

03316661

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

ISSUE DATE: _____

APPROVAL DATE: 11/12/04

P 521567

A 43979

PERMIT
INDEXED
TAX ID #03-316661
ON-SITE SEWAGE DISPOSAL SYSTEM
HOWARD COUNTY HEALTH DEPARTMENT
BUREAU OF ENVIRONMENTAL HEALTH

_____ IS PERMITTED TO INSTALL ALTER

ADDRESS: _____ PHONE NUMBER: _____

SUBDIVISION: Hudson Property LOT NUMBER: 2

ADDRESS: 12789 Frederick Road PROPERTY OWNER: James W. Hudson III

SEPTIC TANK CAPACITY (GALLONS): 1000 OUTLET BAFFLE FILTER REQUIRED

PUMP CHAMBER CAPACITY (GALLONS): N/A COMPARTMENTED TANK REQUIRED

NUMBER OF BEDROOMS: 3

SQUARE FEET PER BEDROOM: 210

LINEAR FEET OF TRENCH REQUIRED: 180 HOUSE SERVED BY PUBLIC WATER

TRENCHES:	Trench to be 2.0 feet wide. Inlet 5.5 feet below original grade. Bottom maximum depth 7.5 feet below original grade. Effective area begins at 5.5 feet below original grade. 2.0 feet of stone below distribution pipe.
LOCATION:	Beginning at the front left lot corner as seen when facing the lot from the right-of-way, place the distribution box 170' down the left lot line and 10' off the same lot line. Run trenches on contour toward the right lot line. Maintain a minimum of 100' from all wells.
NOTES:	

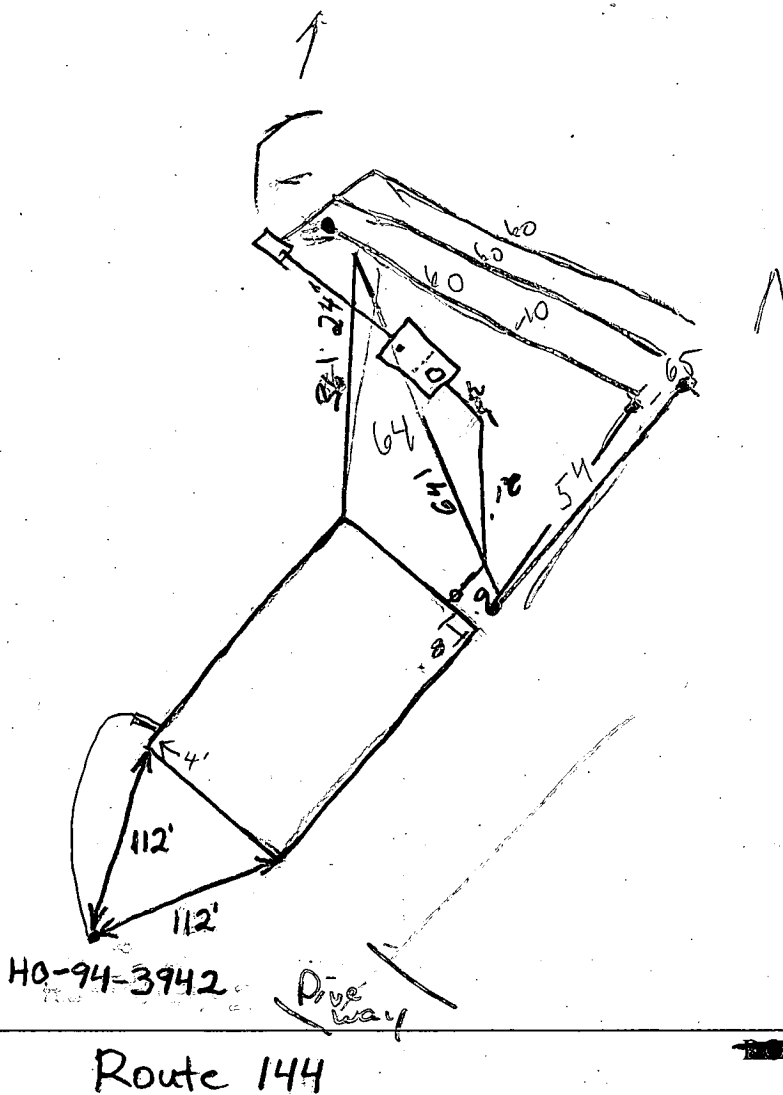
PLANS APPROVED: Kevin J. Bell Reviewed by: _____ DATE: 9/15/04

