

LAYOUT 7/14/06 INSP 4 \_\_\_\_\_  
 INSP 2 7/17/06 INSP 5 \_\_\_\_\_  
 INSP 3 \_\_\_\_\_ INSP 6 \_\_\_\_\_

ISSUE DATE: 05/16/06

P 524470

APPROVAL DATE: 7/17/06

A 541570

**PERMIT**

INDEXED

TAX ID # 05-412595

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

South Carroll Backhoe IS PERMITTED TO INSTALL  ALTER

ADDRESS: 4410 Salem Bottom Road PHONE NUMBER: 410-875-4197

SUBDIVISION: K & D Stables LOT NUMBER: 3

ADDRESS: 14337 Howard Road PROPERTY OWNER: NV Homes

SEPTIC TANK CAPACITY (GALLONS): 1250 OUTLET BAFFLE FILTER REQUIRED

PUMP CHAMBER CAPACITY (GALLONS): — COMPARTMENTED TANK REQUIRED

NUMBER OF BEDROOMS: 4

SQUARE FEET PER BEDROOM: 200

LINEAR FEET OF TRENCH REQUIRED: 100

TRENCHES:	Trench to be 2.0 feet wide. Inlet 3.0 feet below original grade. Bottom maximum depth 7.0 feet below original grade. Effective area begins at 3.0 feet below original grade. 4.0 feet of stone below distribution pipe.
LOCATION:	Start the first trench 200' from the front lot line and 90' from the right lot line as seen when facing the property from Howard Road. Run trenches along contour toward left side of lot.
NOTES:	<i>No 90° bends before septic tank.</i>

PLANS APPROVED: \_\_\_\_\_ DATE: \_\_\_\_\_

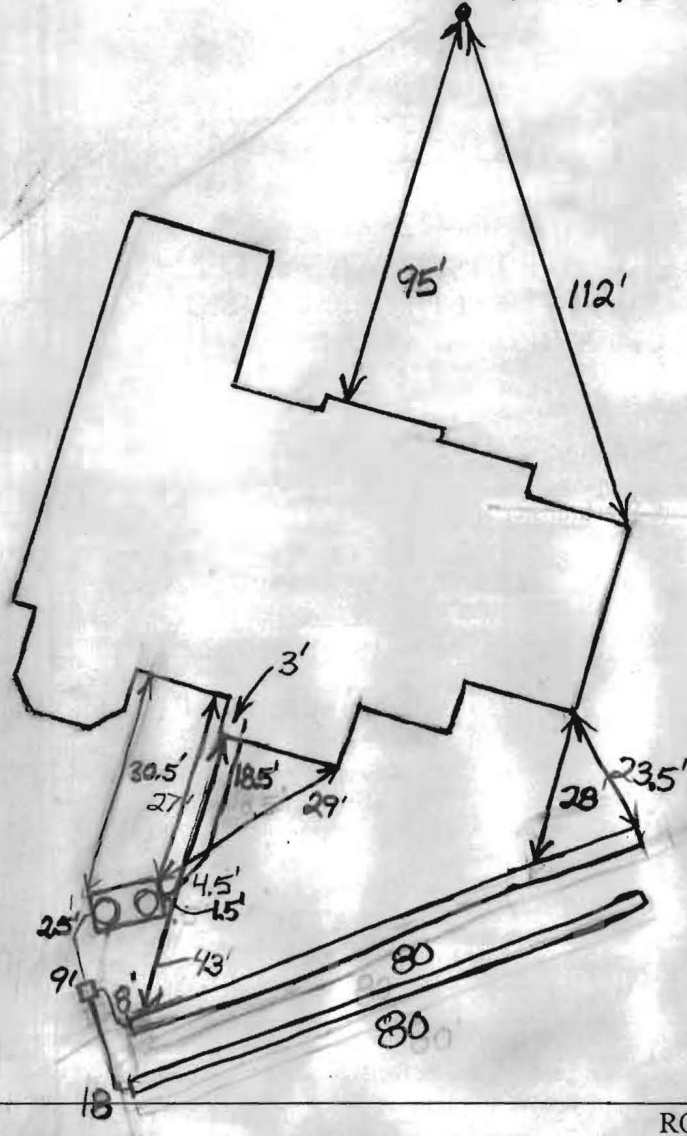
- NOTE: PERMIT VOID AFTER 2 YEARS
- NOTE: CONTRACTOR RESPONSIBLE FOR SCHEDULING A PRE-CONSTRUCTION INSPECTION FOR ALL INSTALLATIONS
- NOTE: WATERTIGHT SEPTIC TANKS REQUIRED
- NOTE: ALL PARTS OF SEPTIC SYSTEM SHALL BE 100 FEET FROM ANY WATER WELL
- NOTE: MANHOLE RISERS REQUIRED ON ALL SEPTIC TANKS AND PUMP CHAMBERS UNLESS SPECIFICALLY AUTHORIZED

