

LAYOUT 7/11/05 INSP 4 _____
INSP 2 7/11/05 INSP 5 _____
INSP 3 7/12/05 INSP 6 _____

ISSUE DATE: 4/20/05

P 522412

APPROVAL DATE: _____

A 518986

PERMIT

TAX ID #05-410657
ON-SITE SEWAGE DISPOSAL SYSTEM
HOWARD COUNTY HEALTH DEPARTMENT
BUREAU OF ENVIRONMENTAL HEALTH

Fogles Septic Clean, Inc. IS PERMITTED TO INSTALL ALTER

ADDRESS: 580 Obrecht Rd., Sykesville 21794 PHONE NUMBER: 410-795-5670

SUBDIVISION: Twelve Hills LOT NUMBER: 51

ADDRESS: 13058 Twelve Hills Road PROPERTY OWNER: Samir Hismek

SEPTIC TANK CAPACITY (GALLONS): 1500 OUTLET BAFFLE FILTER REQUIRED

PUMP CHAMBER CAPACITY (GALLONS): 1500 COMPARTMENTED TANK REQUIRED

NUMBER OF BEDROOMS: 5

SQUARE FEET PER BEDROOM: 180

LINEAR FEET OF TRENCH REQUIRED: 200 HOUSE SERVED BY PUBLIC WATER

TRENCHES:	Trench to be 3.0 feet wide. Inlet 4.0 feet below original grade. Bottom maximum depth 7.0 feet below original grade. Effective area begins at 3.0 to 4.0 feet below original grade. 3.0 feet of stone below distribution pipe.
LOCATION:	Place the distribution box in the highest elevation of the approved SDA. Run two (2) 60' long trenches and one (1) 80' long trench 9' edge to edge (12' center to center), SDA must be staked prior to starting.
NOTES:	Add a cleanout between bends from existing septic tank to new pump tank. Future repair area to have shallow trenches (bottom @ 5' due to water) Repair area approx. 45' downhill of highest perc hole.

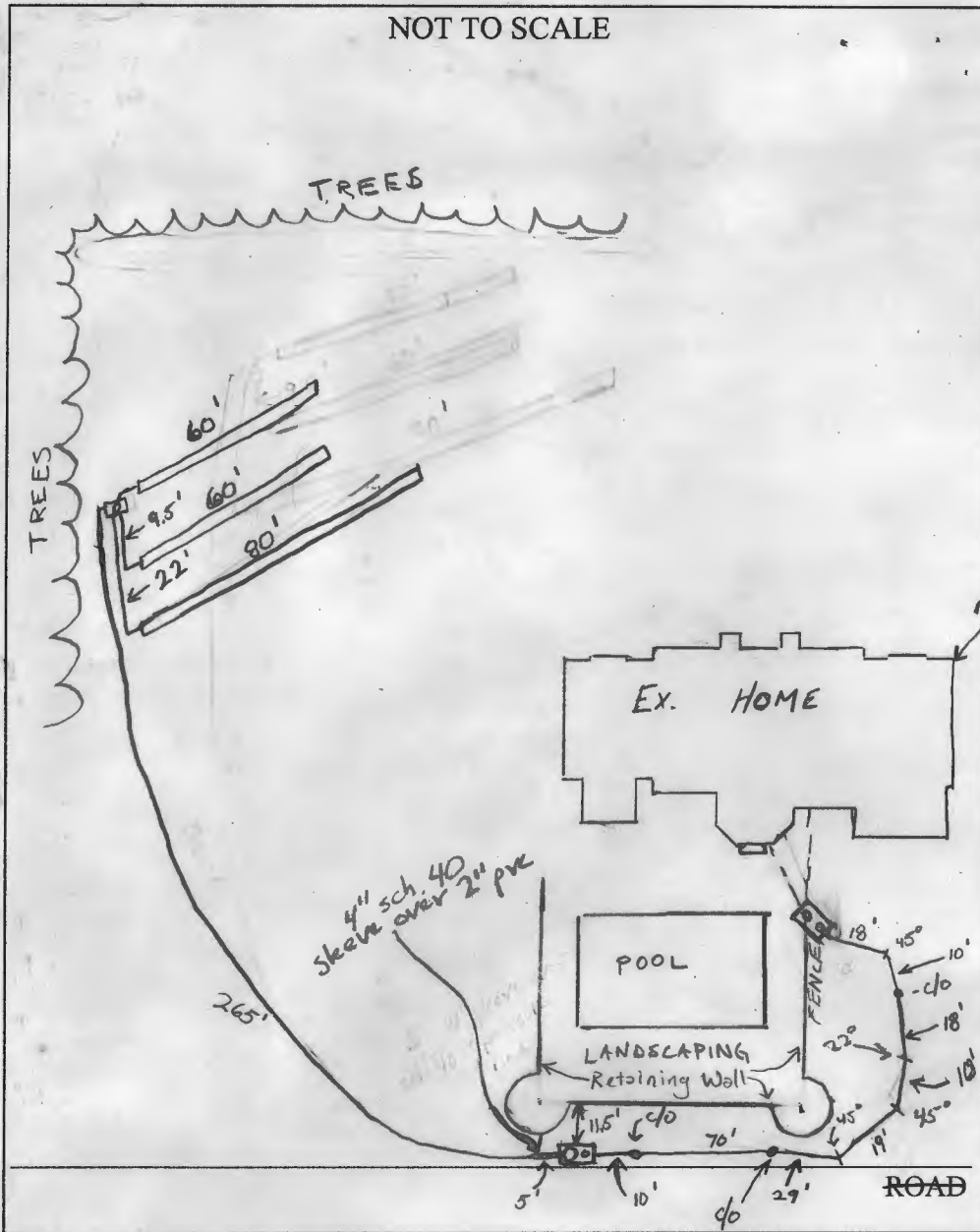
PLANS APPROVED: Kacie Noonan Reviewed by: _____ DATE: 11/9/04