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 410-313-2640 FOR INSPECTION OF SEPTIC SYSTEM

A43979

NOT TO SCALE



TRENCH/DRAINFIELD DATA		
WIDTH	INLET	BOTTOM
2	5.5	7.5
NUMBER OF TRENCHES		3
TOTAL LENGTH		180
ABSORPTION AREA		315/2 sq ft
DISTRIBUTION BOX LEVEL		yes
DISTRIBUTION BOX BAFFLE		yes
DISTRIBUTION BOX PORT		yes

SEPTIC TANK DATA	
SEPTIC TANK 1 LEVEL	✓
CAPACITY	1500 GAL
SEAM LOC	TOP
TANK LID DEPTH	1-2'
BAFFLES	✓
BAFFLE FILTER	—
MANHOLE LOC	Front
6" PORT LOC	Back
WATERTIGHT TEST	—
SEPTIC TANK 2 LEVEL	—
CAPACITY	— GAL
SEAM LOC	—
TANK LID DEPTH	—
BAFFLES	NA
BAFFLE FILTER	—
MANHOLE LOC	—
6" PORT LOC	—
WATERTIGHT TEST	—

PRE-CONSTRUCTION 11/9/04 Place the distribution box near the top middle of the septic easement and install 3-60' trenches. (RB)

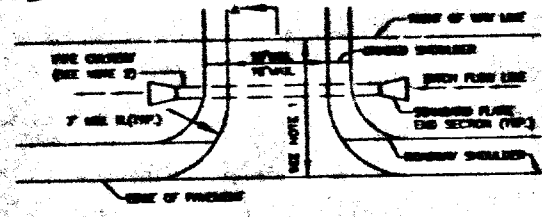
INSTALLATION 11/10/04 - Tank set OK to cover (SA)
 3, 60' trenches 7" deep - 2" of final stone, 5' from top of stone to surface, inlet at 5.5. - D-box O.K. - level ON contour. (P.Y) 11/17/04
 trenches installed according to plan. (P.Y)

FINAL INSPECTOR Eric Gervais

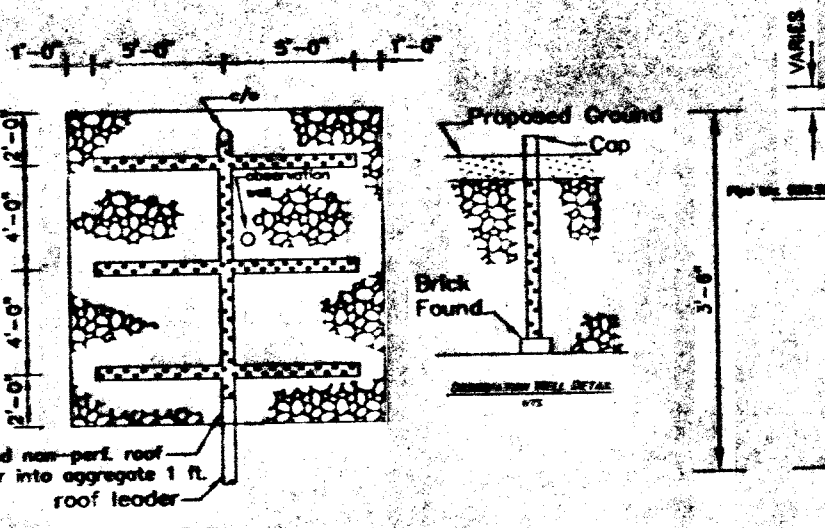
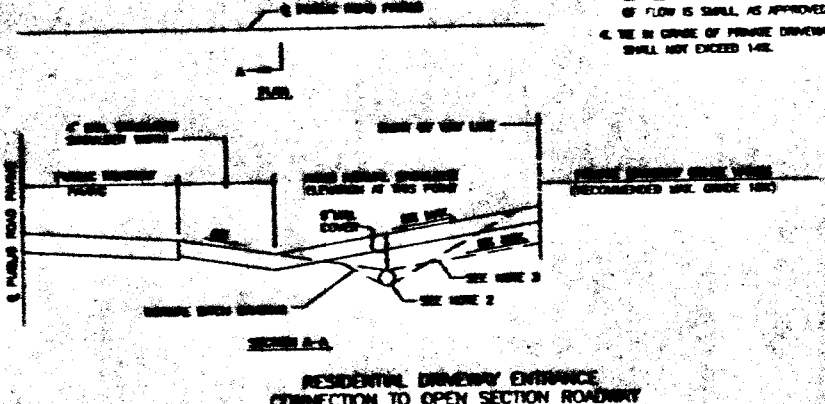
DATE OF APPROVAL 11/12/04

