

TO DEPT. OF PUBLIC WORKS ENVIRONMENTAL SERVICES - (DPWE)
RESIDENTIAL INSPECTIONS BRANCH - (OBGS)

FILE UNDER

FROM: HEALTH DEPARTMENT/ENVIRONMENTAL SERVICES SECTION

RE: NOTIFICATION OF ISSUANCE OF SEPTIC TANK PERMIT AND/OR WELL PERMI

DATE: 02/16/2007

OWNER'S NAME: RAJA TARIG

BUILDING APPLICATION NUMBER:

SUBDIVISION: SENECA FARMS SEC: 2 BLOCK: LOT 14

TAX MAP IDENTIFICATION: 2-2-002-14

PROPERTY ADDRESS: 229 SENECA ROAD, GREAT FALLS, VA 22066

HEALTH DEPARTMENT PERMIT#: 129 - 06 - 1170

PERMIT ISSUED FOR: ☒ SEWAGE DISPOSAL ☒ WELL ☐ OTHER

TO SERVE: ☒ RESIDENTIAL ☐ COMMERCIAL

☐ OTHER - DESCRIBE

SPECIAL HANDLING

SEWAGE DISPOSAL SYSTEM DESIGNED FOR SIX BEDROOMS OR 900 GPD
(ALL PERMITS FOR DWELLING ARE DESIGNED TO INCLUDE AUTOMATIC WASHER AND GARBAGE DISPOSAL)

REMARKS: PURAFLO

THE ABOVE TO BE FAXED TO PERMITS DIVISION (OBGS) AND ORIGINAL TO BE ATTACHED WITH PERMIT.

NOTIFICATION OF FINAL APPROVA

SEWAGE DISPOSAL SYSTEM

APPROVED: 9-17-2007

WATER SUPPLY SYSTEM

APPROVED 12-20-2007

SIGNATURE:

Mark A. Smith

UPON FINAL APPROVAL, ONE COPY TO BE FAXED TO RESIDENTIAL INSPECTIONS BRANCH, ORIGINAL TO BE ATTACHED ON TOP OF FILE

NUMBER OF BEDROOMS AT FINAL INSPECTION: 5

STICKER PLACED: well INITIALS: *JS*

**FDV (CHECK ONE) ☒ YES ☐ NO

ENTERED
Bohler

FAIRFAX COUNTY HEALTH DEPARTMENT
DIVISION OF ENVIRONMENTAL HEALTH

HD Number:
129-06-1170

Date of Issue: 12/17/07

Sewage Disposal System Operation Permit

MAMOOD, RAJA, TARIG

229 SENECA ROAD

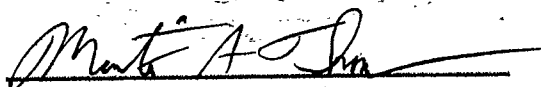
GREAT FALLS VA 22068

002-2/0002/0000/0014

The above operator has made an application and in accordance with the regulations of the Board of Health of the Commonwealth of Virginia is authorized by the Fairfax County Health Department to operate an Individual Onsite Sewage Disposal System with an actual or estimated water use of 900 GPD for a 6 bedroom dwelling.



Environmental Health
Specialist



Environmental Health
Supervisor



Gloria Addo Ayensu, M.D., MPH
Health Director

Completion Statement

Commonwealth of Virginia
State Department of Health

Health Department
Identification Number

129-06-1170

Effingham County Health Department

Name of Company/Corporation/Individual: Great Falls Septic / Holt + Sons

Address: 34176 Charleston Pike Telephone: _____

Owner's Name Raja Faris Mahmood

Owner's Address 229 Sewech Rd, Great Falls

Location of Installation: Lot 14 Block _____

Section: 2 Subdivision: SENECA Farms

Other: _____

I hereby certify that the onsite sewage disposal system has been installed and completed in accordance with the construction permit issued (date) willmet 7-09-07 and is in compliance with Part D of the Sewage Handling and Disposal Regulations and when appropriate the plans and specifications for the project.

9-14-07

Date

[Signature]

Signature and Title

F.D.V. D.H.

Water Supply and/or Sewage Disposal System Construction Permit

Commonwealth of Virginia
Department of Health

FAIRFAX COUNTY

Health Department

Health Department
Identification Number
Map Reference

128-08-1170

002-2/0002/0000/0014

General Information

Water Supply System: New ☐ Repair ☐ Public ☐ FHA ☐ VA ☐ Case No. ☐
Sewage Disposal System: New ☐ Repair ☐ Expanded ☐ Conditional ☐ Public ☐
Based on the application for a sewage disposal system construction permit filed in accordance with Section 2.13 E, of the Sewage Handling and Disposal Regulations and/or Section 2.13 of the Private Well Regulations a construction permit is hereby issued to:
Owner MAHMOUD RAJA TARIG Telephone ☐
Address 229 SENECA ROAD GREAT FALLS VA 22066 For a Type II Sewage Disposal System or Well to be constructed on/at 229 SENECA ROAD
Subdivision SENECA FARMS Section/Block 2 Lot 14 Actual or estimated water use 6 BR 900 gpd

DESIGN

NOTE: SEWAGE DISPOSAL SYSTEM INSPECTION RESULTS

Water supply, existing: (describe) Existing IIRB to be abd (129-06-0877); NEW IIRB (129-06-0877)
To be installed: class ☐
cased N/A grouted N/A

Water supply location: Satisfactory yes ☒ no ☐
comments
Completion Report
G. W. 2 Received: yes ☒ no ☐ not applicable ☐

Building sewer: 4" I.D. PVC Schedule 40, or equivalent.
Slope 1.25" per 10' (minimum).
☐ Other

Building sewer: yes ☒ no ☐ comments
Satisfactory Connected

Septic tank: Capacity 2700 gals. (minimum).
☐ Other

Pretreatment unit: yes ☒ no ☐ comments
Satisfactory Hanover MNE 3000 GPM M7

Inlet-outlet structure:
PVC Schedule 40, 4" tees or equivalent.
☐ Other

Inlet-outlet structure: yes ☒ no ☐ comments
Satisfactory Filter: Zeller 5000

Pump and pump station: Flow Equalization Required
No ☐ Yes ☒ describe and show design.
if yes: per approved pump plans 1/10/07

Pump & pump station: yes ☒ no ☐ comments
Satisfactory Hanover MNE 3000 GPM

Gravity mains: 3" or larger I.D., minimum 6" fall per 100', 1500 lb. crush strength or equivalent.
☐ Other Flow Diversion Valve

Conveyance method: yes ☒ no ☐ comments
Satisfactory Bull Run Type 1 SETTING

Distribution box:
Precast concrete with 6" ports.
☐ Other 2 Distribution Boxes

Distribution box: yes ☒ no ☐ comments
Satisfactory TUNK TIK TYPE DAFS DAFS

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

Header lines: yes ☒ no ☐ comments
Satisfactory

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

Percolation lines: yes ☒ no ☐ comments
Satisfactory

Absorption trenches:
Square ft. required 1152; depth from ground surface to bottom of trench 50"; aggregate size 1/2" - 1 1/2"; Trench bottom slope 2" to 4" per 100'; center to center spacing 6'; trench width 2'; Depth of aggregate 30"; 22" under pipe
Trench length 72'; Number of trenches 8

Absorption trenches: yes ☒ no ☐ comments
Satisfactory
13 MPI @ 50"
FG: 20"

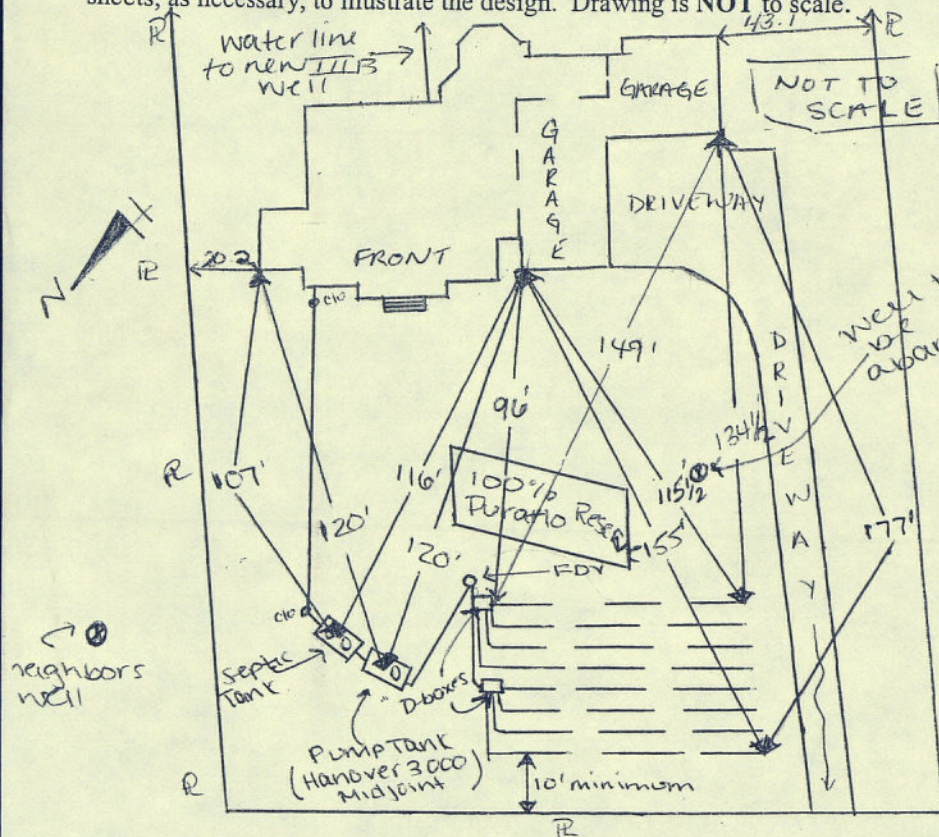
Date 9-14-07 Inspected and approved by:

John M. Meltzer Sanitarian 9-17-2007

Schematic drawing of sewage disposal and/or water system and topographic features.

Show the lot lines of the building site, sketch of property showing any topographic features which may impact the design of the well or sewage disposal system, including existing and/or proposed structures and sewage disposal systems and wells within 200 feet. The schematic drawing of the well site or area and/or sewage disposal system shall show sewer lines, pretreatment unit, pump station, conveyance system, and subsurface soil absorption system, reserve area, etc. When a non-public drinking water supply is to be permitted, show all sources of pollution within 200 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. Drawing is **NOT** to scale.



- ↓ ↓ READ ↓ ↓
1. Grade per site approved by this office.
 2. Install system as shown; a minimum of 10' from trees, property lines, and utility lines.
 3. Maximum backfill over system is not to exceed 20".
 4. It is the contractor's responsibility to meet all OSHA regulations relating to deep excavations.
 5. House sewer line must be inspected by this department to a point 3' from the dwelling.
 6. Flow Diversion Valve (FDV) key must be provided to owner prior to occupancy.
 7. **UPON COMPLETION OF FINAL GRADING AND WELL, (if applicable), CALL THIS OFFICE AT (703) 246-2201 FOR FINAL INSPECTION(S) A MINIMUM OF 30 DAYS PRIOR TO REQUEST FOR RESIDENTIAL USE PERMIT.**
 8. Install system in accordance with all applicable State Regulations and County Code.
 9. Install an access manhole on the outlet port of the septic tank for inspection and sludge removal. The manhole must have a removable watertight and airtight cover installed. It should be flush with or above the ground surface and marked sewer.
 10. Chapter 68.1 of the Fairfax County Code requires pumping of the septic tank once every five years. The owner of the property is required to provide written notification and proof to this department each time the tank is pumped.
 11. Do not install system during periods of wet weather and/or rain events.

This sewage disposal system and/or water supply is to be constructed as specified by the permit ☒ or attached plans and specifications ☒.

This sewage disposal system and/or well 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 (c) conditions are changed on the drainfield use.

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 department. Any part of any installation which has been covered prior to approval shall be uncovered, if necessary, upon the direction of the Health Department.

Date: 07/09/07

Issued by:

Hanna Willmertz
Environmental Health Specialist

Date: 7/9/2007

Reviewed by:

John M. Mely
Environmental Health SupervisorThis Construction
Permit Valid until

07/09/09

County of Fairfax, Commonwealth of Virginia.

The foregoing instrument was acknowledged before me this

9 day of July, 2007, by

HANNA WILLMERTZ, 504 NW Milg.

(Name of person seeking acknowledgement)

Zorosa & Cleveland

Notary Public

My Commission expires: 1/31/09 # 123060

Schematic drawing of sewage disposal and/or water system and topographic features.

Show the lot lines of the building site, sketch of property showing any topographic features which may impact the design of the well or sewage disposal system, including existing and/or proposed structures and sewage disposal systems and wells within 200 feet. The schematic drawing of the well site or area and/or sewage disposal system shall show sewer lines, pretreatment unit, pump station, conveyance system, and subsurface soil absorption system, reserve area, etc. When a non-public drinking water supply is to be permitted, show all sources of pollution within 200 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. Drawing is **NOT** to scale.

NOTES

- * Septic + Pump Tank must be a minimum of 50' + drainfield must be a minimum of 100' from the neighbor's well.
- * Flow Equalization Required
- * Pump tank must be a Hanover 3000 gallon lid joint tank or new pump plans will be required.
- * Existing well must be abandoned prior to approval of sewage disposal system.
- * Cleanouts must be placed every 50'-60' feet on sewer line.

- ↓ ↓ READ ↓ ↓
1. Grade per site approved by this office.
 2. Install system as shown; a minimum of 10' from trees, property lines, and utility lines.
 3. Maximum backfill over system is not to exceed 20".
 4. It is the contractor's responsibility to meet all OSHA regulations relating to deep excavations.
 5. House sewer line must be inspected by this department to a point 3' from the dwelling.
 6. Flow Diversion Valve (FDV) key must be provided to owner prior to occupancy.
 7. UPON COMPLETION OF FINAL GRADING AND WELL, (if applicable), CALL THIS OFFICE AT (703) 246-2201 FOR FINAL INSPECTION(S) A MINIMUM OF 30 DAYS PRIOR TO REQUEST FOR RESIDENTIAL USE PERMIT.
 8. Install system in accordance with all applicable State Regulations and County Code.
 9. Install an access manhole on the outlet port of the septic tank for inspection and sludge removal. The manhole must have a removable watertight and airtight cover installed. It should be flush with or above the ground surface and marked sewer.
 10. Chapter 68.1 of the Fairfax County Code requires pumping of the septic tank once every five years. The owner of the property is required to provide written notification and proof to this department each time the tank is pumped.
 11. Do not install system during periods of wet weather and/or rain events.

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Date: 07/09/07

Issued by:

Hanna Wilmer
Environmental Health Specialist

Date: 7/9/2007

Reviewed by:

John M. Milne
Environmental Health Supervisor

This Construction
Permit Valid until
01/09/09

County of Fairfax, Commonwealth of Virginia.

The foregoing instrument was acknowledged before me this

9 day of July, 2007, by

HANNA WILMER + JOHN M. MILNE
(Name of person seeking acknowledgement)

Notary Public

My Commission expires: 1/31/09 # 123060

Water Supply and/or Sewage Disposal System Construction Permit

Commonwealth of Virginia
Department of Health
FAIRFAX COUNTY

Health Department

Health Department
Identification Number 129-06-1170
Map Reference 002-2/0002/0000/0014

General Information

Water Supply System: New ☐ Repair ☐ Public ☐ FHA ☐ VA ☐ Case No.
Sewage Disposal System: New ☐ Repair ☐ Expanded ☐ Conditional ☐ Public ☐
Based on the application for a sewage disposal system construction permit filed in accordance with Section 2.13 E, of the Sewage Handling and Disposal Regulations and/or Section 2.13 of the Private Well Regulations a construction permit is hereby issued to:
Owner MAMOOD RAJA TARIQ Telephone
Address 229 SENECA ROAD GREAT FALLS VA 22068 For a Type II Sewage Disposal System or Well to be constructed on/at 229 SENECA ROAD GREAT FALLS VA 22068
Subdivision SENECA FARMS Section/Block 2 Lot 14 Actual or estimated water use UBR 900 gpd

DESIGN

Water supply, existing: (describe) Existing III B to be abd (129-06-0877); New III B (129-06-0877)
To be installed: class
cased N/A grouted N/A

Building sewer: 4" I.D. PVC Schedule 40, or equivalent.
Slope 1.25" per 10' (minimum).
☐ Other

Septic tank: Capacity 2700 gals. (minimum).
☐ Other

Inlet-outlet structure:
PVC Schedule 40, 4" tees or equivalent.
☐ Other

Pump and pump station: Flow Equalization Required
No ☐ Yes ☒ describe and show design.
if yes: per approved pump plans 1/10/07

Gravity mains: 3" or larger I.D., minimum 6" fall per 100', 1500 lb. crush strength or equivalent.
☐ Other Flow Diversion Valve

Distribution box:
Precast concrete with 6" ports.
☐ Other 2 Distribution Boxes

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 1152; depth from ground surface to bottom of trench 50"; aggregate size 1/2" - 1 1/2"; Trench bottom slope 2" to 4" per 100'; center to center spacing 6'; trench width 2'; Depth of aggregate 30"; 22" under pipe; Trench length 72'; Number of trenches 8

NOTE: SEWAGE DISPOSAL SYSTEM INSPECTION RESULTS

Water supply location: Satisfactory yes ☐ no ☐
comments
Completion Report
G. W. 2 Received: yes ☐ no ☐ not applicable ☐

Building sewer: yes ☐ no ☐ comments
Satisfactory

Pretreatment unit: yes ☐ no ☐ comments
Satisfactory MNF GM

Inlet-outlet structure: yes ☐ no ☐ comments
Satisfactory

Pump & pump station: yes ☐ no ☐ comments
Satisfactory

Conveyance method: yes ☐ no ☐ comments
Satisfactory

Distribution box: yes ☐ no ☐ comments
Satisfactory TYPE SETTING

Header lines: yes ☐ no ☐ comments
Satisfactory

Percolation lines: yes ☐ no ☐ comments
Satisfactory

Absorption trenches: yes ☐ no ☐ comments
Satisfactory

FG:

Date Inspected and approved by:

Sanitarian

Schematic drawing of sewage disposal and/or water system and topographic features.

Show the lot lines of the building site, sketch of property showing any topographic features which may impact the design of the well or sewage disposal system, including existing and/or proposed structures and sewage disposal systems and wells within 200 feet. The schematic drawing of the well site or area and/or sewage disposal system shall show sewer lines, pretreatment unit, pump station, conveyance system, and subsurface soil absorption system, reserve area, etc. When a non-public drinking water supply is to be permitted, show all sources of pollution within 200 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. Drawing is **NOT** to scale.

NOTES

* Septic + Pump Tank must be a minimum of 50' + drainfield must be a minimum of 100' from the neighbor's well.

* Flow Equalization Required

* Pump tank must be a Hanover 3000 gallon liquid tank or new pump plans will be required.

* Existing well must be abandoned prior to approval of sewage disposal system.

* Cleanouts must be placed every 50'-60' feet on sewer line.

- ↓ ↓ READ ↓ ↓
1. Grade per site approved by this office.
 2. Install system as shown; a minimum of 10' from trees, property lines, and utility lines.
 3. Maximum backfill over system is not to exceed 20".
 4. It is the contractor's responsibility to meet all OSHA regulations relating to deep excavations.
 5. House sewer line must be inspected by this department to a point 3' from the dwelling.
 6. Flow Diversion Valve (FDV) key must be provided to owner prior to occupancy.
 7. UPON COMPLETION OF FINAL GRADING AND WELL, (if applicable), CALL THIS OFFICE AT (703) 246-2201 FOR FINAL INSPECTION(S) A MINIMUM OF 30 DAYS PRIOR TO REQUEST FOR RESIDENTIAL USE PERMIT.
 8. Install system in accordance with all applicable State Regulations and County Code.
 9. Install an access manhole on the outlet port of the septic tank for inspection and sludge removal. The manhole must have a removable watertight and airtight cover installed. It should be flush with or above the ground surface and marked sewer.
 10. Chapter 68.1 of the Fairfax County Code requires pumping of the septic tank once every five years. The owner of the property is required to provide written notification and proof to this department each time the tank is pumped.
 11. Do not install system during periods of wet weather and/or rain events.

This sewage disposal system and/or water supply is to be constructed as specified by the permit ✓ or attached plans and specifications ✓.

This sewage disposal system and/or well 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 (c) conditions are changed on the drainfield use.

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 department. Any part of any installation which has been covered prior to approval shall be uncovered, if necessary, upon the direction of the Health Department.

Date: 07/09/07

Issued by:

Hanna Williams
Environmental Health Specialist

Date: 7/9/2007

Reviewed by:

John M. Milgram
Environmental Health Supervisor

This Construction
Permit Valid until

01/09/09

County of Fairfax, Commonwealth of Virginia.

The foregoing instrument was acknowledged before me this

9 day of July, 2007, by

HANNA WILLIAMS + JOHN MILGRAM
(Name of person seeking acknowledgement)

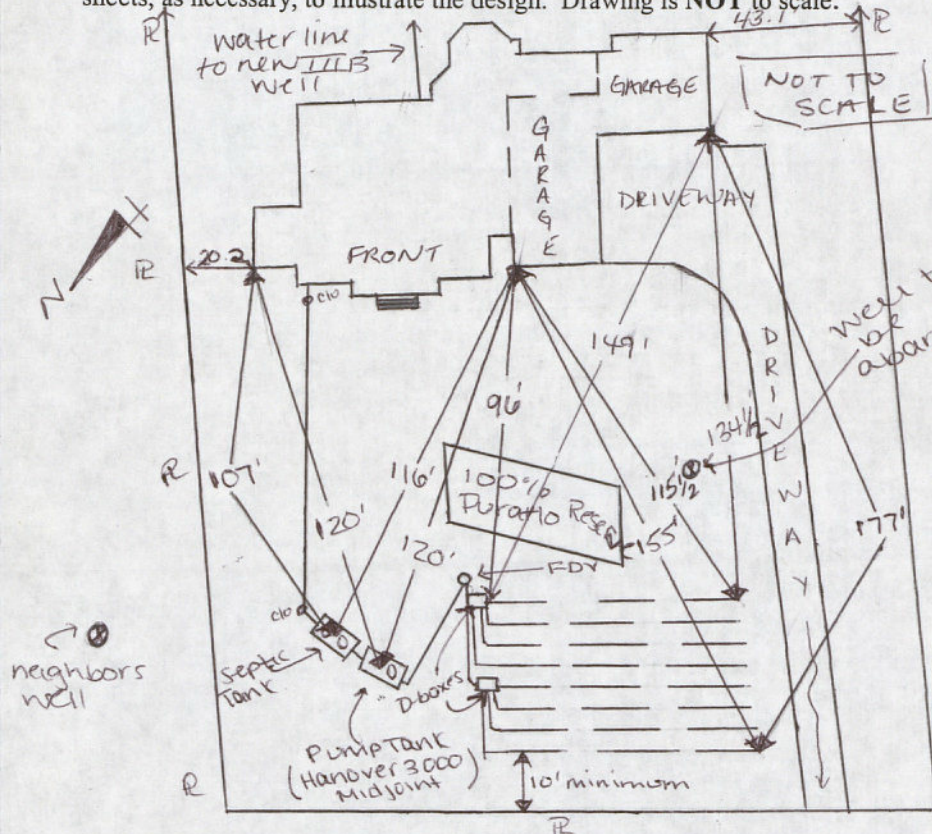
Notary Public

My Commission expires: 1/31/09 # 123060

Schematic drawing of sewage disposal and/or water system and topographic features.

Show the lot lines of the building site, sketch of property showing any topographic features which may impact the design of the well or sewage disposal system, including existing and/or proposed structures and sewage disposal systems and wells within 200 feet. The schematic drawing of the well site or area and/or sewage disposal system shall show sewer lines, pretreatment unit, pump station, conveyance system, and subsurface soil absorption system, reserve area, etc. When a non-public drinking water supply is to be permitted, show all sources of pollution within 200 feet.

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Date: 01/09/07

Issued by:

Hanna Willmertz
Environmental Health Specialist

Date: 7/9/2007

Reviewed by:

John M. Miley
Environmental Health SupervisorThis Construction
Permit Valid until

01/09/09

County of Fairfax, Commonwealth of Virginia.
The foregoing instrument was acknowledged before me this

9 day of July, 2007, by

HANNA WILLMERTZ, SOHN MILEY
(Name of person seeking acknowledgement)

Notary Public

My Commission expires: 1/31/09 # 123060

Water Supply and/or Sewage Disposal System Construction Permit

Commonwealth of Virginia
Department of Health

FAIRFAX COUNTY

Health Department

Page 1 of 2

Health Department
Identification Number
Map Reference

129.06.0817

012-20102/001000174

General Information

Water Supply System: New ☒ Repair ☐ Public ☐ FHA ☐ VA ☐ Case No.
Sewage Disposal System: New ☐ Repair ☐ Expanded ☐ Conditional ☐ Public ☐
Based on the application for a sewage disposal system construction permit filed in accordance with Section 2.13 E, of the Sewage Handling and Disposal Regulations and/or Section 2.13 of the Private Well Regulations a construction permit is hereby issued to:
Owner MAMOOD RAJA TARIG Telephone (703) 927-2614
Address 720 SENECA ROAD GREAT FALLS VA 22066 For a Type III B Sewage Disposal System or Well to be constructed on/at 220 SENECA ROAD
Subdivision SENECA FARMS Section/Block 2 Lot 14 Actual or estimated water use N/A

DESIGN

Water supply, existing: (describe) Existing III B to be abandoned (129.06.0817)
To be installed: class III B
cased 50 min. grouted 50 min

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

Septic tank: Capacity gals. (minimum).
☐ Other

Inlet-outlet structure:
PVC Schedule 40, 4" tees or equivalent.
☐ Other

Pump and pump station:
No ☐ Yes ☐ describe and show design.
if yes:

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

Distribution box:
Precast concrete with 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 : depth from ground surface to bottom of trench ; aggregate size :
Trench bottom slope :
center to center spacing ; trench width :
Depth of aggregate :
Trench length ; Number of trenches

NOTE: SEWAGE DISPOSAL SYSTEM INSPECTION RESULTS

Water supply location: Satisfactory yes ☒ no ☐
comments

Completion Report

G. W. 2 Received: yes ☒ no ☐ not applicable ☐

Building sewer: yes ☐ no ☐ comments
Satisfactory

Pretreatment unit: yes ☐ no ☐ comments
Satisfactory

Inlet-outlet structure: yes ☐ no ☐ comments
Satisfactory

Pump & pump station: yes ☐ no ☐ comments
Satisfactory

Conveyance method: yes ☐ no ☐ comments
Satisfactory

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 12/17/07 Inspected and approved by:

Hanna Williams

Mod A. S. In Sanitarian 12-20-07

WSS contractor: Northern Virginia Drilling

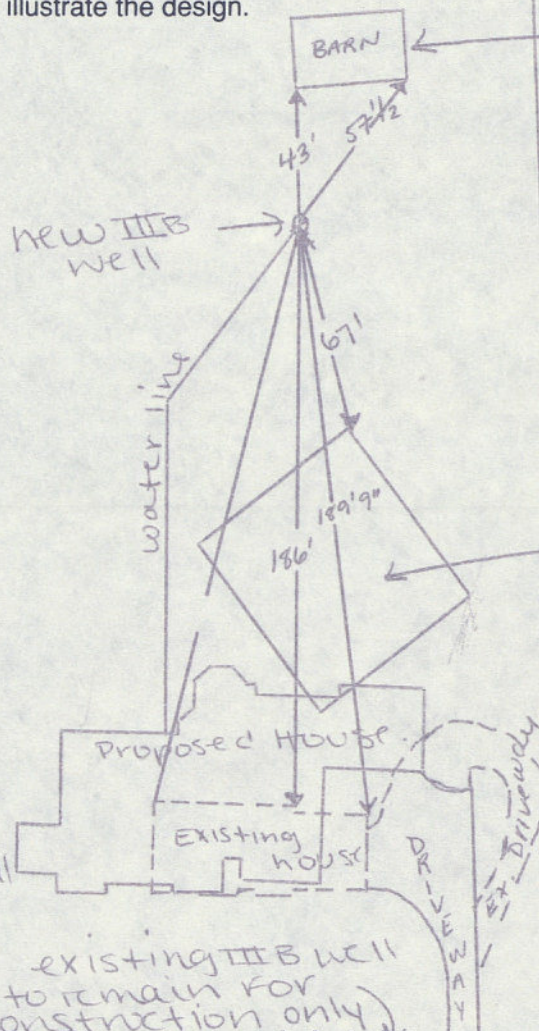
Schematic drawing of sewage disposal and/or water supply system and topographic features.

Show the lot lines of the building site, sketch of property showing any topographic features which may impact on the design of the well or sewage disposal system, including existing and/or proposed structures and sewage disposal systems and wells within 200 feet. The schematic drawing of the well site or area and/or 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 permitted, show all sources of pollution within 200 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.

NOT TO SCALE

- * well must be installed in the area shown on this permit.
- * well must be cased + grouted a minimum of 50'.
- * Existing well must be properly abandoned prior to new well approval.
- * Barn to remain + will not be used for animals.
- * Approval of well is contingent upon a satisfactory bacteriological analysis of a water sample collected by the Health Dept.



barn not used for animals on a concrete slab.

Existing Septic Drainfield to be abandoned

* owner or agent must contact Fairfax County Health Dept. for all required inspections and water samples.

This sewage disposal system and/or water supply is to be constructed as specified by the permit ☒ or attached plans and specifications ☒.

This sewage disposal system and/or well 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.

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: 1/31/07 Issued by: [Signature] Sanitarian
Date: 1/31/2007 Reviewed by: [Signature] Supervisory Sanitarian

This Construction Permit Valid until 08/2011

If FHA or VA financing

Reviewed by Date _____ Date _____

Record of Inspection - Private Water Supply System

Commonwealth of Virginia
Department of Health

Health Department
I.D. Number _____

F.H.A. or V.A. Case Number
If Applicable

Date _____ Local Health Department _____

Owner _____ Address _____ Phone _____

Exact Location of Premises _____

Subdivision _____ Section/Block _____ Lot _____

Class of nonpublic drinking water well. 1) Class III A ☐
2) Class III B ☒
3) Class III C ☐
Date of installation 2/12/07 4) Other _____

No. VA. Drilling / No. VA. Drilling

CONSTRUCTION INFORMATION

If information in any item below is secured from other sources (i.e. well log, etc.), so note.

- Water well completion report filed as required by Sec. 2.18 Yes ☒ No ☐
- Well Location: Distances from sources of pollution (See Table 3.1, Minimum Separation Distances) and Section 3.4 of the Private Well Regulations.
Building Sewer 50' + Pretreatment Unit 50' +
Conveyance System 50' + Subsurface Soil Absorption System 100' +
(nearest point). Property Line 10' + Other _____
Site graded where necessary to divert water away from well? Yes ☐ No ☐ N/A ☒
- Construction, General: (see Section 3.6 and 3.7 Private Well Regulations).
Total depth of well 720 feet. Type of casing STEEL
Depth of casing 152 feet. Diameter of casing 6 1/4 inches.
Casing extends inches above ground 12" +. Exterior space sealed with neat cement grout to a depth of 50 feet. Screens constructed of PVC
free of rough edges and irregularities, with positive watertight seal between screen and casing?
Yes ☒ No ☐ N/A ☐ Well head and opening to the interior protected? Yes ☒ No ☐
Type of well seal Pitless cap Pitless adapter used? Yes ☒ No ☐ N/A ☐
Properly installed? Yes ☒ No ☐ N/A ☐ Proper venting? Yes ☒ No ☐ N/A ☐
- Quantity: Yield and drawdown determined by continuous pumping of 1 hours. Drawdown 7 feet. Yield 7 GPM. Type of storage constant pressure
- Quality: Sample tap provided at entry into system? Yes ☒ No ☐ Samples(s) collected? Yes ☒
No ☐ Results of samples. Satisfactory ☒ Unsatisfactory ☐ (attach copy of results of this form)

Based on the inspection of this water supply system and the information contained on the water well completion report attached, this water supply system ☒ does not meet ☐ the requirements of the Private Well Regulations.

Remarks: 0-19' overburden; 19'-66' sandstone; 66'-131' grey shale; 131'-142' broken quartz & gravel; 142'-333' grey shale; 333'-720' soft blue shale & quartz.

Date 12/17/07

Signed [Signature]

Date 12-20-2007

Signed [Signature]

Date _____

Signed _____

Regional Sanitarian (If V.A. or F.H.A.)

WSS. No Va Drilling



WELL ABANDONMENT PERMIT

FAIRFAX COUNTY HEALTH DEPARTMENT

Division of Environmental Health

10777 Main St. Suite 102B., Fairfax, VA 22030

Permit #129- 129-06-0877

Owner's Name RAJA TARIQ Phone # _____

Mailing Address 229 SENECA RD GREAT FALLS VA 22066

Street Address of Property 229 SENECA RD GREAT FALLS VA 22066

Tax Map: 002 / 2 / 0002 / 0000 / 0014 Subdivision SENECA FARMS SEC 2
Map Grid Sub Block Lot

Existing Well: Bored _____ Drilled ☒ Other _____ Depth of Grout 50' Depth of Casing 87'

NOTICE: Call this office (703-246-2201) to schedule an inspection PRIOR to beginning the grouting/filling procedure.

PROCEDURES FOR PERMANENT ABANDONMENT OF WELLS

The object of proper permanent abandonment is to prevent contamination from reaching ground water resources via the well.

1. All casing material may be salvaged.
2. Before the well is plugged, it shall be checked from land surface to the entire depth of the well to ascertain freedom from obstructions that may interfere with plugging (sealing) operations.
3. The well shall be thoroughly chlorinated prior to plugging (sealing).
4. ~~Bored wells shall be completely filled with cement or bentonite grout.~~
5. Wells constructed in unconsolidated formations shall be completely filled with cement grout or clay slurry by introduction through a pipe initially extending to the bottom of the well. Such pipe shall be raised, but remain submerged in grout, as the well is filled.
6. ~~Wells constructed in consolidated rock formations or which penetrate zones of consolidated rock may be filled with sand or gravel opposite the zones of consolidated rock. The top of the sand or gravel fill shall be at least five (5) feet below the top of the consolidated rock and at least twenty (20) feet below land surface. The remainder of the well shall be filled with cement grout or clay slurry.~~
7. Other abandonment procedures may be approved by the Division on a case by case basis.
8. ~~Test and exploration wells shall be abandoned in such a manner as to prevent the well from being a channel for the vertical movement of water or a source of contamination to ground water.~~

RECORD OF INSPECTION

Date of Initial Site Inspection	<u>9-15-06</u>
Date Permit Issued	<u>9-15-06</u>
Sanitarian	<u>J. C. Price</u> (signature)
Reviewed by	<u>V. R. [signature]</u> Date <u>9-15-06</u>

FHD-EH-95 (4/91)

Date of Abandonment	<u>8/29/07</u>
Abandonment:	Satisfactory? ☒ Unsatisfactory? _____
Comments	<u>400' w/ bentonite</u>
Sanitarian	<u>Hanna Williams</u> Date <u>9/27/07</u>
Reviewed by	<u>[signature]</u> <u>AA</u> <u>12-20-07</u>

NOV 30 2006

WSS: No. Va. Drilling

FILE 1390

ENVIRONMENTAL HEALTH SERVICES SECTION
FOLLOW-UP REPORTOwner's Name Raja TariqTax Map: 2 - 2 / 002 / - 1 / 14
Map Grid Sub Block LotStreet Address 229 Seneca RdSubdivision Seneca Farms Sec-2City, State, Zip Great Falls VA 22066Phone # Ken Epstein: 703 598 1808 (c)

DATE	COMMENTS	RESCH DATE	INITIALS
cont. 8/28/07	insp - OK. WAB sch 8/29/07 + SDS		
	insp sch. 8/31/07	8/29/07	HW
8/29/07	met No. Va. Onsite. Witnessed Chlorin- ation + 400' trench pipe. Watched a few batches. Check on 8/31/07	8/31/07	HW
8/31/07	met David Holt onsite. OK to BF SDS. Need to as-built tanks at FG due to large soil pile btwn house + tanks. SDS is meets setbacks from neighbors WSS. (64' to tanks). (5100' to DF). Hold for pump V, FG, BR count, pump log, WS.	HOLD	HW
9-14-07	FG V'd OK, as-built completed, App'd SDS, pump V'd OK, Hold for WSS, WAB Area has been covered up - unsure from notes if 8-31-07 HW inspection final inspected WAB - question for HW	App'd SDS for WSS WAB 9-27-07 will meet 10/3/07	AG HW
9/27/07	WAB is OK. Bentonite stayed up.		
10/3/07	Left message for Ken Epstein regarding WS. Advised him to call back w/ progress or sch. WS. Called No. VA for pump log - cannot release due to \$	HOLD ↓	HW ↓
10/16/07	Ken Epstein called. He doesn't have	→	→

**ENVIRONMENTAL SERVICES SECTION
FOLLOW-UP REPORT**

File 1390

Owner's Name Raja Tariq Mahmood

Tax Map: 2 - 2 10021 - 1 14
Map Grid Sub Block Lot

Street Address 229 Seneca Rd

Subdivision Seneca Farms Sec 2

City, State, Zip Great falls VA 22066

Phone # 703 927 2614

owner's agent = 571 237 5609

Ken Epstein: 703 598 1808 (c) - Builder

DATE	COMMENTS	RESCH DATE	INITIALS
cont. 1/25/07	Later... Pulled 231 Seneca Rd file.		
	NO conflict. OK to issue permit.	1/31/07	Hw
1/31/07	Spoke w/ owners agent. Barn will not be used for animals + sits on a concrete slab. Location of WSS is OK - per JCP. Permit issued.		
		HOLD	Hw
2/2/07	DEMO PERMIT APPROVED. EXISTING WELL MAY BE USED FOR CONSTRUCTION USE ONLY & MUST BE ABANDONED PRIOR TO OCCUPANCY APPROVAL (see letter 10/23/06)	HOLD	Hw
2/16/07	NEW WELL INSTALLED on 2/12/07. It's yield is 7 GPM at a depth of 720'; OK to approve BP & RELEASE SGP. Received written well log.	—	JCP
3/14/07	Met NoVa Drilling on-site. GPS'd well. Grout check ok. Hold for pitless	HOLD	JL
07/02/07	Site visit for SDS layout. DF staked - OK. DF is 110' from neighbors WSS. Tank locations not staked but appear OK. Need wall check prior to issuing permit. Notified builder.	HOLD	Hw
07/09/07	Wall check received. Permit issued.	HOLD	Hw
7/26/07	Land Records Recorded Paper Return By to HP	HOLD	CRD
8/28/07	Met No. Va. Drilling onsite. Pitless	—	?

