

LAYOUT _____ INSP 4 _____
INSP 2 _____ INSP 5 _____
INSP 3 _____ INSP 6 _____

ISSUE DATE: _____

APPROVAL DATE: 10/17/07 (RW)

PERMIT

P 525695

A 539250

TAX ID #05-408873

ON-SITE SEWAGE DISPOSAL SYSTEM HOWARD COUNTY HEALTH DEPARTMENT BUREAU OF ENVIRONMENTAL HEALTH

William H. Smith Jr. IS PERMITTED TO INSTALL ALTER

ADDRESS: 1916 Castleford Rd. PHONE NUMBER: 410.879.7641

SUBDIVISION: Westside LOT NUMBER: 15

ADDRESS: 5912 Clifton Oaks Drive PROPERTY OWNER: Kenneth Blake

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: 180 HOUSE SERVED BY PUBLIC WATER

TRENCHES:	Trench to be 3.0 feet wide. Inlet 3.0 feet below original grade. Bottom maximum depth 5.0 feet below original grade. Effective area begins at 3.0 feet below original grade. 2.0 feet of stone below distribution pipe.
LOCATION:	Place the distribution box at the highest corner of the approved SDA and run three 60' trenches 12' center to center.
NOTES:	Locate well radius of adjacent lot before trench installation.

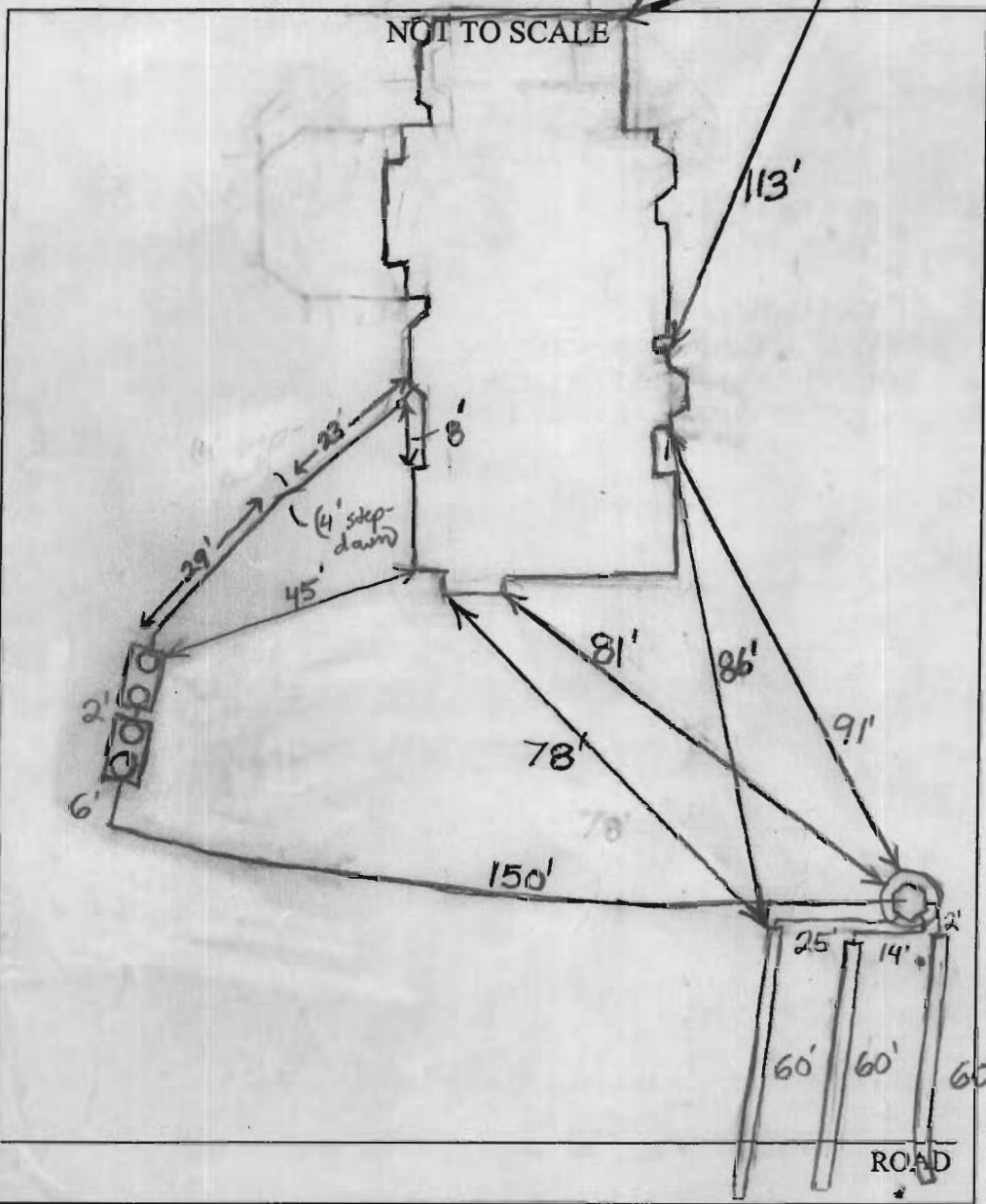
PLANS APPROVED: Kacie Noonan DATE: 6/2/06

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
CALL 410-313-1771 FOR INSPECTION OF SEPTIC SYSTEM**