NOTES: PERMIT VOID AFTER 2 YEARS
CONTRACTOR IS RESPONSIBLE FOR SCHEDULING A PRE-CONSTRUCTION INSPECTION FOR ALL INSTALLATIONS
WATERTIGHT SEPTIC TANKS REQUIRED
ALL PARTS OF SEPTIC SYSTEM SHALL BE 100 FEET FROM ANY WATER WELL UNLESS SPECIFICALLY AUTHORIZED
MANHOLE RISERS REQUIRED ON ALL SEPTIC TANKS AND PUMP CHAMBERS UNLESS SPECIFICALLY AUTHORIZED
CONTRACTOR RESPONSIBLE FOR COMPLIANCE WITH APPLICABLE REGULATIONS, GUIDELINES AND THE TERMS OF THIS PERMIT

NEITHER THE HOWARD COUNTY COUNCIL NOR THE HEALTH DEPARTMENT IS RESPONSIBLE FOR THE SUCCESSFUL OPERATION OF ANY SYSTEM PERMITTEE RESPONSIBLE FOR OBTAINING FINAL APPROVAL ON THIS PERMIT ALL 410-313-1771 FOR INSPECTION OF SEPTIC SYSTEM

TWELVE HILLS RD.

NOT TO SCALE



TRENCH/DRAINFIELD DATA		
WIDTH	INLET	BOTTOM
3'	4'	7'
NUMBER OF TRENCHES		3
TOTAL LENGTH		200'
ABSORPTION AREA		600 + Sidewall
DISTRIBUTION BOX LEVEL		✓
DISTRIBUTION BOX BAFFLE		downturn 90°
DISTRIBUTION BOX PORT		Yes

