviewed by: A.M. Olsen

Supervisory Sanitarian

If FHA or VA financing

Reviewed by Date \_\_\_\_\_

Supervisory Sanitarian

Date \_\_\_\_\_

Regional Sanitarian

# Completion Statement

Commonwealth of Virginia  
State Department of Health

Health Department  
Identification Number

83-180-0180

Roanoke County Health Department

Name of Company/Corporation/Individual: W. C. CRANWELL

Address: 939 Commander Drive Telephone: 362-1243

Owner's Name H. M. Oberhain, Jr. and C. T. Cranwell

Owner's Address Galax, Va

Location of Installation: Lot \_\_\_\_\_ Block \_\_\_\_\_

Section: \_\_\_\_\_ Subdivision: \_\_\_\_\_

Other: End of Commander Drive off Winston Rd.

I hereby certify that the onsite sewage disposal system has been installed and completed in accordance with the construction permit issued (date) 3/1/83 and is in compliance with Part D of the Sewage Handling and Disposal Regulations and when appropriate the plans and specifications for the project.

8/9/83

Date

H. M. Oberhain

Signature and Title

# Sewage Disposal System Operation Permit

Commonwealth of Virginia  
Department of Health

Tax Map No. N/A

Health Department  
Identification No. 83-180-0180  
Roanoke County Health Department



W. C. Cranwell

is Hereby Granted Permission  
to Operate a (Type) I Sewage Disposal System Having a Design Capacity of 1050 gpd, at  
Commander Drive off Williamson Road to end of road

SUBDIVISION	SECTION/BLOCK	LOT
<u>N/A</u>	<u>N/A</u>	<u>N/A</u>

This permit is Issued in Accordance with the Provisions of 32.1, Chapter 6 of the Code of Virginia as Amended and Section(s)  
3.13 of the Sewage Handling and Disposal Regulations of the Virginia Department of Health and

with Previously Issued permits

N/A Dated N/A

with the understanding that the Owner and/or any Subsequent Owner will operate the Sewage Disposal System in Accordance with the Sewage Handling and Disposal Regulations of the Virginia Department of Health and any Variances or Conditions Granted. Issuance of an Operating Permit does not imply or Guarantee that the Sewage Disposal System will Function for any Specified Period of Time.

## VARIANCES GRANTED

**NONE**  SEE ATTACHED

August 9, 1983

Effective Date

## SPECIAL CONDITIONS

**NONE**  SEE ATTACHED

Recommended (Sanitarian)



Approved (State Health Commissioner)