H0-88-0147

NOT TO SCALE



TRENCH/DRAINFIELD DATA		
WIDTH	INLET	BOTTOM
<u>3</u>	<u>3'</u>	<u>5'</u>
NUMBER OF TRENCHES		<u>3</u>
TOTAL LENGTH		<u>180'</u>
ABSORPTION AREA		<u>540+ Sidewall</u>
DISTRIBUTION BOX LEVEL		<u>Yes</u>
DISTRIBUTION BOX BAFFLE		<u>Yes</u>
DISTRIBUTION BOX PORT		<u>Yes</u>

SEPTIC TANK DATA		<u>Slight</u>
SEPTIC TANK 1 LEVEL		<u>Backwards</u> <u>116'</u>
<u>Maryland</u>	CAPACITY	<u>1500</u> GAL
<u>Concrete</u>	SEAM LOC	<u>Top</u>
<u>2 way</u>	TANK LID DEPTH	<u>1.5-2</u>
	BAFFLES	<u>Yes</u>
	BAFFLE FILTER	<u>None</u>
	MANHOLE LOC	<u>Front+Rear</u>
	6" PORT LOC	<u>None</u>
	WATERTIGHT TEST	<u>No</u>
SEPTIC TANK 2 LEVEL		<u>Level</u>
<u>M/D</u>	CAPACITY	<u>1500</u> GAL
<u>Concrete</u>	SEAM LOC	<u>Top</u>
<u>2 way</u>	TANK LID DEPTH	<u>2-2.5'</u>
	BAFFLES	<u>Yes</u>
	BAFFLE FILTER	<u>None</u>
	MANHOLE LOC	<u>Front+Rear</u>
	6" PORT LOC	<u>None</u>
	WATERTIGHT TEST	<u>No</u>

PRE-CONSTRUCTION 12/29/06 septic area out staked. No trench layout given. Told contractor ok to set tanks. Call for INSTALLATION layout after easment is staked (KW)

1/2/07 Plumbing from house to S.T. installed. Both tanks installed per installation. Contractor to set D box deep left corner of P/A. Run 3 @ 60' trenches 12' center on center. Stay w/ in easment for well set tanks (KW)

1/3/2007 Need pump and alarm test. O.K. to backfill (RB)

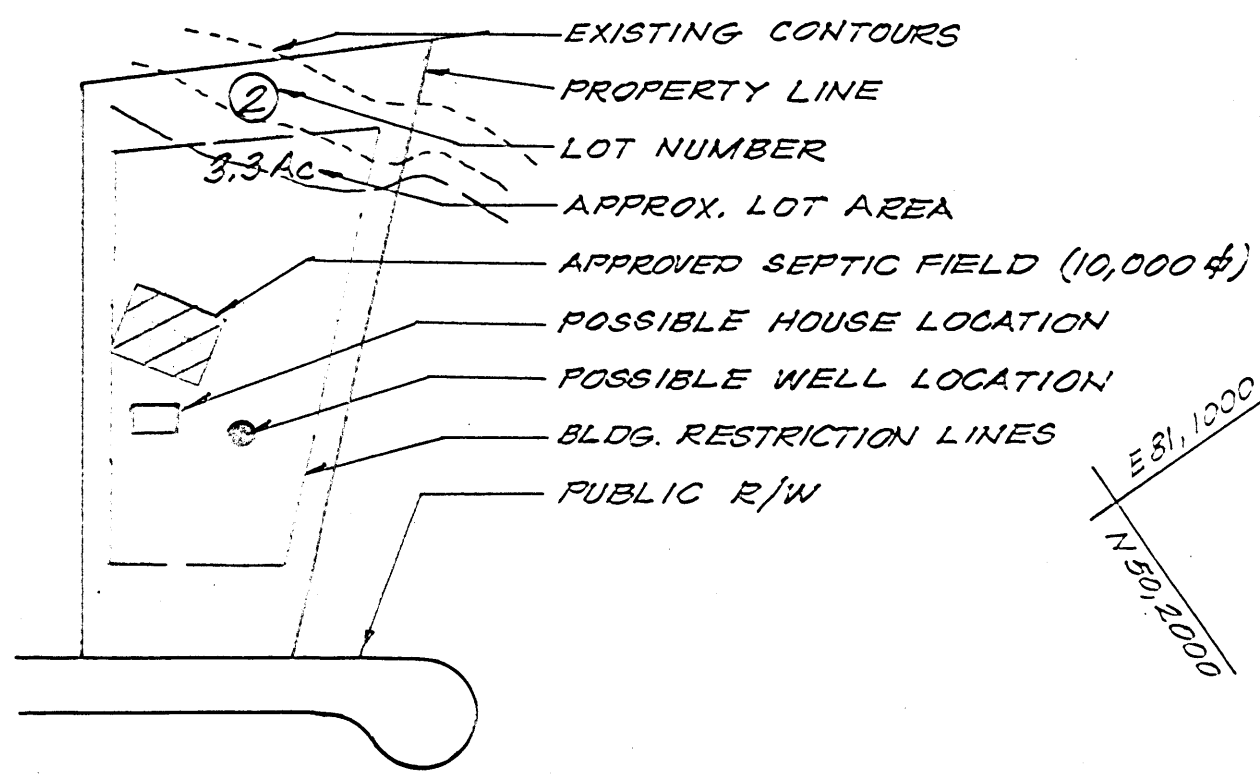
10/19/07 P/A OK. OK to cover.