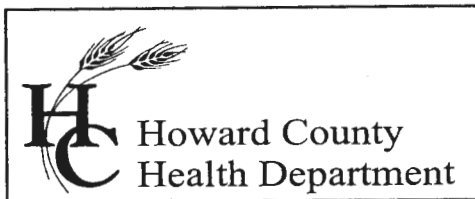
SEPTIC TANK DATA		
SEPTIC TANK 1 LEVEL ?		
Existing CAPACITY 1500 GAL		
SEAM LOC MID		
TANK LID DEPTH 1'		
BAFFLES ✓		
BAFFLE FILTER No		
MANHOLE LOC No		
6" PORT LOC Inlet & Outlet		
WATERTIGHT TEST ?		
SEPTIC TANK 2 LEVEL Yes		
PUMP CAPACITY 1500 GAL		
SEAM LOC Top		
TANK LID DEPTH 3'		
BAFFLES ✓ 3		
BAFFLE FILTER N/A		
MANHOLE LOC Outlet		
6" PORT LOC Inlet		
WATERTIGHT TEST N/A		

PRE-CONSTRUCTION 7/11/05 Install per permit specs → Inlet 4' bottom 7' width 3'. 2x60' and 1x80' trenches. **GAC**

INSTALLATION 7/12/05 Installation is good ok to cover all work. Need pump & Alarm for approval. **GAC**

7/22/05 Pump & Alarm test is good. Final approval granted

FINAL INSPECTOR G. Wright DATE OF APPROVAL 7/22/05



7178 Columbia Gateway Drive, Columbia, MD 21046
(410) 313-2640 Fax (410) 313-2648
TDD (410) 313-2323 Toll Free 1-866-313-6300
website: www.hchealth.org

Penny E. Borenstein, M.D., M.P.H., Health Officer

July 28, 2005

TO: Jean Iampieri, Realtor

FROM: Kacie Noonan, R.S.
Well and Septic Program
Development Coordination Section

*FOG 04 House
LOT 51*

RE: Capability of the new septic system at 13058 Twelve Hills Road to support 6 bedrooms

As of July 12, 2005, the septic system newly installed at the referenced property was for a five-bedroom house. However, given the size of the pump chamber a sixth bedroom can be added without any additional upgrade to the septic tanks or trenches. Enclosed is a copy of our septic specs, which shows effective sidewall starting at 3' and 4'. Taking an average of the sidewall coefficients computes a total linear trench layout for a six-bedroom house at 203.4 feet. Therefore, a total of 200 feet of trench installed on 7/11/05 should suffice. Also note, the perimeter of the SDA may be expanded closer to percolation test holes P5A and P4 to allow for additional trench length layout. Although there is high water table near the elevation of P5A and P4, the septic area above will support some sidewall usage and the expansion of the SDA will support a six-bedroom house, but no more bedrooms than six.

To ensure that the above criteria is met, an engineer will have to lay out all three systems on a plan. Additional notes are included for the engineer's use.

A copy of this letter will be placed in our file for future reference as well as the attachments enclosed.

Sincerely,

Kacie Noonan, R.S.
Well and Septic Program

KN
Enclosures
Cc: file

TRENCH DESIGN CALCULATION SHEET

Table A: Linear feet of trench required per bedroom based on perc rate.

Perc Rate	Sq. Ft. of Trench
2-7 min.	180
8-15 min.	210
16-20 min.	240
21-30 min.	300

To calculate length of trench required, multiply the number of bedrooms by the perc rate as shown in Table A. Divide this number by the width of trench you wish to use (either 2' or 3' widths). This number is known as the standard length of trench. Now, if any amount of sidewall or effective material is to be used greater than 6" multiply the standard length of trench by the percent decrease in trench length as provided in Table B. Make sure you use the correct conversion for a 2' or 3' wide design based on the original calculation obtained for the standard length of trench.

Formula

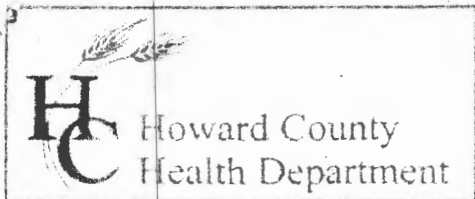
$(\# \text{ of bedrooms}) \times (\text{sq. ft. of trench}) / (\text{width of trench}) = \text{standard length of trench}$
and if any useable sidewall exists use
 $(\text{standard length of trench}) \times (\text{percent decrease in sidewall}) = \text{linear ft. req'd}$

Table B: Decrease in length of trench based on useable sidewall (effective) of trench.