NOTES:

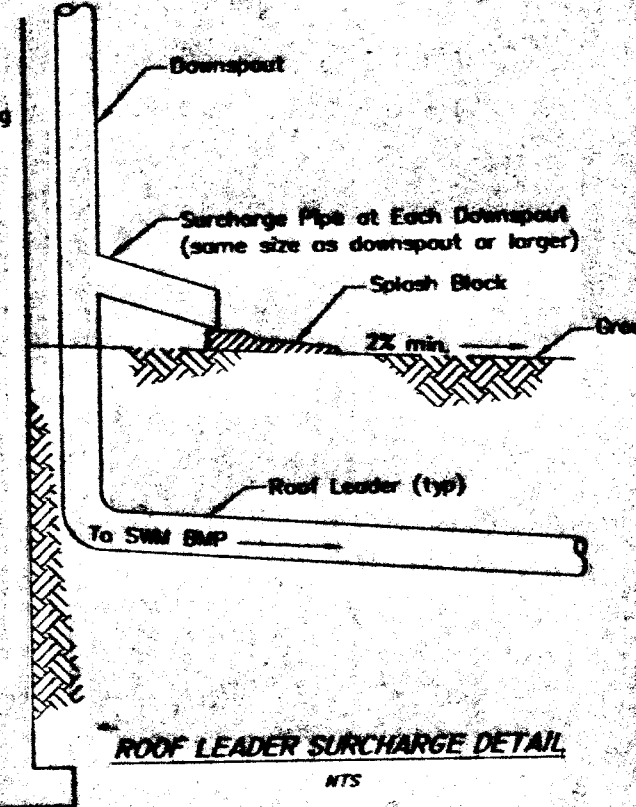
1. THE TOPOGRAPHY SHOWN HEREON WAS FIELD-RUN BY SHANBERGER & LANE ON JULY 23, 2004.
2. B.R.L. DESIGNATES BUILDING RESTRICTION LINE
3. THIS AREA DESIGNATES A PRIVATE SEWAGE DISPOSAL AREA AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWAGE DISPOSAL. IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED. THIS DISPOSAL AREA SHALL BECOME NULL & VOID UPON CONNECTION TO A PUBLIC SEWAGE SYSTEM. THE COUNTY HEALTH OFFICER SHALL HAVE THE AUTHORITY TO GRANT ADJUSTMENTS TO THE PRIVATE SEWAGE DISPOSAL AREA.
4. SUBJECT PROPERTY ZONED: RC-DEO
5. LIMIT OF DISTURBANCE: 17,376 sq ft
6. THE EX. WELL SHOWN ON THIS PLAN (IDENTIFIED WITH THE ATTACHED WELL TAG NO. H094-3942) HAS BEEN FIELD-LOCATED BY SHANBERGER & LANE PROFESSIONAL LAND SURVEYORS ON 7/23/04 AND IS ACCURATELY SHOWN.



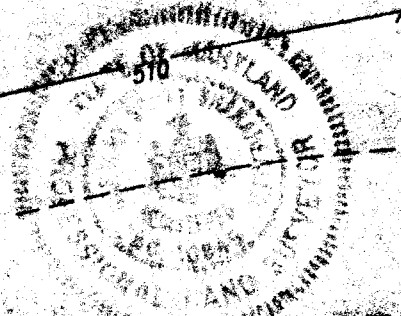
1. MINIMUM CLEARANCE FROM SIDE OF PUBLIC ROAD TO SIDE OF NEW LINE USING STANDARD PLANNING SECTION P-1 AS SHOWN ON SITE NO. OR ALTERNATE SECTION EQUAL TO TO OF THE NEW P-1, AS APPROVED BY D.P.R.
2. MINIMUM CLEARANCE SHALL BE 10 FEET FROM A 10 FEET PROPERTY LINE AND THE MINIMUM CLEARANCE SHALL BE 12 FEET FROM A 12 FEET ROAD RIGHT-OF-WAY. IF A 12 FEET RIGHT-OF-WAY IS REQUIRED, DITCH WIDTH SHALL BE LIMITED TO PROVIDE THE MINIMUM CLEARANCE OF 12 FEET.
3. WHERE ROADWAY IS PROPOSED OVER EXISTING SEWERAGE AS AT OR NEAR THE CREST OF VERTICAL CURVES ON THE PUBLIC ROAD WHERE QUANTITY OF FLOW IS SMALL, AS APPROVED BY D.P.R.
4. THE 10 FEET CLEARANCE FROM DRIVEWAY SHALL NOT EXCEED 14 FEET.