FINAL INSPECTOR J. Wall DATE OF APPROVAL 10/19/07

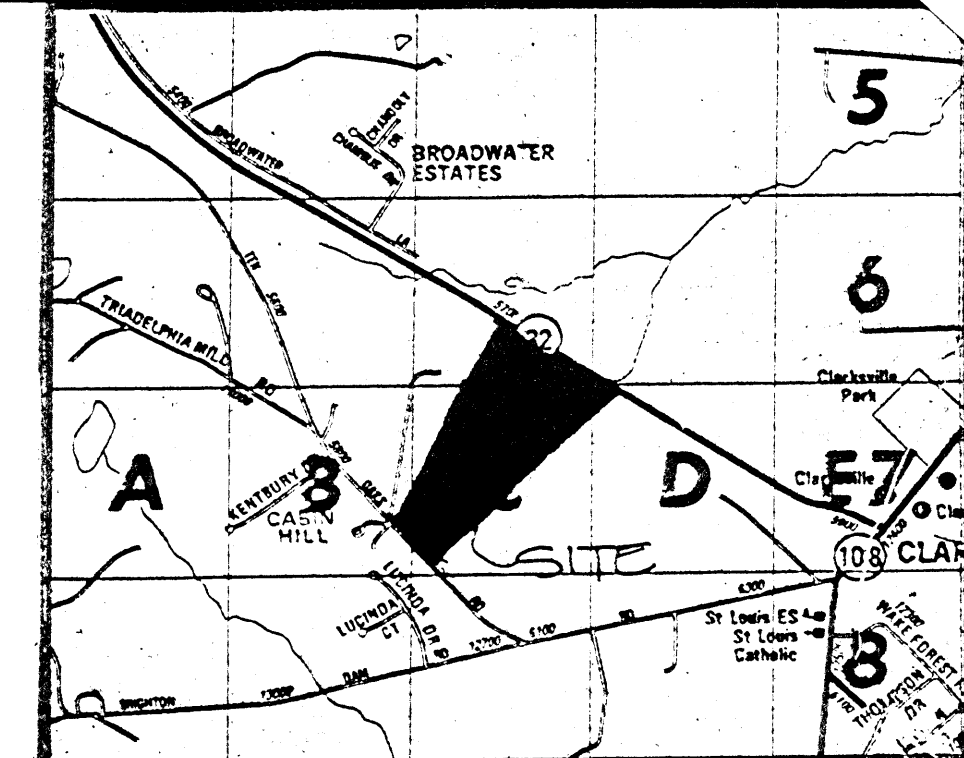
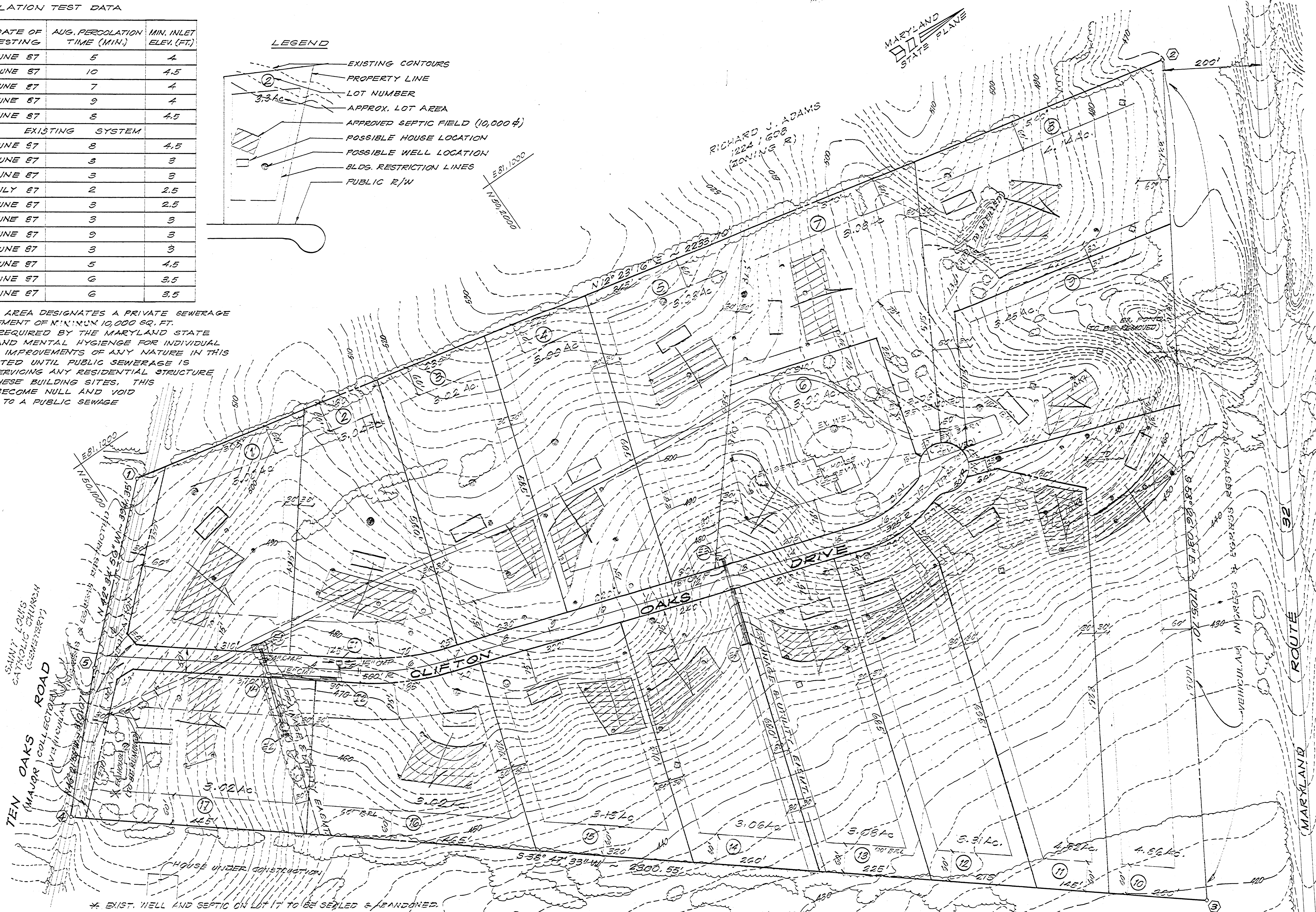
PERCOLATION TEST DATA