PERMIT NUMBER # 129-06-0817TAX MAP NUMBER 2-2-002-14WATER SUPPLY INSPECTION REPORT

Permit 129 06 0817

WELL INSTALLED BY No. Va. Drilling PUMP INSTALLED BY No. Va. DrillingGROUT INSPECTED Grout to 50' 3/14/07 JK
DATE EHSPIPE & ELECTRIC WIRE FROM WELL TO STORAGE TANK APPROVED 08/28/07 ttw
DATE EHS

TYPE OF INSTALLATION:

☒ PITLESS ADAPTER ☐ PIT (4" DRAIN) ☐ SURFACE (DRAIN) 08/28/07 ttw
DATE EHSConstant Pressure
STORAGE TANK: Arre E Tainer. AT 44 08/28/07 ttw
DATE EHSGate Valve ☒ Check Valve ☒ Sample Tap & Backflow Preventer ☒ Elec. Dis. Switch ☒ Pressure Relief Valve ☒WATER SAMPLE COLLECTED check pressure 12/14/07 ttw
DATE EHS

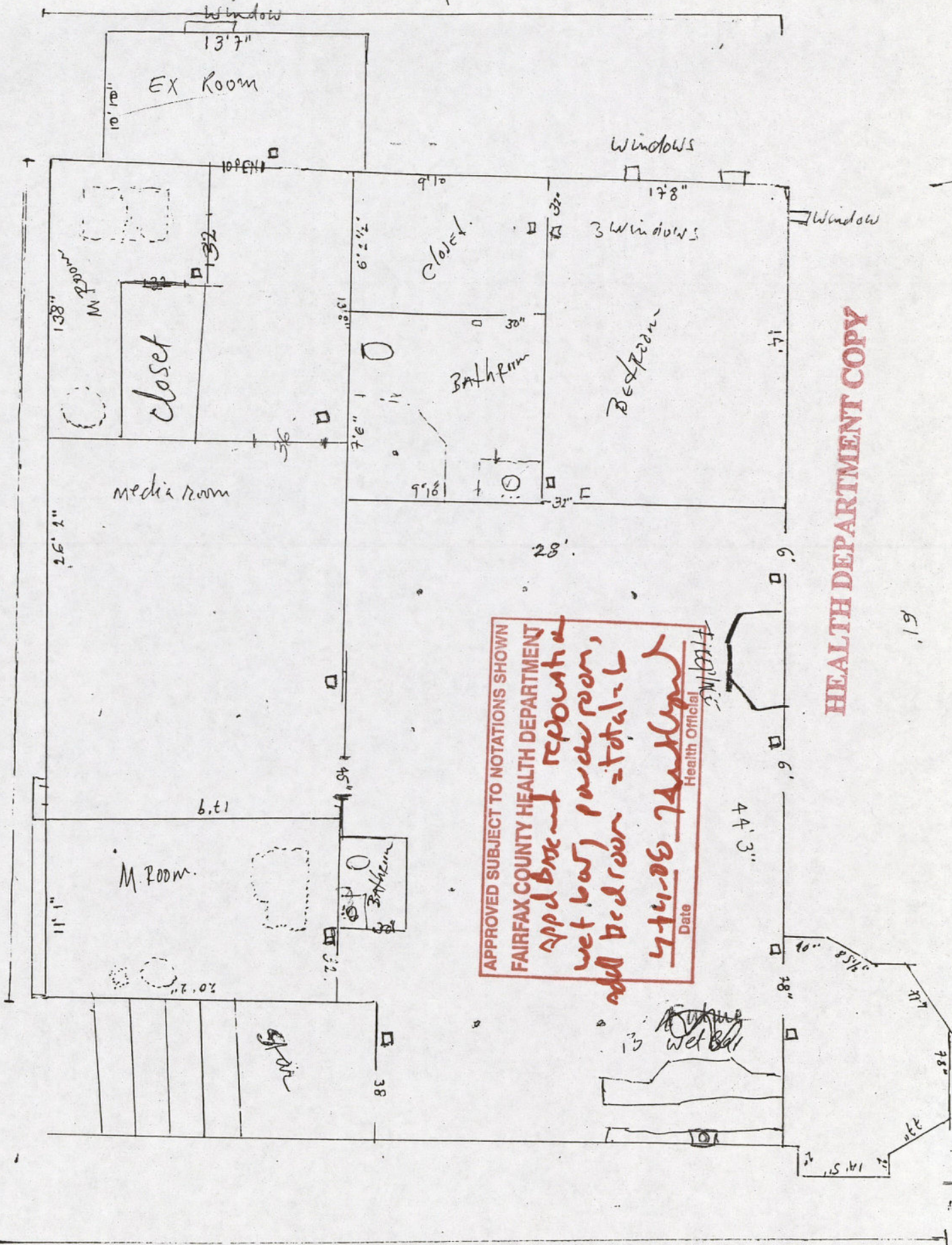
DATE	RECORD OF ADDITIONAL REMARKS OR VISITS	STATUS	EHS INITIAL

SEWAGE DISPOSAL SYSTEM INSPECTION REPORT

DATE	RECORD OF ADDITIONAL REMARKS OR VISITS	STATUS	EHS INITIAL
12-29-06	Rejected SGP & Pump Plans - Still need some work!	-	JQP
1-16-07	Approved Pump plans <u>only</u> ; SGP still needs some work. Also, need plat for well const. <u>only</u> . Well must be installed before BP is approved.		JQP
1-22-07	Approved "Well PLAT" <u>only</u> ; reviewed & approved SGP for new SFD, but do NOT release till well is drilled & yield established. All fees paid.	-	JQP
01/25/07	Site visit. WSS location appears satisfactory. Pull neighbor lot (231 Seneca) & verify SDS location		→

46

32 57 59



HEALTH DEPARTMENT COPY

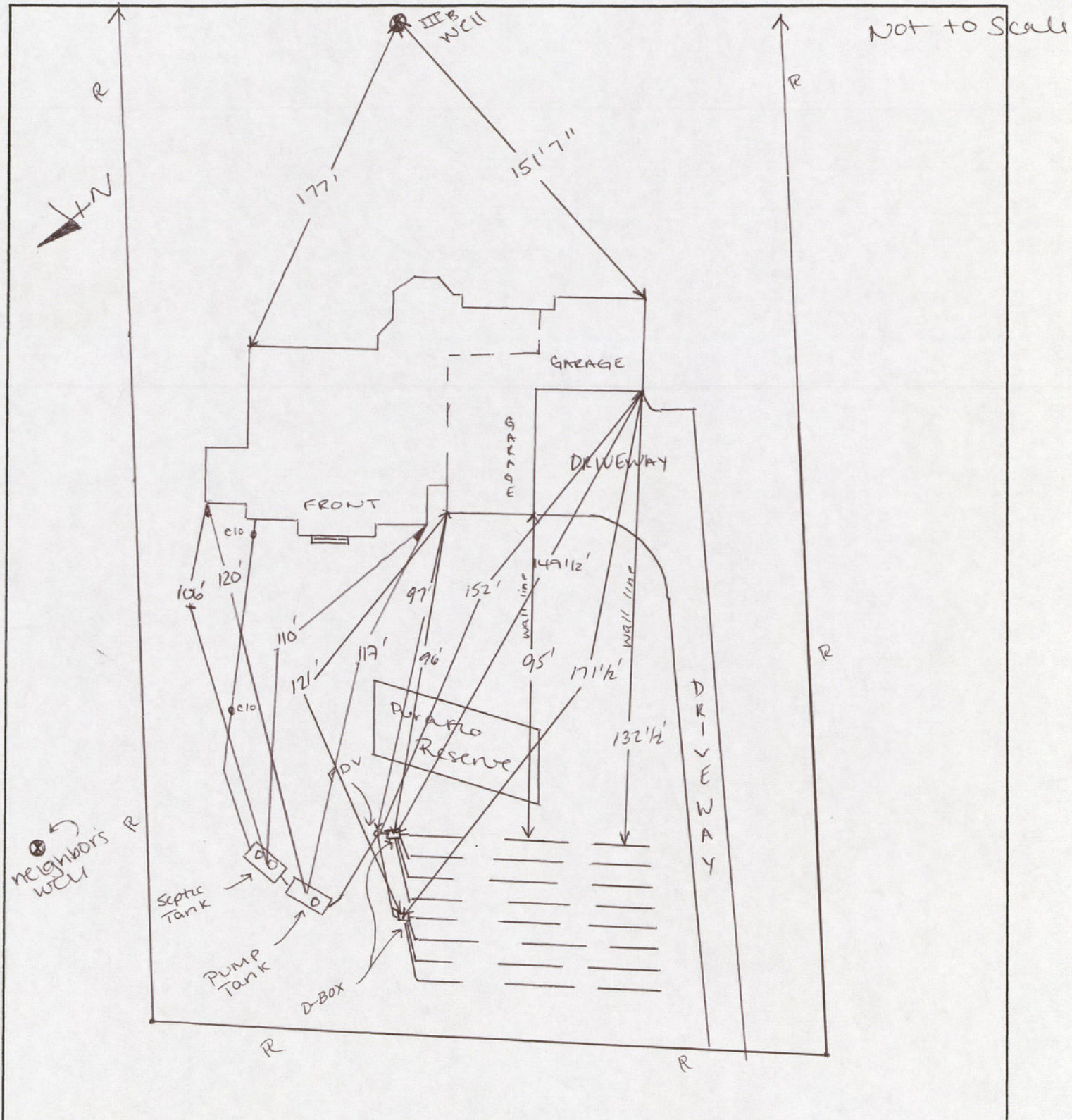
FAIRFAX COUNTY HEALTH DEPARTMENT
SEWAGE DISPOSAL SYSTEM/WELL WATER SUPPLY AS-BUILT

Tax Map ID: 2-2-002-14

Street Address: 229 Seneca Rd

Subdivision: Seneca Farms Sec. 2

City, State, Zip: Great Falls VA 22066



Form GW-2
1978-10,000State Water Control Board
P.O. Box 11143
2111 North Hamilton Street
Richmond, Virginia 23230COMMONWEALTH OF VIRGINIA
WATER WELL COMPLETION REPORT
Certification of Completion/County Permit

• BWCM No. _____

County/City FAIRFAX Co.

County/City Stamp

• Virginia Plane Coordinates

N

E

• Latitude & Longitude

N

W

• Topo. Map No. _____

• Elevation _____

• Formation _____

• Lithology _____

• River Basin _____

• Province _____

• Type logs _____

• Cuttings _____

• Water Analysis _____

• Aquifer Test _____

• Owner MA MOOD RASA TARI'S

• Well Designation or Number _____

Address 229 SENECA RD.Phone 927-2614

• Drilling Contractor: Northern Virginia Drilling, Inc.

Address 11356 Industrial Road

Manassas, VA 20109

Phone: (703) 361-6859

WELL LOCATION: _____ (feet/miles _____ direction) of _____

and _____ feet/miles _____ (direction) of _____
(If possible please include map showing location marked)Date started 2-8-07 • Date completed 2-12-07 Type rig AIR ROTARY

SWCB Permit _____

County Permit _____

Certification of inspecting official:

This well does _____ does not _____
meet code/low requirements.

S. _____

Date _____

For Office Use

129-06-0817Tax Map I.D. No. 2-2-02-14Subdivision SENECA FARMSSection 7

Block _____

Lot 14

Class Well I _____ II A _____

II B _____ III A _____ III B ☒

III C _____ III D _____ III E _____

1. WELL DATA: New ☒ Reworked _____ Deepened _____• Total depth 720' ft.• Depth to bedrock 19' ft.

• Hole size (Also include reamed zones)

• 10" inches from 0 to 150 1/2' ft.• 6 1/8" inches from 150 1/2' to 720' ft.

• _____ inches from _____ to _____ ft.

• Casing size (I.D.) and material

• 6 1/4" inches from 0 to 152' ft.Material STEELWt. per foot 13 or wall thickness .108 in.

• _____ inches from _____ to _____ ft.

Material _____

Wt. per foot _____ or wall thickness _____ in.

• _____ inches from _____ to _____ ft.

Material _____

Wt. per foot _____ or wall thickness _____ in.

• Screen size and mesh for each zone (where applicable)

• 4 1/2" inches from 720' to 680' ft.• Mesh size SOLID Type PVC• 4 1/2" inches from 680' to 540' ft.• Mesh size 20 Type PVC• 4 1/2" inches from 540' to 0 ft.• Mesh size SOLID Type PVC

• _____ inches from _____ to _____ ft.

• Mesh size _____ Type _____

• Gravel Pack

• From _____ to _____ ft.

• From _____ to _____ ft.

• Grout

• From 50' to 0 ft., Type Cement• From 150' to 50' ft., Type Rock Cuttings

WATER DATA • Water Temperature _____ °

• Static water level (unpumped level-measured) 70'

• Stabilized measured pumping water level _____

• Stabilized yield 7 gpm after 1 HR hoursNatural Flow: Yes _____ No ☒ flow rate: _____ gpmComment on quality Sediment Present3. WATER ZONES: From 494' To 496'From 679' To 683' From _____ To _____

From _____ To _____ From _____ To _____

USE DATA:

Type of use: Drinking ☒ Livestock Watering _____Irrigation _____ Food processing _____ Household ☒

Manufacturing _____ Fire Safety _____ Cleaning _____

Recreation _____ Aesthetic _____ Cooling or heating _____

Injection _____ Other _____

• Type of facility Domestic ☒ Public water supply _____

Public institution _____ Farm _____ Industry _____

Commercial _____ Other Model #5. PUMP DATA: Type FW • Rated H.P. CP150-10• Intake depth 680' • Capacity 11.5 gpm at 650' T.D. head6. WELL HEAD: Type well seal PITRESS, WATER TIGHT CAPPressure Tank 14 gal. Loc BasementSample tap ☒ Measurement port ☒Well vent ☒ Pressure relief valve ☒Gate valve ☒ Check valve (when required) ☒Electrical disconnect switch on power supply ☒7. DISINFECTION: Well disinfected ☒ Yes _____ No _____Date 8-20-07 Disinfectant used CL-140 CALICLORAmount 3502 Hours used 24

8. ABANDONMENT (where applicable) • Yes _____ No _____

Casing pulled Yes _____ No _____ Not Applicable _____

Plugging grout From _____ to _____ material _____

OVER

Owner _____

Bv

9. State law requires submitting to the Virginia State Water Control Board information about groundwater and wells for every well made in or intended for water, or any other non-exempt well. This information must be submitted whether the well is completed, on standby, or abandoned. Information required includes: an accurately and completely prepared water well completion report, full data from any aquifer pumping tests, drill cuttings taken at ten foot intervals (unless exemption is secured), the results of any chemical analysis, and copies of any geophysical logs. Quarterly pumpage and use reports are required from owners of public supply and industrial wells. County or State permits to drill may be required in some parts of the state. Some counties require submission of a water well completion report. The Virginia State Health Department requires a water well completion report for public supply wells.

229 SENEGA ROAD

10. DRILLERS LOG (use additional sheets if necessary)

DEPTH (feet)		TYPE OF ROCK OR SOIL (color, material, fossils, hardness etc.)	REMARKS (water, caving, cavities, broken, core, shot, etc.)	11. Drilling Time (Min.)	12. DIAGRAM OF WELL CONSTRUCTION (with dimensions)
From	To				
0	19'	OVERBURDEN	INSTALLED EX-		6 5/8" O.D. CASING 0 TO 152'
19'	66'	SANDSTONE	TRA CASING TO		
66'	131'	Grey SHALE	PREVENT WELL		
131'	142'	BROKEN QUARTZ + GRAVEL	WALL CLOG-IN		
142'	333'	Grey SHALE			
333'	720'	SOFT BLUE SHALE + QUARTZ			10" Hole 0 TO 150 1/2' 6 1/8" Hole 150 1/2' to 720'

State Water Control Board Regional Offices

Valley Reg. Off.
116 North Main Street
P.O. Box 268
Bridgewater, Va. 22812
703-828-2595

Piedmont Reg. Off.
4010 West Broad Street
P.O. Box 6616
Richmond, Va. 23230
804-257-1006

Southwest Reg. Off.
408 East Main Street
P.O. Box 476
Abington, Va. 24210
703-628-5183

Tidewater Reg. Off.
287 Pembroke Office Park
Suite 310 Pembroke No. 2
Va. Beach, Va. 23462
804-499-8742

West Central Reg. Off.
Executive Park
5312 Peters creek Road
Roanoke, Va. 24019
703-982-7432

Northern Virginia Reg. Off.
5515 Cherokee Avenue
Suite 404
Alexandria, Va. 22312
703-750-9111

13. Well lot dedicated? _____ : Size _____ ft. x _____ ft. : Well house? _____
Distance to nearest pollutant source _____ ft., Type _____
Distance to nearest property line _____ ft., Building _____ ft.

14. WATER SERVICE PIPE: Checked under 600 P.S.I. for 10
minutes. Pipe size 1 1/4" Inches, Material 200 PSI Poly Pipe,
8-3 W/g U.F. WIRE - NO SPLICERS
Date 8-20-07

15. I certify that the information contained herein is true and correct and that this well and/or system has been installed and constructed in accordance with the requirements for well construction as specified in compliance with appropriate county or independent city ordinances and the laws and rules of the Commonwealth of Virginia.

Signature [Signature] (Seal) Date 2-12-07
(Well driller or authorized person) 15000 18000

Form GW-2
1978-10,000State Water Control Board
P.O. Box 11143
2111 North Hamilton Street
Richmond, Virginia 23230COMMONWEALTH OF VIRGINIA
WATER WELL COMPLETION REPORT
Certification of Completion/County Permit

• BWCM No. _____

County/City

FAIRFAX Co.

County/City Stamp

• Virginia Plane Coordinates

N

E

• Latitude & Longitude

N

W

• Topo. Map No. _____

• Elevation _____

• Formation _____

• Lithology _____

• River Basin _____

• Province _____

• Type logs _____

• Cuttings _____

• Water Analysis _____

• Aquifer Test _____

• Owner MAMOOD KAJA TARIQ

• Well Designation or Number _____

Address 229 JENECIA RD.Phone 927-2614

• Drilling Contractor: Northern Virginia Drilling, Inc.

Address 11356 Industrial Road

Manassas, VA 20109

Phone: (703) 361-6859

WELL LOCATION: _____ (feet/miles _____ direction) of _____

and _____ feet/miles _____ (direction) of _____
(if possible please include map showing location marked)Date started 2-8-07 • Date completed 2-12-07 Type rig AIR ROTARY

SWCB Permit _____

County Permit _____

Certification of inspecting official: _____

This well does _____ does not _____
meet code/low requirements.

S. _____

Date _____

For Office Use

Tax Map I.D. No. 2-2-02-14Subdivision JENECIA FAIRFAXSection 7

Block _____

Lot 14

Class Well I _____ IIA _____

IIB _____ IIA _____ IIB ☒

IIC _____ IID _____ IIE _____

1. WELL DATA: New ☒ Reworked _____ Deepened _____• Total depth 720' ft.• Depth to bedrock 19' ft.

• Hole size (Also include reamed zones)

• 10" inches from 0 to 150 1/2' ft.• 6 1/8" inches from 150 1/2' to 720' ft.

• _____ inches from _____ to _____ ft.

• Casing size (I.D.) and material

• 6 1/4" inches from 0 to 152' ft.Material SteelWt. per foot 13 or wall thickness .188 in.

• _____ inches from _____ to _____ ft.

Material _____

Wt. per foot _____ or wall thickness _____ in.

• _____ inches from _____ to _____ ft.

Material _____

Wt. per foot _____ or wall thickness _____ in.

• Screen size and mesh for each zone (where applicable)

• 4 1/2" inches from 720' to 680' ft.• Mesh size SOLID Type PVC• 4 1/2" inches from 680' to 540' ft.• Mesh size 20 Type PVC• 4 1/2" inches from 540' to 0 ft.• Mesh size SOLID Type PVC

• _____ inches from _____ to _____ ft.

• Mesh size _____ Type _____

• Gravel Pack

• From _____ to _____ ft.

• From _____ to _____ ft.

• Grout

• From 50' to 0 ft., Type Cement• From 150 1/2' to 50' ft., Type Rock Cuttings

WATER DATA - Water Temperature _____

• Static water level (unpumped level-measured) 70'

• Stabilized measured pumping water level _____

• Stabilized yield 7 gpm after 1 HR hoursNatural Flow: Yes _____ No ☒ flow rate: _____ gpmComment on quality Sediment Present3. WATER ZONES: From 494' To 496'From 679' To 683' From _____ To _____

From _____ To _____ From _____ To _____

USE DATA:

Type of use: Drinking ☒ Livestock Watering _____Irrigation _____ Food processing _____ Household ☒

Manufacturing _____ Fire Safety _____ Cleaning _____

Recreation _____ Aesthetic _____ Cooling or heating _____

Injection _____ Other _____

• Type of facility Domestic ☒ Public water supply _____

Public institution _____ Farm _____ Industry _____

Commercial _____ Other _____

5. PUMP DATA: Type _____ • Rated H.P. _____

• Intake depth _____ • Capacity _____ at _____ head

6. WELLHEAD: Type well seal _____

Pressure Tank _____ gal. Loc _____

Sample tap _____ Measurement port _____

Well vent _____ Pressure relief valve _____

Gate valve _____ Check valve (when required) _____

Electrical disconnect switch on power supply _____

7. DISINFECTION: Well disinfected _____ Yes _____ No _____

Date _____ Disinfectant used _____

Amount _____ Hours used _____

8. ABANDONMENT (where applicable) • Yes _____ No _____

Casing pulled Yes _____ No _____ Not Applicable _____

Plugging grout From _____ to _____ material _____

OVER

Owner _____

BWCM No. _____

9. State law requires submitting to the Virginia State Water Control Board information about groundwater and wells for every well made in the state intended for water, or any other non-exempt well. This information must be submitted whether the well is completed, on standby, or abandoned. Information required includes: an accurately and completely prepared water well completion report, full data from any aquifer pumping tests, drill cuttings taken at ten foot intervals (unless exemption is secured), the results of any chemical analysis, and copies of any geophysical logs. Quarterly pumpage and use reports are required from owners of public supply and industrial wells. County or State permits to drill may be required in some parts of the state. Some counties require submission of a water well completion report. The Virginia State Health Department requires a water well completion report for public supply wells.

10. DRILLERS LOG (use additional sheets if necessary)

DEPTH (feet)		TYPE OF ROCK OR SOIL (color, material, fossils, hardness etc.)	REMARKS (water, caving, cavities, broken, core, shot, etc.)
From	To		
0	19'	OVERBURDEN	INSTALLED ER-
19'	66'	SANDSTONE	TRA CASING TO
66'	131'	Grey SHALE	PREVENT WELL
131'	142'	BROKEN QUARTZ + GRAVEL	WALL CAGE-IN
142'	333'	Grey SHALE	
333'	720'	SOFT BLUE SHALE + QUARTZ	

11.

Drilling
Time
(Min.)12. DIAGRAM OF WELL
CONSTRUCTION
(with dimensions)

10" Hole 0 to 150 1/2' 6 1/8" Hole 150 1/2' to 720'

6 1/8" O.D. CASING 0 to 152'

State Water Control Board Regional Offices

Valley Reg. Off.
116 North Main Street
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Bridgewater, Va. 22812
703-828-2595

Piedmont Reg. Off.
4010 West Broad Street
P.O. Box 6616
Richmond, Va. 23230
804-257-1006

Southwest Reg. Off.
408 East Main Street
P.O. Box 476
Abington, Va. 24210
703-628-5183

Tidewater Reg. Off.
287 Pembroke Office Park
Suite 310 Pembroke No. 2
Va. Beach, Va. 23462
804-499-8742

West Central Reg. Off.
Executive Park
5312 Peters creek Road
Roanoke, Va. 24019
703-982-7432

Northern Virginia Reg. Off.
5515 Cherokee Avenue
Suite 404
Alexandria, Va. 22312
703-750-9111

13. Well lot dedicated? _____ : Size _____ ft. x _____ ft. : Well house? _____

Distance to nearest pollutant source _____ ft., Type _____

Distance to nearest property line _____ ft., Building _____ ft.

14. WATER SERVICE PIPE: Checked under _____ P.S.I. for _____

minutes. Pipe size _____ Inches, Material _____

Installer _____

Date _____

15. I certify that the information contained herein is true and correct and that this well and/or system has been installed and constructed in accordance with the requirements for well construction as specified in compliance with appropriate county or independent city ordinances and the laws and rules of the Commonwealth of Virginia.

Signature _____ (Well driller or authorized person)

(Seal) Date 2-12-07

License No. 015640 / 84412

ABANDONMENT

COMMONWEALTH OF VIRGINIA
WATER WELL COMPLETION REPORT
Certification of Completion/County Permit

RECEIVED OCT 09 2007

State Water Control Board
P.O. Box 11143
2111 North Hamilton Street
Richmond, Virginia 23230

• BWCM No. _____

County/City _____

FAIRFAX

County/City Stamp

• Virginia Plane Coordinates

_____ N

_____ E

• Latitude & Longitude

_____ N

_____ W

• Topo. Map No. _____

• Elevation _____

• Formation _____

• Lithology _____

• River Basin _____

• Province _____

• Type logs _____

• Cuttings _____

• Water Analysis _____

• Aquifer Test _____

• Owner

RAJA TARIQ

• Well Designation or Number

Address 229 SENECA RD

Phone _____

• Drilling Contractor: Northern Virginia Drilling, Inc.

Address 11356 Industrial Road

Manassas, VA 20109

Phone: (703) 361-6859

WELL LOCATION: _____ (feet/miles _____ direction) of _____

and _____ feet/miles _____ (direction) of _____
(If possible please include map showing location marked)

Date started 8-29-07 • Date completed 8-29-07 Type rig GROUT TRUCK

SWCB Permit _____

County Permit _____

Certification of inspecting official:

This well does _____ does not _____

meet code/low requirements.

S. _____

Date _____

For Office Use

#129-06-0877

Tax Map I.D. No. 002-2-0002-C

Subdivision _____

Section _____

Block _____

Lot _____

Class Well I _____ IIA _____

IIIB _____ IIIA _____ IIIB _____

IIIC _____ IIID _____ IIIE _____

1. WELL DATA: New _____ Reworked _____ Deepened _____

• Total depth _____ ft.

• Depth to bedrock _____ ft.

• Hole size (Also include reamed zones)

• _____ inches from _____ to _____ ft.

• _____ inches from _____ to _____ ft.

• _____ inches from _____ to _____ ft.

• Casting size (I.D.) and material

• _____ inches from _____ to _____ ft.

Material _____

Wt. per foot _____ or wall thickness _____ in.

• _____ inches from _____ to _____ ft.

Material _____

Wt. per foot _____ or wall thickness _____ in.

• _____ inches from _____ to _____ ft.

Material _____

Wt. per foot _____ or wall thickness _____ in.

• Screen size and mesh for each zone (where applicable)

• _____ inches from _____ to _____ ft.

• Mesh size _____ Type _____

• _____ inches from _____ to _____ ft.

• Mesh size _____ Type _____

• _____ inches from _____ to _____ ft.

• Mesh size _____ Type _____

• _____ inches from _____ to _____ ft.

• Mesh size _____ Type _____

• Gravel Pack

• From _____ to _____ ft.

• From _____ to _____ ft.

• Grout

• From _____ to _____ ft., Type _____

• From _____ to _____ ft., Type _____

WATER DATA • Water Temperature _____

• Static water level (unpumped level-measured) _____

• Stabilized measured pumping water level _____

• Stabilized yield _____ gpm after _____ hours

Natural Flow: Yes _____ No _____ flow rate: _____ gpm

Comment on quality _____

3. WATER ZONES: From _____ To _____

From _____ To _____ From _____ To _____

From _____ To _____ From _____ To _____

USE DATA:

Type of use: Drinking _____ Livestock Watering _____

Irrigation _____ Food processing _____ Household _____

Manufacturing _____ Fire Safety _____ Cleaning _____

Recreation _____ Aesthetic _____ Cooling or heating _____

Injection _____ Other _____

• Type of facility Domestic _____ Public water supply _____

Public institution _____ Farm _____ Industry _____

Commercial _____ Other _____

5. PUMP DATA: Type _____ • Rated H.P. _____

• Intake depth _____ • Capacity _____ at _____ head

6. WELLHEAD: Type well seal _____

Pressure Tank _____ gal. Loc _____

Sample tap _____ Measurement port _____

Well vent _____ Pressure relief valve _____

Gate valve _____ Check valve (when required) _____

Electrical disconnect switch on power supply _____

7. DISINFECTION: Well disinfected ☒ Yes _____ No _____

Date 8-29-07 Disinfectant used CAL. Hypochlorine

Amount 24 oz Hours used 24

8. ABANDONMENT (where applicable) • Yes ☒ No _____

Casing pulled Yes _____ No ☒ Not Applicable

Plugging grout From 390' to 0 material BENTONITE

OVER

THE ZODIAC

BWCM No. _____

9. State law requires submitting to the Virginia State Water Control Board information about groundwater and wells for every well made in the state intended for water, or any other non-exempt well. This information must be submitted whether the well is completed, on standby, or abandoned. Information required includes: an accurately and completely prepared water well completion report, full data from any aquifer pumping tests, drill cuttings taken at ten foot intervals (unless exemption is secured), the results of any chemical analysis, and copies of any geophysical logs. Quarterly pumpage and use reports are required from owners of public supply and industrial wells. County or State permits to drill may be required in some parts of the state. Some counties require submission of a water well completion report. The Virginia State Health Department requires a water well completion report for public supply wells.

10. DRILLERS LOG (use additional sheets if necessary)

DEPTH (feet)		TYPE OF ROCK OR SOIL	REMARKS	Drilling Time (Min.)	(with dimensions)
From	To	(color, material, fossils, hardness etc.)	(water, caving, cavities, broken, core, shot, etc.)		

State Water Control Board Regional Offices

Valley Reg. Off.
116 North Main Street
P.O. Box 268
Bridgewater, Va. 22812
703-828-2595

Piedmont Reg. Off.
4010 West Broad Street
P.O. Box 6616
Richmond, Va. 23230
804-257-1006

13. Well lot dedicated? _____ :Size _____ ft. x _____ ft.:Well house? _____
Distance to nearest pollutant source _____ ft., Type _____
Distance to nearest property line _____ ft., Building _____ ft.

Southwest Reg. Off.
408 East Main Street
P.O. Box 476
Abington, Va. 24210
703-628-5183

Tidewater Reg. Off.
287 Pembroke Office Park
Suite 310 Pembroke No. 2
Va. Beach, Va. 23462
804-499-8742

14. WATER SERVICE PIPE: Checked under _____ P.S.I. for _____ minutes. Pipe size _____ Inches, Material _____
Installer _____
Date _____

**West Central Reg. Off.
Executive Park
5312 Peters creek Road
Roanoke, Va. 24019
703-982-7432**

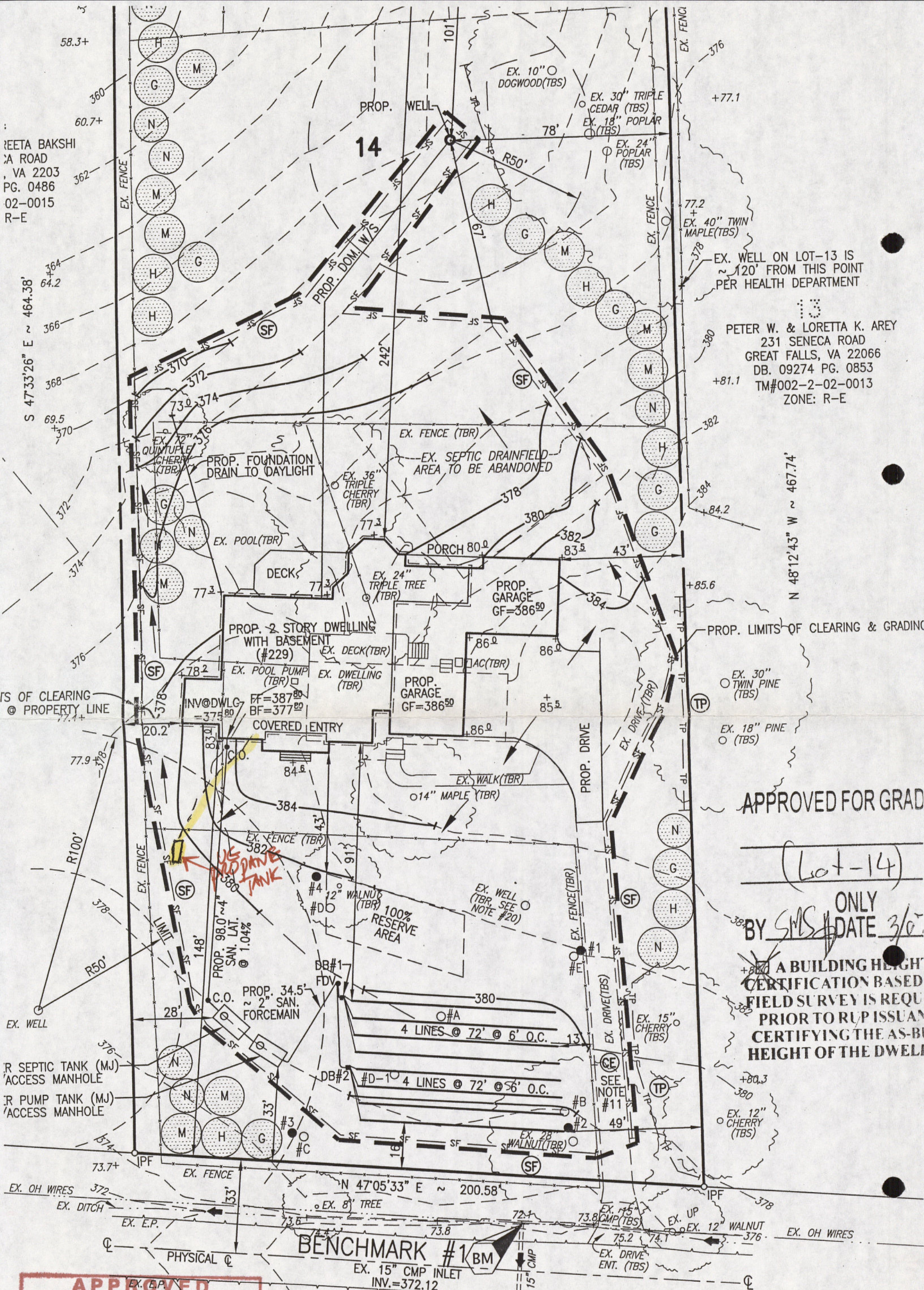
Northern Virginia Reg. Off.
5515 Cherokee Avenue
Suite 404
Alexandria, Va. 22312
703-750-9111

15. I certify that the information contained herein is true and correct and that this well and/or system has been installed and constructed in accordance with the requirements for well construction as specified in compliance with appropriate county or independent city ordinances and the laws and rules of the Commonwealth of Virginia.

Signature [Signature] (Seal). Date 8-29-07
(Well driller or authorized person)

License No. 2705-08442A

REETA BAKSHI
1A ROAD
VA 2203
PG. 0486
02-0015
R-E



PETER W. & LORETTA K. AREY
231 SENECA ROAD
GREAT FALLS, VA 22066
DB. 09274 PG. 0853
TM#002-2-02-0013
ZONE: R-E

APPROVED FOR GRAD

(Lot-14)

ONLY
BY *SMS* DATE *3/0*

A BUILDING HEIGHT
CERTIFICATION BASED
FIELD SURVEY IS REQUIRED
PRIOR TO RUP ISSUANCE
CERTIFYING THE AS-BUILT
HEIGHT OF THE DWELLING

APPROVED
FAIRFAX COUNTY HEALTH DEPARTMENT
LOCATION OF PROPANE TANK
9-0-07 *J.C. L...*
Date Health Official

SENECA ROAD
ROUTE #602
WIDTH VARIES

BENCHMARK #2
EX. 15" CMP OUTLET
INV.=371.50

HEALTH DEPARTMENT COPY

FAIRFAX COUNTY HEALTH DEPARTMENT
PERMIT APPLICATION

MARK ALL APPLICABLE BOXES:

☒ NEW CONSTRUCTION () SEWAGE DISPOSAL SYSTEM PERMIT () INDIVIDUAL WELL WATER SUPPLY PERMIT
() ADDITION/REMODELING ☒ WELL ABANDONEMENT () SEWAGE SYSTEM EXPANSION

TO BE COMPLETED BY THE APPLICANT. PLEASE PRINT CLEARLY

OWNER MAMOOD RATA TARIQ ADDRESS 229 SENECA RD PHONE _____
GREAT FALLS VA ZIP 22066
AGENT THUY LE ADDRESS 19599 ASPENDALE SQ PHONE (703) 282-4957
ASHBURN, VA ZIP 20147
SUBDIVISION SENECA FARMS SECTION 2 BLOCK # LOT 14
PROPERTY ADDRESS 229 SENECA RD TAX MAP 002-2-02-004
GREAT FALLS, VA 22066

☒ RESIDENTIAL

Sewage: ☒ Septic Tank () Public () Other _____ () Basement - Plumbing in Basement () Yes () No
Number of Potential Bedrooms 6 Number of Kitchens 1

Water: ☒ Well () Public () Other _____

() COMMERCIAL

Sewage: () Septic Tank () Public () Other _____ Estimated Number of Patrons _____ using sanitary facilities;
Number of Employees _____ Total Estimated Daily Water Usage _____ Gallons

Water: () Well () Public () Non-Community () Other _____

DESCRIBE ADDITION/REMODELING:

New SFH w/ deck and cover porch
WAB

I GIVE PERMISSION TO THE HEALTH DEPARTMENT TO USE THE PROPERTY DESCRIBED FOR THE PURPOSE OF PROCESSING THIS APPLICATION. I UNDERSTAND A SUBSTANTIAL PORTION OF THE PROPERTY MAY VOID APPROVAL OF THE LOT FOR AN ONSITE SEWAGE DISPOSAL SYSTEM.