INFILTRATION TRENCH DETAIL
NTS

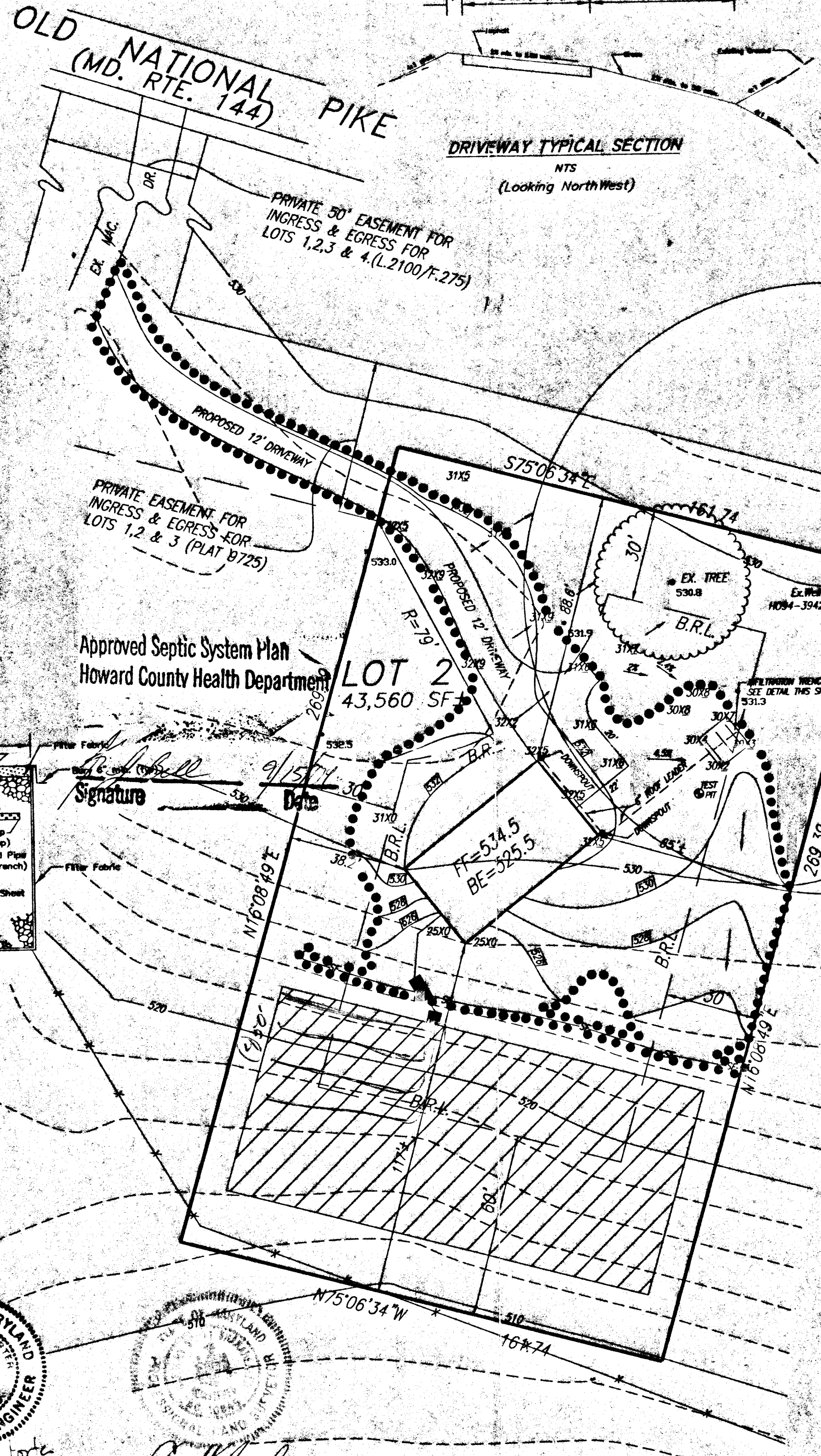


ROOF LEADER SURCHARGE DETAIL
NTS



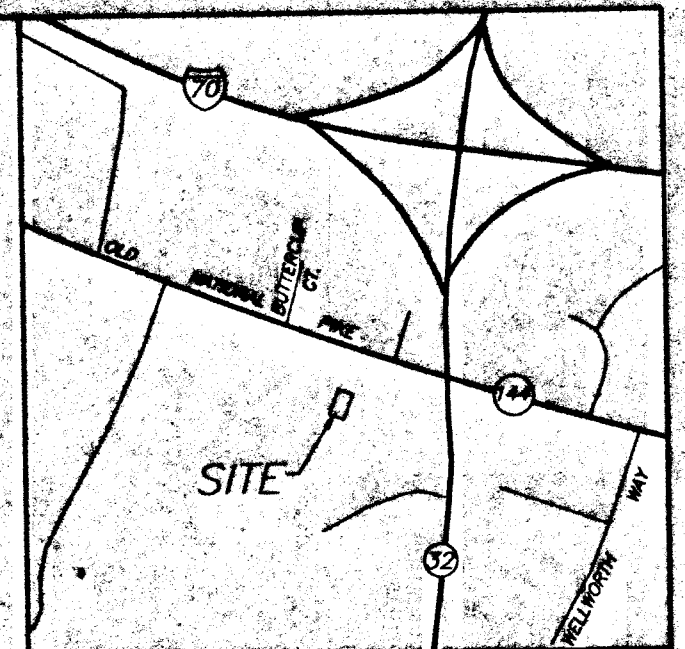
Andrew J. Forte
9/1/04

Brock Shanberger
9/1/04



SEPTIC SYSTEM DATA

INV. AT HOUSE 523.0
SEPTIC TANK
 EX. GRADE 524.5
 FIN. GRADE 524.5
 INV. IN 521.5
 INV. OUT 521.2
DISTRIBUTION BOX
 EX. GRADE 523.0
 FIN. GRADE 523.0
 INV. IN 520.7
 INV. OUT 520.5
TRENCHES
 INLET DEPTH: 3.5
 BOTTOM DEPTH:
 WIDTH:
 NOTE: TRENCH LENGTH AND ORIENTATION TO DR. DETERMINED BY HEALTH DEPARTMENT AT TIME OF SEPTIC SYSTEM LAYOUT INSPECTION.
 * SEWER SERVICE TO BASEMENT LEVEL IS AVAILABLE.



VICINITY MAP
SCALE: 1"=2000'

Grading Notes for Stormwater Management (SWM)

1. To satisfy the Howard County SWM requirements for this project, the contractor shall grade the driveway and a strip of land next to the north side of the driveway to allow water to 'sheet' flow through a grass filter strip. To maintain 'sheet flow', grounds shall be graded uniformly as possible (no dips or swales) with no sudden grade breaks. The sheet flow shall occur on the driveway and on a 15 ft grass strip minimum adjacent to the north side of the driveway. See typical driveway section this sheet. Grading shall not result in ponded areas ('bird baths'). Provide positive drainage away from house and driveway in accordance with the grading plan with minor field adjustments as needed. After driveway grading is complete, the disturbed areas shall be immediately stabilized to prevent formation of erosion channels.