LOT	FORMER LOT # ON SKETCH PLAN	DATE OF TESTING	AUG. PERCOLATION TIME (MIN.)	MIN. INLET ELEV. (FT.)	
1	1	JUNE 87	5	4	
2	2	JUNE 87	10	4.5	
3	3	JUNE 87	7	4	
4	4	JUNE 87	9	4	
5	5	JUNE 87	8	4.5	
6	6	EXISTING SYSTEM			
7	7	JUNE 87	8	4.5	
8	8	JUNE 87	3	3	
9	10	JUNE 87	3	3	
10	11	JULY 87	2	2.5	
11	11&12	JUNE 87	3	2.5	
12	13	JUNE 87	3	3	
13	14	JUNE 87	9	3	
14	15	JUNE 87	3	3	
15	16	JUNE 87	5	4.5	
16	17	JUNE 87	6	3.5	
17	18	JUNE 87	6	3.5	

LEGEND



NOTE: THIS AREA DESIGNATES A PRIVATE SEWERAGE EASEMENT OF MINIMUM 10,000 G.P.D. AS REQUIRED BY THE MARYLAND STATE DEPT. OF HEALTH AND MENTAL HYGIENE FOR INDIVIDUAL SEWER DISPOSAL. IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED UNTIL PUBLIC SEWERAGE IS AVAILABLE AND SERVING ANY RESIDENTIAL STRUCTURE CONSTRUCTED ON THESE BUILDING SITES, THIS EASEMENT SHALL BECOME NULL AND VOID UPON CONNECTION TO A PUBLIC SEWERAGE SYSTEM.



VICINITY MAP
SCALE: 1" = 2000'

GENERAL NOTES

- PRIVATE WATER AND SEWER SYSTEMS TO BE UTILIZED.
- THE PROPERTY IS LOCATED ON TAX MAP #34 AS PARCEL #3.
- SOILS MAP REFERENCE: PAGE #23.
- TOPOGRAPHY IS FROM AERIAL AND FIELD SURVEY.
- SEDIMENT AND EROSION CONTROL MEASURES WILL BE INDICATED WITH THE SUBMISSION OF ROAD CONSTRUCTION DRAWINGS.
- INSTALLATION OF TRAFFIC CONTROL DEVICES TO BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL OF UNIFORM CONTROL DEVICES.
- REFUSE COLLECTION, SNOW REMOVAL AND ROAD MAINTENANCE FOR PIPE-STEM LOTS ARE PROVIDED TO THE JUNCTION OF THE PIPESTEM AND ROAD RIGHT-OF-WAY LINE ONLY.
- ALL PERCOLATION HOLES SHOWN HEREON WERE FIELD LOCATED.
- LOTS 9, 10, 11, 12, 13, AND 14 HAVE LIMITED HOUSE SITES.
- LOTS 10, 12, 13, AND 14 ARE TO HAVE WELLS DRILLED AND APPROVED PRIOR TO SUB-DIVISION APPROVAL.

SITE ANALYSIS

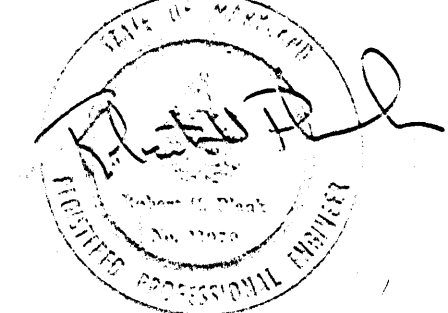
NO.	ZONE	R (RURAL)
1.	ZONE	R (RURAL)
2.	TRACT AREA	59.85 Ac.
3.	PERMITTED NUMBER OF LOTS	19.
4.	PROPOSED NUMBER OF LOTS	17.
5.	MINIMUM LOT SIZE	3.0 Ac.
6.	TOTAL AREA OF PROP LOTS	56.91 Ac.
7.	TOTAL AREA OF ROADWAY DEDICATION	2.94 Ac.

STATE PLANE COORDINATES BASED UPON HOWARD COUNTY GEODETIC CONTROL STA 263600Z AND STA 253600Z.