Useable Sidewall or Effective Material	2' Wide	3' Wide
	1'	.80
1.5'	.66	.71
2'	.57	.62
2.5'	.50	.55
3'	.44	.50
3.5'	.40	.45
4'	.36	.42
4.5'	.33	.38
5'	.31	.36
5.5'	.29	.33
6'	.27	.31
6.5'	.25	.29
7'	.24	.28
7.5'	.22	.26

REMEMBER

The minimum separation should be 6' (edge to edge) for 2' wide trenches and 9' (edge to edge) for 3' wide trenches. When using sidewall calculations for deep trench design, the minimum edge to edge separation should be no less than twice the depth of gravel plus the width and no further apart than 18' edge to edge.



3525 H Ellicott Mills Drive, Ellicott City, MD 21043
(410) 313-2640 Fax (410) 313-2648
TDD (410) 313-2323 Toll Free 1-866-313-6300
website: www.hchealth.org

Penny E. Borenstein, M.D., M.P.H., Health Officer

May 7, 2004

TO: Cindy Hamilton
Chief, Division of Land Development

FROM: Kacie Noonan
Well and Septic Program

RE: File Number: F-04-091
Title: Twelve Hills, Section 3, Lots 51 & 52

The following comment applies to the plan prepared by Benchmark Engineering, Inc. Applicant is advised to revise and resubmit with the corrections mentioned below:

- The well must be drilled and all necessary paperwork turned in prior to plan signature.