Infiltration Trench Notes

1. All construction shall meet specifications outlined below and in applicable sections of MDE's 2000 Stormwater Design Manual and the Howard County Standards & Specifications.
2. Trench walls (soil) shall be scarified to remove 'sealed' areas caused by the excavation bucket.
3. Geotextile shall be Mirafli 140N or approved equal.
4. Aggregate fill shall be MD #2, or 3/4" stone, or pea gravel of uniformly sized stone (stone all same size). All stone must be washed, clean, and free of dirt & debris.
5. Extend non-perforated roof leader into the trench aggregate 1 ft. The remaining PVC pipe in the aggregate shall be perforated PVC with capped ends. Terminate main line with a cleanout.
6. Install an observation well near center of trench (perforated vertical PVC pipe on brick foundation and removable pinella cap, 3" above ground).
7. PVC shall be Schedule 40. Perforations shall meet AASHTO M36 class 2 perforation specifications (i.e., uniformly spaced 3/8" diameter holes totaling at least 3.3 in² per LF of pipe (47 - 3/8" diameter holes per LF of 6" pipe satisfies this requirement).
8. Observation well cap shall have two (2) 1/2" holes to allow air to escape.
9. Infiltration trench shall be located as shown on the plan and is 100 ft minimum from the septic field and 50 ft minimum from the well.