COORDINATE TABLE		
NO.	NORTH	EAST
1	501077.12	811084.11
2	503258.82	811563.11
3	502365.92	813016.11
4	500572.83	811575.11
5	500766.76	811351.11

APPROVED FOR INDIVIDUAL SEWERAGE & WATER SYSTEMS

Don Badier
COUNTY HEALTH OFFICER
1-8-87
DATE



LAGER, C. ELLSWORTH
1335/99
(ZONING R)

OWNER/DEVELOPER:	NO.	REVISIONS	DATE
RAO GROUP INC. 6570 ROUTE 32 CLARKSVILLE, MD. 21029			

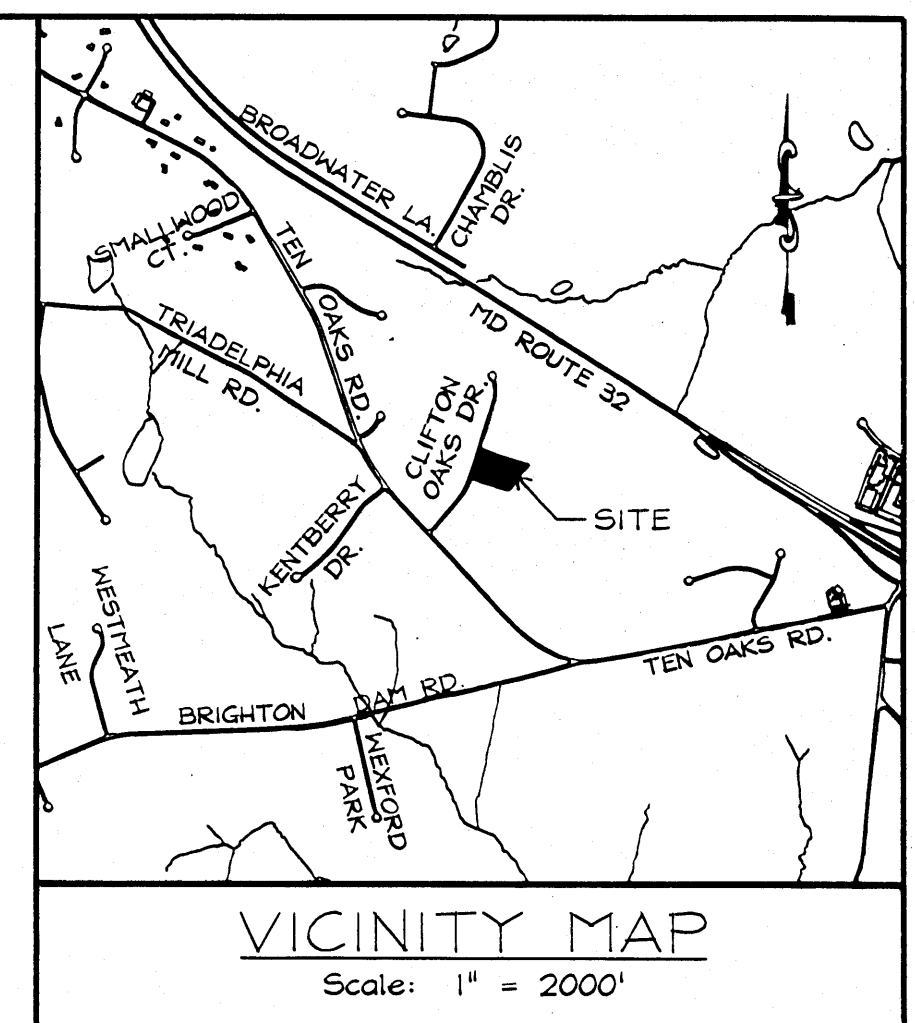
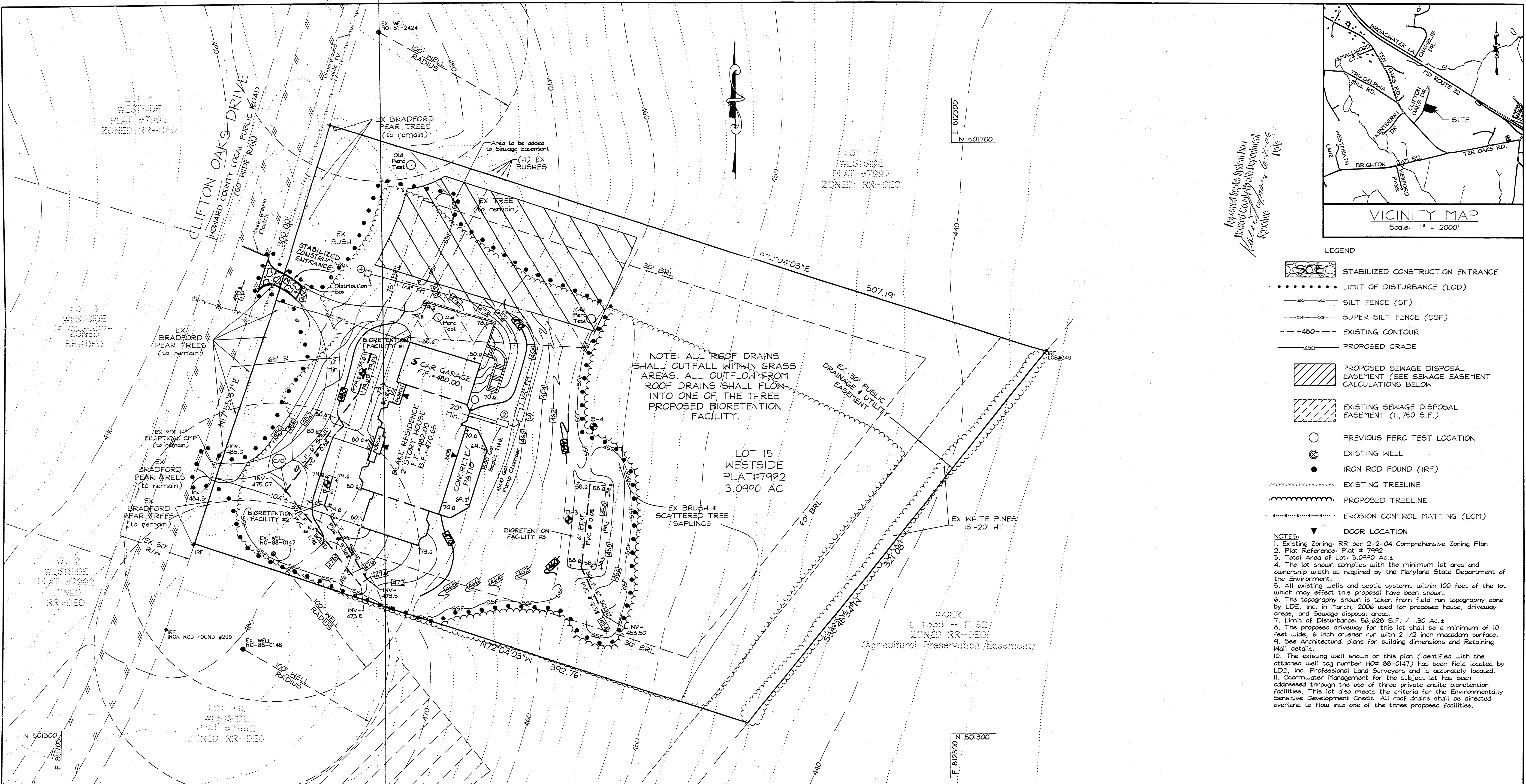