SIGNATURE [Signature] PRINT NAME THUY LE

DATE 08/22/06 () OWNER ☒ AGENT

For Department Use Only Active: Flow Equalization Required
Reserve: Paraflo w/ benches 2.5 gal/ft²/day

HD-ID: NO

Date Lot Approved: 8/4/06 Type System II Design for 6 Bedrooms or 900 Gallons per Day
13 Perc Rate 13 Depth 8' 60" Septic Tank Gallons 8700 Absorption Field 576 (Lin. Ft.) Reserve Area 900 (Lin. Ft.)
100% PARAFLO or
OTHER EQUIV.
ATT. SYSTEM

Building Permit Number _____ Receipt Number *E07000147 6252 123/07

Remarks 8/31/06 Rejected SGP & PP 11/22/07 Approved well plat Fees Paid for SDS
11/27/06 Ex. well TO BE USED ONLY FOR CONST. OF NEW SFD. it will be ABANDONED/SEALED
when new well is installed or just before occupancy approval. (JP) See letter 10/23/06

REVIEWED BY J.C. Pizzi TITLE PHS III DATE 2-16-07

* NEW WELL PERMIT STILL BE PAID PAID well fee 12/3/07 E07000147

Rev. 9/05

PERMIT MUST BE RECORDED IN LAND RECORDS

RECEIVED
AUG 22 2006

REGISTERED

REGISTERED
129-06-1170
NEW SDS WKS

129-06-0817

**THE FOLLOWING INFORMATION IS REQUIRED
FOR A COMPLETE SUBMISSION PACKAGE:**

Grading Only Plans:

- ☒ 9 copies of the site/grading plan
- ☐ Special "Grading Only" Notice on each copy

First Submission of Site/Grading Plans for Building Permit

- ☒ 9 copies of site/grading plan
- ☒ 1 copy of site/grading plan on 11" x 17" sheet
- ☒ 2 copies of pump plans or hydraulic designs (if required for design)
- ☒ *architectural 1 copy*

Revisions To Site/Grading Plans

- ☐ 9 copies of site/grading plan
- ☐ 1 copy of site/grading plan on 11" x 17" sheet
- ☐ 2 copies of pump plans or hydraulic designs (if changes to design are made)

**Building Additions and Pool Reviews (with less than 2500 ft²
site disturbance)**

- ☐ Fairfax County Building Permit Application
- ☐ 2 copies of site plan (1:50 scale minimum)
- ☐ 1 copy of architectural plans

**Building Additions and Pool Reviews (with 2500 ft² or greater
site disturbance)**

- ☐ Fairfax County Building Permit Application
- ☐ 9 copies of site/grading plans
- ☐ 1 copy of architectural plans

The information required for the complete submission package has been provided to the Health Department for review


(signature of owner or agent)

08/22/06
(date)

Raja Tariq Mahmood
11775 Stratford House Place, #104
Reston, VA 20190

FAIRFAX COUNTY HEALTH DEPARTMENT
Division of Environmental Health
10777 Main Street, Suite 102
Fairfax, Virginia 22030

October 23rd 2006

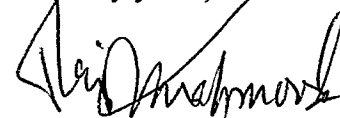
Reference: Permission to Use existing well for Construction @
229 Seneca Road
Great Falls, VA 22066
Fairfax County Tax Map # 002-2-02-0014, Lot 14
Subdivision: Seneca Farms

To whom may its concern,

I am writing to request that permission be granted to use the existing old well for construction purposes only. I understand that the well can not be used for any other purpose such as drinking. There is a likelihood of a new well to be drilled at other location on premise (per plan) to meet our water requirements.

Thank you for your concern and consideration of the approval of our submission. If there is any question please feel free to call me for more detail.

Sincerely yours,



Raja Tariq Mahmood,
Owner
(703) 927-2614 Tel
(703) 991-4825 Fax

RECEIVED
NOV 20 2006

APPROVED SUBJECT TO NOTATIONS SHOWN

FAIRFAX COUNTY HEALTH DEPARTMENT

EX. WELL MAY BE USED FOR CONSTRUCTION PURPOSES
ONLY OF THE NEW HOME AS REQUESTED. IT MUST
BE ABANDONED & SEALED PRIOR TO OCCUPANCY
APPROVAL OF THE NEW HOME.

11-27-06

J. C. Price

10/27/06

10/27/06

WELL ABANDONMENT PERMIT #129-06-0877
ISSUED 9/15/06 IS ATTACHED.

FAIRFAX COUNTY HEALTH DEPARTMENT
PERMIT APPLICATION

MARK ALL APPLICABLE BOXES:

() NEW CONSTRUCTION () SEWAGE DISPOSAL SYSTEM PERMIT () INDIVIDUAL WELL WATER SUPPLY PERMIT
() ADDITION/REMODELING () WELL ABANDONEMENT () SEWAGE SYSTEM EXPANSION

TO BE COMPLETED BY THE APPLICANT. PLEASE PRINT CLEARLY

OWNER MAHMOOD RAJA TARIG ADDRESS 229 SENECA RD PHONE (703) 927-2614
GREAT FALLS, VA ZIP 22066
AGENT THUY LE ADDRESS 19599 ASPENDALE SQ PHONE (703) 282-4957
ASHBURN, VA ZIP 20147
SUBDIVISION SENECA FARMS SECTION 2 BLOCK _____ LOT 14
PROPERTY ADDRESS 229 SENECA RD TAX MAP 0022-02-0014
GREAT FALLS, VA 22066

☒ RESIDENTIAL

Sewage: () Septic Tank () Public () Other _____ () Basement - Plumbing in Basement () Yes () No

Number of Potential Bedrooms _____ Number of Kitchens _____

Water: () Well () Public () Other _____

() COMMERCIAL

Sewage: () Septic Tank () Public () Other _____ Estimated Number of Patrons _____ using sanitary facilities;

Number of Employees _____ using sanitary facilities; Total Estimated Daily Water Usage _____ Gallons

Water: () Well () Public () Non-Community () Other _____

DESCRIBE CONSTRUCTION: Demolition entire house

I GIVE PERMISSION TO THE HEALTH DEPARTMENT TO ENTER ONTO THE PROPERTY DESCRIBED FOR THE PURPOSE OF PROCESSING THIS APPLICATION. I UNDERSTAND A SUBSTANTIAL PHYSICAL CHANGE TO THE PROPERTY MAY VOID APPROVAL OF THE LOT FOR AN ONSITE SEWAGE DISPOSAL SYSTEM

SIGNATURE [Signature] PRINT NAME THUY LE
DATE 01/21/07 () OWNER ☒ AGENT

For Department Use Only

HD: ID:NO: _____

Date Lot Approved: _____ Type System _____ Design for _____ Bedrooms or _____ Gallons per Day

Perc Rate _____ Depth _____ Septic Tank Gallons _____ Absorption Field _____ (Lin. Ft.) Reserve Area _____ (Lin. Ft.)

Building Permit Number 62490172 Receipt Number _____

Remarks Approved demo of SFD. Existing well OK to keep for construction, however it must be abandoned prior to occupancy

REVIEWED BY Xiania Williams TITLE EHS-II DATE 2/2/07

**THE FOLLOWING INFORMATION IS REQUIRED
FOR A COMPLETE SUBMISSION PACKAGE:**

Grading Only Plans:

- ☐ 9 copies of the site/grading plan
- ☐ Special "Grading Only" Notice on each copy

First Submission of Site/Grading Plans for Building Permit

- ☐ 9 copies of site/grading plan
- ☐ 1 copy of site/grading plan on 11" x 17" sheet
- ☐ 2 copies of pump plans or hydraulic designs (if required for design)
- ☐ 1 copy of architectural plan (floor plan)

Revisions To Site/Grading Plans

- ☐ 9 copies of site/grading plan
- ☐ 1 copy of site/grading plan on 11" x 17" sheet
- ☐ 2 copies of pump plans or hydraulic designs (if changes to design are made)

**Building Additions and Pool Reviews (with less than 2500 ft²
site disturbance)**

- ☐ Fairfax County Building Permit Application
- ☐ 2 copies of site plan (1:50 scale minimum)
- ☐ 1 copy of architectural plans

**Building Additions and Pool Reviews (with 2500 ft² or greater
site disturbance)**

- ☐ Fairfax County Building Permit Application
- ☐ 9 copies of site/grading plans
- ☐ 1 copy of architectural plans

NOTE: If the plans are rejected the Engineer listed on the plans will be contacted with an explanation for the rejection, regardless of whom submitted the plans

The information required for the complete submission package has been provided to the Health Department for review

(signature of owner or agent)

(date)



County of Fairfax, Virginia

To protect and enrich the quality of life for the people, neighborhoods and diverse communities of Fairfax County

SEWAGE DISPOSAL DEMOLITION NOTICE

Fairfax County Health Department requires proper abandonment of septic tanks, pump chambers, and pretreatment works. The applicant/owner may be responsible for any damage or injury incurred to property and/or persons if septic tanks, pump chambers or pretreatment works are improperly abandoned.

Abandonment of Pretreatment Units, Septic Tanks, Pump Chambers and Privies.

The pretreatment system, pump chambers, etc., of any permanently abandoned individual sewage disposal system or pretreatment works must be emptied of septage by a licensed sewage handler and the tank removed or filled with earth or other suitable material.

The filled or partially filled vault of any abandoned privy must be filled with and covered over with minimum of two (2) feet of earth.

ADDRESS: 229 Seneca Rd Great Falls VA 22066

BUILDING PERMIT # 162490172 TAX MAP: 2-2-002-14

DATE: 02/02/07 SIGNED: Hannah Willmet

HEALTH DEPARTMENT COPY

Fairfax County Health Department
Division of Environmental Health
Onsite Sewage and Water Section
10777 Main Street, Suite 102, Fairfax, VA 22030
Phone: 703-246-2201 TTY: 711 Fax: 703-278-8157
www.fairfaxcounty.gov/hd



FLOW-EQUALIZATION SYSTEM

PERMIT #: 129-06-0817

PLANS APPROVED: 1-16-07 (J8)

LOCATION: 229 Seneca Rd., Great Falls

TAX MAP ID#: 2-2-002-14

ITEM	PER PLANS		PER INSPECTION		DATE INITIAL	REMARKS	
1. PUMP CHAMBER 12" ABOVE GRADE & PROPERLY GRADED	<u>YES</u>	NO	<u>YES</u>	NO	<u>9-14-07</u>		
2. ELECTRICAL JUNCTION BOX PROPERLY SHOWN & INSTALLED ABOVE GRADE	<u>YES</u>	NO	<u>YES</u>	NO			
3. DIAMETER OF PUMP CHAMBER ACCESS RISER	<u>30.0</u>	IN.	<u>Handover 2000591</u>	IN.			
4. CONSTRUCTION OF CHAMBER SATISFACTORY	<u>YES</u>	NO	<u>YES</u>	NO		Gals/Inch= <u>37.2</u>	
5. MAKE & MODEL # OF PUMPS * (SEE NOTE BELOW) (A) Expected Flow Rate of Pump Installed (B) Expected Run Time of Pump Installed (C) Actual Flow Rate of Pump Installed (D) Actual Run Time of Pump Installed	<u>Zoeller N-140</u> OR <u>MYERS DE-50</u>		<u>Zoeller N140</u>			(A): 71 GPM or 65 GPM (B): 114.1 secs or 124.6 secs. (C): 69.75 GPM (D): 1 minute 56 sec	
6. CHECK VALVES PROPERLY SHOWN / LOCATED (TYPE OF MATERIAL)	<u>YES</u>	NO PROPOSED	<u>YES</u>	NO INSTALLED			
	<u>BRASS or EQUIV.</u>		<u>Brass</u>				
7. FORCE MAIN LINE (SIZE / MATERIAL / DEPTH)	<u>2"</u>	<u>PVC</u>	<u>24"</u>	<u>2"</u>	<u>PVC</u>	<u>24"</u>	<u>8-31-07 For H. Willmet</u>
8. FLOATS (TYPE / NUMBER / SUSPENSION)	<u>Diff.</u>	<u>3</u>	<u>Diff.</u>	<u>3</u>	<u>SEE PLAN</u>	<u>7-14-07</u>	TYPE SUSPENSION: <u>PVC</u>
9. DISTANCE OVERRIDE BELOW INLET	<u>7.5</u>	IN.	<u>7.5</u>	IN.			<u>135 gals/dose</u>
10. DISTANCE ALARM BELOW INLET	<u>9.5</u>	IN.	<u>9.5</u>	IN.			
11. HEIGHT OF "OFF" FLOAT ABOVE FLOOR	<u>24.0</u>	IN.	<u>24.0</u>	IN.			
12. FLOW-EQUALIZATION ZONE	<u>48.5</u>	IN.	<u>48.5</u>	IN.			
13. DRAW DOWN FOR ENABLER FLOAT IN FEZ	<u>3.6</u>	IN.	<u>3.6</u>	IN.			
14. CONTROL PANEL (MAKE & MODEL #)	<u>ORWENCO Systems</u> <u>DAXI PT ECT</u>		<u>ORWENCO</u> <u>DAXI PT ECT</u>		<u>BNM</u>		
(A) ALARM FLOAT SWITCH ON A SEPARATE CIRCUIT			<u>YES</u>	NO			
(B) OVERRIDE FLOAT SWITCH FUNCTIONS PROPERLY			<u>YES</u>	NO			
(C) ALTERNATOR FUNCTIONS PROPERLY			<u>YES</u>	NO			
(D) PUMPS INDIVIDUALLY PROTECTED BY SEPARATE CIRCUIT BREAKERS OR FUSES			<u>YES</u>	NO			
(E) AN EVENT COUNTER OR FLOW MEASURING DEVICE PROVIDED * Initial Setting	<u>YES</u>	NO	<u>YES</u>	NO			* Pump #1: <u>14/57</u> * Pump #2: <u>24/57</u>
15. 4" SOLID CONCRETE BLOCK(S) UNDER EACH PUMP OR EQUIVALENT CONSTRUCTION PROVIDED	<u>YES</u>	NO	<u>YES</u>	NO			
16. SURFACE DRAINAGE DIRECTED AWAY FROM PUMP STATION & SEPTIC TANK	<u>YES</u>	NO	<u>YES</u>	NO			

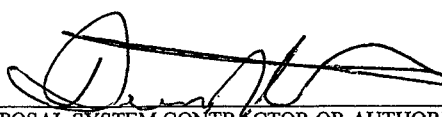
SEE OTHER SIDE OF INSPECTION SHEET FOR CONTRACTOR CERTIFICATION

* NOTE: THIS STATEMENT MUST BE COMPLETED AND SIGNED

I, DAVID HOLT, DO HEREBY CERTIFY THAT THE SEWAGE PUMPS INSTALLED ON THIS
(PRINT NAME OF CONTRACTOR)

LOT ARE N140 ZOLLER AND THAT THE PUMP STATION IS CONSTRUCTED IN
(PRINT MAKE & MODEL # OF PUMPS)

ACCORDANCE WITH THE APPROVED PLANS.

DATE: 9-14-07 
(SIGNATURE OF SEWAGE DISPOSAL SYSTEM CONTRACTOR OR AUTHORIZED AGENT)

DATE: 9-14-07 K.A. Cyrol
(SIGNATURE OF ENVIRONMENTAL HEALTH SPECIALIST)

ADDITIONAL COMMENTS:

Flow Equalization Calculations

229 Seneca Road, Great Falls, VA

PVC Nominal Pipe Diameter	2"	3"	4"
PVC Actual Pipe Diameter	2.067	3.216	4.134

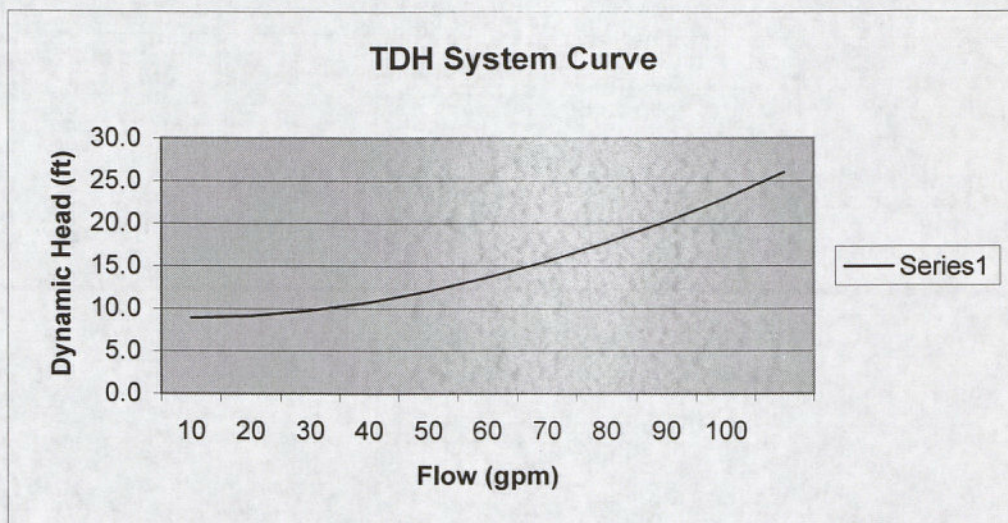
Number of Bedrooms	6
Volume Pumped per Day	540 gal/day
Volume Pumped per Cycle	135 gal
Pump Chamber Manufacturer	Hanover
Pump Chamber Size	3000 MJ
Length	135.5 in
Width	63.5 in
Liquid Depth	82 in
Gallons per inch	37.2 gal/in
Enabler Float Drawdown	3.6 in
Pump Selected	Zoeller N-140
"Off" Float Height	24.0 in
Required Flow Equalization Zone	1800 gal
Actual Flow Equalization Zone	48.3 in
Inches of Storage Above Alarm	9.7 in
Gallons of Storage Above Alarm	360.2 gal
Force Main Diameter	2.067 in

Equivalent Length Estimates

Elements	2"	Number	Equivalent Length	3"	Number	Equivalent Length
Pipe Length	1	34.5	34.5	1	0	0
90° Fitting	9	2	18	12	0	0
45° Fitting	4	0	0	6	0	0
Tees	11	1	11	17	0	0
Couplings/Disconnects	2	1	2	4	0	0
Check Valve	17	1	17	26	0	0
Gate Valve	1.5	1	1.5	2	0	0
Ball Valve	54	0	0	86	0	0
FDV (2" or 3" to 4" Enlargement)	3.5	1	3.5	5	0	0
			87.5			0

Equivalent Length of Force Main	87.5 ft
Static Head	8.9 ft
Selected Pump Flow Rate	71 gpm
Drawdown Time @ Pump Flow	114.1 sec

Total Dynamic Head @	0	8.9
Total Dynamic Head @	10	9.1
Total Dynamic Head @	20	9.8
Total Dynamic Head @	30	10.7
Total Dynamic Head @	40	12.0
Total Dynamic Head @	50	13.7
Total Dynamic Head @	60	15.6
Total Dynamic Head @	70	17.8
Total Dynamic Head @	80	20.2
Total Dynamic Head @	90	23.0
Total Dynamic Head @	100	26.0



RECEIVED
JAN 11 2007

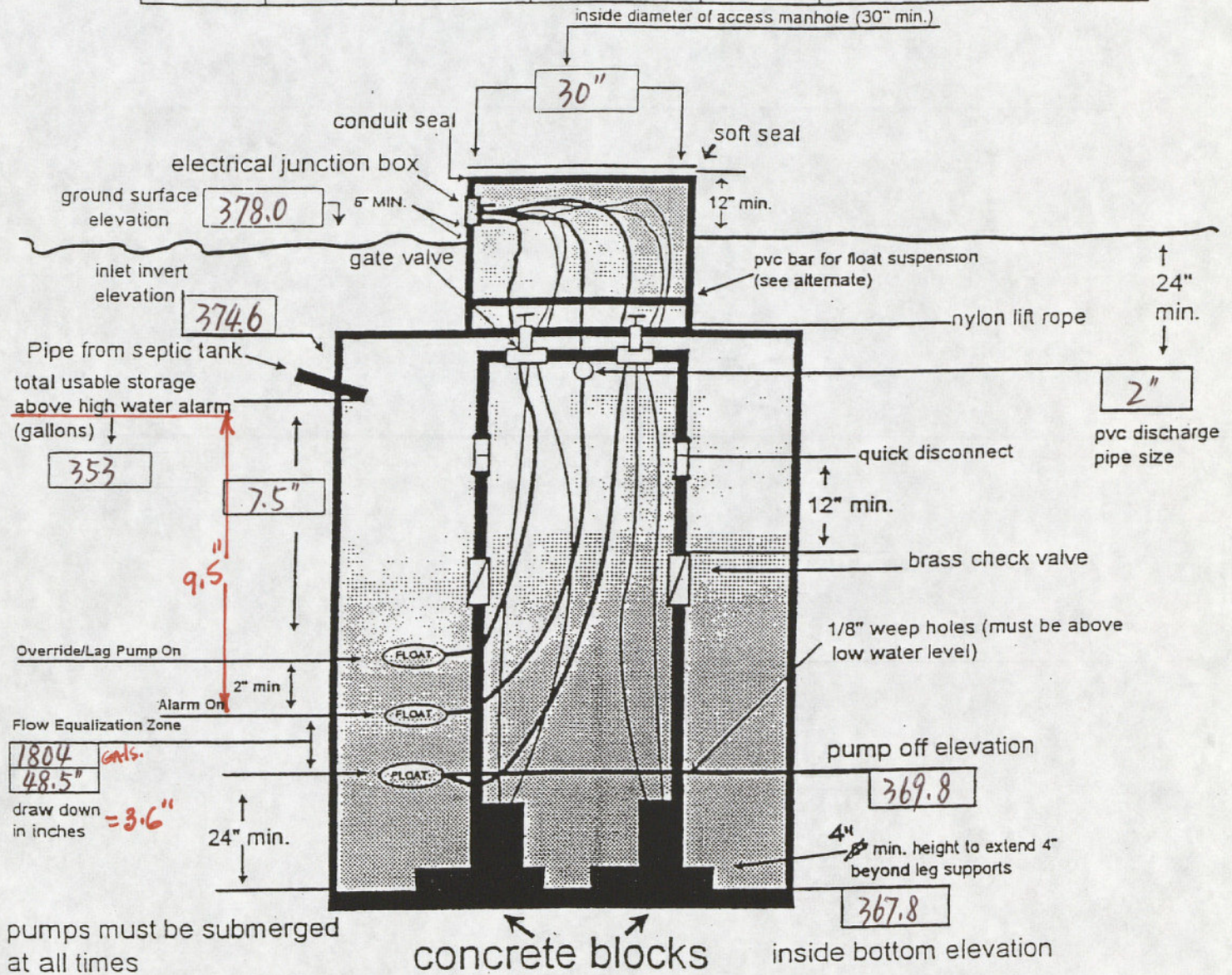
FAIRFAX COUNTY DIVISION OF ENVIRONMENTAL HEALTH
SEWAGE EFFLUENT PUMP CALCULATIONS
FLOW EQUALIZATION SYSTEMS

Plans prepared by: R.C. Fields Jr & Assoc. Permit Holders Name: Raja Tariq Mahmood
Address: 730 S. Washington St. Property Address: 229 Seneca Road
Alexandria, VA 22314 Great Falls, VA 22066
Phone: 703-549-6422 Subdivision: Seneca Farms
Date: 01/08/07 No. of Bedrooms: 6 Tax Map ID: #002-2-02-0014

- ✓ 1. 540 Gallons (Average Daily Flow) to be dosed in 4-cycles every six hours.
(See Table/Chart of Dosing Volumes for Flow Equalization)
- ✓ 2. 135.0 Dosing Volume to be pumped each cycle.
(See Table/Chart of Dosing Volumes for Flow Equalization)
- ✓ 3. 3,000 Tank size in gallons.
- ✓ 4. 37.2 Gallons per inch of tank.
- ✓ 5. 3.6 Inches drawdown per cycle (Enabler float switch zone).
- ✓ 6. 353 Gallons storage above Alarm float switch ($\frac{1}{4}$ day required)
- ✓ 7. 8.9' Feet of static lift
- ✓ 8. 2" Inches diameter of discharge pipe (2" minimum PVC)
- ✓ 9. 34.5 Feet length of discharge pipe
- ✓ 10. 84.5 Feet equivalent length of pipe
- ✓ 11. 11.5 Feet of TDH at 40 g.p.m. minimum
- ✓ 12. 18.1 Feet of TDH at 80 g.p.m. maximum
- ✓ 13. Drawdown time: 3 minutes 23 seconds at 40 g.p.m.
1 minutes 42 seconds at 80 g.p.m.
- ✓ 14. Recommended pump(s): #1 Make ZOELLER Model# N140
71 g.p.m. at 17 feet TDH
115 volts 1 phase 1 horsepower
#2 Make MYERS Model# DE-50
65 g.p.m. at 15.5 feet TDH
- ✓ 15. Control Panel: Make ORENCO SYSTEMS Model# DAX1PTROCT
115 volts 1 phase 1 max. horsepower

HEALTH DEPARTMENT COPY

GALLONS	INSIDE DIMENSIONS (INCHES)			GAL/IN	MANUFACTURER
	LENGTH	WIDTH	LIQ. DEPTH		
3,000	135.5	63.5	82	37.2	Hanover Precast (MJ)



NOTE: FLOATS MUST BE INSTALLED AS NOT TO BE DISTURBED BY WASTEWATER ENTERING THE TANK



COUNTY

Onsite Sewage and Water Section
10777 Main Street, Suite 102
Fairfax, Virginia 22030-6903

Telephone: (703) 246-2201 Fax: (703) 278-8157

TDD: (703) 591-6435

SAMPLE

RECOMMENDED TABLE/CHART TO SHOW SQUARE FEET OF DWELLING WHEN
SUBMITTING SITE / GRADING PLAN FOR BUILDING PERMIT PROCESSING. THE ONLY
AREAS THAT ARE NOT FIGURED INTO THIS CALCULATION ARE THE GARAGE
PARKING AREA AND CRAWL SPACES

BUILDING LEVELS		SQUARE FEET OF DWELLING
BASEMENT		1550
FIRST FLOOR		3500
SECOND FLOOR		3250
OTHER		750

TOTAL = 9050

Fairfax County Code Chapter 68.1 adopted August 1, 2003.

Section 12 VAC 5-610-670. "Sewage flows" is adopted with the following changes.

The sewage disposal system for a dwelling greater than 7,500 square feet of building area, excluding the garage, shall be designed as a pumping system utilizing flow equalization by time dosing with the flow equalization zones equal to twice the daily flow, a septic tank sized 50% larger than the design described in section 12 VAC 5-610-815, and the installation of a flow measurement devise.



COUNTY

Onsite Sewage and Water Section

10770 Main Street, Suite 102

Fairfax, Virginia 22030-6903

Telephone: (703) 246-2201 Fax: (703) 278-8157

TDD: (703) 591-6435

TABLE/CHART OF DOSING VOLUMES FOR FLOW EQUILIZATION WHEN DWELLINGS EXCEED 7,500 SQUARE FEET IN TOTAL LIVING AREA

BEDROOMS	PEAK FLOW (GPD)	AVG. DAILY FLOW (GPD)	DOSING VOL (GPC)
3	450	270	67.5
4	600	360	90.0
5	750	450	112.5
6	900	540	135.0
7	1050	630	157.5
8	1200	720	180.0

*GPC – Gallons per cycle. In 24-hours there will be 4-cycles every 6-hours set on the time dosing control panel. For example, 67.5 GPC x 4 cycles per day = 270 GPD (the average daily flow being dosed to one-half of the drainfield trench area for a 3-bedroom dwelling).

SIZING THE PUMP STATION FOR A FLOW EQUILIZATION SYSTEM

Example – 4-bedroom dwelling with 7,500 square feet + living area

Start with doubling the flow equalization zone (see diagram of pump station). A 4-bedroom dwelling has a peak flow of 600 gpd, therefore the equalization zone must be able to hold 1200 gallons. The first 24" of a pump station or "DEAD ZONE" is reserved for covering the pumps and is not considered in the calculation since the enabler float is located above the pumps. Whatever tank you specify must be sized to hold the 1200 gallons in the flow equalization zone + the "DEAD ZONE" volume + the 2" between the alarm float and override float + storage volume above the override equal to at least 25% of the peak flow volume or 150 gallons for a 4-bedroom system.

FAIRFAX COUNTY HEALTH DEPARTMENT
SEPTIC TANKS, PUMP STATIONS, HOLDING TANKS
APPROVED FOR RESIDENTIAL, INDUSTRIAL AND COMMERCIAL USE

Revised 05/22/2006

ManufName	TypeVessel	GallonSize	LengthOut/In	WidthOut/In	HeightOut	LiqDepth	Gals/Inch	MaxCover
BEASLEY	Septic Tank or Pump Statn	1000(1013)	8.50'/7.92'	4.71'/4.13'	5.88'(70.5")	4.17'(50")	20.3	3.00'(36")
(same as above)	Septic Tank or Pump Statn(TJ) ¹	1000(1148)	8.83'/8.25'	4.96'/4.38'	5.62'(67.5")	4.50'(54")	21.3	*See Note Below
(same as above)	Septic Tank or Pump Statn(TB) ²	1000(1148)	8.83'/8.25'	4.96'/4.38'	5.82'(70") (7" Top)	4.50'(54")	21.3	3.00'(36")
(same as above)	Septic Tank or Pump Statn(MJ)	1250(1309)	9.50'/9.00'	5.00'/4.42'	6.08'(73") (4" Top)	4.42'(53")	24.7	10.00'(120") (max)
(same as above)	Septic Tank or Pump Statn(TJ)	1250(1272)	9.50'/9.00'	5.08'/4.58'	5.96'(71.5") (5" Top)	4.13'(49.5")	25.7	3.00'(36")
(same as above)	Septic Tank or Pump Statn(MJ)	1500(1715)	10.00'/9.50'	5.17'/4.67'	7.00'(84") (5" Top)	5.17'(62")	27.6	3.00'(36")
(same as above)	Septic Tank or Pump Statn(TB)	2250(2097)	11.08'/10.33'	5.92'/5.25'	7.17'(86") (7" Top)	5.17'(62")	33.8	9.00'(108")
(same as above)	Septic Tank or Pump Statn(MJ) ³	2250(2195)	11.08'/10.33'	5.92'/5.33'	7.17'(86") (5" Top")	5.33'(64")	34.3	3.00'(36")
CLEARFLOW ⁴	Pump Statn(MJ)	1000 (663)	7.92'/7.25'	4.00'/3.33'	5.00'(60")	3.67'(44")	15.1	2.00'(24")
(same as above)	Septic Tank(TJ)	1000(1075)	8.96'/8.15'	4.96'/4.15'	5.92'(71")	4.25'(51")	21.1	3.00'(36")
(same as above)	Septic Tank(TJ)	1000(1147)	9.00'/8.33'	5.00'/4.33'	6.42'(77")	4.25'(51")	22.5	8.00'(96")
(same as above)	Pump Station(TJ)	1200(1237)	9.00'/8.33'	5.00'/4.33'	6.42'(77")	4.58'(55")	22.5	3.00'(36")
(same as above)	Septic Tank(TJ)	1600(1630)	10.42'/9.33'	5.75'/5.00'	6.83'(82")	4.67'(56")	29.1	8.00'(96")
(same as above)	Septic Tank(TB)	1600(1630)	10.42'/9.33'	5.75'/5.00'	6.83'(82")	4.67'(56")	29.1	8.00'(96")
(same as above)	Septic Tank(TJ)	2000(2037)	11.58'/10.81'	6.08'/5.50'	6.67'(80")	4.58'(55")	37.0	8.00'(96")
(same as above)	Septic Tank(TJ)	2000(1918)	11.58'/10.81'	6.08'/5.27'	6.17'(74")	4.50'(54")	35.5	3.00'(36")
(same as above)	Septic Tank(TJ)	2500(2376)	11.58'/10.83'	6.08'/5.33'	7.17'(86")	5.50'(66")	36.0	3.00'(36")
(same as above)	Septic Tank(MJ)	3500(3500)	14.00'/13.00'	7.00'/6.00'	8.00'(96") (6" Top)	6.00'(72")	48.6	3.00'(36")
(same as above)	Septic Tank(MJ)	5000(4667)	14.00'/13.00'	7.00'/6.00'	10.08'(121") (6" Top)	8.00'(96")	48.6	3.00'(36")
(same as above)	Septic Tank(TB)	5000(4886)	14.00'/13.00'	7.00'/6.00'	10.38'(124.5") (8" Top)	8.00'(96")	48.6	8.00'(96")

¹ (TJ)- means Top-Joint (One- piece tank with separate top section)

² (TB)- means a Traffic Load (H-20) Rating; additional reinforcing has been provided for cover and traffic situations

³ (MJ)- means Mid-Joint (Two- piece tank of equal sections, approximately)

⁴ All CLEARFLOW tanks delivered to Fairfax County can be modified for deep-buried use (up to 8' cover) and/or TB; or just 16' feet cover alone (maximum)

* The initials S & G stand for Sand and Gravel-type soil conditions; A - This symbol signifies that the tank can be designed with a center baffle wall for wet sandy soil conditions.