JAB

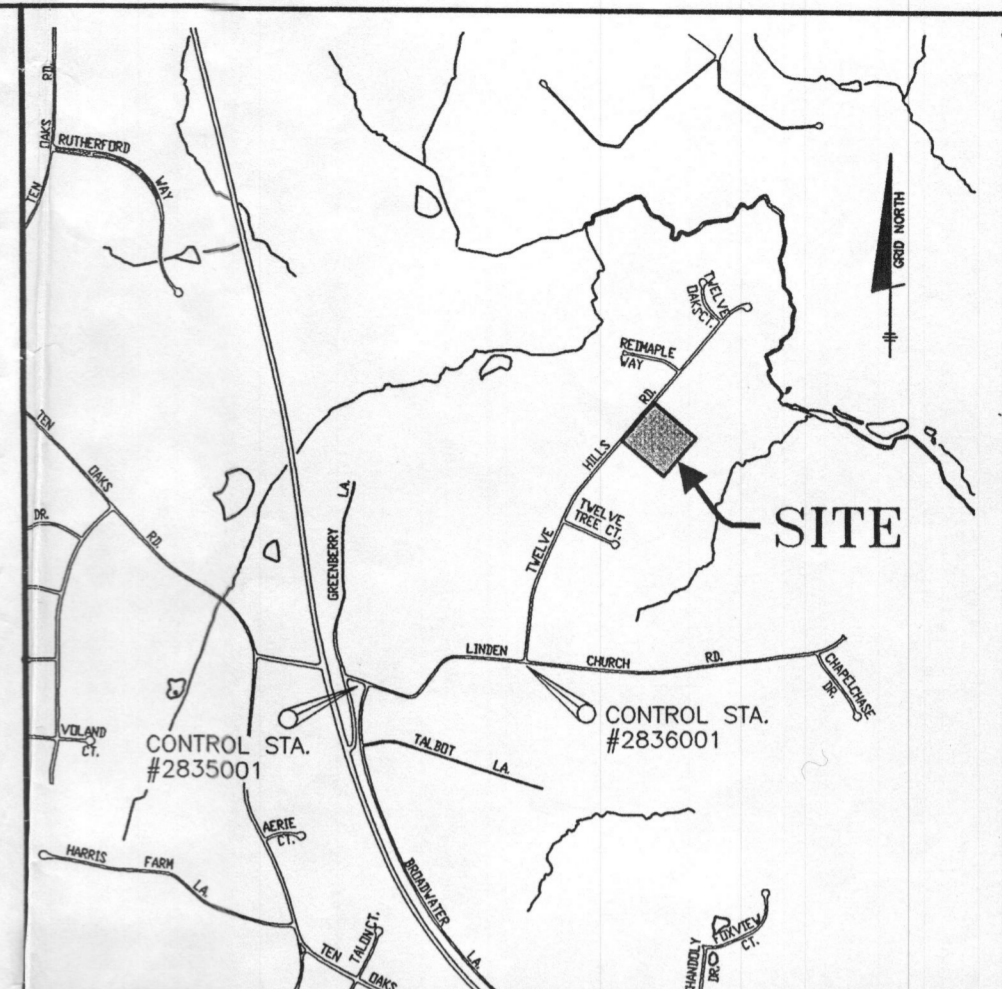
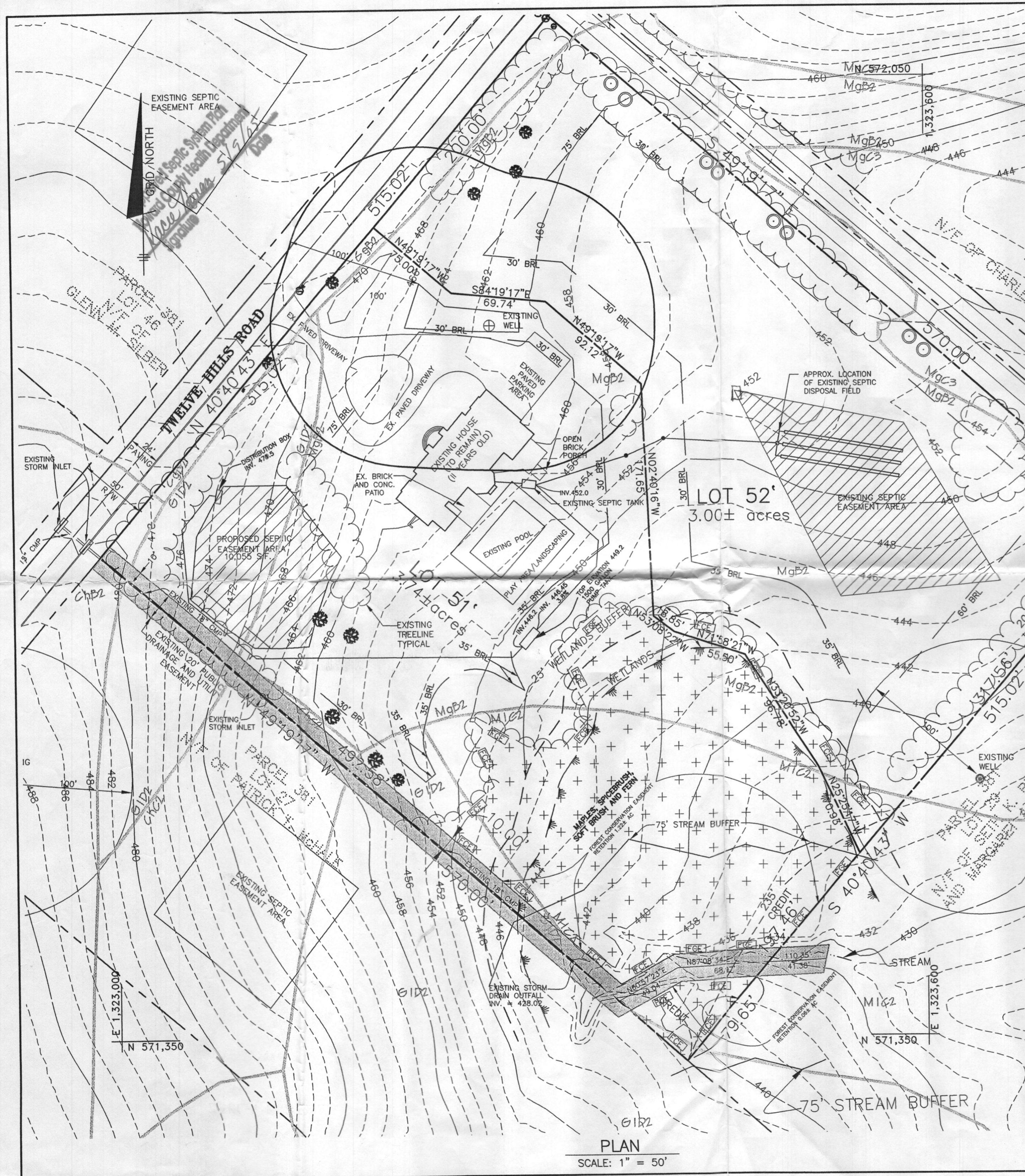
FILE INQUIRY FORM