Advance Resource Consultants, Inc.
7940 Airpark Road
Gaithersburg, Maryland 20879

PRELIMINARY PLAN
WESTSIDE
5TH ELECTION DISTRICT
TAXMAP 34 / PARCEL 3
HOWARD COUNTY, MARYLAND

DWN	ACM	S
CHKD	RHP	
DATE	AUG. 1987	
SCALE	1" = 100'	

SIGNED
VP-87-155
REFERENCE S-87-74



- LEGEND**
- STABILIZED CONSTRUCTION ENTRANCE
 - LIMIT OF DISTURBANCE (LOD)
 - SILT FENCE (SF)
 - SUPER SILT FENCE (SSF)
 - EXISTING CONTOUR
 - PROPOSED GRADE
 - PROPOSED SEWAGE DISPOSAL EASEMENT (SEE SEWAGE EASEMENT CALCULATIONS BELOW)
 - EXISTING SEWAGE DISPOSAL EASEMENT (11,750 S.F.)
 - PREVIOUS PERC TEST LOCATION
 - EXISTING WELL
 - IRON ROD FOUND (IRF)
 - EXISTING TREELINE
 - PROPOSED TREELINE
 - EROSION CONTROL MATTING (ECM)
 - DOOR LOCATION

- NOTES:**
1. Existing Zoning: RR per 2-2-04 Comprehensive Zoning Plan
 2. Plat Reference: Plat # 7992
 3. Total Area of Lot: 3.0990 Ac.±
 4. The lot shown complies with the minimum lot area and ownership width as required by the Maryland State Department of the Environment.
 5. All existing wells and septic systems within 100 feet of the lot which may effect this proposal have been shown.
 6. The topography shown is taken from field run topography done by LDE, Inc. in March, 2006 used for proposed house, driveway areas, and Sewage disposal areas.
 7. Limit of Disturbance: 56,628 S.F. / 1.30 Ac.±
 8. The proposed driveway for this lot shall be a minimum of 10 feet wide, 6 inch crusher run with 2 1/2 inch macadam surface.
 9. See Architectural plans for building dimensions and Retaining Wall details.
 10. The existing well shown on this plan (Identified with the attached well tag number HO# 88-0147) has been field located by LDE, Inc. Professional Land Surveyors and is accurately located.
 11. Stormwater Management for the subject lot has been addressed through the use of three private onsite bioretention facilities. This lot also meets the criteria for the Environmentally Sensitive Development Credit. All roof drains shall be directed overland to flow into one of the three proposed facilities.

- SEWAGE SYSTEM DESIGN DATA**
1. Invert at Foundation Wall: 468.00 Basement service
 2. 1500 Gallon Septic Tank (5 Bedrooms)
Provide Manhole to Finished Grade
 - A. Ex. Ground Over Tank: 465.5
 - B. Prop. Grade Over Tank: 469.00
 - C. Invert In: 466.30
 - D. Invert Out: 466.00
 3. 1500 Gallon Pump Pit
 - A. Ex. Ground Over Pit: 463.50
 - B. Prop. Grade Over Pit: 467.00
 - C. Invert In: 464.00
 - D. Invert Out: 464.50
 4. Distribution Box: (Provide 3 Outlets Minimum)
 - A. Ex. Ground Over Box: 476.00
 - B. Prop. Grade Over Box: 476.00
 - C. Invert In: 473.00

NOTE: Trench design may be revised at time of installation based on site conditions.

- NOTES:**
1. The proposed septic system for this lot requires a pump.
 2. Pump chamber to be a minimum 1500 gallon top seamed pump pit with single effluent pump. pump shall be equipped with audible and visual alarm system for high water and pump malfunction. alarm system shall be installed on a separate electrical circuit. install check valves as required.
 3. Provide manhole cleanout to finished grade at proposed septic tank and the pump chamber.
 4. Details and specification of the proposed pump within the pump pit to be supplied by the contractor for review and approval by the Howard county health department prior to issuance of a septic permit.