**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 410-313-2640 FOR INSPECTION OF SEPTIC SYSTEM**

A541570

NOT TO SCALE

HO-95-0152



TRENCH/DRAINFIELD DATA		
WIDTH	INLET	BOTTOM
2	3	7 <sup>8</sup>
NUMBER OF TRENCHES 2		
TOTAL LENGTH 160'		
ABSORPTION AREA 480+ Sidewall		
DISTRIBUTION BOX LEVEL Levelers		
DISTRIBUTION BOX BAFFLE Yes		
DISTRIBUTION BOX PORT No		

SEPTIC TANK DATA	
SEPTIC TANK 1 LEVEL	Yes
CAPACITY	1500 GAL
SEAM LOC	Top
TANK LID DEPTH	1'-2'
BAFFLES	Yes
BAFFLE FILTER	No
MANHOLE LOC	Front+Rear
6" PORT LOC	None
WATERTIGHT TEST	No
SEPTIC TANK 2 LEVEL	N/A
CAPACITY	GAL
SEAM LOC	
TANK LID DEPTH	
BAFFLES	
BAFFLE FILTER	
MANHOLE LOC	
6" PORT LOC	
WATERTIGHT TEST	

PRE-CONSTRUCTION 7/14/06 Tank set per plan. Easement not staked.

Must get staked. Install 2-80' trenches from area directly below tank towards the upper left part of the easement area. (BB)

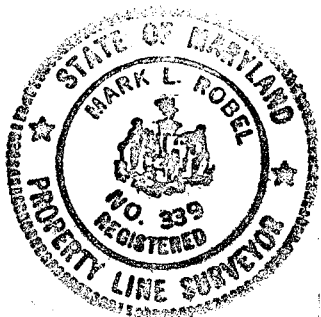
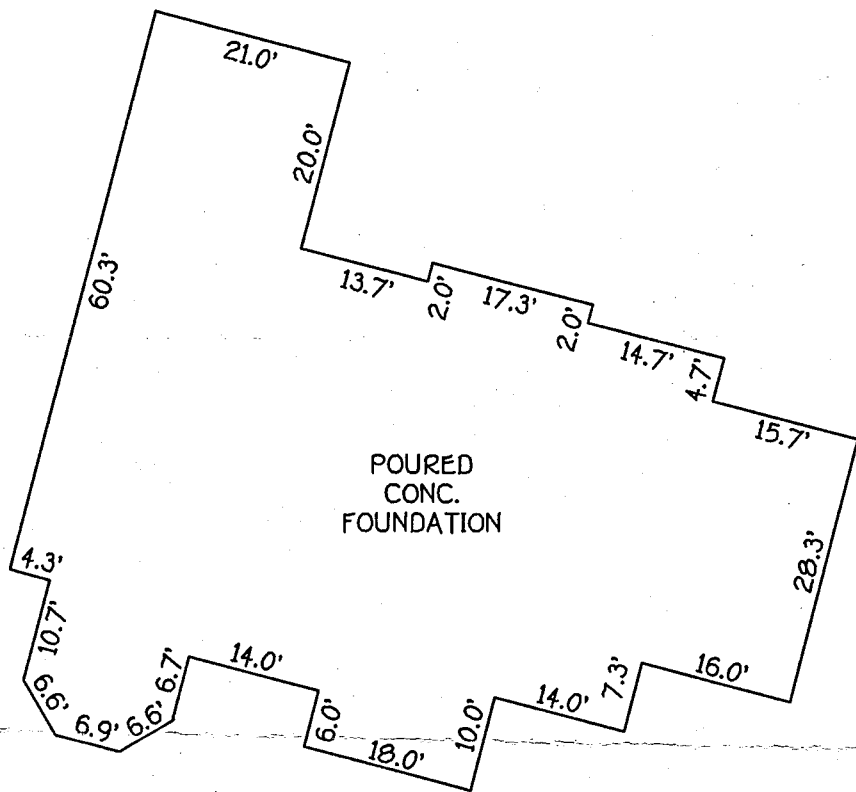
7/17/06 O.K. to cover. (BB)