General SWM Notes

1. The gutters shall extend the length of the house and discharge into a downspout (1 at each northeast end of the house). The downspouts shall be directed to the Infiltration Trench as shown on the plan. The rain leaders shall be 6"Ø at a 1% grade with a 1 ft minimum cover.
 2. The roof gutters and drain spout shall be appropriately-sized to allow the roof water to drain to the north side of the house. Larger than normal gutters and down spouts may be necessary and shall follow the minimum criteria set in the plumbing Code used by Howard County. Install an over flow spout on the down spout at the house on each downspout.
 3. The Contractor shall under no circumstances allow surface drainage to enter the excavated infiltration trench until the functioning roof leaders are connected.
 4. Boards shall not remain in place after the infiltration trench construction.
 5. The contractor may need to provide independent material certification.
- Operation and Maintenance Schedule**
1. Homeowner shall keep gutters clean and free of debris to prevent dirt/debris entrance into Infiltration Trench.
 2. On an annual basis, the homeowner shall check the water level in the observation well after a large storm. Necessary corrective repairs shall be made if water level does not lower after 5 days.

DEVELOPER:
 JULIUS GROUP LLC
 1263 BEGGS RD
 WESTMINSTER, MD. 21157

OWNER:
 JAMES HUDSON III
 12795 ROUTE 144
 W. FRIENDSHIP, MD. 21794

SITE PLAN
 LOT 2
 "HUDSON PROPERTY"
 LOTS 1 TO 4"
 (PLAT #9725)

TAX MAP 15 GRID PARCEL 75 & 258
 THIRD ELECTION DIST. HOWARD CO., MD.
 SCALE: 1"=30' JULY 30, 2004

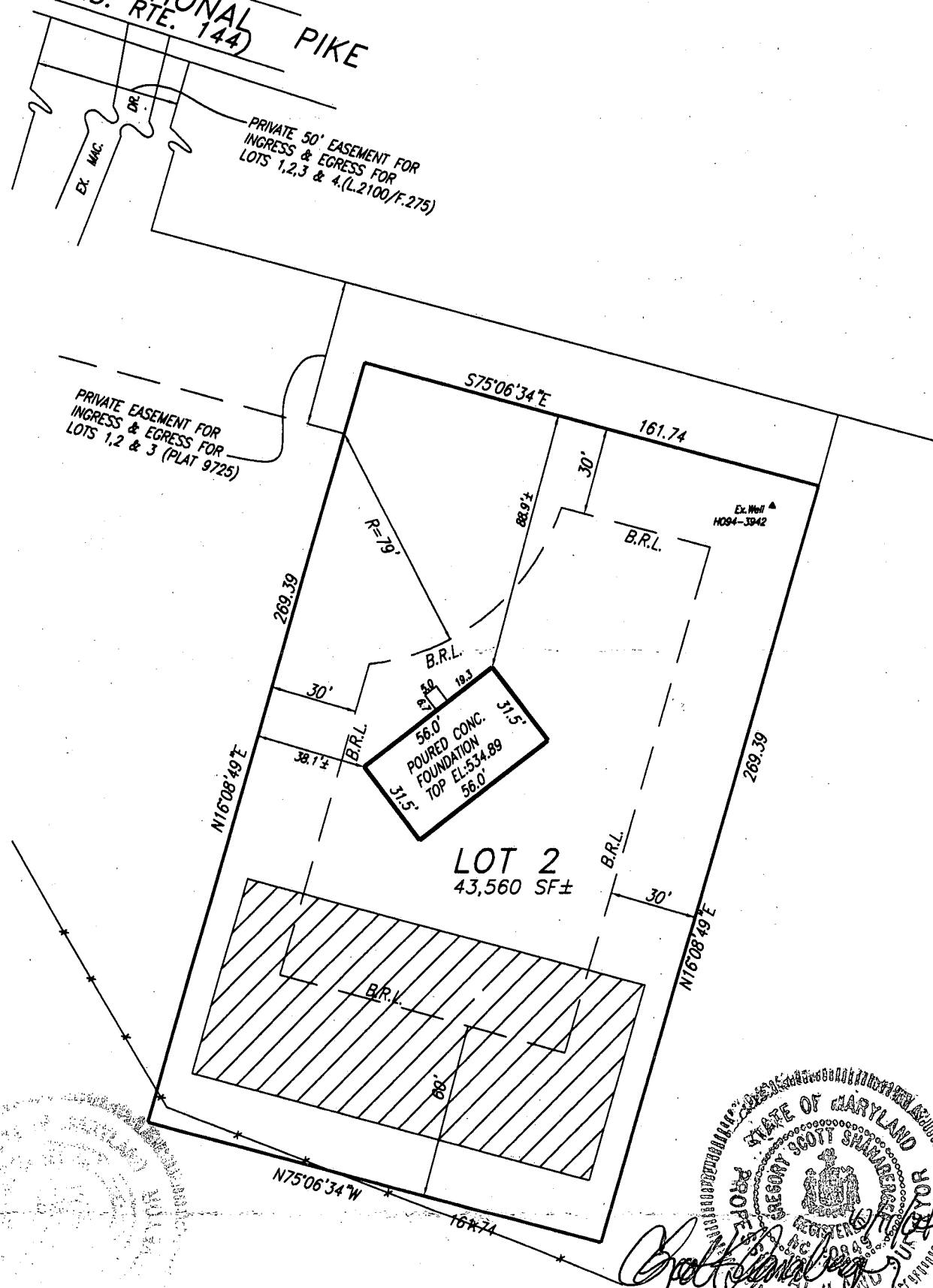
SHANBERGER & LANE
 8726 TOWN & COUNTRY BLVD.
 SUITE 201
 ELLICOTT CITY, MD. 21043
 PHONE: 410-461-9563
 FAX: 410-461-9693