Property Address: 13058 Twelve Hills Road

Owner wishes to create horse on lot w/ 15,000 sq foot easement. He wants to delete the ^{some} area / so that the house will be moved back. We do not want to reuse old trenches so that area should not be figured in. (Old trenches were fed for 11 years)

Owner was to have easement staked on 10/19/05 but did not show or stake out area. I was going to draw in trenches to determine how much area was usable.

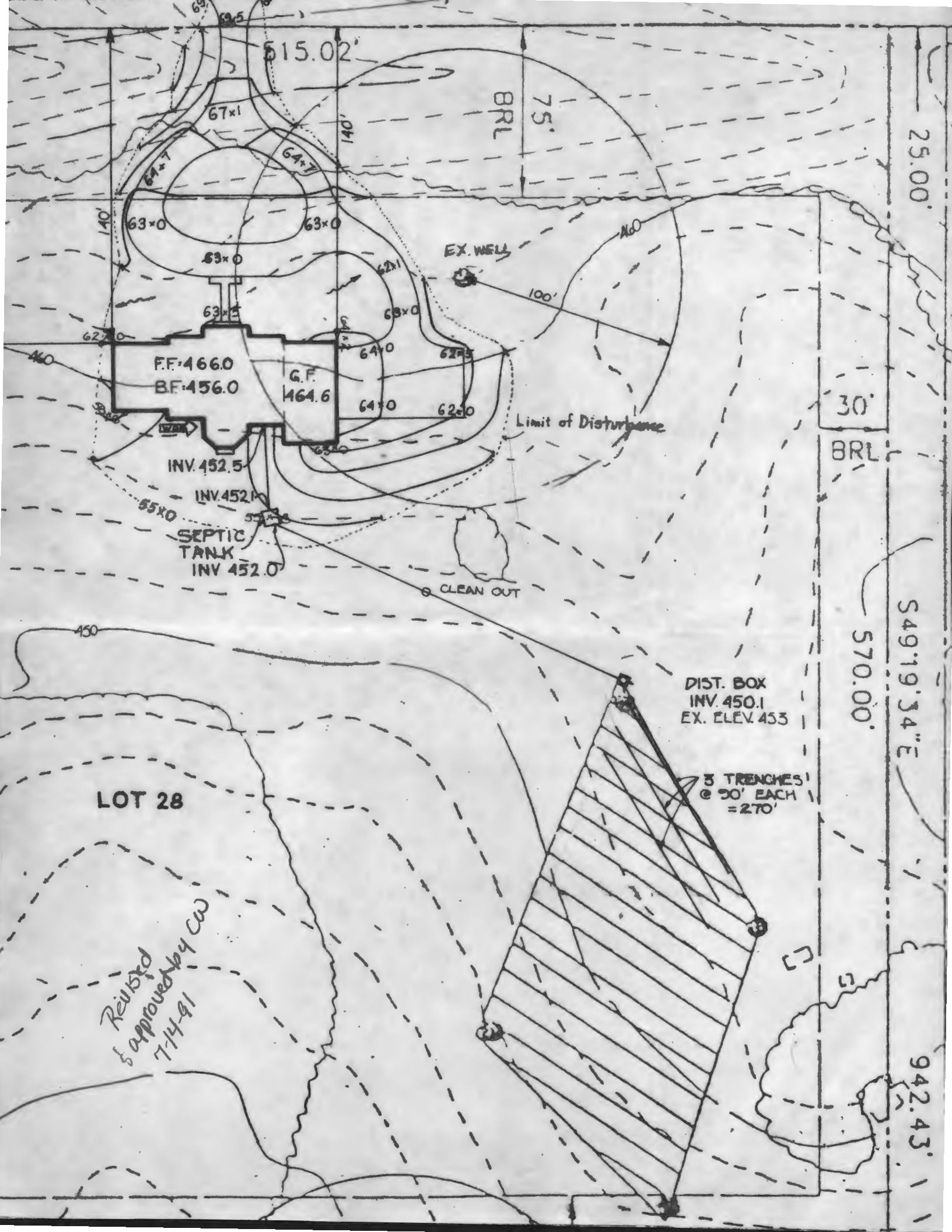
~~Therefore~~ Therefore owner needs to get an engineered drawing together, before we waste another trip out to this site. **ATTN**