FAIRFAX COUNTY HEALTH DEPARTMENT
SEPTIC TANKS, PUMP STATIONS, HOLDING TANKS
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								Revised 05/22/2006
ManufName	TypeVessel	GallonSize	LengthOut/In	WidthOut/In	HeightOut	LiqDepth	Gals/Inch	MaxCover
HANOVER PRECAST	Septic Tank or Pump Statn(MJ)	1000(1063)	8.25'/7.64'	5.17'/4.56'	5.75'(69") (4" Top)	4.08'(49")	21.7	24" (S & G)* 27" (Wet Clay)
(same as above)	Septic Tank or Pump Statn(TJ)	1000(1057)	8.25'/7.63'	5.17'/4.54'	5.92'(71") (6" Top)	4.08'(49")	21.6	55" (S & G) 60" (Wet Clay)
(same as above)	Septic Tank or Pump Statn(TJ)	1000(1057)	8.25'/7.63'	5.17'/4.54'	6.08'(73") (8" Top)	4.08'(49")	21.6	97" (S & G) 106" (Wet Clay)
(same as above)	Septic Tank or Pump Statn(MJ)	1250(1287)	9.67'/9.00'	5.17'/4.50'	5.92'(71") (4" Top)	4.25'(51")	25.2	22" (S & G) 24" (Wet Clay)
(same as above)	Septic Tank or Pump Statn(TJ)	1250(1252)	9.67'/9.04'	5.25'/4.63'	5.83'(70") (6" Top)	4.00'(48")	26.1	52" (S & G) 57" (Wet Clay)
(same as above)	(same as above) Δ	(same as above)	(same as above)	(same as above)	6.08'(73") (8" Top)	(same as above)	(same as above)	93" (S & G) 101" (Wet Clay)
(same as above)	Septic Tank or Pump Statn(MJ)	1500(1482)	9.67'/9.08'	5.25'/4.67'	6.42'(77") (4" Top)	4.67'(56")	26.5	21" (S & G) 23" (Wet Clay)
(same as above)	Septic Tank or Pump Statn(TJ)	1500(1489)	9.67'/9.00'	5.25'/4.58'	6.67'(80") (6" Top)	4.83'(58")	25.7	48" (S & G) 52" (Wet Clay)
(same as above)	(same as above) Δ	(same as above)	(same as above)	(same as above)	6.83'(82") (8" Top)	(same as above)	(same as above)	85" (S & G) 93" (Wet Clay)
(same as above)	Septic Tank or Pump Statn(MJ)	2000(2040)	12.00'/11.17'	6.00'/5.33'	6.58'(78") (5" Top)	4.58'(55")	37.1	69" (S & G) 75" (Wet Clay)
(same as above)	Septic Tank or Pump Statn(TJ)	2000(2046)	12.00'/11.29'	6.00'/5.29'	6.75'(81") (8" Top)	4.58'(55")	36.4	8.00'(96")
(same as above)	Septic Tank or Pump Statn(MJ)	2500(2541)	12.00'/11.17'	6.00'/5.29'	7.58'(91") (5" Top)	5.75'(69")	36.4	27" (S & G) 29" (Wet Clay)
(same as above)	Septic Tank Only (TJ)	2500(2568)	12.00'/11.29'	6.00'/5.29'	7.58'(94") (8" Top)	(same as above)	37.2	8.00'(96")
(same as above)	Pump Statn Only (TJ)	2500(2877)	16.00'/15.21'	8.00'/7.21'	5.50'(66") (8" Top)	3.50'(42")	68.5	8.00'(96")
(same as above)	Septic Tank or Pump Statn (MJ)	3000(3051)	12.00'/11.29'	6.00'/5.29'	8.75'(105") (5" Top)	6.83'(82")	37.2	27" (S & G) 29" (Wet Clay)
(same as above)	Septic Tank & Pump Statn(TJ)	3000(3347)	16.00'/15.21'	8.00'/7.21'	6.08'(73") (8" Top)	4.08'(49")	68.3	8.00'(96")
(same as above)	(same as above)	4000(4167)	(same as above)	(same as above)	7.08'(85") (8" Top)	5.08'(61")	68.3	(same as above)
(same as above)	(same as above) Δ	5000(4987)	(same as above)	(same as above)	8.08'(97") (8" Top)	6.08'(73")	68.3	(same as above)
(same as above)	Septic Tank or Pump Statn (MJ)	6500(6792)	16.00'/15.38'	8.00'/7.38'	10.08'(121") (9" Top)	8.00'(96")	70.8	42" (S & G) 46" (Wet Clay)

FAIRFAX COUNTY HEALTH DEPARTMENT
SEPTIC TANKS, PUMP STATIONS, HOLDING TANKS
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Revised 05/22/2006

ManufName	TypeVessel	GallonSize	LengthOut/In	WidthOut/In	HeightOut	LiqDepth	Gals/Inch	MaxCover
ME PRODCUTS (formerly TAPP)	Septic Tank & Pump Statn(MJ)	1125(1112)	8.58'/8.08'	4.75'/4.25'	5.83'(70")	4.33'(52")	21.6	3.67'(44")
(same as above)	(same as above)	1250(1427)	9.50'/9.00'	5.00'/4.50'	6.17'(74")	4.71'(56.5")	25.5	(same as above)
(same as above)	(same as above)	1500(1729)	10.00'/9.45'	5.50'/4.66'	6.83'(82")	5.25'(63")	27.4	(same as above)
(same as above)	(same as above)	1875(1935)	10.00'/9.45'	5.50'/4.66'	7.50'(90")	5.88'(70.5")	27.4	(same as above)
(same as above)	Septic Tank or Pump Statn(TJ)	1250(1310)	10.00'/9.50'	5.25'/4.75'	5.67'(68") (4" Top)	4.08'(49")	26.7	3.67'(44")
(same as above)	(same as above)	1500(1555)	11.75'/11.25'	5.25'/4.75'	5.67'(68") (4" Top)	4.08'(49")	31.7	3.67'(44")
ROTONDO	Septic Tank(TJ)	3500(3590)	17.00'/16.00'	7.00'/6.00'	7.17'(86") (8" Top)	5.00'(60")	59.8	5.00'(60")
WINCHESTER BLDG. CO.	Septic Tank or Pump Statn (MJ)	1000(1060)	8.58'/8.00'	4.75'/4.17'	5.83'(70") (4.5" Top)	4.25'(51")	20.8	5.00'(60") Max. Cover
(same as above)	(same as above)	1250(1298)	9.50'/8.83'	5.00'/4.33'	6.17'(74") (4.0" Top)	4.54'(54.5")	23.8	(same as above)
(same as above)	(same as above)	1500(1517)	9.67'/9.00'	5.25'/4.75'	6.58'(79") (4.0" Top)	4.92'(59")	25.7	(same as above)
(same as above)	Septic Tank or Pump Statn (TJ)	1000(1017)	9.00'/8.00'	5.00'/4.00'	6.08'(73") (6.0" Top)	4.25'(51")	19.9	(same as above)
(same as above)	Septic Tank or Pump Statn (TJ & H-20 Rated)	1000H(1017)	(same as above)	(same as above)	6.25'(75") (8.0" Top)	4.25'(51")	(same as above)	5.00'(60") θ
(same as above)	Septic Tank or Pump Statn (TJ)	1250(1389)	9.08'/8.83'	5.42'/4.67'	6.25'(75") (5.0" Top)	4.5'(54")	25.7	5.00'(60")
(same as above)	Septic Tank or Pump Statn (TJ)	1500(1552)	10.17'/9.17'	5.75'/4.75'	6.58'(79") (6.0" Top)	4.75'(57")	27.2	(same as above)
(same as above)	Septic Tank or Pump Statn (TJ & H-20 Rated)	1500H(1552)	(same as above)	(same as above)	6.92'(83") (8.0" Top)	(same as above)	(same as above)	5.0'(60") θ

FAIRFAX COUNTY HEALTH DEPARTMENT
SEPTIC TANKS, PUMP STATIONS, HOLDING TANKS
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Notes:

Revised 05/22/2006

1. This symbol (Θ) denotes that the tanks may be rated for a maximum cover greater than 5' (60") since they have traffic bearing tops. The designer/engineer must contact the manufacturer to confirm what maximum depth of fill they are rated for and what type of soil conditions prevail in the immediate, proposed tank location for their project.
2. Winchester Building Supply Company Inc. does make grease traps and Advantex tanks that are Top Joint and can be H-20 top rated, if requested. The only sizes presently in their inventory are 1000 gallons and 1500 gallons. All these tanks have been reviewed and sanctioned by the Commonwealth of Virginia, Department of Health, in Richmond under GMP # 120. Special Note: Their distributions boxes DO NOT meet minimum criteria standards under the Sewage Handling and Disposal Regulations and are NOT approved for use in Fairfax County.
3. ROTONDO is an out of state manufacturer. Obtaining tanks from this company may present logistic problems for the owner or contractor.
4. Hanover Precast provides optional top designs to their tanks. E-Z Set Risers (plastic) by E-Z Set Company can be installed at the manufacturer and are approved for use with precast concrete septic tanks or pump stations using ConSeal CS-102 sealant.
5. Maximum cover allowed over any tank in Fairfax County under the County Code, Chapter 68.1, Section 12 VAC 5-610-815 is 48 inches (4'). The tanks listed with cover exceeding 48 inches (4') are only provided for your information when existing septic systems need repair or replacement and where existing building sewers can not be moved. The new replacement tank must be located deeper to facilitate proper gravity fall from the existing building sewer.

Septic Tank & Pump Station Manufacturers Using Alternative Materials – Special Site Conditions Only

AK Industries Polyethylene 1000 Gallon Septic Tank only (Refer to GMP#77 of VDH); Maximum Cover Not to Exceed 24 inches; Special Circumstances ONLY.
E-Z SET Polyethylene 1200 Gallon Septic Tank Model # STT-1200; Maximum Cover Not to Exceed 30 inches; Special Circumstances in Fairfax County ONLY.
FRALO Plastech Manufacturing, LLC (SEPTTECH™ Septic Tanks) – Polyethylene Septic Tank Model ST-750 is approved ONLY when an effluent filter (NSF certified) is attached. Models ST-1000, ST-1250 & ST-1500 do not require effluent filters (See GMP #133). Maximum cover over all tanks not to exceed 36". Refer to GMP #129 for detail information on the tanks. Must follow manufacturer specifications for installation.
NORWESCO Polyethylene Septic Tanks – Refer to GMP #40(VDH) for details on which tanks can be used and the sizes available; Special Circumstances ONLY.
ORENCO Fiberglass-reinforced polyester (FRP) Injection Molded Septic Tanks (Model # T1000(1000 gallons) & T1500(1500 gallons) w/baffle are approved for use by VDH under GMP #114 and are the preferred tank when using the Advantex Treatment System (Still under Provisional approval); Approved for 48" burial depth when empty & even in high water areas.
SNYDER INDUSTRIES, INC. – Polyethylene Septic Tanks (750, 1050, 1250 & 1500 gallons); Maximum Cover Not to Exceed 24 inches; Special Circumstances ONLY.
XACTICS Polyethylene Septic Tanks – Models # 142800(750 gal.), 143400(920 gal.), 143600(1000 gal.), 143605(1000 gal.) & 145500(1500 gal.) (Refer to GMP#76); Note: 36" Top Burial Depth; Special Circumstances ONLY; Note: Models # 144850 (1050 gal.) & #144700(1250 gal.) is also acceptable...

* **Special Note:** The above listed manufacturers may have other septic tanks in their inventory or can make tanks to address specific conditions unique to a particular job site. These tanks can not be considered for use in Fairfax County until detailed drawings and specifications are submitted for review and approval by the Fairfax County Health Department.

"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 16347 • Louisville, KY 40256-0347
SHIP TO: 3649 Cane Run Road • Louisville, KY 40211-1961
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FM1502

0305

Supersedes

0904

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COMPARE THESE FEATURES

- Durable Cast Iron construction.
- Non-Clogging engineered thermoplastic vortex impeller design, passes 1/2" spherical solids.
- Motor - 60 Hz, 3450 RPM, oil-filled, hermetically sealed, automatic reset, thermal overload protected.
- Available in both single or double shaft seal designs.
- Carbon/Ceramic seals.
- Assembled with Stainless Steel bolts.
- Upper sleeve and lower ball bearing running in bath of oil.
- 20 ft. UL Listed Neoprene cord with molded plug cap and ground wire.
- 1 1/2" NPT vertical discharge.
- Stainless steel lifting handle.
- BN and BE models include a variable level float switch and 1 1/2" X 2" PVC adapter fitting.
- Operates at temperatures to 130°F (54°C) in effluent or dewatering applications.
- Corrosion resistant powder coated epoxy finish.

Note: The sizing of effluent systems normally requires variable level float(s) controls and properly sized basins to achieve required pumping cycles or dosing timers with nonautomatic pumps.

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Manufacturers of . . .

"QUALITY PUMPS SINCE 1939"

140 / 4140 Cast Iron Series

(For Pump Prefix Identification see News & Views 0052)

"FLOW-MATE"

FOR SEPTIC TANK - LOW PRESSURE PIPE (LPP)

AND ENHANCED FLOW STEP SYSTEMS

EFFLUENT
OR DEWATERING PUMPS
SUBMERSIBLE
1 1/2" NPT DISCHARGE



Model BN140
Single Seal
Pump



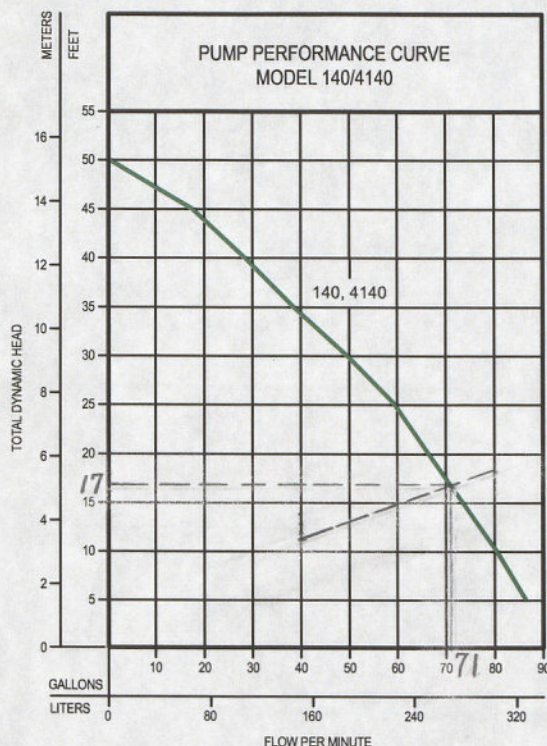
Model 140
Single Seal
Pump



Model 4140
Double Seal
Pump

MODELS AVAILABLE

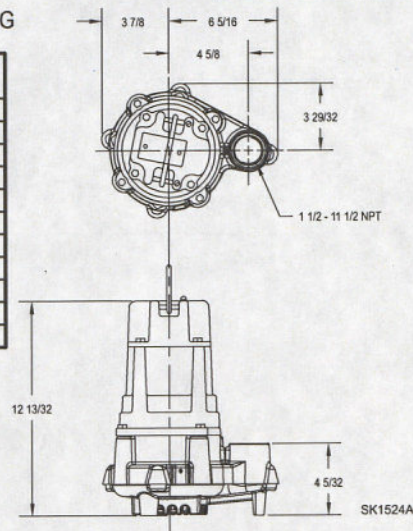
- Automatic (Models BN & BE)
- Nonautomatic
- 1 HP, 1Ph 115V or 230V



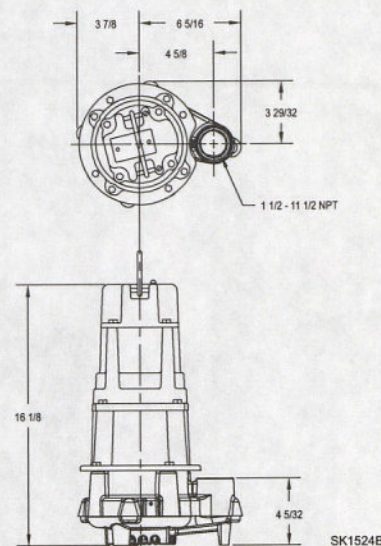
**TOTAL DYNAMIC HEAD/FLOW
PER MINUTE
EFFLUENT AND DEWATERING**

MODEL		140/4140	
Feet	Meters	Gal.	Liters
5	1.5	86	326
10	3.0	80	303
15	4.6	73	276
20	6.1	66	250
25	7.6	59	223
30	9.1	49	185
35	10.7	38	144
40	12.2	28	106
45	13.7	17	64
Shut-off Head:		50 ft. (15.2m)	

**Single Seal Design
Weight 43 lbs.**



**Double Seal Design
Weight 63 lbs.**



CONSULT FACTORY FOR SPECIAL APPLICATIONS

- Electrical alternators, for duplex systems, are available and supplied with an alarm.
- Mechanical alternators, for duplex systems, are available with or without alarms.
- Control alarm systems are available for 1 phase pumps used in simplex system. See FM0732.
- Variable level control switches are available for controlling single phase systems.
- Double piggyback variable level float switches are available for variable level long cycle controls.
- Sealed Qwik-Box available for outdoor installations. See FM1420.
- Refer to FM0806 for applications above 130°F (54°C).

140/4140 MODELS					Control Selection		
Model	Model	Volts-Ph	Mode	Amps	Simplex	Duplex	
N140	N4140	115	1	Non	12.0	1 or 2	3
E140	E4140	230	1	Non	6.0	1 or 2	3
BN140	BN4140	115	1	Auto	12.0	*	---
BE140	BE4140	230	1	Auto	6.0	*	---

*Single piggyback switch included.

SELECTION GUIDE

1. For automatic use single piggyback variable level float switch or double piggyback variable level float switch. Refer to FM0477.
2. See FM1228 for correct model of simplex control panel.
3. See FM0712 for correct model of duplex control panel.

CAUTION

All installation of controls, protection devices and wiring should be done by a qualified licensed electrician. All electrical and safety codes should be followed including the most recent National Electric Code (NEC) and the Occupational Safety and Health Act (OSHA).

RESERVE POWERED DESIGN

For unusual conditions a reserve safety factor is engineered into the design of every Zoeller pump.



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Manufacturers of..

"QUALITY PUMPS SINCE 1939"



Pentair Water

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DE Series

4/10 and 1/2 HP Stainless Steel Continuous Duty Effluent Pump

[Download Product Manual](#)DE
SERIES

Features and Benefits

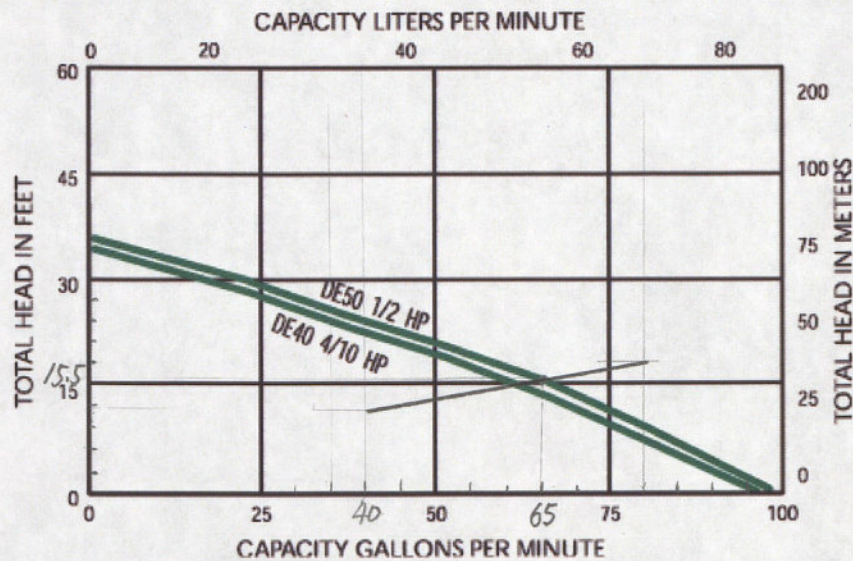
- Pumps up to 97 GPM (1/2 HP) and 92 GPM (4/10 HP)
- PSC motor with self-lubricating ball-bearing construction
- Tethered float switch
- Double-lip seal with ceramic wear surface
- Suitable for continuous use
- Includes 90 degree discharge elbow



DESIGNED TO QUICKLY CLEAR WATER OR EFFLUENT. IDEAL FOR RESIDENTIAL AND COMMERCIAL APPLICATIONS.

Product Capabilities

Capacities	97 GPM	367 LPM
Shut-Off Head	36 ft.	11 m
Max. Spherical Solids	1-1/2 in.	38 mm
Liquids Handling	domestic effluent and drain water	
Continuous Liquid Temp.	130°C	54°C
Motor Electrical Data	4/10-1/2 HP, 115V; 4/10 HP, 10.5A; 1/2 HP, 12A; 60Hz	
Acceptable pH Range	5-9	
Specific Gravity	.9-1.1	
Viscosity	28-35 SSU	
Discharge, NPT	2 in.	50 mm
Housing	stainless steel	
Minimum Sump Diameter		
Simplex:	18 in.	46 cm
Duplex:	24 in.	60 cm
Power Cord	20 ft., SJOW, 16 AWG	

[WHR Series](#)[WHRH-WHR20H Series](#)**Sewage Package Systems**[CMV1830](#)[MRJ](#)[SR1830](#)**Grinder Pumps**[MRG20](#)[MRG20 Grinder Pump Systems](#)[MRGD200 NEW](#)[MRGD300 / MRGD500 / MRGD750 Series NEW](#)[Turnkey Simplex Basin Package NEW](#)**Non-Clog Sewage Pumps**[3MW Series](#)[3WHV Series](#)[4MSW / 4MSWH / 6MSW Series NEW](#)**Centrifugal Pumps**[12C Series - 2 Stage Centrifugal NEW](#)[Centri-Thrift NEW](#)[CT Series NEW](#)[MDPC Series NEW](#)[MPB Series NEW](#)[MV Multi-Stage Vertical NEW](#)[PQP Series NEW](#)**Jet Pumps**[Convertible Jet Pumps](#)[MFL Series](#)[Convertible Jet Pumps](#)[MPL Series](#)[MFL Series](#)[MFN Series NEW](#)[MFNCP42 Series](#)[MPL Series](#)[MPN Series NEW](#)**Submersible Well Pumps and Controls**[PRO-Source™ K-Series](#)[PRO-Source™ Epoxy-Lined](#)[PRO-Source™ PLUS KS-Series](#)[PRO-Source™ PLUS KSS-Series](#)[Submersible Motor Controls](#)**Well Tanks**[PRO-Source™ Steel Pressure Tanks](#)**Product Performance Chart**

Orenco Systems®, Inc.

Changing the Way the World Does Wastewater®

online product catalog

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Product Catalog | Document Library

Catalog Index

Orenco Systems
IncorporatedProduct
Search

Begin Search

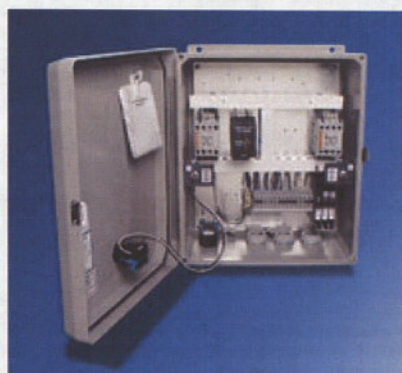
Choose A Product Family

Choose A Product

Control Panels,
Alarms and Floats

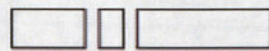
Previous Product

Next Product

**DAX Series Duplex Control Panels**

Duplex control panels can be used in pressure sewer and onsite treatment systems that require the use of two alternating pumps. The pair of pumps can be wired for both "lead" and "lag" operation; a built-in alternating relay switches the "lead" and "lag" positions each pump cycle.

Note: Orenco's A, S, and DAX series of standard electromechanical control panels are specifically designed for use with effluent pumping and onsite treatment systems, when pumping from point "A" to point "B."

Product Nomenclature

Options (should appear in the following order):

IR = intrinsically safe relay (S, DAX only)
 PT = programmable timer (S, DAX only)
 RO = redundant off
 CS = current sensor (S, DAX only)
 DS = disconnect switch
 RA = remote alarm (dry contact)
 TS = test switch
 HT = heater
 ETM = elapsed time meter
 CT = counter
 PRL = pump run light
 PL = power light
 SA = surge arrestor

Pump voltage:*

1 = 120 VAC

2 = 240 VAC

Panel series:

A = simplex alarm panel

S = simplex control panel

DAX = duplex alternating control panel

* All panels require 120 VAC for the controls

Product Example

Model Code

DAX1PTRO

Description

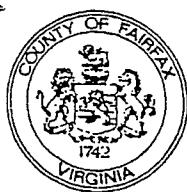
Duplex Control Panel, DAX Series, 120V, programmable timer, redundant off

Related Products

Float Switch Assemblies

MVP-DAX Series Duplex Control Panels

284.4
GEOL



WELL ABANDONMENT PERMIT

FAIRFAX COUNTY HEALTH DEPARTMENT

Division of Environmental Health

10777 Main St. Suite 102B., Fairfax, VA 22030

Permit #129- 129-06-0871

Owner's Name RAJA TARIQ Phone # _____

Mailing Address 229 SENECA RD GREAT FALLS VA 22066

Street Address of Property 229 SENECA RD GREAT FALLS VA 22066

Tax Map: 2 / 0002 0000 0014 Subdivision SENECA FARMS SEC 2
Map Grid Sub Block Lot

Existing Well: Bored _____ Drilled ☒ Other _____ Depth of Grout 50' Depth of Casing 87'

NOTICE: Call this office (703-246-2201) to schedule an inspection PRIOR to beginning the grouting/filling procedure.

PROCEDURES FOR PERMANENT ABANDONMENT OF WELLS

The object of proper permanent abandonment is to prevent contamination from reaching ground water resources via the well.

1. All casing material may be salvaged.
2. Before the well is plugged, it shall be checked from land surface to the entire depth of the well to ascertain freedom from obstructions that may interfere with plugging (sealing) operations.
3. The well shall be thoroughly chlorinated prior to plugging (sealing).
- ~~4. Bored wells shall be completely filled with cement or bentonite grout.~~
5. Wells constructed in unconsolidated formations shall be completely filled with cement grout or clay slurry by introduction through a pipe initially extending to the bottom of the well. Such pipe shall be raised, but remain submerged in grout, as the well is filled.
- ~~6. Wells constructed in consolidated rock formations or which penetrate zones of consolidated rock may be filled with sand or gravel opposite the zones of consolidated rock. The top of the sand or gravel fill shall be at least five (5) feet below the top of the consolidated rock and at least twenty (20) feet below land surface. The remainder of the well shall be filled with cement grout or clay slurry.~~
7. Other abandonment procedures may be approved by the Division on a case by case basis.
- ~~8. Test and exploration wells shall be abandoned in such a manner as to prevent the well from being a channel for the vertical movement of water or a source of contamination to ground water.~~

RECORD OF INSPECTION

Date of Initial Site Inspection	<u>9-15-06</u>
Date Permit Issued	<u>9-15-06</u>
Sanitarian	<u>J. C. Price</u> (signature)
Reviewed by	<u>[Signature]</u> Date <u>9-15-06</u>

Date of Abandonment	_____
Abandonment:	Satisfactory? _____ Unsatisfactory? _____
Comments	_____
Sanitarian	_____ Date _____
Reviewed by	_____

COPY

TO: DIVISION OF INSPECTIONS

DATE: 10/20/76

FROM: HEALTH DEPARTMENT

RE: NOTIFICATION OF ISSUANCE OF SEPTIC TANK PERMIT AND/OR WELL PERMIT

OWNER'S NAME: William T. Carrico, Jr. et al

File

UNDER

1390

BUILDING APPLICATION NUMBER:

SUBDIVISION: Seneca Farms SEC: 2 BLOCK: LOT: 14

TAX MAP IDENTIFICATION AND ADDRESS: 2-2-002-14

1 229 Seneca Rd

SEWAGE DISPOSAL PERMIT # 76-1057

ISSUED FOR :

WELL PERMIT ISSUED FOR :

SEWAGE DISPOSAL SYSTEM DESIGNED FOR Four (4) BEDROOMS
(ALL PERMITS FOR DWELLINGS ARE DESIGNED TO INCLUDE AUTOMATIC WASHER
& GARBAGE DISPOSAL)

RESTRICTIONS:

THE ABOVE TO BE COMPLETED IN QUADRUPLICATE EACH TIME A PERMIT IS
ISSUED. ONE COPY TO PLUMBING INSPECTION BRANCH. ONE COPY TO ELECTRI-
CAL INSPECTION BRANCH. RETAIN TWO COPIES WITH PERMIT

NOTIFICATION OF FINAL APPROVAL:

SEWAGE DISPOSAL SYSTEM

WATER SUPPLY SYSTEM

APPROVED: 7-21-77

APPROVED: 7-29-77

(SIGNATURE)

UPON FINAL APPROVAL ONE COPY TO BE FORWARDED TO PLUMBING INSPECTION
BRANCH. ORIGINAL TO BE ATTACHED TO PERMIT.

W49/3-18-74

EMERGENCY
CBW

SPECIAL HANDLING

TO: DIVISION OF INSPECTIONS

DATE: 10/20/76

FROM: HEALTH DEPARTMENT

RE: NOTIFICATION OF ISSUANCE OF SEPTIC TANK PERMIT AND/OR WELL PERMIT

Weller-Davis, Inc.

OWNER'S NAME: William T. Carrico, Jr. et al

BUILDING APPLICATION NUMBER: B0358

SUBDIVISION: Seneca Farms SEC: 2 BLOCK: LOT: 14

TAX MAP IDENTIFICATION AND ADDRESS: 2-2-002-14

Seneca Farms

SEWAGE DISPOSAL PERMIT # 76-1058

ISSUED FOR : Dwelling

WELL PERMIT ISSUED FOR: Dwelling

SEWAGE DISPOSAL SYSTEM DESIGNED FOR BEDROOMS
(ALL PERMITS FOR DWELLINGS ARE DESIGNED TO INCLUDE AUTOMATIC WASHER
& GARBAGE DISPOSAL)

RESTRICTIONS:

THE ABOVE TO BE COMPLETED IN QUADRUPLICATE EACH TIME A PERMIT IS
ISSUED. ONE COPY TO PLUMBING INSPECTION BRANCH. ONE COPY TO ELECTRI-
CAL INSPECTION BRANCH. RETAIN TWO COPIES WITH PERMIT

NOTIFICATION OF FINAL APPROVAL:

SEWAGE DISPOSAL SYSTEM

WATER SUPPLY SYSTEM

APPROVED: FDV

APPROVED:

(SIGNATURE)

UPON FINAL APPROVAL ONE COPY TO BE FORWARDED TO PLUMBING INSPECTION
BRANCH. ORIGINAL TO BE ATTACHED TO PERMIT.

W49/3-18-74

SEWAGE & WATER COMPLAINT REPORT

Date Rec'd 12/10/04

Area: 1 FILE NO: _____

Subdivision: SENECA FARMS

Tax Map #: 2-2-002-14

Location of Complaint 229 SENECA RD. GREAT FALLS, VA 22066
Street City Zip

Received by GRW [] Letter [x] Telephone [] In Person

Person Responsible For Premises DOROTHY GAWAHL (Name) (SAME) (Address) Phone Number (703) 850-8129

Complainant STEWART'S SEPTIC (Address) Phone Number 471-6659

Specific Details Of Complaint STEWART'S SEPTIC TO REPAIR:
2 DBOXES; FGV ACCESS CAP; OUTLET TEE/CONVEYANCE
* PART OF PRIVATE Y-SAVE. (4")
* CFT MIG w/STEWART'S 12/10/04 - GJ

Verbal given: TO ALBERT FOR OWNER - (MARK 850-8129) 12/10/04
To Be Investigated by A.A. Date Assigned 12/17/04

RESULTS OF INVESTIGATION

Was Complaint Justified? [x] Yes [] No
(Show Dates and Results of Investigation and Re-investigation Below.)

129-04 1391

DATE	COMMENTS	FOLLOW-UP DATE	INITIALS
12/17/04	Met Stewart's Septic onsite. S.T. outlet tee, FGV access pipe, conveyance line and both d.boxes satisfactorily replaced. Probed d.f. = dry. Repairs are approved.	FILE C	GJ

Final Disposal: [x] Abatement James J. J. J. Signature of EHS 12/17/04 Date
[] Other John M. M. Reviewed By: 2-1-2005 Date

MALFUNCTION INVESTIGATION TRACKING

FDV TYPE

B = Bull Run
F = Franklin
H = Hancor
N = None
O = Other

ABSORPTION FIELD

T = Trenches
P = Pits
B = Beds
M = Mounds
N = None
O = Other
PR = Pit Privy

METHOD OF CORRECTION

CPS = Connection to Public Sewer
MR = Mechanical Repairs
O = Other
PAH = Pump and Haul
PAR = Partial Field Replacement
SPD = Special Design System
T = Temporary
TAR = Total Field Replacement

REASON FAILURE

DA = Damage After Approval
DBD = Distribution Box Deteriorated
DBO = Distribution Box Other
DBOU = Distribution Box Out of Level
DD = Design Deficiency
FDV = Flow Diversion Valve
FIMA = Faulty Installation - Malfunction
FIME = Faulty Installation - Mechanical
ID = Improper Depth

IM = Inadequance Maintenance
O = Other
PIP = Piping Broken, Crushed, Other
PL = Poor Landscape Position
PSA = Pump System Appurtenances
PUMP = Pumps Only
SC = Soil Conditions, water Table, hard pan, etc
SCL = Soil Clogging
ST = Septic Tank Fittings
STPD = Septic Tank/Pump Chamber Deterioration, Collapse

SEWAGE DISP

PR

PU NONE

DEPTH

36"

SQFT

976

WTR: SP

PR

PU NC NONE

TANK SIZE

1480

FDV TYPE

Bull Run

YEAR SYSTEM INSTALLED

1977

(if estimated indicate w/ EST)

RESERVE USED

YES NO

ABSORPTION FIELD

Trenches

NEW/REPLACEMENT

N/A

PUMP MAKE/MODEL

DETAILS

8

LINES @

61

FEET

TYPE FAILURE

MEC MAL

MAL COMMENT 1

REASON FAILURE

DBD, FDV, ST

PERMIT ISSUED

YES NO

MAL COMMENT 2

METHOD OF CORRECTION

MR

*IF CHANGES ARE MADE TO THE EXISTING DRAINFIELD PLEASE ADD CHANGES IN APPROPRIATE BLANKS, OTHERWISE LEAVE BLANK.

Completion Statement

Commonwealth of Virginia
State Department of Health

Health Department
Identification Number 129-09-1391

Fairfax Health Department

Name of Company/Corporation/Individual: Stewart's Septic Service

Address: 421 Spring Street Telephone: (703) 471-6659

Owner's Name Dorothy Ganahl

Owner's Address 229 Seneca Rd Great Falls VA 22066

Location of Installation: Lot 14 Block -

Section: 2 Subdivision: Seneca Farms Sec. 2

Other: TM 2-2-002-14

I hereby certify that the onsite sewage disposal system has been ^{Repaired} installed and completed in accordance with the construction permit issued (date) 12/17/04 and is in compliance with Part D of the Sewage Handling and Disposal Regulations and when appropriate the plans and specifications for the project.

12/17/04

Date

[Signature]
Signature and Title

FAIRFAX COUNTY HEALTH DEPARTMENT
SEWAGE DISPOSAL SYSTEM/WELL WATER SUPPLY AS-BUILT

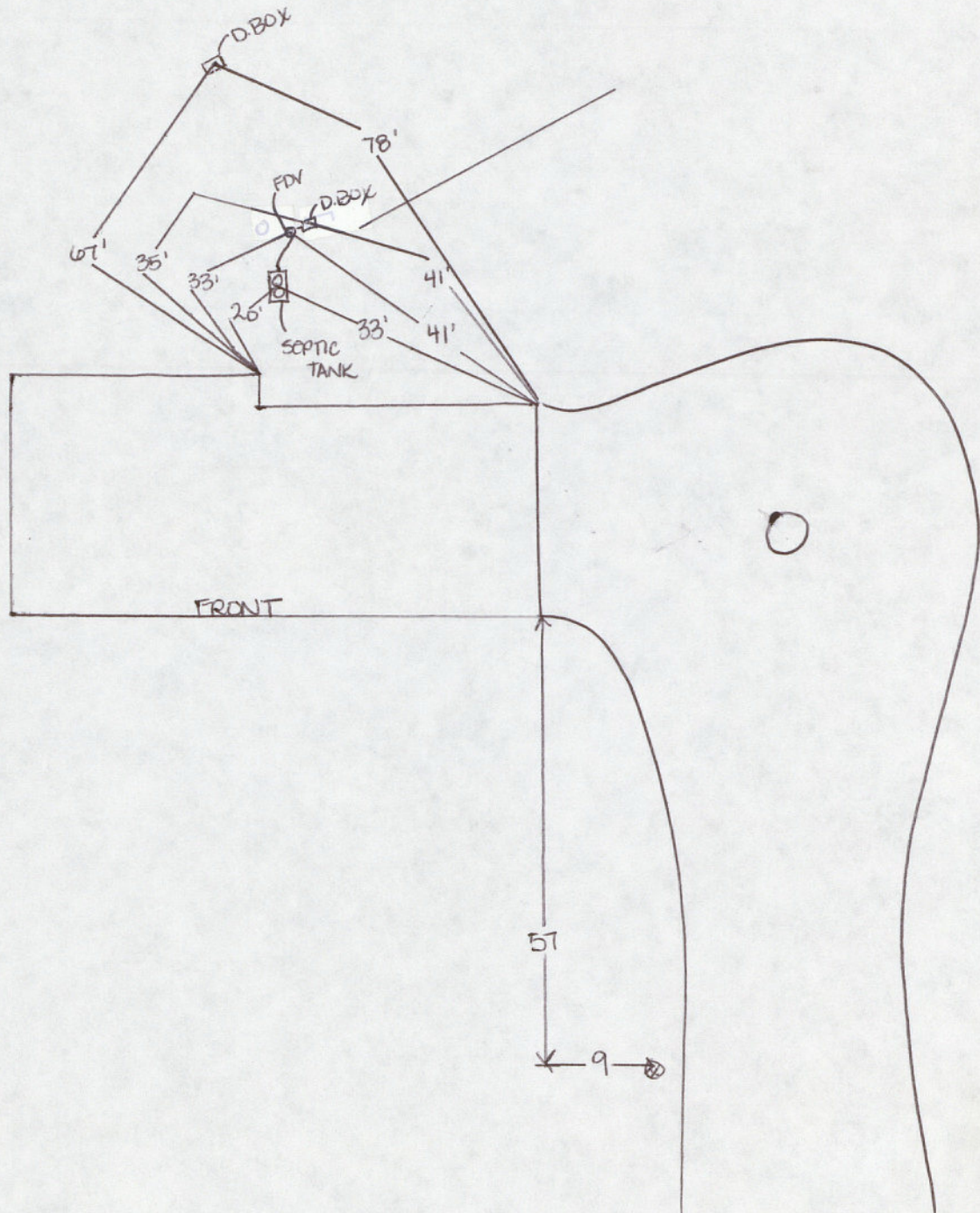
Tax Map ID: 2-2-002-14

Street Address: 229 Seneca Road

Subdivision: Seneca Farms Sec 2

City, State, Zip: Great Falls VA 22066

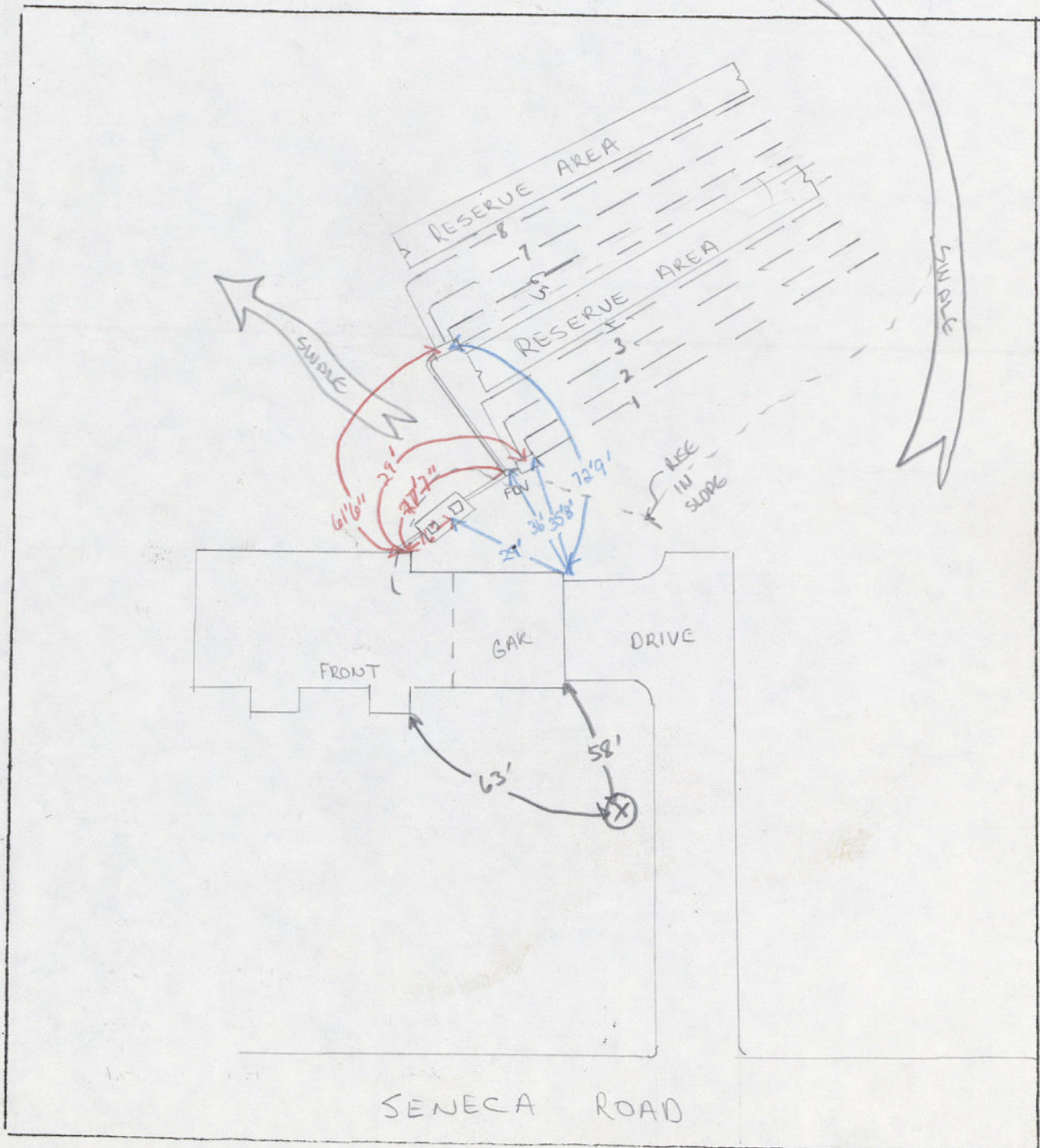
*Not to Scale



PERMIT # 76-1057

LOCATION: Seneca Farms 2-2-002-14
Subdivision or Tax Map Ref.