THE PROPERTY SHOWN HEREON LIES IN ZONE C AS SHOWN ON FLOOD INSURANCE RATE MAP NO: 240044 0015B DATED: DEC. 4, 1986

NOTES:

1. THIS PLAT IS OF BENEFIT TO A CONSUMER ONLY INsofar AS IT IS REQUIRED BY A LENDER OR TITLE INSURANCE COMPANY OR ITS AGENT IN CONNECTION WITH CONTEMPLATED TRANSFER, FINANCING, OR REFINANCING.
2. THIS PLAT IS NOT TO BE RELIED UPON FOR THE ESTABLISHMENT OR LOCATION OF FENCES, GARAGES BUILDINGS, POOLS, BUILDING ADDITIONS OR OTHER EXISTING OR FUTURE IMPROVEMENTS.
3. THIS PLAT DOES NOT PROVIDE FOR THE ACCURATE IDENTIFICATION OF PROPERTY BOUNDARY LINES, BUT SUCH IDENTIFICATION MAY NOT BE REQUIRED FOR THE TRANSFER OF TITLE OR SECURING FINANCING OR REFINANCING.
4. ACCURACY OF BUILDING MEASUREMENTS: 0.1'
5. ACCURACY OF SETBACK DIMENSIONS: 0.5'

OLD NATIONAL PIKE (MD. RTE. 144)



I HEREBY CERTIFY THAT I HAVE LOCATED THE IMPROVEMENTS AS SHOWN. THIS PLAT DOES NOT REPRESENT A BOUNDARY SURVEY AND CANNOT BE USED TO ESTABLISH PROPERTY LINES OR CORNERS.

Gregory Scott Shanaberger

SHANABERGER & LANE
8726 TOWN AND COUNTRY BLVD.
SUITE 201
ELLICOTT CITY, MD. 21043
(410)461-9563 FAX:461-9693

FOUNDATION LOCATION DRAWING

LOT 2
"HUDSON PROPERTY"
LOTS 1 TO 4"
(PLAT #9725)

ELECTION DISTRICT: 3RD
DEED REFERENCE: 8396/475
COUNTY: HOWARD
SCALE: 1"=100'
DATE: OCTOBER 11, 2004
DATE OF LATEST FIELD WORK: 10/08/04