THIS AREA DESIGNATES A PRIVATE SEWAGE EASEMENT OF AT LEAST 10,000 SQUARE FEET AS REQUIRED BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWAGE DISPOSAL. IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED UNTIL PUBLIC SEWAGE IS AVAILABLE. THESE EASEMENTS SHALL BECOME NULL AND VOID UPON CONNECTION TO A PUBLIC SYSTEM. THE COUNTY HEALTH OFFICER SHALL HAVE THE AUTHORITY TO GRANT ADJUSTMENTS TO THE PRIVATE SEWAGE EASEMENT. RECORDATION OF A MODIFIED SEWAGE EASEMENT SHALL NOT BE NECESSARY.

- SEWAGE EASEMENT CALCULATIONS**
1. Area of existing easement: 11,750 S.F.
 2. Easement encroached by dwelling/driveway: 3,000 S.F.
 3. Net remaining area: 8,750 S.F.
 4. Additional easement area added: 3,150 S.F.
 5. Area of reconfigured easement: 11,900 S.F.

DEVELOPER'S CERTIFICATE

I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS OF DEVELOPMENT FOR SEDIMENT AND EROSION CONTROL, AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT.

James D. Blake 25 Apr 06
SIGNATURE OF DEVELOPER DATE

ENGINEER'S CERTIFICATE

I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE AND THE PLANS HAS BEEN PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

Bruce D. Burton 4/26/06
SIGNATURE OF ENGINEER DATE

THESE PLANS HAVE BEEN REVIEWED FOR THE TECHNICAL REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

Jim Nguyen 4/26/06
HOWARD SOIL CONSERVATION DISTRICT DATE

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.

J.R. Roberts 4/27/06
HOWARD SOIL CONSERVATION DISTRICT DATE

NO.	DATE

LDE Inc. <i>Engineers, Surveyors, Planners</i> 9250 Ramsey Road, Suite 100 Columbia, Maryland - 21049 (410)715-1070 • (301)596-3424 • FAX (410)715-9340		
DESIGNED	GRADING & SEDIMENT CONTROL PLAN	SCALE
SDH	#5912 CLIFTON OAKS DRIVE WESTSIDE LOT 15	1" = 30'
DRAWN	Plat No. 7992	DRAWING
GDW		1 OF 3
CHECKED	TAX MAP 34 GRID 5 P/O PARCEL 3	JOB NO.
BDB	5th ELECTION DISTRICT	06-005
DATE	HOWARD COUNTY, MARYLAND	FILE NO.
4/2006	OWNER: KENNETH BLAKE 3202 SHORTRIDGE LANE BOWIE MD, 20721	BUILDER: HAGAN & HAMILTON 20 E. TITONIUM ROAD TITONIUM, MD 21093 410-561-1004

SUBDIVISION: WESTSIDE

LOT NUMBER: 15

DRY WELL OR DRY WELL AND TRENCH

_____ sq. ft./bedroom

	<u>Septic Tank</u>	<u>Minimum Total Square Feet</u>
3 bedroom	1000 gallon	_____
4 bedroom	1250 gallon	_____
5 bedroom	1500 gallon	_____

Inlet _____ feet below original grade.

Bottom maximum depth _____ feet below original grade.

Effective area begins at _____ feet below original grade.

NOTE: If trench is used to make up absorbent area, run the trench on level ground and leave a 5-foot earth buffer between dry well and trench. No trench is to exceed 100 feet in length. Trench inlet to be same as dry well, with _____ feet of stone below distribution pipe.

TRENCHES

180 sq. ft./bedroom

Trench to be 3 wide.

Inlet 3.5 feet below original grade.

Bottom maximum depth 5.5 feet below original grade.

Effective area begins at 35 feet below original grade.

2 feet of stone below distribution pipe.

- NOTE:
- (1) No trench to exceed 100 feet in length.
 - (2) If more than one trench used, a distribution box is required.
 - (3) Trenches to be installed on level ground.
 - (4) Call for inspection of trench before gravel is installed.
 - (5) Provide 6" - 8" diameter cleanout and cap to grade or above on septic tank and drywell.
 - (6) If a garbage disposal is used, increase septic tank capacity by 50% and increase absorbent sidewall area by 22%.

LOCATION: 8-30-88 PLACE THE FIRST 90 FE DOWN THE LEFT (507.19')
LOT LINE AND 120 FE OFF THE SAME LOT AS SEEN WHEN FACING
THE LOT FROM CLIFTON OAKS DR, RUN TRENCHES ON CONTOUR
TOWARD THE LEFT LOT LINE. 8-30-88 S.A.G.W

HOWARD COUNTY HEALTH DEPARTMENT

JOYCE M. BOYD, M.D., M.P.H.
COUNTY HEALTH OFFICER



Bureau of Environmental Health
3525 Ellicott Mills Drive
Ellicott City, Maryland 21043

Director - 461-9956
Water & Sewerage, Permits - 461-9933
Community Environmental Health - 461-9944
Technical Services - 461-9955