VICINITY MAP
SCALE: 1" = 2000'

PLAN
SCALE: 1" = 50'

2		
1		
NO.	DATE	REVISION
BENCHMARK ENGINEERS AND SURVEYORS AND PLANNERS ENGINEERING, INC. 8480 BETHESDA NATIONAL PIKE & SUITE 418 ELICOTT CITY, MARYLAND 21043 PHONE: 410-465-8105 FAX: 410-465-6644 www.bei-civilengineering.com		
OWNER: SAMIR B. HSHMEH AND MARY WELDONHISHMEH, T/E 13058 TWELV. HILLS ROAD CLARKSVILLE, MD 21029-1143		PROJECT: TWELVE HILLS - SECTION THREE RESUBDIVISION OF LOT 28
LOCATION: TAX MAP 28, GRID 10, PARCEL 381 5th ELECTION DISTRICT HOWARD COUNTY, MARYLAND		TITLE: PERMIT PLAN
DATE: MAY, 2005	PROJECT NO. 1614	
Design: RPS Draft: RPS Check: DAM	SCALE: AS SHOWN	DRAWING 1 OF 1



15.02'

BRL

75'

25.00'

EX. WELL

F.F. 466.0
B.F. 456.0

G.F. 464.6

Limit of Disturbance

30'

BRL

INV. 452.5

INV. 452.1

SEPTIC TANK
INV. 452.0

CLEAN OUT

DIST. BOX
INV. 450.1
EX. ELEV. 453

3 TRENCHES
@ 90' EACH
= 270'

LOT 28

570.00'

S49°19'34"E

942.43'

*Revised & approved by CW
7-14-91*

SITE INSPECTION SHEET

OWNER: H. Shornick PHONE #: 410-531-2316

ADDRESS: 13058 Twelve Hills CONTRACTOR: _____

WELL TAG #: _____

SUBDIVISION: Twelve Hills LOT: 52 COUNTY #: _____

PROPOSAL: Subdivide one lot from existing lot. Confirm existing septic easement not directly up-slope of adj well.

LOCATION DIAGRAM



COMMENTS: 7/17/03 Upon inspection of topography, the current approved SDA location appears to be ok. Jane N.'s notes are consistent with topo as well as engineers topo. The adjacent existing well ^{currently} appears to be safe from

DATE: 7/17/03 INSPECTOR: Kace Nooran

possible contamination. Existing and proposed new SDA are both acceptable.

Ex ADS House

NO-88-0570

EAST

proposed SDA

TREES

LOW ALBERTA

Existing SDA

0-1-7-0

E

ADS Ex. House

dist to edge of swale 1230'

P11

P9

P10