WATER SUPPLY AND/OR SEWAGE DISPOSAL SYSTEMS AS INSTALLED



Sketch to show location of septic tank flow diversion valve distribution boxes and well.

Water Supply and/or Sewage Disposal System Construction Permit

Commonwealth of Virginia
Department of Health

FAIRFAX COUNTY Health Department

Health Department
Identification Number 129-04-1391

Map Reference 002-2/0002/0000/0014

General Information

Water Supply System: New ☐ Repair ☐ Public ☐ FHA ☐ VA ☐ Case No. ☐
Sewage Disposal System: New ☐ Repair ☒ Expanded ☐ Conditional ☐ Public ☐
Based on the application for a sewage disposal system construction permit filed in accordance with Section 2.13 E, of the Sewage Handling and Disposal Regulations and/or Section 2.13 of the Private Well Regulations a construction permit is hereby issued to:
Owner DOROTHY GANAHL Telephone (703) 830-8129
Address 229 SENECA RD GREAT FALLS VA 22066 For a Type I Sewage Disposal System or Well to be constructed on/at 229 SENECA ROAD GREAT FALLS VA 22066
Subdivision SENECA FARMS Section/Block 2 Lot 14 Actual or estimated water use 4 Bkms

DESIGN	NOTE: SEWAGE DISPOSAL SYSTEM INSPECTION RESULTS
Water supply, existing: (describe) <u>Drilled Well</u>	Water supply location: Satisfactory yes ☐ no ☐ comments
To be installed: class <u>cased</u> <u>grouted</u>	Completion Report G. W. 2 Received: yes ☐ no ☐ not applicable ☐
Building sewer: <u>I.D. PVC Schedule 40, or equivalent.</u> Slope 1.25" per 10' (minimum). ☐ Other	Building sewer: yes ☐ no ☐ comments Satisfactory
Septic tank: Capacity <u>gals. (minimum).</u> ☐ Other	Pretreatment unit: yes ☐ no ☐ comments Satisfactory
Inlet-outlet structure: <u>PVC Schedule 40, 4" tees or equivalent.</u> ☐ Other <u>See page 2 of 2</u>	Inlet-outlet structure: yes ☒ no ☐ comments Satisfactory
Pump and pump station: <u>No</u> ☐ Yes ☐ describe and show design. if yes:	Pump & pump station: yes ☐ no ☐ comments Satisfactory
Gravity mains: <u>3" or larger I.D., minimum 6" fall per 100', 1500 lb. crush strength or equivalent.</u> ☐ Other <u>See page 2 of 2</u>	Conveyance method: yes ☒ no ☐ comments Satisfactory
Distribution box: <u>Precast concrete with 6+ ports.</u> ☒ Other <u>2 b. boxes</u>	Distribution box: yes ☒ no ☐ comments Satisfactory
Header lines: <u>Material: 4" I.D. 1500 lb. crush strength plastic or equivalent from distribution box to 2' into absorption trench. Slope 2" minimum.</u> ☐ Other	Header lines: yes ☐ no ☐ comments Satisfactory
Percolation lines: <u>Gravity 4" plastic 1000 lb. per foot bearing load or equivalent, slope 2" 4" (min. max.) per 100'.</u> ☐ Other	Percolation lines: yes ☐ no ☐ comments Satisfactory
Absorption trenches: <u>Square ft. required</u> <u>depth from ground surface to bottom of trench</u> <u>aggregate size</u> <u>Trench bottom slope</u> <u>center to center spacing</u> <u>trench width</u> <u>Depth of aggregate</u> <u>Trench length</u> <u>Number of trenches</u>	Absorption trenches: yes ☐ no ☐ comments Satisfactory

Date 12/17/04 Rep'drs only
Inspected and approved by: James Antonio
2-1-2005 Sanitarian John M. Kelly

This permit authorizes the following repairs:

- | | |
|---|--|
| ☐ Repair and/or replace sewer line. | ☐ Replace or repair force main. |
| ☐ Replacement pumps must be rated @ minimum _____ gpm
@ _____ feet of TDH. | ☒ Repair and/or replace conveyance line. |
| ☐ Replace _____ malfunctioning effluent pump(s) with equivalent
effluent pump(s). | ☒ Replace damaged flow diversion valve and/or valve stem. |
| ☐ Replace septic tank and/or pump chamber. | ☐ Replace _____ malfunctioning pump chamber float(s) and/or
_____ gate valve(s) and/or _____ check valve(s) and/or piping. |
| ☐ Replace electrical junction box of pump chamber. | ☒ Replace and/or re-charge <u>2</u> damaged distribution box(es). |
| ☐ Replace septic tank lid and/or pump chamber lid. | ☐ Reset drawdown between on and off float to _____
inches. |
| ☐ Replace alarm panel box/alarm. | ☒ Provide level dams in distribution box. |
| ☒ Replace outlet and/or inlet tee(s). | ☐ Other |

Section 68-1-29 of the Fairfax County Code requires pumping of the septic tank once every 5 years.

Note: Repairs must be made in accordance with all applicable State regulations and County codes.
All repairs must be inspected by the Fairfax County Health Department upon completion.
Contact the Fairfax County Health Department at 703-246-2201 to arrange for an inspection.

Further repairs may be required to the Sewage Disposal System if problems are identified during repairs.

This sewage disposal system is to be repaired as specified by the permit ☒ and/or attached plans and specifications ____.

This sewage disposal system repair permit is null and void if conditions are changed from those shown on the repair permit.

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

Date: 12/17/04 Issued by: Amee Antonio
Environmental Health Specialist

Date: 12/17/2004 Reviewed by: John M. Muly
Environmental Health Supervisor

ENVIRONMENTAL SERVICE SECTION
REFERRAL FORM

File

UNDER

1390

OWNERS NAME

JOSEPH GANAHL

SUBDIVISION

SENECA FARMS SECT. 2

STREET ADDRESS

229. SENECA RD. G.F. 22066

TAX MAP REFERENCE

2-2-002-14

REGISTERED

REFERRAL FROM:

JOSEPH GANAHL

DATE RECEIVED:

5-23-80

ADDRESS

229 SENECA RD G. FALLS, VA. 22066

PHONE

430-8156-8417360

SUBJECT:

We have no records of inspections on this lot. Mr. Ganahl said that he had lived in this house for 2 yrs.

Craig, do you remember doing this job. Please schedule this yourself per Mr. Shelton!

RECEIVED BY

Shelton

REFERRED TO

C. Jones

FOR INVESTIGATION

Mr. Shelton!
+ Mr. Buyer!

DATE

INVESTIGATION REPORT

RESCH

SAN

5-28-80

I do remember signing off on both the SDS & the WSS. I checked the subd. folder but nothing exists. (Must be miss filed). No one home. Permit may have been in another name. (I did not check 001 file for 2-2TM) I did AS BUILT for future records. BARN will NOT INTERFERE WITH ANYTHING File completed SENECA FARMS FILE!

File

copy

LOCATION: Seneca Farms 2-2-002-14
Subdivision or Tax Map Ref.

WATER SUPPLY INSPECTION REPORT (To Supplement LHS 143)

I. GROUT INSPECTED
Date Sanitarian

[illegible]

Gate Valve _____ Sample Tap and Elec.Dis. Switch _____
Check Valve _____ Backflow Preventer _____ Press.Relief Valve _____

DATE	RECORD OF ADDITIONAL REMARKS OR VISITS	DISPOSITION	SANITARIA

SEWAGE DISPOSAL SYSTEM INSPECTION REPORT (To Supplement LHS 141)

[illegible]

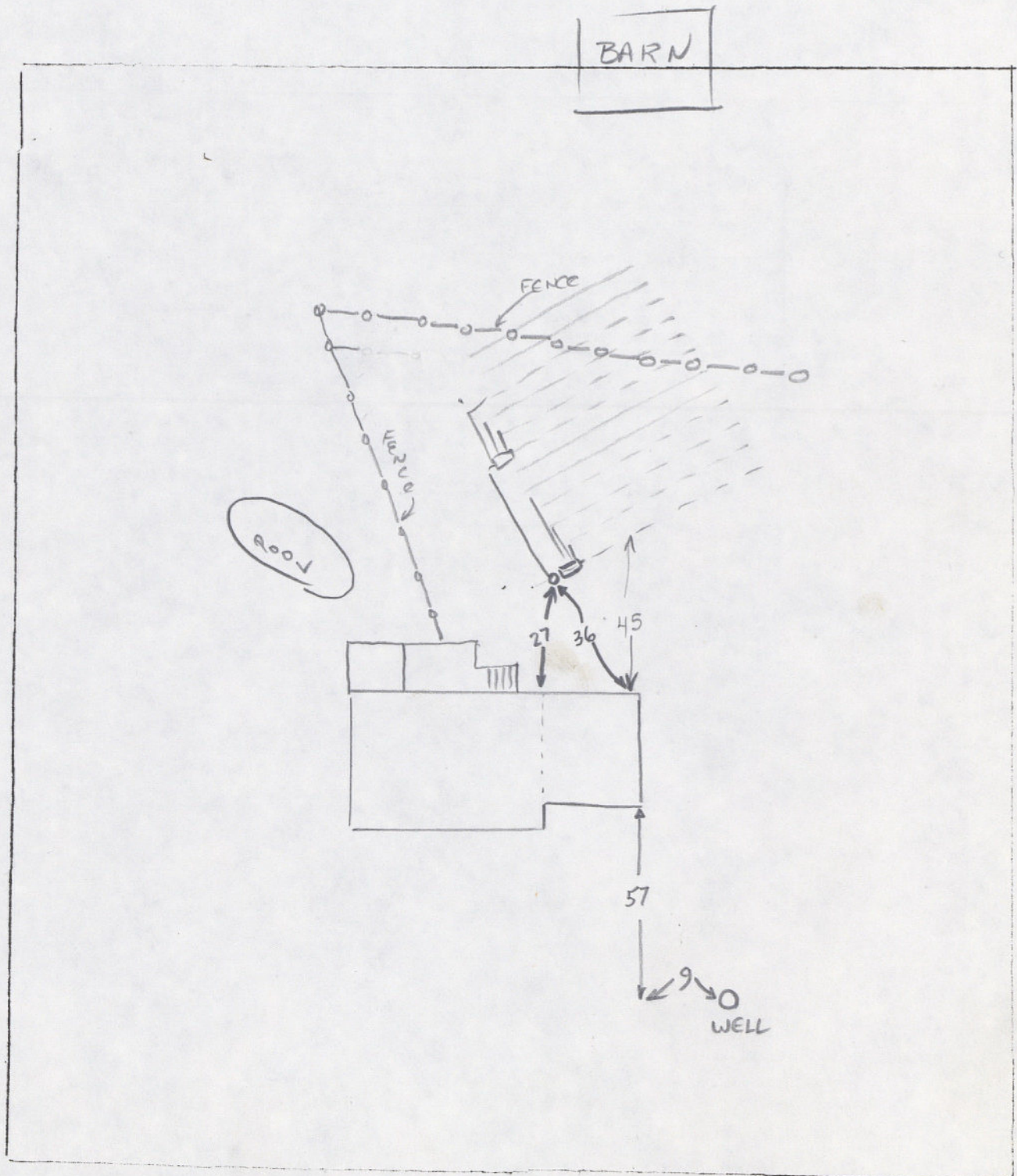
PERMIT # 76-1057

LOCATION: Seneca Farms

2-2-002-14

Subdivision or Tax Map Ref.

WATER SUPPLY AND/OR SEWAGE DISPOSAL SYSTEMS AS INSTALLED



Sketch to show location of septic tank flow diversion valve distribution boxes and well.

PERMIT TO INSTALL ☒ REPAIR, ☐ REASONS FOR REJECTION ☐ FDV WATER SUPPLY ☒ SEWAGE DISPOSAL SYSTEM ☒ C-1 PD. 6/4/75

(1) Void after (12) twelve months. (2) Automatically cancelled when site conditions are changed from those shown on permit.
 (3) Automatically cancelled should facts later become known that a potential hazard would be created by continuing installation.

Weller-Davis, Inc. FHA/VA ☐ Yes ☐ No Date 10/20/76 Case No.
 Owner William T. Carrico, Jr. et al Address 4620 Randolph Dr. Annanadale Phone (H) 354 2377 (O) 354 6850
 (Mailing Address)
 Occupant Address Phone
 (Mailing Address)

Exact Location of premises Seneca Farms SEC #2 LOT # 14 2-2-002-14
 (Subdivision, Street or Road Name, Section or Lot No.)

FOR: ☒ Dwelling ☐ Other Automatic Washing Machine ☒ Yes ☐ No Consumption gal. per day
 Actual ☐ Potential ☐ Bedrooms Garbage Disposal Unit ☒ Yes ☐ No (☐ Actual ☐ estimated Water)
 Additional wastes

(1) WATER SUPPLY (Existing) Class Approved ☐ Yes ☐ No Other A DRUGD WELL IN ACCORDANCE WITH THE
 (To be installed) Class Cased ft. to be grouted ft. FX. CO. WATER SUPPLY ORDINANCE.
 (Unless supported by positive evidence Class III is to be considered as to be installed.)

(2) SOIL STUDY Naturally drained, suitable by sight ☐ Yes ☐ No Technical Classification (If Known)
 Estimated Percolation Rate 1-10 ☐ 11-25 ☐ 26-50 ☐ > 51 ☐ Percolation Test Required ☒ Yes ☐ No Rate 100 51"
 (Minutes per inch) (Minutes per inch to nearest 10 minutes)
 Depth to Grey Mottles inches (estimate over 4 ft.) OTHER
 Surface drainage required ☒ Yes ☐ No OTHER DRAINAGE SUNNIES AS SHOWN BELOW

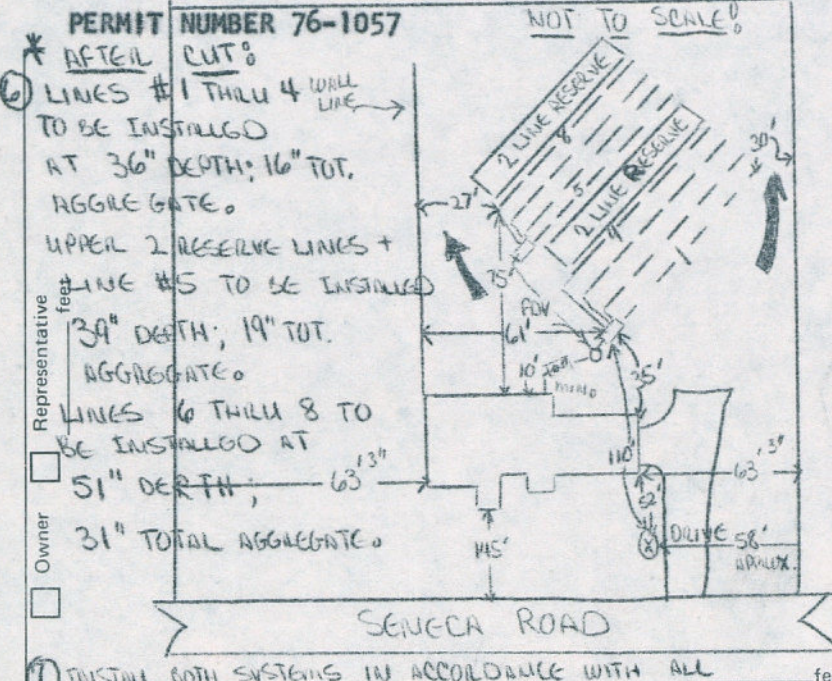
(3) HOUSE SEWER LINE Size inches. Type of material required . Distance from Water Supply feet.

(4) DETAILS OF CONSTRUCTION Watertight Septic Tank of PRECAST CONCRETE Material Liquid Capacity 1480 gallons.
 Inside Dimensions Length feet. Width feet. Liquid Depth feet. Depth of Air Space feet.

SUBSURFACE ABSORPTION FIELD Number of square feet required 976 + 488 Type aggregate required SUNNIES 2-22" GRADE

(5) Depth of aggregate from base of tile to bottom of ditches inches. Allowable fall 2 to 3 inches.
 Total aggregate minimum depth X SEE BELOW inches or more. Depth of drainfield to be X SEE BELOW inches from surface of AFTER CUT
 Distance from well to septic tank 50' feet; distance from well to drainfield 100' feet.

Rough Sketch of Premises (including adjacent properties if pertinent, Showing Location of Lot Line, Buildings, Water Supplies, Sewage Disposal Systems, Trees, and Other Possible Sources of Contamination of Water Supplies, by Indicating Distances and Slope with regard to one another.



- SOME GRADING REQUIRED? STARTING AT HENDER DITCH END OF SYSTEM CUT 12" TO 20" OFF LINES 1-4 AND AN AVERAGE OF 12" OFF UPPER 2 RESERVE LINES AND LINE #5. CALL FOR GRADING INSPECTION PRIOR TO INSTALLATION.
- INSTALL 8 LINES, 61 FT. LONG, 2 FT. WIDE ON 6 FT. CENTERS. PROVIDE FOR RESERVE AREAS AS SHOWN.
- PROVIDE DIST. BOXES WITH A MIN. OF 2 EXTRA OUTLETS EACH.
- LINE #8 NOT TO GO LOWER THAN 75 FT. FROM HOUSE AND 27 FT. FROM WALL LINE AS SHOWN.
- PROVIDE FOR SUNNIES AS SHOWN.

① INSTALL BOTH SYSTEMS IN ACCORDANCE WITH ALL feet
 APPLICABLE STATE & CO. CODES. Environmental FX. 10. Health Department, Phone 691 2201 when installation is ready for inspection. If any Sewage Disposal System, or part thereof, is covered before being inspected by the Health Department, it shall be uncovered at the direction of the Health Director or his agent. CONDITIONS DISCOVERED DURING INSTALLATION MAY REQUIRE ADJUSTMENTS OF SYSTEM DESIGN. Changes from above specifications require Health Department approval before being made.

Based on the above information, the undersigned recommends that this permit be issued.

Date 3/1/77 Approved W. H. Bergeron (Reviewing Authority) Date 3-11-77 Signed Julian H. Coon (Sanitarian or Health Director)

FAIRFAX COUNTY HEALTH DEPARTMENT - DIVISION OF ENVIRONMENTAL HEALTH

A P P L I C A T I O N

☒ FOR PERMIT TO:



Install or Repair Sewage Disposal System

Install or Repair Water Supply System

☐ APPROVAL OF BUILDING APPLICATION FOR (Specify): SEWAGE DISPOSAL SYSTEM WATER SUPPLY SYSTEM

MAP REFERENCE

Plat	Subd.	Blk.	Lot
2-2	002		14

STREET ADDRESS: LOT 14

PROPERTY IDENTIFICATION: SENAKA FARMS 2
SUBDIVISION Sec.

Weller-Davis, Inc.
OWNER'S NAME WAT CARRICO JR et al

Phone (H) 354-2377 (O) 354-6850

OWNER'S ADDRESS 4670 RANDOLPH DR ANNANDALE, VA. 22003
Street City & State Zip Code

CONTRACTOR'S NAME SAME Phone _____

CONTRACTOR'S ADDRESS _____
Street City & State Zip Code

RELEASE PERMIT TO: OWNER ☒ BUILDER: _____

NEW DWELLING: No. of Bedrooms 3 Den YES Bath in Basement N/O
yes/no

Potential 4th Bedroom

Method of Sewage Disposal: Public Sewer _____ Septic Tank ☒ Other _____
(describe)

Water Supply : Public _____ Private Well ☒ Other _____
(describe)

ADDITIONS TO EXISTING DWELLINGS: No. of bedrooms presently in house: _____
No. of bedrooms to be added: _____

Describe other rooms in addition: _____

Method of Sewage Disposal: Public Sewer _____ Septic Tank _____ Other _____
(Describe)

Water Supply: Public _____ Private Well _____ Other _____
(Describe)

COMMERCIAL USE: No. of Employees _____ Estimated daily water use _____ gal/day.

APPLICANT SIGNATURE: William T. Lundy DATE: 10/13/76

TO BE FILLED IN BY HEALTH DEPARTMENT Building Permit Appl. No. B0356

Perc Rate 10 Depth 51 S.T.P.R. No. 02698 6/4/75
Septic Tank 1480 Gallons. Absorption Field 480 linear Feet.
Replacement area required, 5, 244 linear Feet.
yes/no

REMARKS: no lower than test hole #3

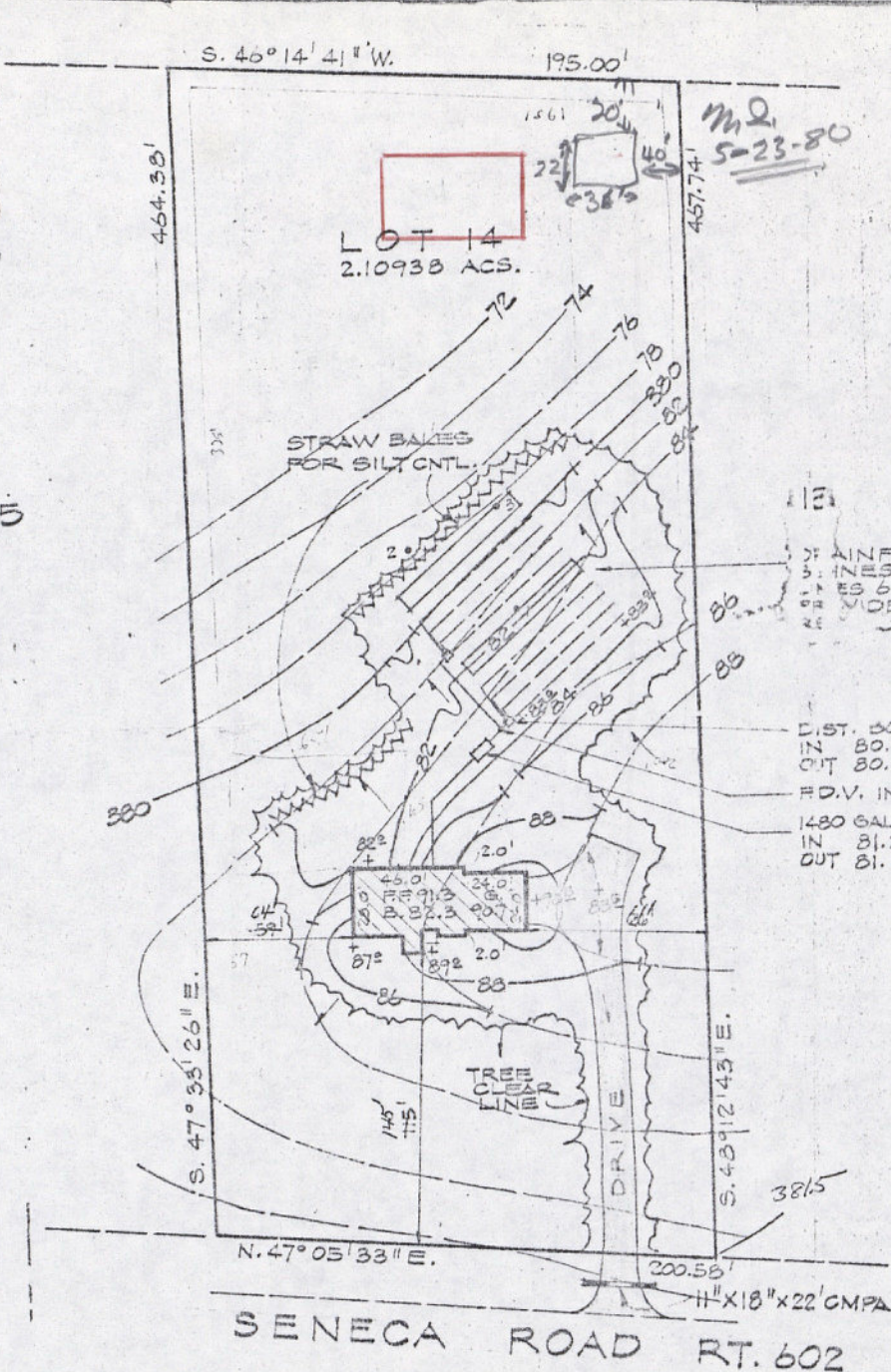
REVIEWED BY: M. Shultz DATE: 10-20-76
REVIEWED BY: _____ DATE: _____

244

61
8
488

76-1057

15



GRADING PLAN
LOT 14 SECTION TWO
SENECA FARMS
DRANESVILLE DISTRICT
FAIRFAX COUNTY VIRGINIA
SCALE: 1"=50' DATE: 10-6-76

JAMES A. SMITH & ASSOC'S.
6623-A OLD DOMINION DRIVE, MCLEAN, VA.
CIVIL ENGINEERS - LAND SURVEYORS.

ZONE RE-2
PROPERTY RECORDED IN
J.B. 4382 PG. 734

PERMIT # 77-1057

LOCATION: Seneca Farms 2-2-002-14
Subdivision or Tax Map Ref.

PART I

WATER SUPPLY INSPECTION REPORT (To Supplement LHS 143)

Well Installed By TRAUT Pump Installed By TRAUT

- I. CROUT INSPECTED OBSERVED P.M. START 5-12-77 JOV
OBSERVED P.M. FINISH TO GR. SURFACE Date Sanitarian
II. PIPE & ELECTRIC WIRE FROM WELL TO STORAGE TANK APPROVED 5-17-77 SCU
Date Sanitarian
III. TYPE OF INSTALLATION: ☒ PITLESS ADAPTER ☐ PIT ☐ SURFACE 5-17-77 SCU
(4" Drain) (Drain) App. Date Sanitarian
IV. STORAGE TANK. Well x trial 42 gal. 5-17-77 SCU
Date Sanitarian
Gate Valve ☒ Sample Tap and Elec. Dis. Switch ☒
Check Valve ☒ Backflow Preventer ☒ Press. Relief Valve ☒

V. INITIAL WATER SAMPLE COLLECTED. 7-5-77 JOV
Date Sanitarian

DATE	RECORD OF ADDITIONAL REMARKS OR VISITS	DISPOSITION	SANITARIAN
7-8-77	1ST W.S. RESULTS >200 TOTAL BACTERIA - RESAMPLE. MR. CARRICO INDICATED THAT WELL DRILLING HAD NOT DISINFECTED, ADVISED HIM TO HAVE IT DISINFECTED BEFORE RESAMPLING.	HOLD FOR CALL	JOV
7-20-77	Chz in the HOLD FOR CALL	HOLD	JOV
7-25-77	took MPV re-sample	HOLD	JOV

PART II

SEWAGE DISPOSAL SYSTEM INSPECTION REPORT (To Supplement LHS 141)

DATE	RECORDS OF REMARKS AND VISITS	DISPOSITION	SANITARIAN
4-22-77	✓ grade cut, OK to proceed with installation	(Hold for Call)	J.M.M.
4-28-77	Entire system OK to B.F.	Rech. with grant	J.M.M.
5-12-77	SDS B.F. O.D. BUT. ROUGH - (WOULD HOLD WATER IF IT WERE RAINING) BF AS SHALLOW AS 8" IN SOME PLACES - PILGS OF DIRT SURROUNDING UPPER PORT OF SDS.	RESCHED. FG WITH W.S.S. DITCH	JOV
5-17-77	No change in SDS.	Rech. w/ w. sample	SCU
7-5-77	CHECKED BF AND FG WITH MR. CARRICO, BLDG OWNER. BF ON TANK 19" AND O.K. BF OVER LINE #1: 31"; LINE #2: 33"; #3: 25"; #7+8, AROUND 28" BF. EXCESSIVE BF STARTS AT HEADER DITCH END AND EXTENDS FOR 1ST 20' OF ALL AFOREMENTIONED DITCHES. OWNER INDICATED HE WOULD CORRECT AND CALL FOR INSPEC.	HOLD FOR CALL	JOV
7-20-77	S.D.S. OK. appd	Appd	

RECORD OF INSPECTION-SEWAGE DISPOSAL SYSTEM

Date 10/20/76 Case No. (H) 354 2377(0) 354 6850
 Owner William T. Carrico, Jr. et al Address 4620 Randolph Dr, Annandale Phone (H) 354 2377(0) 354 6850
 (Mailing Address) 22003
 Occupant _____ Address _____ Phone _____
 (Mailing Address) _____
 Exact Location Seneca Farms SEC # 2 LOT # 14 2-2-002-14
 of Premises _____
 (Subdivision, Street or Road Name, Section or Lot No.)

WATER SUPPLY INSPECTION

Installed according to Permit Design ☒ Yes ☐ No. Distance to nearest House Sewer _____ feet. Distance to nearest Sewage Disposal System 100' feet. (Use Form LHS-143 for Detailed inspection of Water Supply Reference Materials.)

SEWAGE DISPOSAL SYSTEM INSPECTION

- (1) LOCATION
 Allotted Area adequate ☒ Yes ☐ No. Distance from nearest lot lines 10' feet. Trees 10' feet. Water Supplies 100' feet. Buildings _____ feet.
- (2) INSTALLATION AND DESIGN
 Installed according to Permit Design ☒ Yes ☐ No
 Have additional Household Appliances been added NOT on Permit:
☐ Automatic Washer ☐ Garbage Disposal
☐ Other _____ (Describe)
- (3) SOIL CONDITION
 Are there soil conditions now evident which indicate system may be unsatisfactory as designed: ☐ Yes ☒ No. If Yes, show adjustments required under "Remarks" below.
- (4) HOUSE SEWER LINE
 Installed ☐ Yes ☐ No. Type of material _____ Size _____ Inches.
- (5) SEPTIC TANK
 Constructed of Precast Concrete "Tapp 1500"
 (Kind of Material)
 Inside Dimensions Length _____ feet. Width _____ feet.
 Liquid Depth _____ feet. Depth of Air Space _____ inches.
 Inside Fittings comply with requirements ☒ Yes ☐ No.
- (6) DISTRIBUTION BOX + F.D.V.
 Watertight and equal surcharge to each line by Water Test ☒ Yes ☐ No. Distribution Box provided with (21) (Number) extra outlets for future use.
- (7) SUBSURFACE ABSORPTION FIELD
 Total Area in bottom of ditches 976 + 458 R square feet.
 Number of ditches 8 Length of ditches 61 feet.
 Grade of ditches Minimum 2 Inches per 100 feet.
 Maximum 4 inches per 100 feet. Has system been checked by instruments (Level) ☒ Yes ☐ No
 Type aggregate used CRUSHED STONE
 Depth of aggregate under Tile * SEE BELOW inches
 Total depth of aggregate * SEE BELOW inches
 Depth of backfill over aggregate 16-20 inches
- (8) SURFACE DRAINAGE
 Storm Drains from House and Basement flowing away from Subsurface Drainage Field: ☐ Yes ☐ No. Was Surface Drainage required ☒ Yes ☐ No. If Yes, has this been provided ☒ Yes ☐ No. Has area been drained by lowering Ground Water Table: ☐ Yes ☐ No. ☐ Not required.
- (9) Are follow-up inspections necessary ☐ Yes ☐ No.

Septic Tank Contractor: EARL COLLINS Address _____ Phone _____
 This Sewage Disposal System (Is) (Is Not) Approved by FAIRFAX CO. Health Department.
 Date 11/20/76 Signed 60 Jones (Sanitarian) Date 7-21-77 Approved W. B. Baye (Health Director)
 Date _____ Approved _____ (Advisory Sanitarian) Date _____ Approved _____ (Reviewing Authority - Other Agency)

With proper maintenance, approved Sewage Disposal systems may be expected to function satisfactorily, provided no overloading or physical damage occurs to the system. Remarks: * Lines 1 thru 4 8 and 16
* Line 5 11 and 19
* Lines 6 thru 8 23 and 31

WATER SUPPLY

County/City Fairfax Date 10/20/76 Case No. _____

☐ Proposed ☐ Public ☒ Non-Public Drinking
☒ Record of Inspection ☐ Quasi - Public

Owner William T. Carrico, Jr. et al Address 4620 Randolph Dr., Annandale Phone (8)354 2377 (0)354 685
(Mailing Address) 22003

Occupant _____ Address _____ (Mailing Address) _____ Phone _____

Exact Location Seneca Farms SEC #2 LOT #14 2-2-002-14
of Premises (Subdivision, Street or Road Name, Section or Lot No.)

TYPE CUSTOMERS: ☐ Community ☐ Industrial ☐ Recreational ☐ Other:

TYPE SOURCE PROPOSED: _____

TOTAL PROPOSED ULTIMATE CONNECTIONS: _____

TOTAL PROPOSED ULTIMATE PERSONS (EMPLOYEES) SERVED: _____

TOTAL PROPOSED PRESENT CONNECTIONS: _____

TOTAL PROPOSED PRESENT POPULATION SERVED: _____

* Notify Division of Engineering (Regional Engineer) of impending development of a Public Water Supply.

AN INDIVIDUAL WATER SUPPLY ☒ New ☐ Existing FROM ☒ Drilled Well ☐ Driven Well ☐ Bored Well
☐ Dug Well ☐ Other _____ FOR ☒ Home ☐ Restaurant ☐ Trailer Court ☐ Motel
☐ Service Station ☐ Other _____

If a new supply, inspect for compliance with standards. If an existing supply, furnish as much information as may be available.

SOURCE OF INFORMATION ON-SITE INSPECTION, WELL LOGS IS PUBLIC WATER SUPPLY AVAILABLE ☐ Yes ☒ No

SEWAGE DISPOSAL BY ☐ PUBLIC SEWER ☐ COMMUNITY SYSTEM ☒ INDIVIDUAL SYSTEM ON SITE.

INSPECTION FINDINGS

(1) WATERSHED Surface Drainage away from source in all directions
☒ Yes ☐ No. Distance Source from possible causes of contamination Sewer Line 50' feet. Type of material used in Sewer Line _____ (Describe) Septic Tank 80' feet.

Seepage Pit _____ feet. Subsurface Absorption Field (nearest point) 100' feet. Other _____ feet.

Note any serious obstacles in watershed on back of form.

(2) TYPE OF SOIL FORMATION ☐ Tight Clay ☐ Limestone
☐ Sandstone ☐ Other 0-6" SILT + SAND (Describe) 67-400' ROCK

(3) CLASSIFICATION OF WELL ☐ Type - 1 ☐ Type - 2A
☐ Type - 2B ☐ Type - 3 ☐ Other

(4) CONSTRUCTION DETAILS Total depth 400 feet.
Diameter 67 inches. Type of casing STEEL (Describe)
Depth of casing 87 feet. Exterior space around casing sealed with ☒ Concrete grout to depth of 50' feet.
☐ Poured in place ☐ Pumped in under pressure ☐ Other type backfill _____ to depth of _____ feet.
(Describe) casing extends 12' inches above ground.

(5) WATER SOURCE COVER ☐ Concrete ☒ Metal ☐ Other
_____ Opening in Cover watertight (Kind of Material)
☐ Yes ☐ No. If no, explain POLESS ADAPTER

(6) PUMP ☐ Shallow Well ☒ Deep Well. Length of Drop Pipe _____ feet. Well capacity 5.5 gallons per minute.
Size of Feeder Pipe 1.5 inches.

(7) PUMP LOCATION ☒ In Well ☐ Over Well ☐ Offset.
If offset, does watertight casing extend to Pump ☐ Yes ☐ No
Pump room located _____ feet from Well.

Pump room drained by gravity through 4 - inch or larger pipe to surface to ground ☐ Yes ☐ No. Pump platform of concrete or other impervious material, at least 4 inches thick at casing, extending at least 24 inches in all directions, sloped to drain; ☐ Yes ☐ No. Pump mounting watertight ☐ Yes ☐ No.

(8) TYPE OF STORAGE ☒ Pressure ☐ Gravity. Capacity 42 gallons. If gravity, is overflow pipe screened ☐ Yes ☐ No.

THIS WATER SUPPLY SYSTEM ☒ Is ☐ Recommended by FAIRFAX CO. ☐ Div. Engineering
☐ Is not ☒ Approved ☒ Health Department

REMARKS: _____

Date 7/28/77 Signed [Signature] Date 7/29/77 Approved [Signature] (Health Director)

Date _____ Approved _____ Date _____ Approved _____ (Reviewing Authority—Other Agency or Engineer)

WATER SUPPLY LOG

JUL 7 - 1977

NEW ☒ REPAIR

OWNER William T. Canico Jr. DATE _____ PHONE _____
OWNER'S ADDRESS 4620 Randolph Dr. ANNANDALE, VA.
(Street) (City and State - Zip Code)
WATER SUPPLY CONTRACTOR William H. Trout PHONE 450-4480
CONTRACTOR'S ADDRESS RT. 2 STERLING, VA. 22170
(Street) (City and State - Zip Code)
LOCATION Seneca Farms 2 14
(Subdivision) (Section) (Block) (lot)

INFORMATION TO BE SUPPLIED BY WATER SUPPLY CONTRACTOR

WELL DATA:

Date Construction Started 2-77 (Indicate Weight for Metal Casing)
1. Type of Well: Drilled ☒ Bored _____ Dug _____ 2. Casing Material 13 Wt/Ft
3. Casing Diameter 6 1/4 I.D. 4. Total Length of Casing Installed 87
5. Depth of Grouting 50+ Ft. Number Bags Cement Used 31
6. Strainer or Screens: Type _____ Diameter _____ Length _____ Size of Openings _____
7. Standing Water Level (Depth below Ground Surface When Not Pumping) _____
8. Yield of Well 5 1/2 G.P.M.
9. Elevation of Water Surface When Pumped at Designated Rate 100'
10. Number of Hours Pumped at Stipulated Rate During Test 2 hrs.
11. Physical Appearance of Water at End of Pumping Test clear
12. Log of Materials Encountered During Drilling (Indicate Depth of Various Strata)
0-67 dirt & shale
67-400 rock
Total Depth of Well 400
13. Depth to Water Bearing Formation 380 Ft.