TO: ARCHITECTURAL TECHNOLOGIES
8950 ROUTE 108 SUITE 114
COLUMBIA MD 21045
FROM: RAYMOND HODGES

DATE: 31 JULY 89

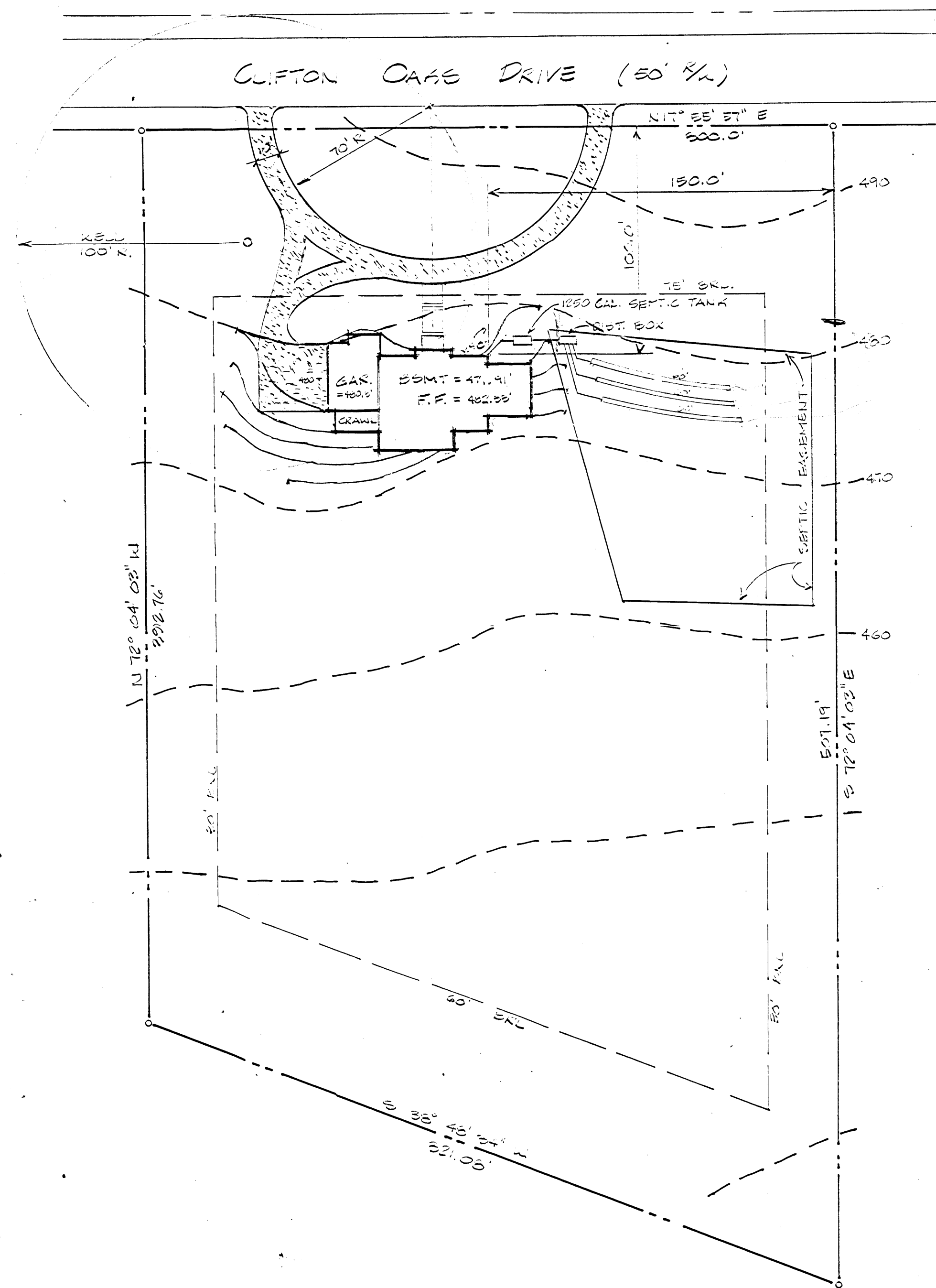
WESTSIDE LOT 15 51212 CLIFTON OAKS DR

This office has received your building permit # 27879.
We are unable to approve your permit for the following reason(s):

- No septic elevations/site plans provided (example and septic specification enclosed).
- Incorrect septic specs. (See enclosure.)
- No invert elevation at _____.
- No existing grade at _____.
- No elevation at well.
- Invert at trench(s) incorrect. (See enclosed.)
- House too small.
- House to _____ less than _____ feet.
- Well to _____ less than _____ feet.
- Sewage easement location incorrect.
- No well on property.
- Other: NAME ADDRESS & PHONE NUMBER NOT ON PLAT
SCALE USED NOT SHOWN, DISTRIBUTION BOX
IN WRONG LOCATION

If you should have any question, please call RAYMOND HODGES
or _____ at 461-9933.

8/4/89 Raymond Hodges O/C
RH



SEPTIC SYSTEM DATA

1. INVERT EL. OUT OF HOUSE = 477.0'
2. INVERT EL. INTO SEPTIC TANK = 476.0'
3. INVERT EL. OUT OF TANK = 473.5'
4. INVERT EL. INTO DIST. BOX = 475.0'
5. INVERT EL. OUT OF BOX = 474.5'
6. INVERT EL. INTO FIRST TRENCH = 473.5'
7. ALL TRENCHES TO BE 3' WIDE, INLETS TO BE 3\"/>

3.5.

9/1/89
Revised Plans OK
P.J.

LOT 15 WESTSIDE

TAX MAP 34 PARCEL 5
 5TH ELECT. DIST.
 HOWARD CO. MD.
 7-5-89

date
 7-5-89
 revisions

sheet no.
 5
 of