PUMP DATA:

14. Type of Pump Installed 50 GPM. 3/4"
15. Pumping Rate 10 G.P.M. @ 60 T.D.H. or P.S.I.
16. Type of Well Seal pitless adapter 17. Location of Pump well
18. Pressure Tank: Size 202 Gals. Location basement
19. Well Supplied with Following Appurtenances:
A. Sample Tap ☒
B. Well Vent ☒
C. Pressure Relief Valve ☒
D. Gate Valve ☒
E. Check Valve Where Required ☒
F. Electrical Disconnect Switch on the Pump Power Supply ☒
20. Date Pump Installed 5-77
21. System Disinfected no back flow valve

Signed: W. H. Trout
Water Supply Contractor

PLEASE RETURN COMPLETED FORM IMMEDIATELY TO HEALTH DEPARTMENT TO FACILITATE APPROVAL OF SUPPLY

OK/ey

JUL. 20 1977

WATER SUPPLY LOG

NEW ☒ REPAIROWNER William T. Carrico JR. DATE _____ PHONE _____OWNER'S ADDRESS 4620 Randolph Dr. ANNANDALE, VA.
(Street) (City and State - Zip Code)WATER SUPPLY CONTRACTOR William H. Trout PHONE 450-4450CONTRACTOR'S ADDRESS RT. 2 STERLING, VA. 22170
(Street) (City and State - Zip Code)

2-2-002-14

LOCATION SCUCCA FARMS 2 14
(Subdivision) (Section) (Block) (lot)

INFORMATION TO BE SUPPLIED BY WATER SUPPLY CONTRACTOR

WELL DATA:

- Date Construction Started 4-77 (Indicate Weight for Metal Casing)
1. Type of Well: Drilled ☒ Bored _____ Dug _____ 2. Casing Material 13 Wt/Ft
3. Casing Diameter 6 1/4 I.D. 4. Total Length of Casing Installed 87
5. Depth of Grouting 50+ Ft. Number Bags Cement Used 25
6. Strainer or Screens: Type _____ Diameter _____ Length _____ Size of Openings _____
7. Standing Water Level (Depth below Ground Surface When Not Pumping) 47
8. Yield of Well 5 1/2 G.P.M.
9. Elevation of Water Surface When Pumped at Designated Rate 100
10. Number of Hours Pumped at Stipulated Rate During Test 2 hrs.
11. Physical Appearance of Water at End of Pumping Test clear
12. Log of Materials Encountered During Drilling (Indicate Depth of Various Strata)
0-67 dirt & shale
67-400 rock
- Total Depth of Well 400
13. Depth to Water Bearing Formation 380 Ft.

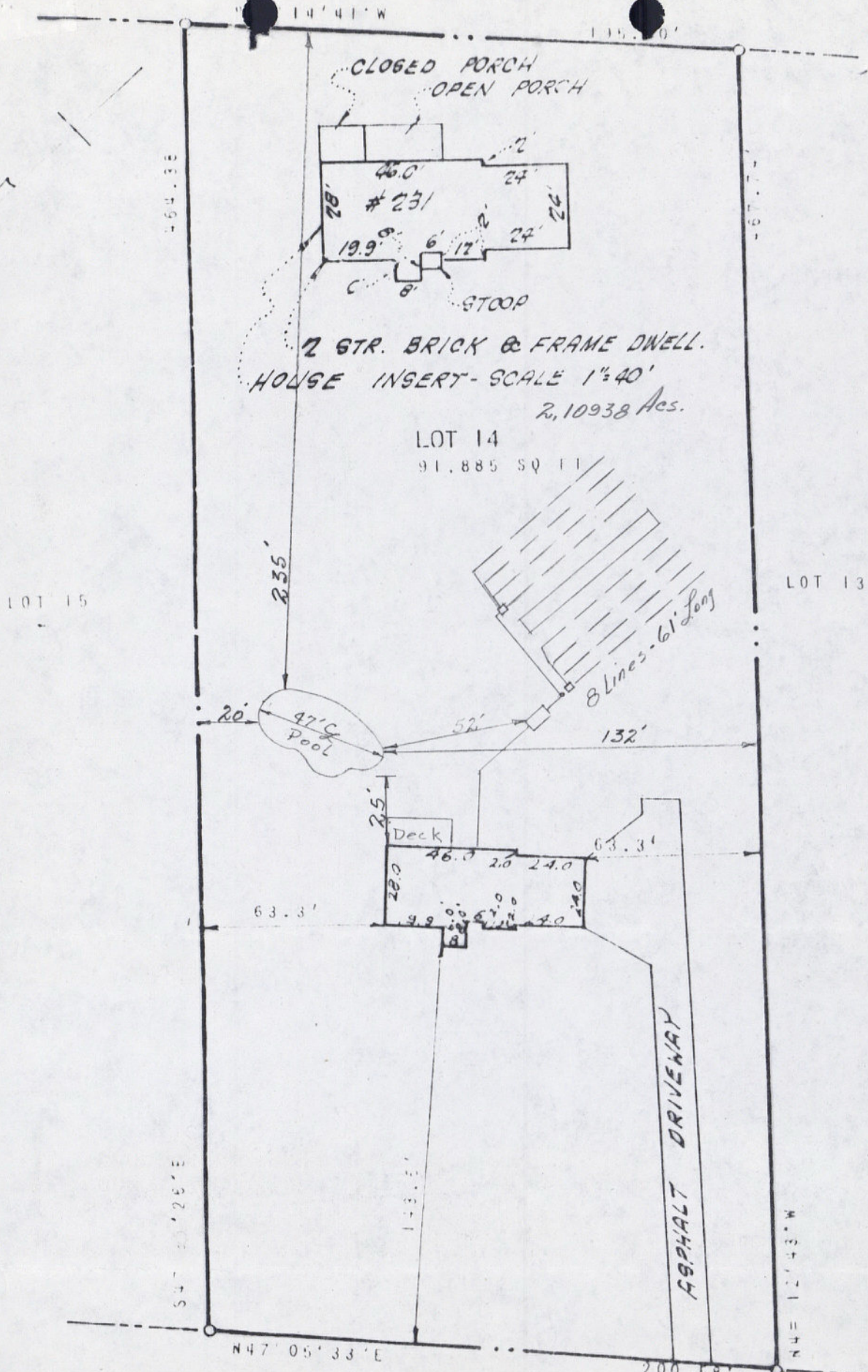
PUMP DATA:

14. Type of Pump Installed Submersible
15. Pumping Rate 10 G.P.M. @ 60 F.D.H. or P.S.I.
16. Type of Well Seal pitless adapter 17. Location of Pump Well
18. Pressure Tank: Size 1202 Gals. Location basement
19. Well Supplied with Following Appurtenances:
- A. Sample Tap ☒
 - B. Well Vent ☒
 - C. Pressure Relief Valve ☒
 - D. Gate Valve ☒
 - E. Check Valve Where Required ☒
 - F. Electrical Disconnect Switch on the Pump Power Supply ☒
20. Date Pump Installed 5-77
21. System Disinfected yes back flow valve

Signed: W. H. Trout

Water Supply Contractor

PLEASE RETURN COMPLETED FORM IMMEDIATELY TO HEALTH DEPARTMENT TO FACILITATE APPROVAL OF SUPPLY



FINAL

HOUSE LOCATION SURVEY
LOT 14, SECTION 2
SENECA FARMS
BRANESVILLE DISTRICT
FAIRFAX COUNTY, VIRGINIA

499-1

DATE
9-22-77

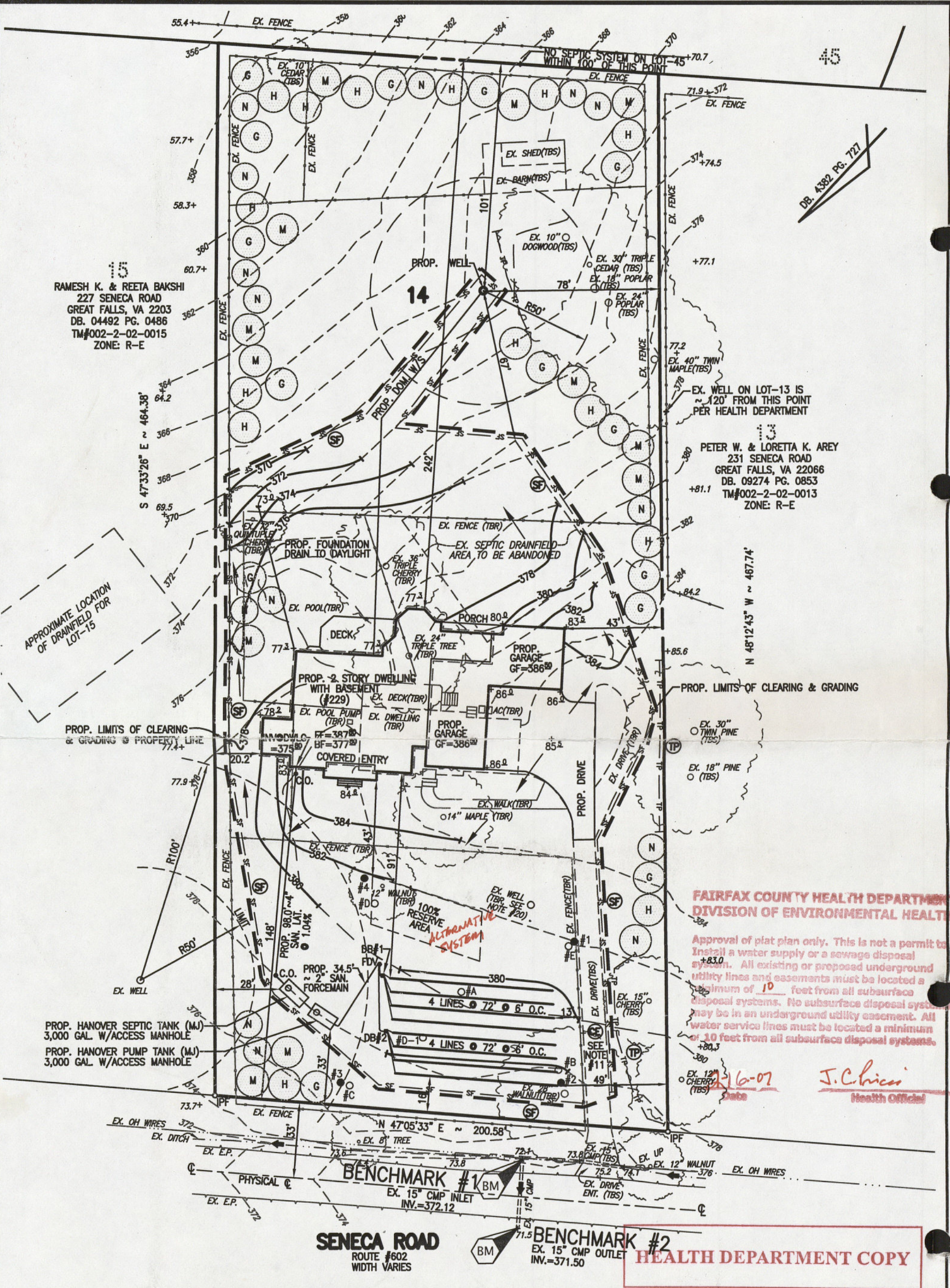
SCALE
50' = 1"

JAMES A. SMITH
and ASSOCIATES
CIVIL ENGINEERS—LAND SURVEYORS
MCLEAN VIRGINIA

CERTIFIED CORRECT

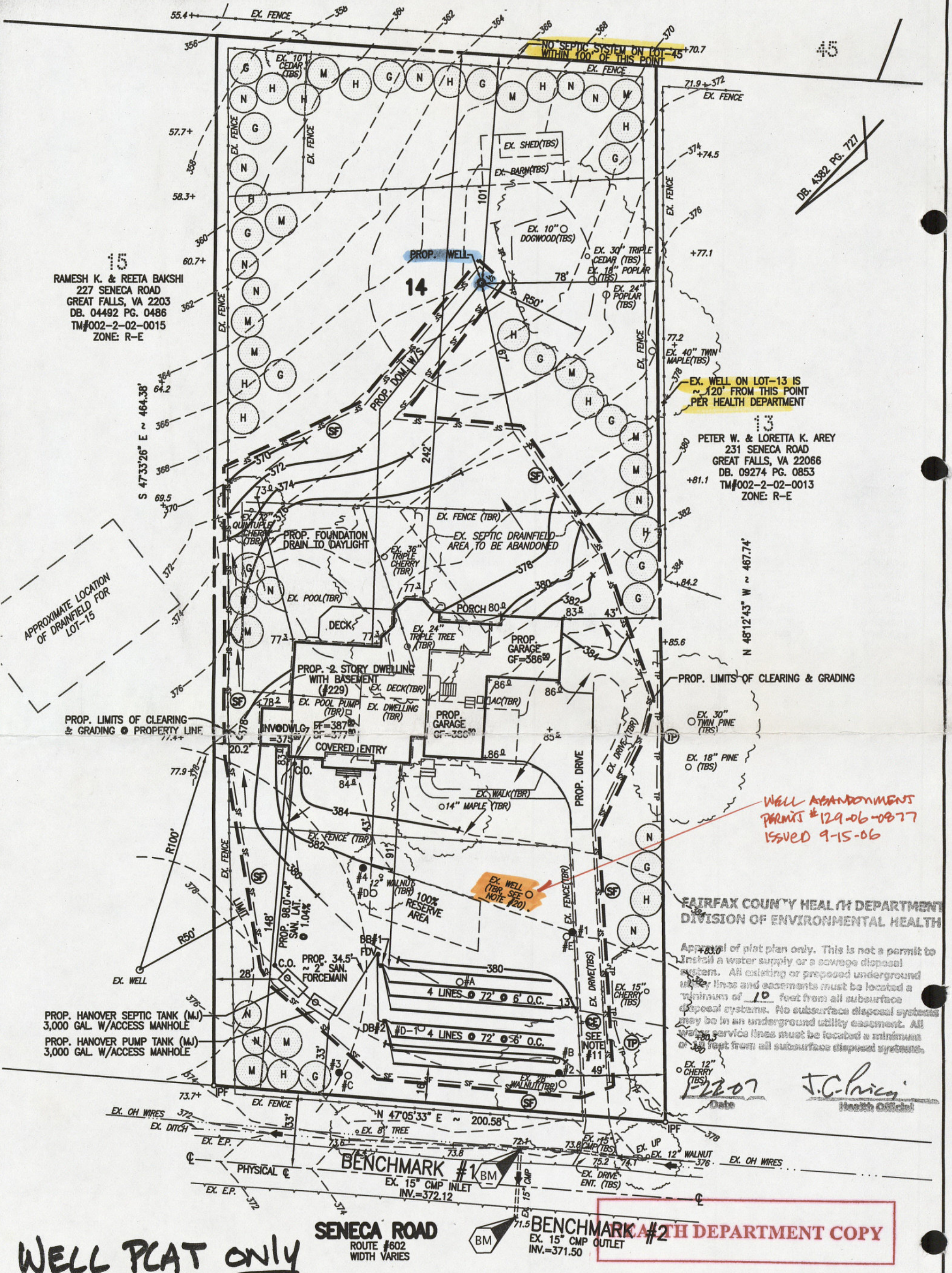
James A. Smith

Genant



PROPOSED SEPTIC SYSTEM LAYOUT
ON THE PROPERTY LOCATED AT
229 SENECA ROAD
DRANESVILLE DISTRICT
FAIRFAX COUNTY, VIRGINIA
SCALE: 1" = 40' DATE: 17 JAN. 2007

RCF **IELDS, JR. & ASSOCIATES**
A PROFESSIONAL CORPORATION
LAND SURVEYING • SITE PLANNING • SUBDIVISION DESIGN
730 S. Washington Street
Alexandria, Virginia 22314 (703) 549-6422



WELL PLAT ONLY

PROPOSED SEPTIC SYSTEM LAYOUT
ON THE PROPERTY LOCATED AT
229 SENECA ROAD
DRANESVILLE DISTRICT
FAIRFAX COUNTY, VIRGINIA
SCALE: 1" = 40' DATE: 17 JAN. 2007

RCF **IELDS, JR. & ASSOCIATES**
A PROFESSIONAL CORPORATION
LAND SURVEYING • SITE PLANNING • SUBDIVISION DESIGN
730 S. Washington Street
Alexandria, Virginia 22314 (703) 549-6422

NOTE: TAX MAP: #002-2-02-0014

LOT AREA = 91,885 S.F. OR 2.1094 AC.

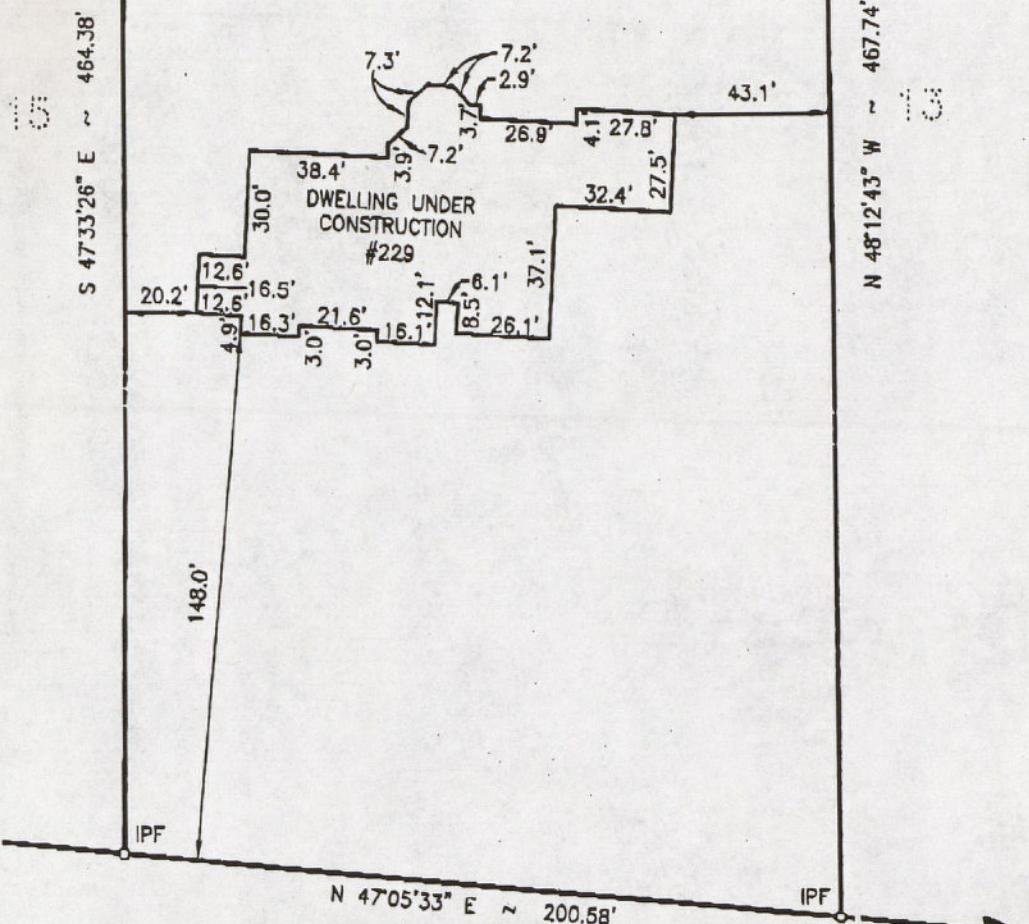
SECTION THREE

45

S 46°14'41" W ~ 195.00'

PLAT NORTH
(DB. 4382, PG. 727)

14



SENECA ROAD
ROUTE #602 ~ R/W VARIES

PLAT

SHOWING WALL CHECK SURVEY
LOT 14, SECTION 2

SENECA FARMS

(DB. 4382, PG. 727)

DRANESVILLE DISTRICT

FAIRFAX COUNTY, VIRGINIA

SCALE: 1" = 40'

DATE: APRIL 27, 2007

DEED BOOK REF.: 16830/202
PLAT SUBJECT TO
RESTRICTIONS OF RECORD.

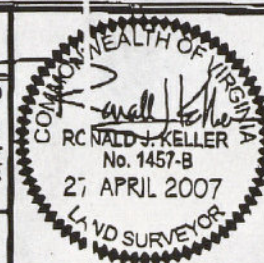
TITLE REPORT NOT FURNISHED,
THUS ALL EASEMENTS MAY NOT
BE SHOWN.

I HEREBY CERTIFY THAT THE POSITIONS OF THE IMPROVEMENTS SHOWN
HAVE BEEN CAREFULLY ESTABLISHED BY A TRANSIT TAPE SURVEY AND/OR
WITH CALIBRATED ELECTRONIC DISTANCE MEASURING EQUIPMENT.

CASE NAME: SAXON BUILDERS

RCF FIELDS, JR. & ASSOCIATES
A PROFESSIONAL CORPORATION

LAND SURVEYING SITE PLANNING SUBDIVISION DESIGN
730 S. WASHINGTON STREET ALEXANDRIA, VIRGINIA 22314
TEL (703) 549-8422 FAX (703) 549-8432



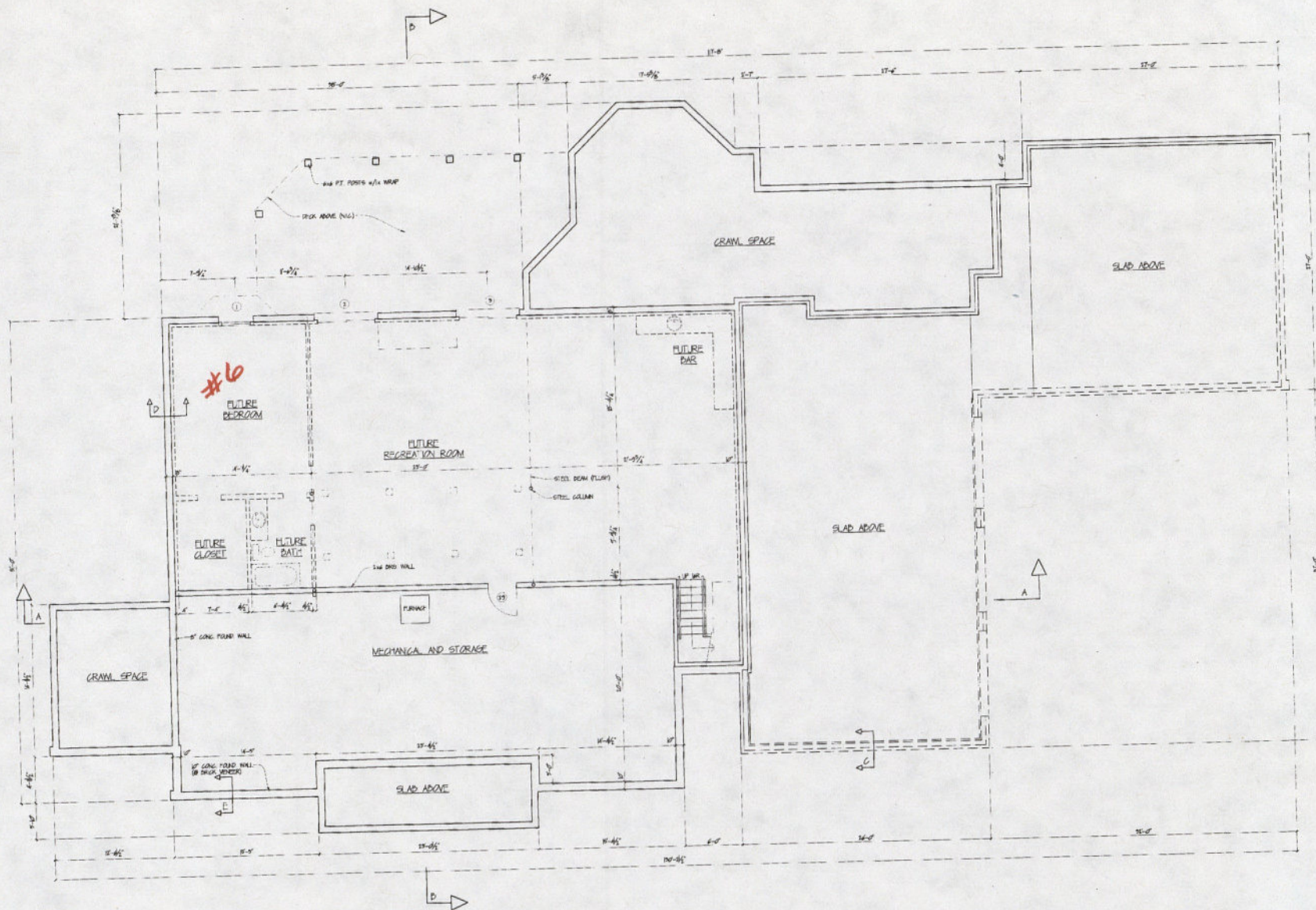
Proposed Residence
for
Raja Tariq Mahmood

229 Seneca Road
Great Falls, VA 22066

SAXON BUILDERS

DESIGN - BUILD

3523 Morningside Drive, Fairfax, VA 22031
Phone: (703) 280-2476 Fax: (703) 280-2477



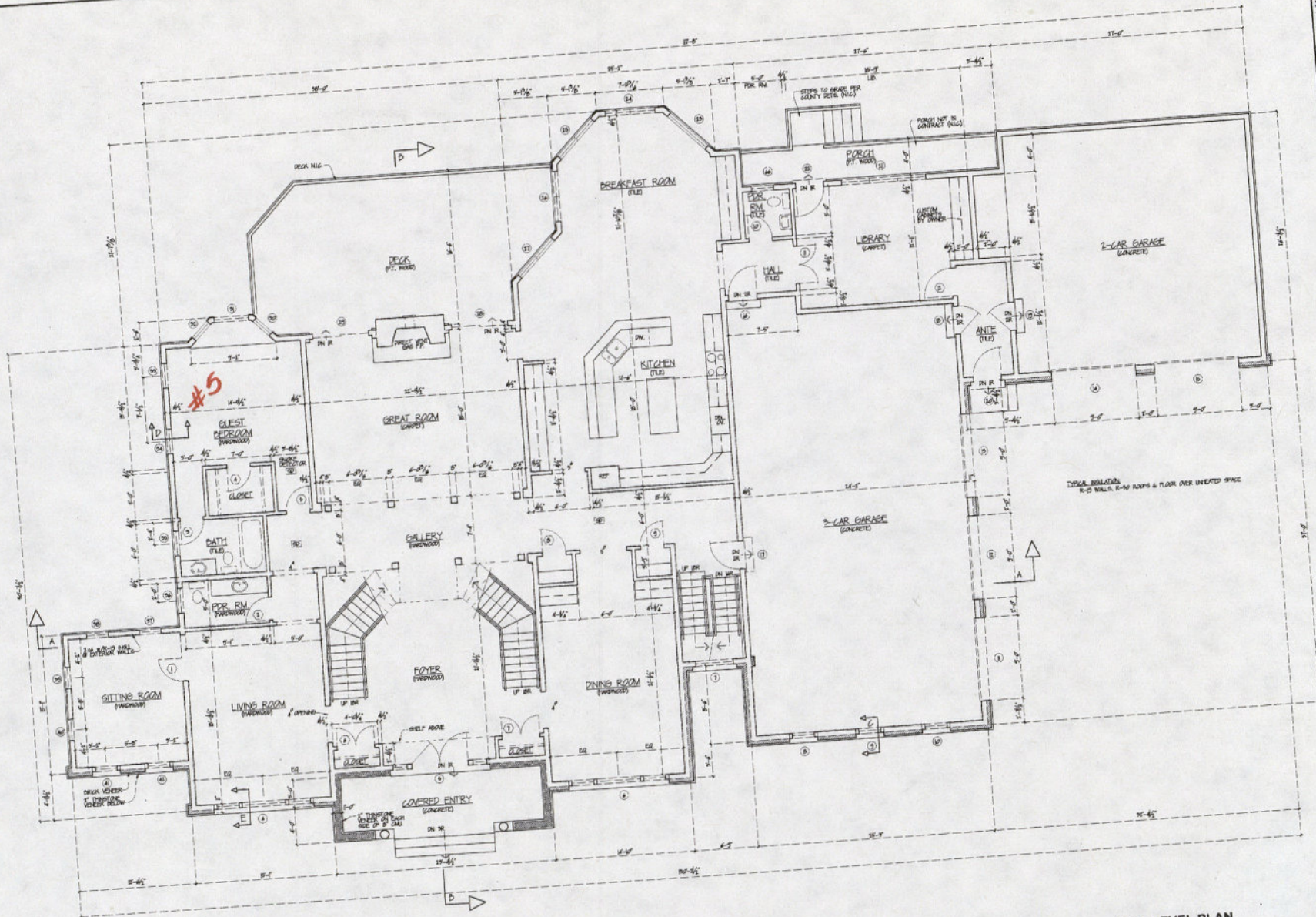
LOWER LEVEL PLAN
1/4" = 1'-0"

REVISIONS			
NO.	DATE	BY	DESCRIPTION
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			

Proposed Residence
for
Raja Tariq Mahmood
229 Seneca Road, Great Falls, VA 22066

SAXON BUILDERS
Design - Build
3523 Morningside Drive, Fairfax, VA 22031
Phone: (703) 280-2476 Fax: (703) 280-2477

DRAWING NO.
A-1



MAIN LEVEL PLAN
1/4" = 1'-0"

MAIN LEVEL PLAN

REVISIONS			
NO.	DATE	DESCRIPTION	BY
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			

Proposed Residence

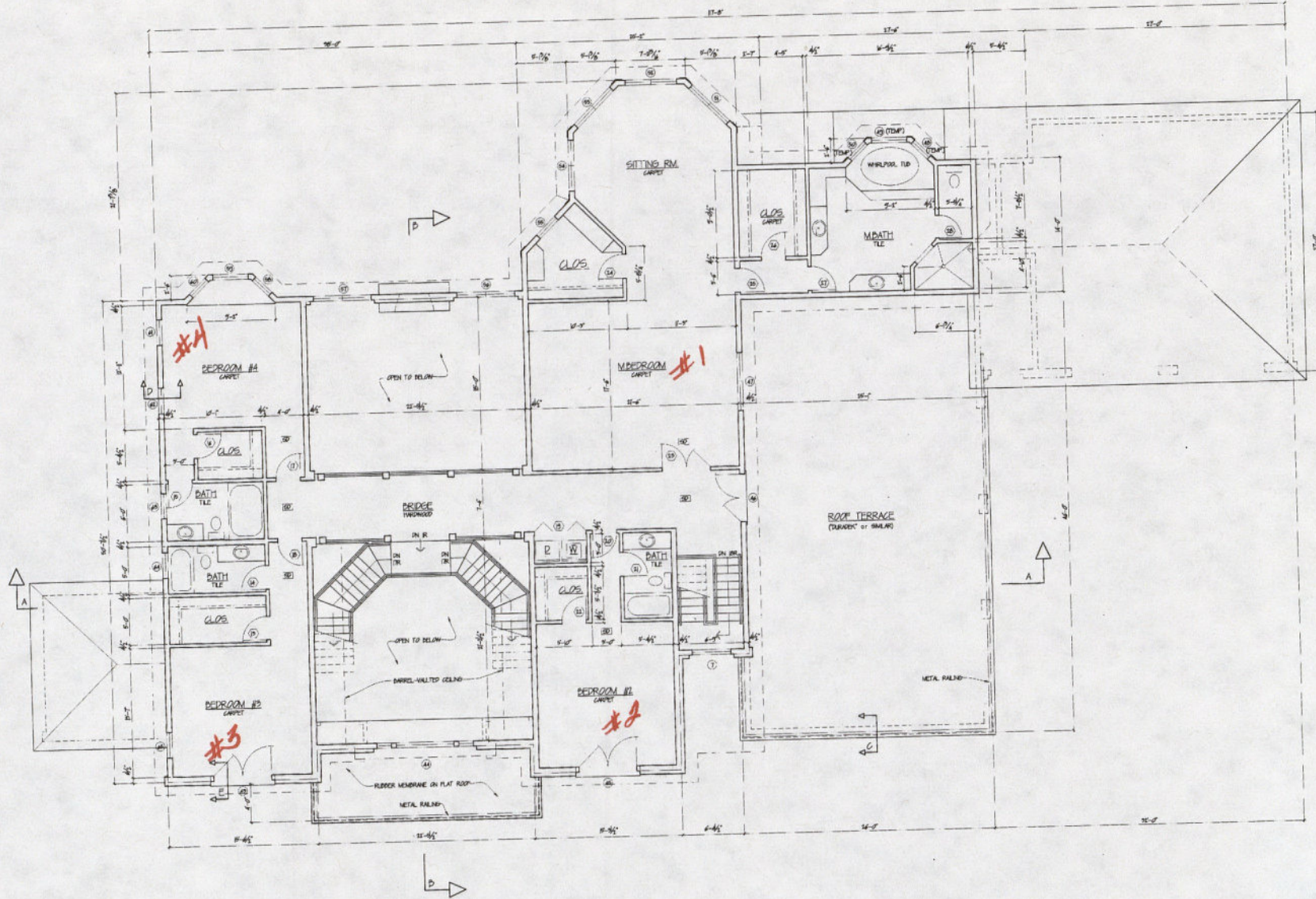
for
Raja Tariq Mahmood

229 Seneca Road, Great Falls, VA 22066

SAXON BUILDERS
Design - Build

3523 Morningdale Drive, Fairfax, VA 22031
Phone: (703) 280-2476 Fax: (703) 280-2477

DRAWING NO.
A-2



UPPER LEVEL PLAN
1/4" = 1'-0"

SAXON BUILDERS
Design - Build

3523 Morningdale Drive, Fairfax, VA 22031
Phone: (703) 280-2476 Fax: (703) 280-2477

Proposed Residence
for
Raja Tariq Mahmood
229 Seneca Road, Great Falls, VA 22066

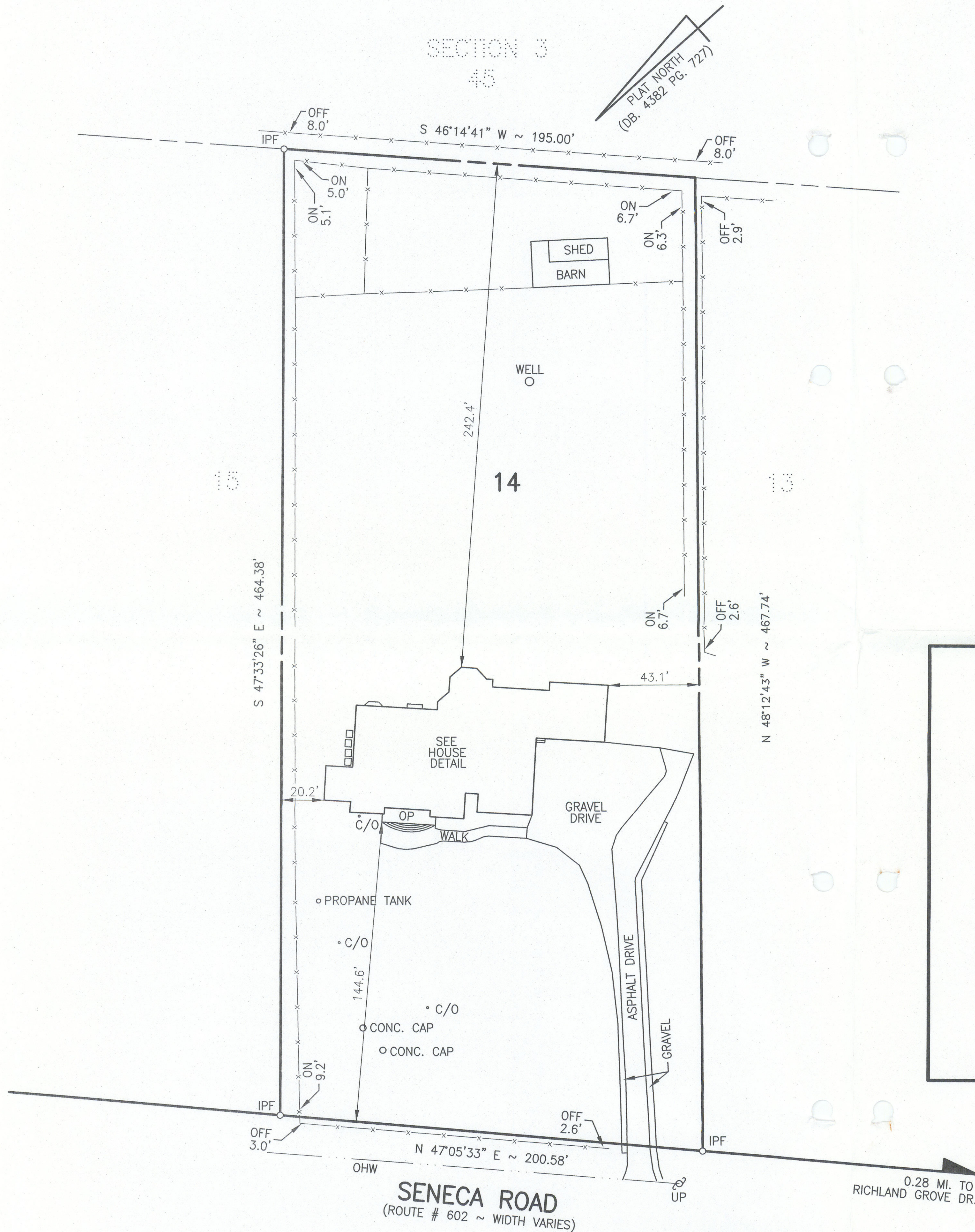
UPPER LEVEL PLAN

NO.	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		

PROJECT NO.
DATE
SCALE
DRAWING NO.
A-3

SECTION 3
45

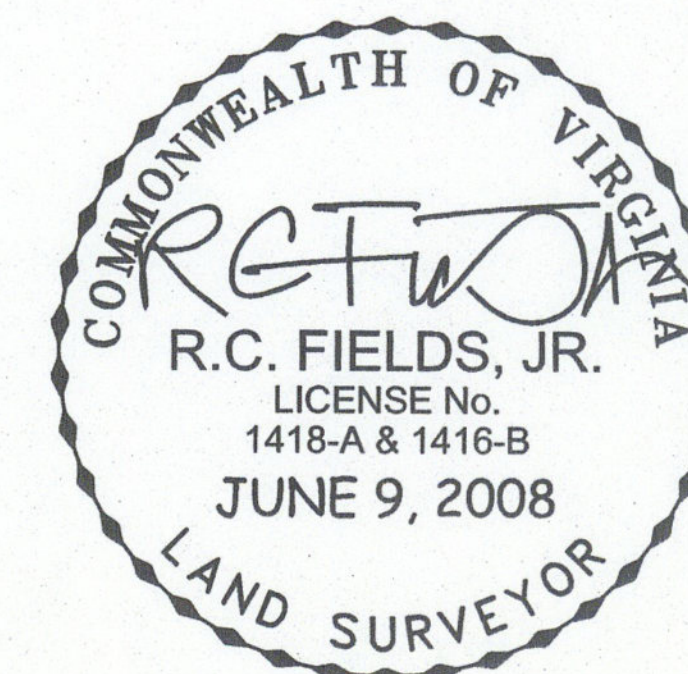
PLAT NORTH
(DB. 4382 PG. 727)



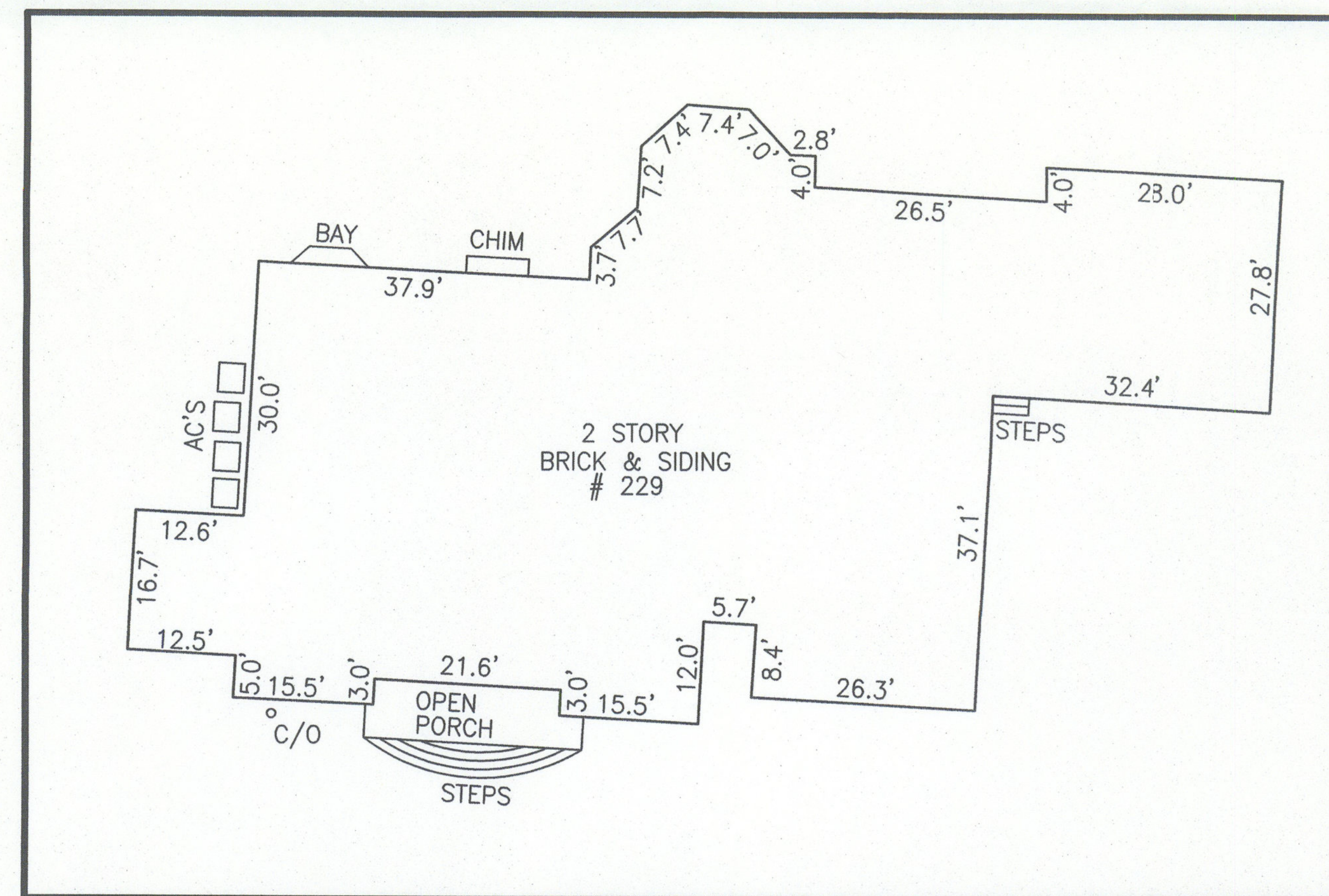
FINAL APPROVAL

JUL 1 2008

ZONING ADMINISTRATION DIVISION
DEPARTMENT OF PLANNING AND ZONING



I HEREBY CERTIFY THAT THE POSITIONS OF ALL THE EXISTING IMPROVEMENTS
HAVE BEEN CAREFULLY ESTABLISHED BY A TRANSIT TAPE SURVEY AND/OR
WITH CALIBRATED ELECTRONIC DISTANCE MEASURING EQUIPMENT AND,
UNLESS OTHERWISE SHOWN, THERE ARE NO VISIBLE ENCROACHMENTS.



HOUSE DETAIL
SCALE 1" = 20'

PLAT
SHOWING PHYSICAL IMPROVEMENT SURVEY
LOT 14, SECTION 2

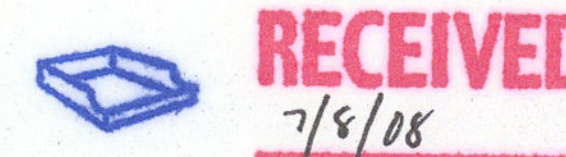
SENECA FARMS

(DB. 4382, PG. 727)
DRANESVILLE DISTRICT

FAIRFAX COUNTY, VIRGINIA

SCALE: 1" = 40'

DATE: JUNE 9, 2008



LAND SURVEYING • SITE PLANNING • SUBDIVISION DESIGN
730 S. Washington St. Alexandria, Virginia 22314 (703) 549-6422

RCF FIELDS, JR. & ASSOCIATES
A PROFESSIONAL CORPORATION

COMP.	SPL
DRAWN	SPL/DJO
CHECKED	RCF

FILE NO. 06-22
SHEET 1 OF 1

67' X 64'

S. 46° 14' 41" W.

195.00'

464.38'

LOT 14
2.10938 ACS.

467.74'

LOWER LIMIT

STRAW BALES
FOR SILT CNTL.

WALL LINE

PROPOSED
SDS

13

DRAINFIELD-
8 LINES 61' LG. = 488'
LINES 6' O.C.
PROVIDE 50%
REPLACEMENT AREA

190' TO SDS PROPOSED

DIST. BOX
IN 80.8
OUT 80.7

F.D.V. INV. 80.9

1480 GAL SEPTIC TANK
IN 81.2
OUT 81.1

TREE
CLEAR
AREA

DRIVE

S. 47° 38' 26" E.

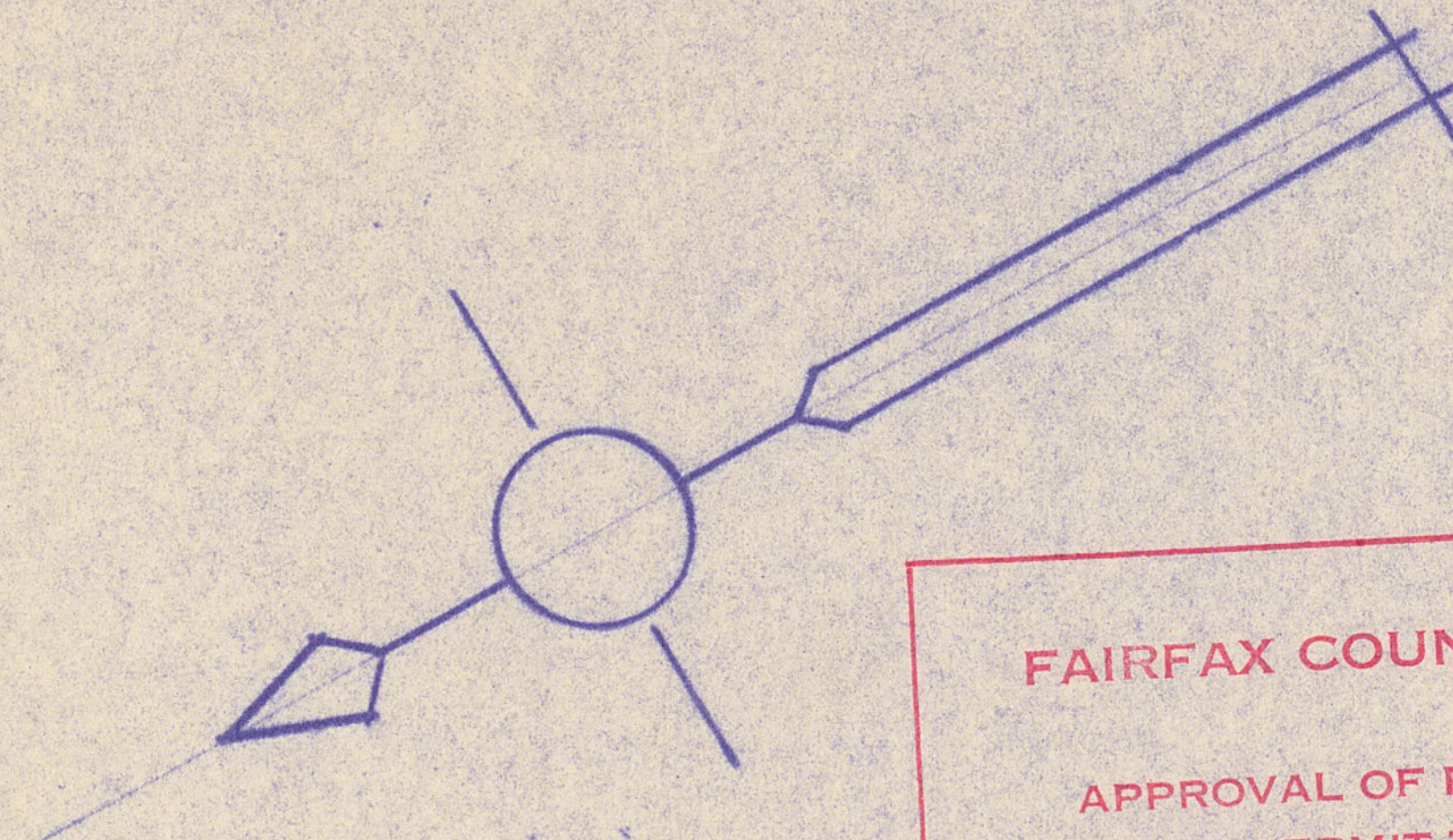
N. 47° 05' 33" E.

S. 48° 12' 43" E.

200.58'

11" X 18" X 22' CMPA

SENECA ROAD RT. 602



FAIRFAX COUNTY HEALTH DEPARTMENT

APPROVAL OF PLAT PLAN ONLY. THIS IS
NOT A PERMIT TO INSTALL A WATER SUPPLY
OR A SEWAGE DISPOSAL SYSTEM.

Mr. L. L. Smith

FAIRFAX COUNTY HEALTH DEPARTMENT

Division of Environmental Health
All underground utility lines and utility easements
must be located a minimum of 4 feet from any
sub-surface disposal systems.



INITIAL
APPROVAL

ZONING ADMINISTRATOR
DATE

GRADING PLAN
LOT 14 SECTION TWO
SENECA FARMS

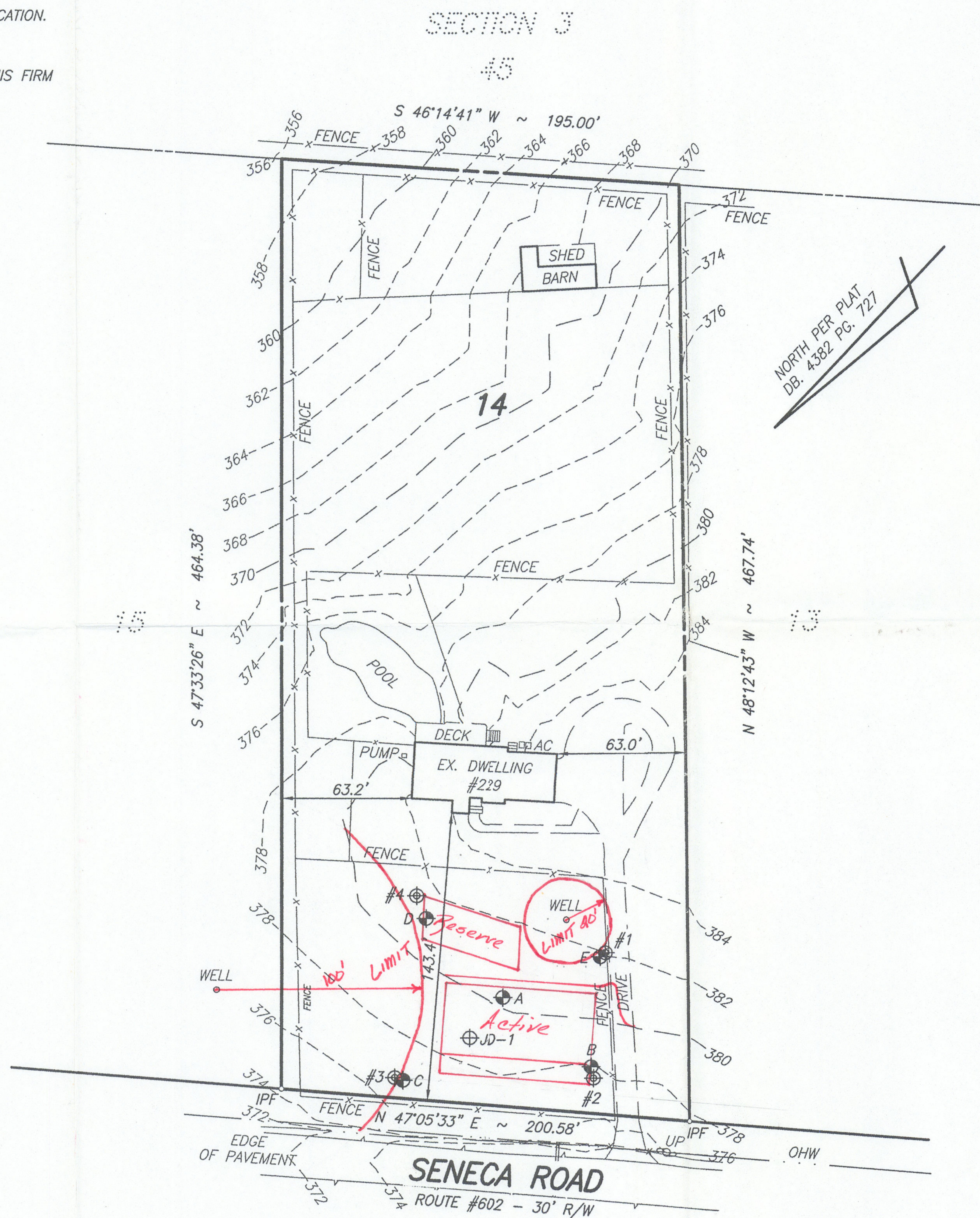
DRANESVILLE DISTRICT
FAIRFAX COUNTY VIRGINIA
SCALE: 1" = 50' DATE: 10-6-76

JAMES A. SMITH & ASSOC'S.
6623-A OLD DOMINION DRIVE, MCLEAN, VA.
CIVIL ENGINEERS - LAND SURVEYORS.

ZONED RE-2
PROPERTY RECORDED IN
D.B. 4382 PG. 734

NOTES:

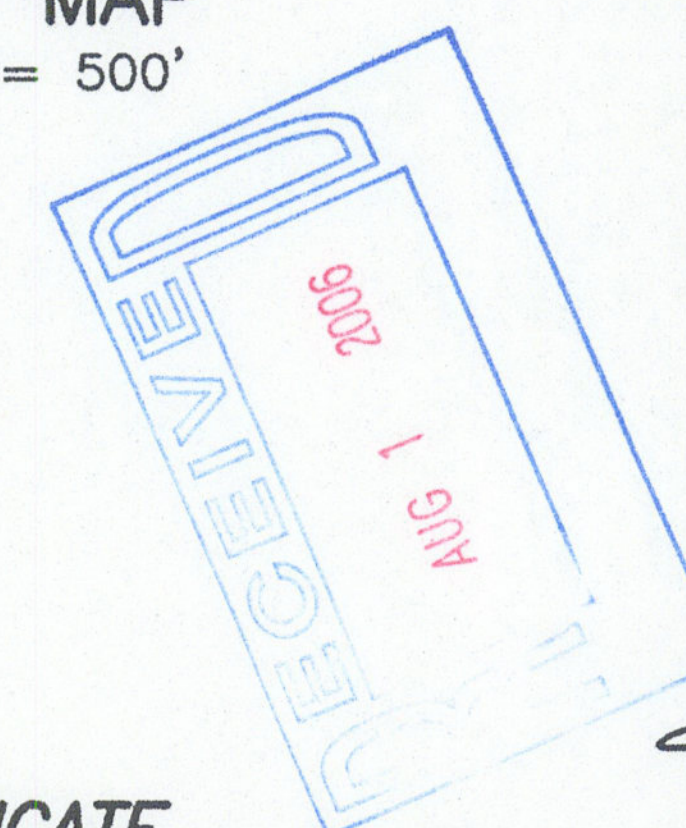
1. TAX MAP # 002-2-02-0014.
2. TITLE REPORT NOT FURNISHED, THUS ALL EASEMENTS MAY NOT BE SHOWN.
3. PLAT SUBJECT TO RESTRICTIONS OF RECORD.
4. ZONE: R-E
5.  DENOTES PERC HOLE LOCATION.
 DENOTES PROFILE HOLE LOCATION.
 JD-1 DENOTES JOHN DIXON BORING LOCATION.
6. TOTAL SITE AREA = 2.1094 ACS.
7. TOPOGRAPHIC SURVEY WAS FIELD RUN BY THIS FIRM ON APRIL 13, 2006.
8. OWNER: RAJA TARIQ MAHMOOD
DB. 16830, PAGE 202



RECEIVED AUG 01 2006

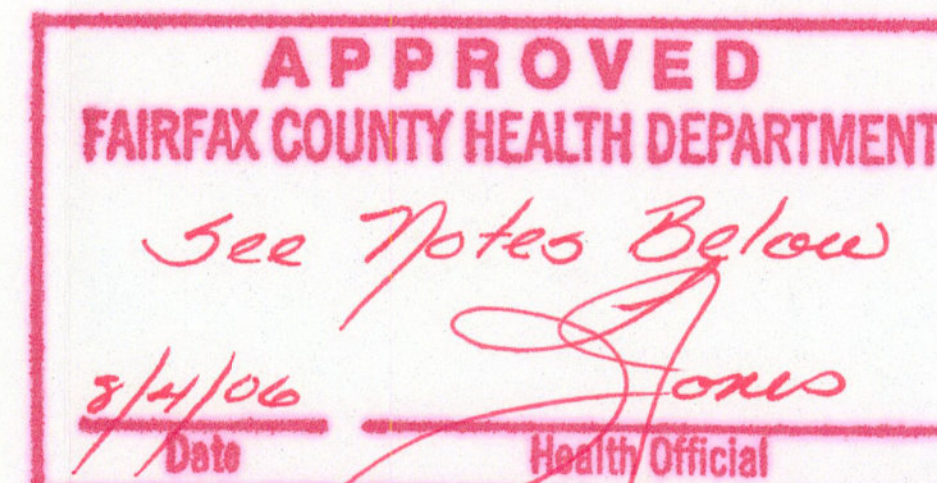


VICINITY MAP
SCALE: 1" = 500'



SURVEYOR'S CERTIFICATE

I HEREBY CERTIFY THAT PROFILE HOLE #1, #2, #3 AND #4 WERE LOCATED BY A FIELD RUN SURVEY ON APRIL 13, 2006 AND PERC HOLES A, B, C, D, E, AND JD-1 WERE LOCATED BY A FIELD RUN SURVEY ON JUNE 14, 2006.



Active Area
13 Rate @ 60" after grade cuts
6 Bedrooms
8 lines @ 72'
Reserve Area
13 Rate @ 60" after grade cuts
Loading Rate: 2.5 gal/ft²/day
4 lines @ 50'
Existing well must be properly abandoned

PLAT

SHOWING PROFILE HOLE, PERC HOLE AND
JOHN DIXON BORING LOCATIONS
LOT 14 SECTION 2

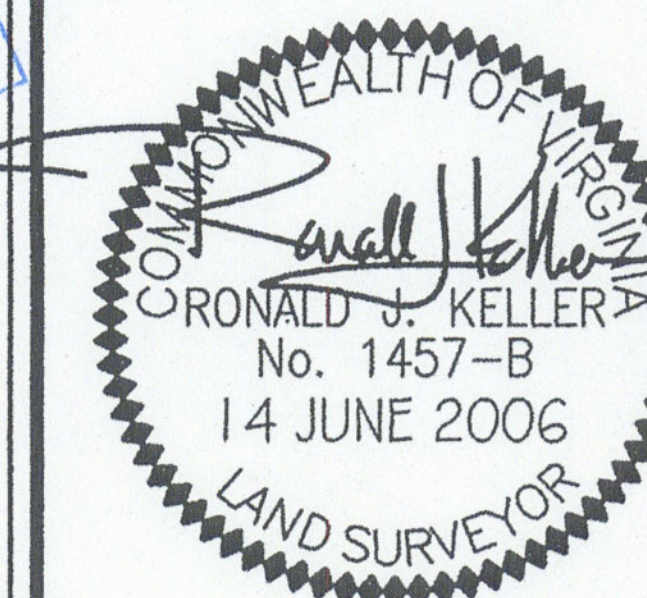
SENECA FARMS

(229 SENECA ROAD)

DRANESVILLE DISTRICT

FAIRFAX COUNTY, VIRGINIA

RCF ASSOCIATES
A PROFESSIONAL CORPORATION
LAND SURVEYING • SITE PLANNING • SUBDIVISION DESIGN
730 S. Washington Street
Alexandria, Virginia 22314
(703) 549-6422



DATE	REVISION

DESIGN: P.A.W.

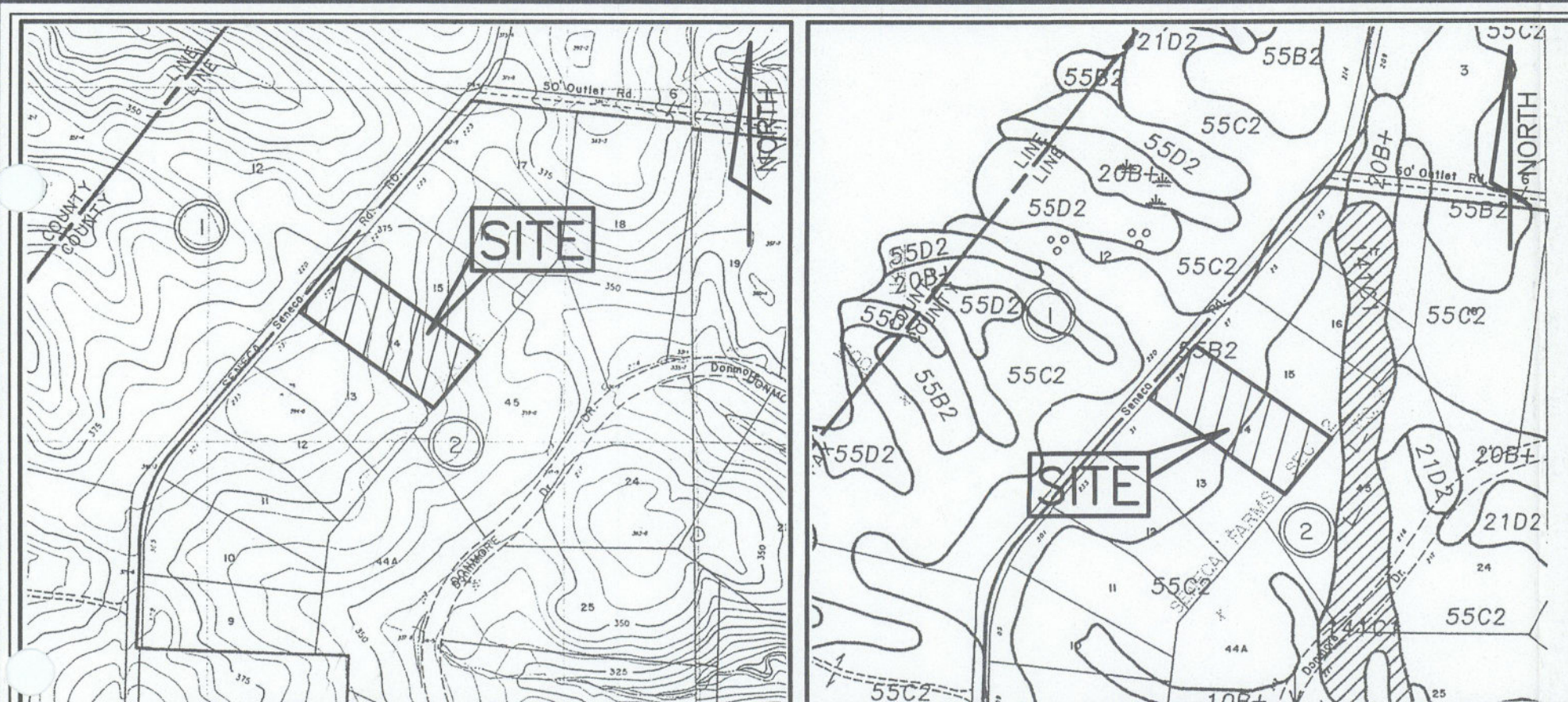
DRAWN: A.D.F.

SCALE: 1" = 50'

DATE: JUNE 14, 2006

SHEET 1 OF 1

FILE: 06-22



VICINITY & TOPO MAP
(SCALE 1" = 500')

SOILS MAP
(SCALE 1" = 500')

SOILS TABLE			
LOT NO.	SOILS NO.	SOILS NAME	PROBLEM CLASS
14	55	GLENELG	C

SOILS IDENTIFICATION PROVIDED BY: FAIRFAX COUNTY SOILS MAPS

EROSION AND SEDIMENT CONTROL NARRATIVE

PROJECT DESCRIPTION:

THIS 2.1094 AC. SITE IS LOCATED ON SENECA ROAD IN THE DRANESVILLE DISTRICT AND CONSISTS OF ONE (1) LOT. THE SITE IS NOT LOCATED IN A FLOODPLAIN NOR IN AN RPA. THERE IS ONE (1) RESIDENTIAL DWELLING AND DRIVEWAY PROPOSED ON THIS SITE. THE PROPOSED DWELLING WILL UTILIZE THE PROPOSED PRIVATE SEPTIC SYSTEM AND WELL. ON-SITE, THE CONSTRUCTION WILL DISTURB 1.17 ACRES ON-SITE. TREE PROTECTION WILL BE INSTALLED TO PROTECT EXISTING TREES TO BE SAVED. DISTURBANCE WILL BE KEPT TO THE MINIMUM NECESSARY FOR CONSTRUCTION OF THE DWELLING AND SEPTIC SYSTEM.

EXISTING CONDITIONS:

THIS SITE IS CURRENTLY OCCUPIED BY A DWELLING, DRIVEWAY, SHED AND BARN. THE EXISTING DWELLING AND PARTIAL DRIVEWAY WILL BE REMOVED. THE SITE DRAINS IN TWO DIRECTIONS. TO THE NORTHWEST AND TO THE EAST BY OVERLAND FLOW FOLLOWING NATURAL DRAINAGE DIVIDES. THE SLOPE ON THE SITE IS ABOUT 2.0%-15.0% WITH MULTIPLE TREES ON THE LOT.

ADJACENT AREAS:

THE SITE IS BOUNDED ON ALL SIDES BY RESIDENTIAL LOTS. TO THE NORTHWEST IS SENECA ROAD.

OFF-SITE AREAS:

THERE WILL BE NO OFF-SITE WORK PROPOSED WITH THIS PLAN.

CRITICAL AREAS:

THE CRITICAL AREA IS ALONG THE LIMITS OF CLEARING AND GRADING ALONG ADJACENT PROPERTIES WHERE SILT FENCE IS TO BE KEPT ON-SITE AND THE TREES ARE TO BE SCREENED BY TREE PROTECTION WHERE NECESSARY.

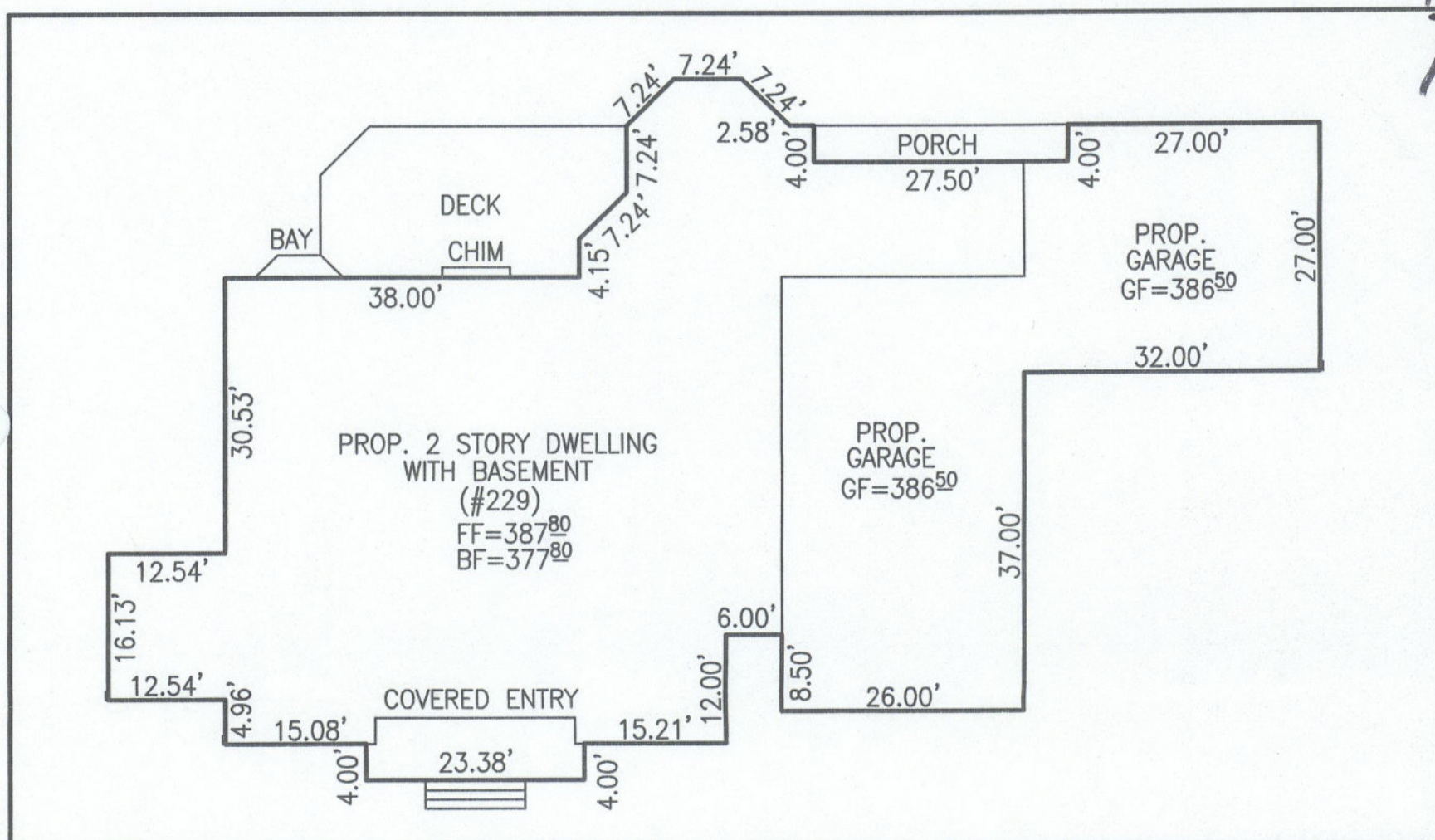
SOILS:

SOILS FOR THIS SITE HAVE BEEN IDENTIFIED AS GLENELG(55). THE "K" VALUE FOR GLENELG IS 0.37. GLENELG IS IN PROBLEM CLASS C.

ADDITIONAL NOTES:

ANY DISTURBED AREA NOT COVERED BY SECTION 11-0406.1 AND NOT PAVED, SODDED OR BUILT UPON BY NOVEMBER 1, OR DISTURBED AFTER THAT DATE, SHALL BE MULCHED IMMEDIATELY WITH HAY OR STRAW MULCH AT THE RATE OF 2 TONS/ACRE AND OVER-SEEDED BY APRIL 15.

HOUSE DETAIL, LOT 14
SCALE: 1" = 20'



OUTFALL NARRATIVE

THE STORMWATER RUNOFF FROM THIS PROPERTY HONORS NATURAL DRAINAGE PATTERNS. STORMWATER IS DIRECTED BY GRASS SWALES AND OVERLAND FLOW TO TWO LOCATIONS ON THE PROPERTY. ONE IS THE EAST CORNER, AND THE OTHER ONE IS THE NORTHWEST CORNER. A SMALL PORTION OF RUNOFF FROM THE NORTHWEST CORNER DRAINS INTO THE DITCH WITHIN THE SENECA ROAD RIGHT-OF-WAY. THE RUNOFF WITHIN THE DITCH IS CONVEYED TO THE NORTHEAST AND DRAINS INTO AN EXISTING STREAM. THE STREAM FLOWS TO THE NORTHWEST INTO LOUDOUN COUNTY. THE OTHER LARGER PORTION OF THE SITE'S RUNOFF WHICH DRAINS TO THE EAST CORNER OF THE PROPERTY IS CONVEYED BY NATURAL SWALES TO THE EAST AND THEN TO THE SOUTHEAST AND DRAINS INTO AN EXISTING STREAM AFTER CROSSING DONMORE ROAD. THE STREAM CONTINUES TO FLOW TO SOUTHEAST AND IS COLLECTED BY JEFFERSON BRANCH. AT THIS POINT, THE DRAINAGE AREA IS AT LEAST 100 TIMES GREATER THAN THE SITE'S AREA. JEFFERSON BRANCH WILL EVENTUALLY OUTFALL INTO THE BED AND BANKS OF THE NICHOL RUN. RUNOFF INCREASE IS MINIMAL, ONLY 0.30 CFS FOR THE 2.1094 AC. SITE, FOR THE PROPOSED REDEVELOPMENT. WE ARE OF THE OPINION THAT THE OUTFALL IS ADEQUATE FOR THIS LOT. THERE WILL BE NO ADVERSE EFFECTS ON ADJACENT OR DOWNSTREAM PROPERTIES.

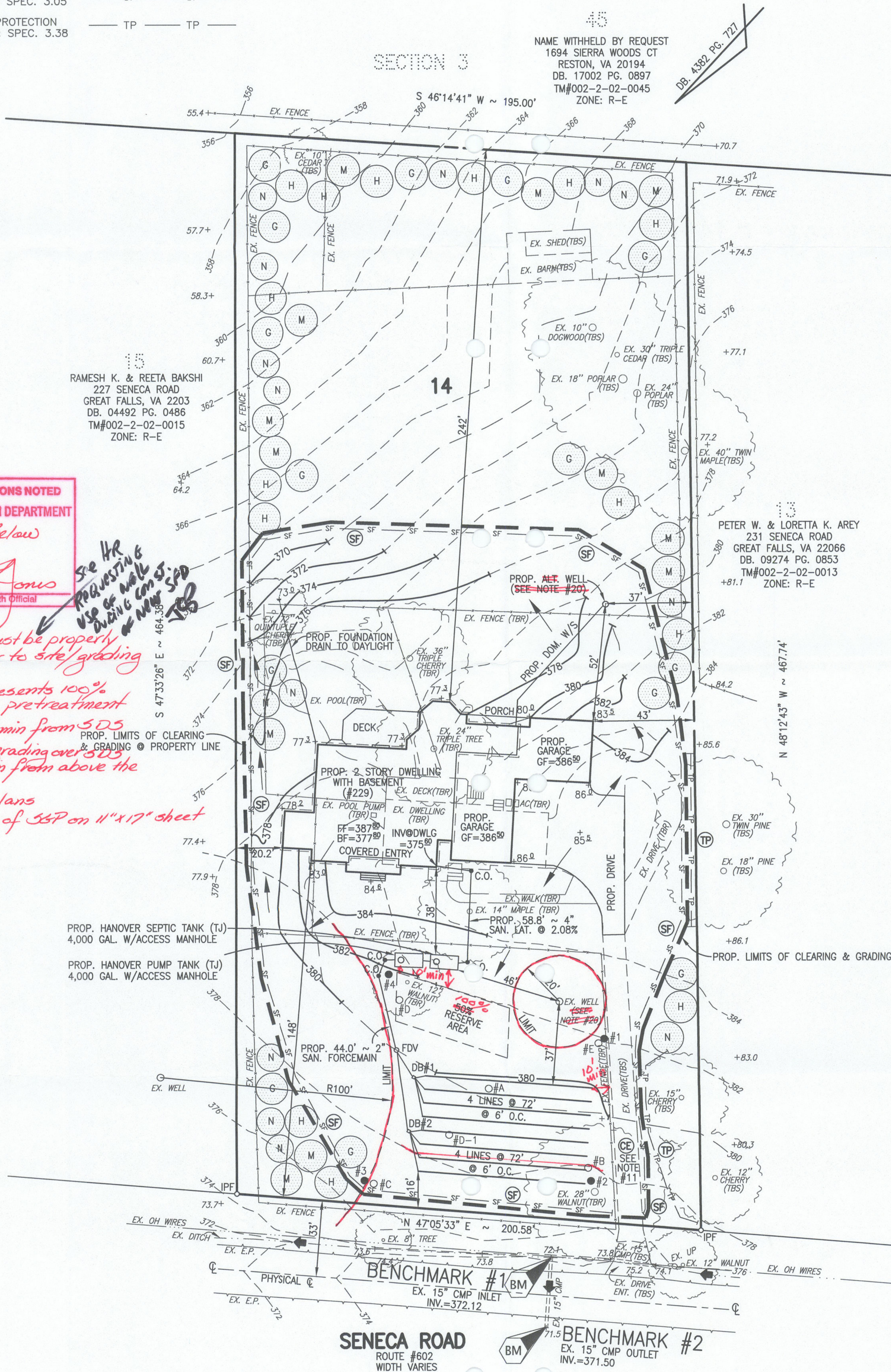
REFER TO OUTFALL MAP ON SHEET 2

VIRGINIA UNIFORM CODING SYSTEM KEY DESCRIPTIONS

CE	CONSTRUCTION ENTRANCE WITH WASH RACK STD. & SPEC. 3.02	CE
SF	SILT FENCE STD. & SPEC. 3.05	SF
TP	TREE PROTECTION STD. & SPEC. 3.38	TP

REJECTED FOR REASONS NOTED
FAIRFAX COUNTY HEALTH DEPARTMENT
See Notes Below
8/31/06
Date
Health Official

- 1. Existing well must be properly abandoned prior to site grading plan review
- 2. Reserve area represents 100% of SIDS utilizing pretreatment
- 3. Keep driveway 10' min from SIDS
- 4. Show all proposed grading over SIDS
- 5. Keep tanks 10' min from above the reserve area
- 6. Resubmit pump plans
- 7. Resubmit 1 copy of SSP on 11"x17" sheet



GENERAL NOTES:

- TAX MAP: #002-2-02-0014
- ZONE: R-E
- OWNER: RAJA TARIQ MAHMOOD
229 SENECA ROAD
GREAT FALLS, VA 22066
D.B. 16630, PG. 0202
DEVELOPER: SAXON BUILDERS
- TOPOGRAPHIC SURVEY FIELD RUN BY THIS FIRM.
- TITLE REPORT IS NOT FURNISHED. THUS ALL EASEMENTS MAY NOT BE SHOWN.
- PLAT SUBJECT TO RESTRICTIONS OF RECORD.
- TOTAL SITE AREA: 91,885 SQ. FT. OR 2.1094 AC.
EX. IMPERVIOUS AREA: 6,903 SQ. FT. OR 0.1585 AC.
EX. IMPERVIOUS AREA (T.B.R.): 4,844 SQ. FT. OR 0.1112 AC.
PROP. IMPERVIOUS AREA: 8,322 SQ. FT. OR 0.1910 AC.
TOTAL IMPERVIOUS AREA(AFTER CONSTRUCTION): 10,381 SQ. FT. OR 0.2383 AC.
(11.3% < 18%, NO BMP REQUIRED) OR 11.3%
- TOTAL DISTURBED AREA = 50,896 SQ. FT. OR 1.1684 AC.
- SOIL TYPE: SEE MAP AND TABLE.
- PROPOSED UTILITIES WILL BE PLACED UNDERGROUND.
- THE EXISTING DRIVEWAY WILL BE USED AS THE CONSTRUCTION ENTRANCE. ALL VEHICLES SHALL BE CLEANED PRIOR TO ENTERING ONTO THE PUBLIC RIGHT-OF-WAY.
- THIS LOT IS NOT IN A BONDED SUBDIVISION.
- (T.B.R.) DENOTES TO BE REMOVED. (T.B.S.) DENOTES TO BE SAVED.
- TREE PROTECTION REQUIRED ONLY WHERE SILT FENCE IS NOT ADEQUATE PROTECTION. CONSULT INSPECTOR.
- DETOTES EXISTING GRADE: 82.4
DETOTES PROPOSED GRADE: 82.4
- BUILDING HEIGHT NOT EXCEED 35'. THIS DWELLING IS A CUSTOM HOUSE. REFER TO DWELLING HEIGHT CALCULATIONS ON SHEET #2.
- THIS LOT AREA IS LOCATED IN THE NICHOL RUN WATERSHED.
- AREA OF FRONT YARD = 29,100 SQ. FT.
ALLOWABLE IMPERVIOUS AREA IN FRONT YARD (25%) = 7,275 SQ. FT.
PERCENTAGE OF IMPERVIOUS AREA IN FRONT YARD = 5.2% (1,499 SQ. FT.)
- A DEMOLITION PERMIT WILL BE OBTAINED FOR THE REMOVAL OF THE EXISTING DWELLING ON THIS SITE.
- THE EXISTING WELL IS TO BE USED FOR IRRIGATION PURPOSE IF DEEMED ADEQUATE UPON A FIELD INSPECTION. AN ALTERNATE WELL LOCATION IS SHOWN IN NECESSARY. CONSULT HEALTH DEPARTMENT. IF EXISTING WELL IS TO BE REMOVED, IT SHALL BE PERFORMED UNDER THE SUPERVISION OF THE HEALTH DEPARTMENT AND PER HEALTH DEPARTMENT STANDARDS.
- NO CONSTRUCTION WILL TAKE PLACE IN A PROBLEM SOIL AREA WITHOUT AN APPROVED STUDY.
- THE SEPTIC TANK MUST BE PUMPED AT LEAST ONCE EVERY 5 YEARS AND PUMPING REPORTED TO THE HEALTH DEPARTMENT.
- DENOTES PERC. HOLE: ○ A
DENOTES PROFILE HOLE: ● #2

SEPTIC INFORMATION:

FIELD PERC RATE:	13 R @ 50" FOR ACTIVE AREA 13 R @ 60" FOR RESERVE AREA 6
NUMBER OF BEDROOMS:	13 R = 95.4 LINEAR FEET PER BEDROOM
DRAIN LINE REQ./BEDROOM:	572.4 L.F.
TOTAL DRAIN LINES REQUIRED:	576.0 L.F.
TOTAL DRAIN LINES PROVIDED:	
INVERT OF LATERAL AT DWELLING: 375.6 GRADE AT DWELLING: 385.0	
SEPTIC TANK (4,000 GAL.) HANOVER SEPTIC TANK (TJ) GRADE: 382.7 TOP: 375.7 INV. (IN): 374.4 INV. (OUT): 374.3	PUMP TANK (4,000 GAL.) HANOVER PUMP TANK (TJ) GRADE: 382.5 TOP: 375.5 INV. (IN): 374.2 PUMP OFF: 371.1
FLOW DIVERSION VALVE (FDV) GRADE: 380.0 TOP: 379.0 INV.: 378.7	DISTRIBUTION BOX #1 (DB#1) GRADE: 379.5 TOP: 378.5 INV.: 378.0
	DISTRIBUTION BOX #2 (DB#2) GRADE: 378.5 TOP: 377.5 INV.: 377.0

CHESAPEAKE BAY PRESERVATION ORDINANCE CERTIFICATE:

I HEREBY CERTIFY THAT I HAVE EXAMINED THE ABOVE REFERENCED PLAN(S) AND FIND THEM TO BE IN GENERAL CONFORMANCE WITH THE REQUIREMENTS OF THE CHESAPEAKE BAY PRESERVATION ORDINANCE (COUNTY CODE CHAPTER 118). I FURTHER CERTIFY THAT THERE ARE NO RESOURCE PROTECTION AREAS (RPA) LOCATED ON THIS LOT BASED ON AN EXAMINATION OF THE AFOREMENTIONED PLANS AND THE OFFICIAL CHESAPEAKE BAY PRESERVATION AREA MAPS ADOPTED BY THE BOARD OF SUPERVISORS ON JULY 7, 2003 AND EFFECTIVE NOVEMBER 18, 2003 THROUGH JULY 12, 2005.

FAIRFAX COUNTY LOT CERTIFICATE:

I HEREBY CERTIFY TO THE BEST OF MY KNOWLEDGE AND BELIEF THAT ALL APPROPRIATE COUNTY APPROVALS WERE OBTAINED IN ACCORDANCE WITH THE PROCESS REQUIRED BY THE SUBDIVISION ORDINANCE IN EFFECT AT THE TIME OF CREATION OF THE SENECA FARMS SUBDIVISION. THE LOT WAS CREATED AS PART OF THE SENECA FARMS SUBDIVISION RECORDED AS LOT 14, SECTION 2 ON APRIL 12, 1976, IN DEED BOOK 4382, PAGE 727.

I HEREBY CERTIFY THAT ALL WETLANDS PERMITS REQUIRED BY LAW WILL BE OBTAINED PRIOR TO COMMENCING LAND DISTURBING ACTIVITIES.

SIGNATURE: _____

OWNER/DEVELOPER: _____

NAME

TITLE

THIS DRAWING IS A SERVICE DOCUMENT OF R.C. FIELDS, JR. & ASSOC., P.C. AND MAY NOT BE USED OR REPRODUCED WITHOUT THE WRITTEN PERMISSION OF THE ENGINEER AND/OR LAND SURVEYOR.

EXISTING UTILITIES SHOWN ON THIS PLAN TAKEN FROM AVAILABLE RECORDS AND/OR FROM FIELD OBSERVATIONS. FOR EXACT LOCATIONS OF EXISTING UNDERGROUND UTILITIES, NOTIFY "MISS UTILITY" AT 1-800-257-7777, 72 HOURS BEFORE THE START OF ANY EXCAVATION OR CONSTRUCTION.

LOCATION AND DEPTH OF ALL EXISTING UNDERGROUND UTILITIES TO BE VERIFIED BY CONTRACTOR PRIOR TO CONSTRUCTION. INTERFERENCE OR DISRUPTION OF SAME WILL NOT BE THE RESPONSIBILITY OF THIS OFFICE.

ALL CONSTRUCTION SHALL CONFORM TO THE CURRENT STANDARDS AND SPECIFICATIONS OF FAIRFAX COUNTY, VIRGINIA.
©2006 R.C. FIELDS JR. & ASSOC.

R.C. FIELDS, JR. & ASSOCIATES
A PROFESSIONAL CORPORATION
LAND SURVEYING • SITE PLANNING • SUBDIVISION DESIGN
730 S. Washington Street
Alexandria, Virginia 22314
(703) 549-6422

COMMONWEALTH OF VIRGINIA
RONALD J. KELLER
NO. 1457-B
15 AUG. 2006
LAND SURVEYOR

GRADING PLAN
LOT 14 SECTION 2
SENECA FARMS
(229 SENECA ROAD)
DRANESVILLE DISTRICT
FAIRFAX COUNTY, VIRGINIA

DATE REVISION

DESIGN: K.E.O./C. XIE

DRAWN: K.E.O./C. XIE

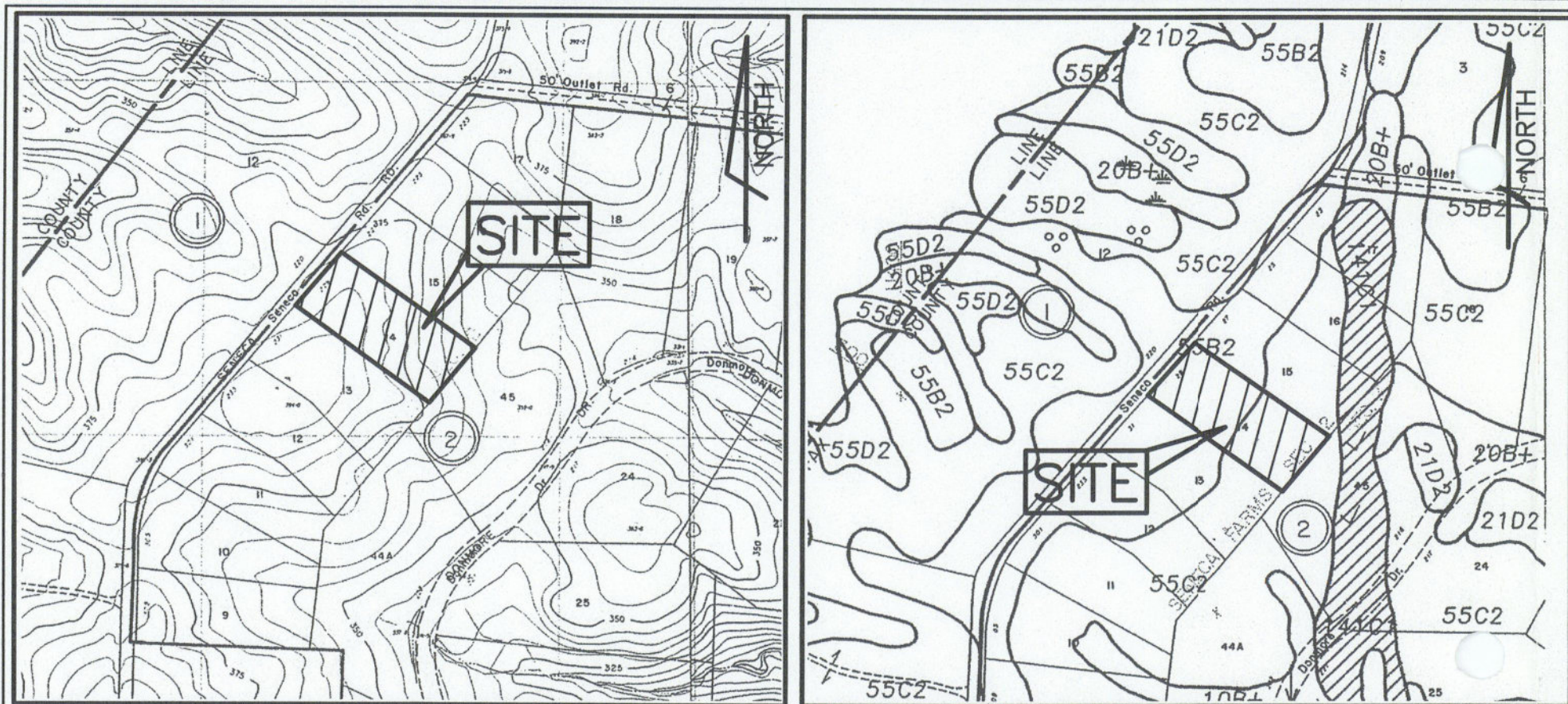
SCALE: 1" = 30'

DATE: 15 AUG. 2006

SHEET 1 OF 2

FILE: 06-22

06-22 - GRADING PLAN



VICINITY & TOPO MAP
(SCALE 1" = 500')

SOILS MAP
(SCALE 1" = 500')

SOILS TABLE			
LOT NO.	SOILS NO.	SOILS NAME	PROBLEM CLASS
14	55	GLENELG	C

SOILS IDENTIFICATION PROVIDED BY: FAIRFAX COUNTY SOILS MAPS

EROSION AND SEDIMENT CONTROL NARRATIVE

PROJECT DESCRIPTION:
THIS 2.1094 AC. SITE IS LOCATED ON SENECA ROAD IN THE DRANESVILLE DISTRICT AND CONSISTS OF ONE (1) LOT. THE SITE IS NOT LOCATED IN A FLOODPLAIN NOR IN AN RPA. THERE IS ONE(1) RESIDENTIAL DWELLING AND DRIVEWAY PROPOSED ON THIS SITE. THE PROPOSED DWELLING WILL UTILIZE THE PROPOSED PRIVATE SEPTIC SYSTEM AND WELL. ON-SITE, THE CONSTRUCTION WILL DISTURB 0.98 ACRES ON-SITE. TREE PROTECTION WILL BE INSTALLED TO PROTECT EXISTING TREES TO BE SAVED. DISTURBANCE WILL BE KEPT TO THE MINIMUM NECESSARY FOR CONSTRUCTION OF THE DWELLING AND SEPTIC SYSTEM.

EXISTING CONDITIONS:
THIS SITE IS CURRENTLY OCCUPIED BY A DWELLING, DRIVEWAY, SHED AND BARN. THE EXISTING DWELLING AND PARTIAL DRIVEWAY WILL BE REMOVED. THE SITE DRAINS IN TWO DIRECTIONS. TO THE NORTHWEST AND TO THE EAST BY OVERLAND FLOW FOLLOWING NATURAL DRAINAGE DIVIDES. THE SLOPE ON THE SITE IS ABOUT 2.0%-15.0% WITH MULTIPLE TREES ON THE LOT.

ADJACENT AREAS:
THE SITE IS BOUNDED ON ALL SIDES BY RESIDENTIAL LOTS. TO THE NORTHWEST IS SENECA ROAD.

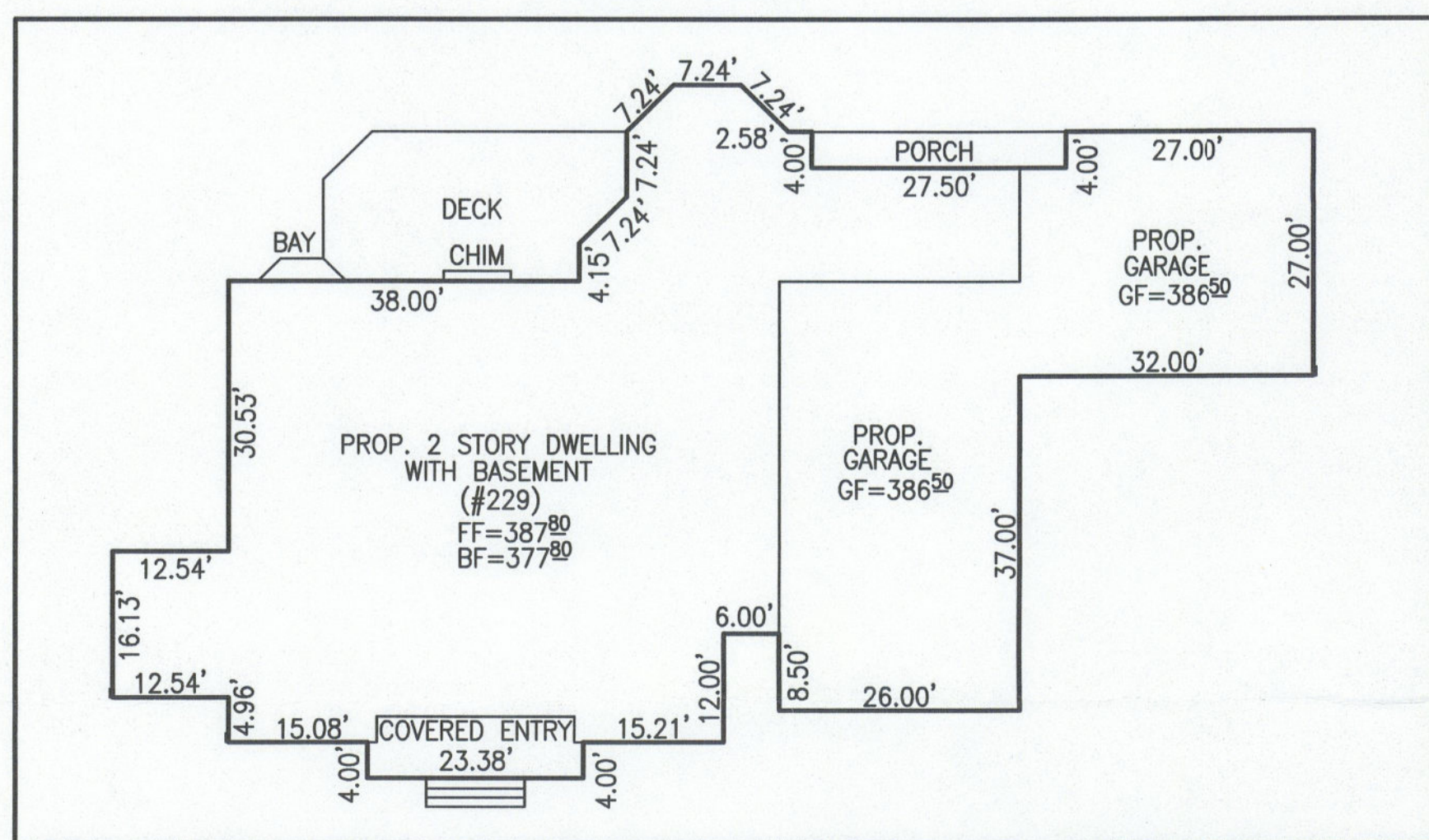
OFF-SITE AREAS:
THERE WILL BE NO OFF-SITE WORK PROPOSED WITH THIS PLAN.

CRITICAL AREAS:
THE CRITICAL AREA IS ALONG THE LIMITS OF CLEARING AND GRADING ALONG ADJACENT PROPERTIES WHERE SILT FENCE IS TO BE KEPT ON-SITE AND THE TREES ARE TO BE SCREENED BY TREE PROTECTION WHERE NECESSARY.

SOILS:
SOILS FOR THIS SITE HAVE BEEN IDENTIFIED AS GLENELG(55). THE "K" VALUE FOR GLENELG IS 0.37. GLENELG IS IN PROBLEM CLASS C.

ADDITIONAL NOTES:
ANY DISTURBED AREA NOT COVERED BY SECTION 11-0406.1 AND NOT PAVED, SODDED OR BUILT UPON BY NOVEMBER 1, OR DISTURBED AFTER THAT DATE, SHALL BE MULCHED IMMEDIATELY WITH HAY OR STRAW MULCH AT THE RATE OF 2 TONS/ACRE AND OVER-SEEDED BY APRIL 15.

HOUSE DETAIL, LOT 14
SCALE: 1" = 20'



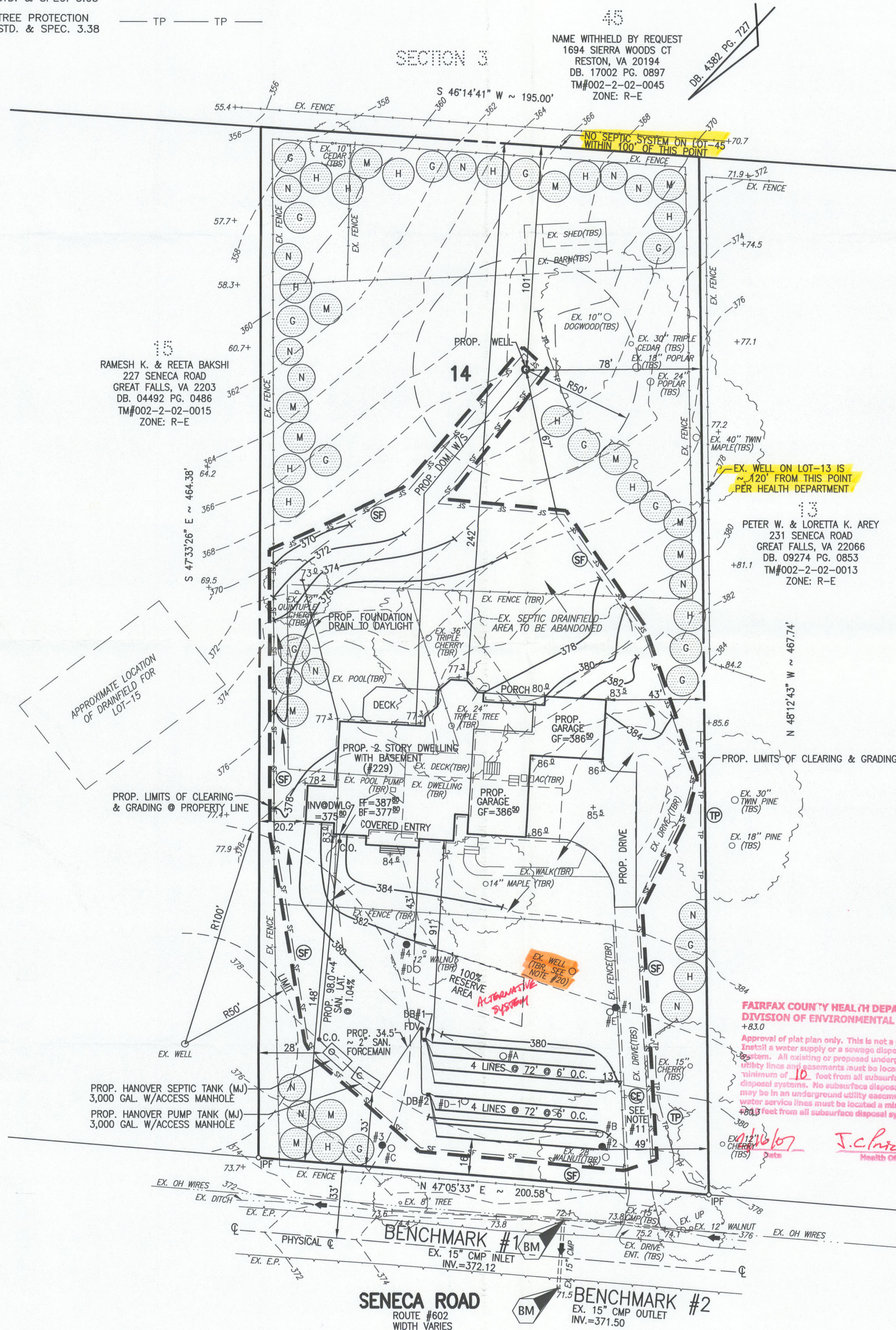
OUTFALL NARRATIVE

THE STORMWATER RUNOFF FROM THIS PROPERTY HONORS NATURAL DRAINAGE PATTERNS. STORMWATER IS DIRECTED BY GRASS SWALES AND OVERLAND FLOW TO TWO LOCATIONS ON THE PROPERTY. ONE IS THE EAST CORNER OF THE REAR YARD, AND THE OTHER ONE IS THE NORTHWEST CORNER OF THE FRONT YARD. THE RUNOFF FROM THE NORTHWEST CORNER WHICH IS APPROXIMATELY ONE-THIRD OF THE SITE'S RUNOFF DRAINS INTO THE DITCH WITHIN THE SENECA ROAD RIGHT-OF-WAY. THE RUNOFF WITHIN THE DITCH IS DIRECTED TO THE NORTHEAST AND DRAINS INTO AN EXISTING STREAM. THE STREAM FLOWS TO THE NORTHWEST INTO LOUDOUN COUNTY. THE RUNOFF TO THE EAST CORNER OF THE PROPERTY IS CONVEYED BY SHEET FLOW TO THE EAST AND THEN BY NATURAL SWALES TO THE SOUTHEAST AND DRAINS INTO AN EXISTING STREAM AFTER CROSSING DONMORE ROAD. THE STREAM CONTINUES TO FLOW TO SOUTHEAST AND IS COLLECTED BY THE JEFFERSON BRANCH. AT THIS POINT, THE DRAINAGE AREA IS AT LEAST 100 TIMES GREATER THAN THE SITE'S AREA. THE JEFFERSON BRANCH WILL EVENTUALLY OUTFALL INTO THE BEDS AND BANKS OF THE NICHOL RUN. RUNOFF INCREASE IS MINIMAL, ONLY 0.30 CFS FOR THE 2.1094 AC. SITE, FOR THE PROPOSED REDEVELOPMENT. WE ARE OF THE OPINION THAT THE OUTFALL IS ADEQUATE FOR THIS LOT. THERE WILL BE NO ADVERSE EFFECTS ON ADJACENT OR DOWNSTREAM PROPERTIES.

REFER TO OUTFALL MAP ON SHEET 3

VIRGINIA UNIFORM CODING SYSTEM KEY DESCRIPTIONS

CE	CONSTRUCTION ENTRANCE WITH WASH RACK STD. & SPEC. 3.02	CE
SF	SILT FENCE STD. & SPEC. 3.05	SF
TP	TREE PROTECTION STD. & SPEC. 3.38	TP



GENERAL NOTES:

- TAX MAP: #002-2-02-0014
- ZONE: R-E
- OWNER: RAJA TARIO MAHMOOD
229 SENECA ROAD
GREAT FALLS, VA 22066
D.B. 16830, PG. 0202
DEVELOPER: SAXON BUILDERS
- TOPOGRAPHIC SURVEY FIELD RUN BY THIS FIRM.
- TITLE REPORT IS NOT FURNISHED. THUS ALL EASEMENTS MAY NOT BE SHOWN.
- PLAT SUBJECT TO RESTRICTIONS OF RECORD.
- TOTAL SITE AREA 91,885 SQ. FT. OR 2.1094 AC.
EX. IMPERVIOUS AREA 6,903 SQ. FT. OR 0.1585 AC.
EX. IMPERVIOUS AREA (T.P.R.) 4,844 SQ. FT. OR 0.1112 AC.
PROP. IMPERVIOUS AREA 8,322 SQ. FT. OR 0.1910 AC.
TOTAL IMPERVIOUS AREA(AFTER CONSTRUCTION) 10,381 SQ. FT. OR 0.2383 AC.
(11.3% < 18%, NO BMP REQUIRED) OR 11.3%
- TOTAL DISTURBED AREA = 42,748 SQ. FT. OR 0.9814 AC.
- SOIL TYPE: SEE MAP AND TABLE.
- PROPOSED UTILITIES WILL BE PLACED UNDERGROUND.
- THE EXISTING DRIVEWAY WILL BE USED AS THE CONSTRUCTION ENTRANCE. ALL VEHICLES SHALL BE CLEANED PRIOR TO ENTERING INTO THE PUBLIC RIGHT-OF-WAY.
- THIS LOT IS NOT IN A BONDED SUBDIVISION.
- (T.B.R.) DENOTES TO BE REMOVED. (T.B.S.) DENOTES TO BE SAVED.
- TREE PROTECTION REQUIRED ONLY WHERE SILT FENCE IS NOT ADEQUATE PROTECTION. CONSULT INSPECTOR.
- DETOTES EXISTING GRADE: 82.4
DENOTES PROPOSED GRADE: 82.4
- BUILDING HEIGHT NOT EXCEED 35'. THIS DWELLING IS A CUSTOM HOUSE. REFER TO BUILDING HEIGHT CERTIFICATE ON SHEET #3.
- THIS LOT AREA IS LOCATED IN THE NICHOL RUN WATERSHED.
- AREA OF FRONT YARD = 29,100 SQ. FT.
ALLOWABLE IMPERVIOUS AREA IN FRONT YARD (25%) = 7,275 SQ. FT.
PERCENTAGE OF IMPERVIOUS AREA IN FRONT YARD = 5.2% (1,499 SQ. FT.)
- A DEMOLITION PERMIT WILL BE OBTAINED FOR THE REMOVAL OF THE EXISTING DWELLING ON THIS SITE.
- THE EXISTING WELL MAY BE USED FOR CONSTRUCTION PURPOSES ONLY OF THE NEW HOME. IT MUST BE ABANDONED & SEALED PRIOR TO OCCUPANCY APPROVAL OF THE NEW HOME. REFER TO APPROVAL LETTER FOR PERMISSION TO USE EXISTING WELL FOR CONSTRUCTION @ 229 SENECA ROAD ON SHEET #3.
- NO CONSTRUCTION WILL TAKE PLACE IN A PROBLEM SOIL AREA WITHOUT AN APPROVED STUDY.
- THE SEPTIC TANK MUST BE PUMPED AT LEAST ONCE EVERY 5 YEARS AND PUMPING REPORTED TO THE HEALTH DEPARTMENT.
23. DENOTES PERC. HOLE: O A
DENOTES PROFILE HOLE: O #2

SEPTIC INFORMATION:

FIELD PERC RATE: 13 R @ 50" FOR ACTIVE AREA
13 R @ 60" FOR RESERVE AREA
6
13 R = 95.4 LINEAR FEET PER BEDROOM
572.4 L.F.
576.0 L.F.

INVERT OF LATERAL AT DWELLING: 375.8
GRADE AT DWELLING: 383.5

SEPTIC TANK (3,000 GAL.)
HANOVER SEPTIC TANK (MJ)
GRADE: 378.0
TOP: 376.1
INV. (IN): 374.8
INV. (OUT): 374.7

PUMP TANK (3,000 GAL.)
HANOVER PUMP TANK (MJ)
GRADE: 378.0
TOP: 375.9
INV. (IN): 374.6
PUMP OFF: 369.8

FLOW DIVERSION VALVE (FDV)
GRADE: 379.9
TOP: 378.9
INV.: 378.7

DISTRIBUTION BOX #1 (DB#1)
GRADE: 379.7
TOP: 378.7
INV.: 378.2

DISTRIBUTION BOX #2 (DB#2)
GRADE: 378.5
TOP: 377.5
INV.: 377.0

CHESAPEAKE BAY PRESERVATION ORDINANCE CERTIFICATE:

I HEREBY CERTIFY THAT I HAVE EXAMINED THE ABOVE REFERENCED PLAN(S) AND FIND THEM TO BE IN GENERAL CONFORMANCE WITH THE REQUIREMENTS OF THE CHESAPEAKE BAY PRESERVATION ORDINANCE (COUNTY CODE CHAPTER 118). I FURTHER CERTIFY THAT THERE ARE NO RESOURCE PROTECTION AREAS (RPA) LOCATED ON THIS LOT BASED ON AN EXAMINATION OF THE AFORESAIDED PLANS AND THE OFFICIAL CHESAPEAKE BAY PRESERVATION AREA MAPS ADOPTED BY THE BOARD OF SUPERVISORS ON JULY 7, 2003 AND EFFECTIVE NOVEMBER 18, 2003 THROUGH JULY 12, 2005.

FAIRFAX COUNTY LOT CERTIFICATE:

I HEREBY CERTIFY TO THE BEST OF MY KNOWLEDGE AND BELIEF THAT ALL APPROPRIATE COUNTY APPROVALS WERE OBTAINED IN ACCORDANCE WITH THE PROCESS REQUIRED BY THE SUBDIVISION ORDINANCE IN EFFECT AT THE TIME OF CREATION OF THE SENECA FARMS SUBDIVISION. THE LOT WAS CREATED AS PART OF THE SENECA FARMS SUBDIVISION RECORDED AS LOT 14, SECTION 2 ON APRIL 12, 1976, IN DEED BOOK 4382, PAGE 727.

WETLANDS CERTIFICATE:

☒ THERE ARE NO WETLANDS EFFECTED BY THIS PLAN.

☐ THIS PROJECT INVOLVES THE EXISTENCE OF WETLANDS OR WATERS OF THE UNITED STATES WITHIN THE BOUNDARIES OF THE SITE OR OFF-SITE AREAS TO BE DISTURBED. THIS PLAN HAS BEEN FORWARDED TO THE ARMY CORPS OF ENGINEERS FIELD OFFICE FOR REVIEW.

I HEREBY CERTIFY THAT ALL WETLANDS PERMITS REQUIRED BY LAW WILL BE OBTAINED PRIOR TO COMMENCING LAND DISTURBING ACTIVITIES.

SIGNATURE: _____

OWNER/DEVELOPER: _____

NAME: _____ TITLE: _____

THIS DRAWING IS A SERVICE DOCUMENT OF R.C. FIELDS, JR. & ASSOC., P.C. AND MAY NOT BE USED OR REPRODUCED WITHOUT THE WRITTEN PERMISSION OF THE ENGINEER AND/OR LAND SURVEYOR.

EXISTING UTILITIES SHOWN ON THIS PLAN TAKEN FROM AVAILABLE RECORDS AND/OR FROM FIELD OBSERVATIONS. FOR EXACT LOCATIONS OF EXISTING UTILITIES, NOTIFY MISS UTILITY AT 1-800-257-7777, 72 HOURS BEFORE THE START OF A EXCAVATION OR CONSTRUCTION.

LOCATION AND DEPTH OF ALL EXISTING UNDERGROUND UTILITIES TO BE VERIFIED BY CONTRACTOR PRIOR TO CONSTRUCTION. INTERFERENCE OR DISRUPTION OF SAME WILL NOT BE THE RESPONSIBILITY OF THIS OFFICE

ALL CONSTRUCTION SHALL CONFORM TO THE CURRENT STANDARDS AND SPECIFICATIONS OF FAIRFAX COUNTY, VIRGINIA.

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R.C. FIELDS, JR. & ASSOCIATES
A PROFESSIONAL CORPORATION
LAND SURVEYING • SITE PLANNING • SUBDIVISION DESIGN
730 S. Washington Street
Alexandria, Virginia 22314
(703) 549-6422

Professional Seal
RONALD J. KELLER
NO. 1457-B
05 SEP. 2006
LAND SURVEYOR

GRADING PLAN
LOT 14 SECTION 2
SENECA FARMS
(229 SENECA ROAD)
DRANESVILLE DISTRICT
FAIRFAX COUNTY, VIRGINIA

DATE	REVISION
12/12/06	PER FFX COUNTY HEALTH DEPT. COMMENT
01/08/07	PER FFX COUNTY HEALTH DEPT. COMMENT
01/17/07	PER FFX COUNTY HEALTH DEPT. COMMENT

DESIGN: K.E.O./C. XIE
DRAWN: K.E.O./C. XIE

SCALE: 1" = 30'
DATE: 05 SEP. 2006

SHEET 1 OF 3
FILE 06 OF 22

06-22 - GRADING PLAN