FINAL INSPECTOR B. Baker

DATE OF APPROVAL 7/17/2006

**GENERAL NOTES:**

- 1) THIS LOCATION DRAWING IS PREPARED FOR THE BENEFIT OF THE CLIENT SIGNING THE HOUSE LOCATION SURVEY APPROVAL FORM INsofar AS IT IS REQUIRED BY A LENDER OR TITLE INSURANCE COMPANY OR ITS AGENTS IN CONNECTION WITH THE CONTEMPLATED TRANSFER, FINANCING OR REFINANCING OF THE PROPERTY SHOWN HEREON. UNLESS INDICATED AS BEING A BOUNDARY SURVEY, THIS LOCATION DRAWING IS NOT INTENDED FOR USE IN THE ESTABLISHMENT OF PROPERTY LINES AND IS NOT TO BE RELIED UPON FOR THE ESTABLISHMENT OR LOCATIONS OF FENCES, GARAGES, BUILDINGS OR OTHER EXISTING OR FUTURE IMPROVEMENTS. AS A RESULT, THIS LOCATION DRAWING DOES NOT PROVIDE FOR ACCURATE IDENTIFICATION OF PROPERTY LINES, BUT SUCH IDENTIFICATION MAY NOT BE REQUIRED FOR THE TRANSFER OF TITLE OR SECURING FINANCING FOR RE-FINANCING.
- 2) SUBJECT PROPERTY IS SHOWN IN ZONE C ON THE NATIONAL FLOOD INSURANCE PROGRAM FLOOD INSURANCE RATE MAP OF HOWARD COUNTY, MARYLAND, COMMUNITY PANEL No. 2400440020B EFFECTIVE DEC. 4, 1986.
- 3) THE OFFSETS FROM BUILDING LINE TO PROPERTY LINE AS SHOWN ON THE PLAT HEREON ARE TO AN ACCURACY OF PLUS OR MINUS 0.5' (±)
- 4) NO TITLE REPORT FURNISHED. SUBJECT TO ALL EASEMENTS, RIGHTS OF WAY AND CONDITIONS OF RECORD.
- 5) THE EXISTING WELL(S) SHOWN ON THIS PLAN (IDENTIFIED WITH THE ATTACHED WELL TAG NUMBER HO-95-0152) HAS BEEN FIELD LOCATED BY FISHER, COLLINS AND CARTER, INC. PROFESSIONAL LAND SURVEYORS AND IS ACCURATELY SHOWN.



*Mark L. Robel* 5/04/06  
 PROFESSIONAL LAND SURVEYOR DATE  
 REG. # 339

**FISHER, COLLINS & CARTER, INC.**  
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
 CENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE  
 ELLICOTT CITY, MARYLAND 21042  
 (410) 461-2925

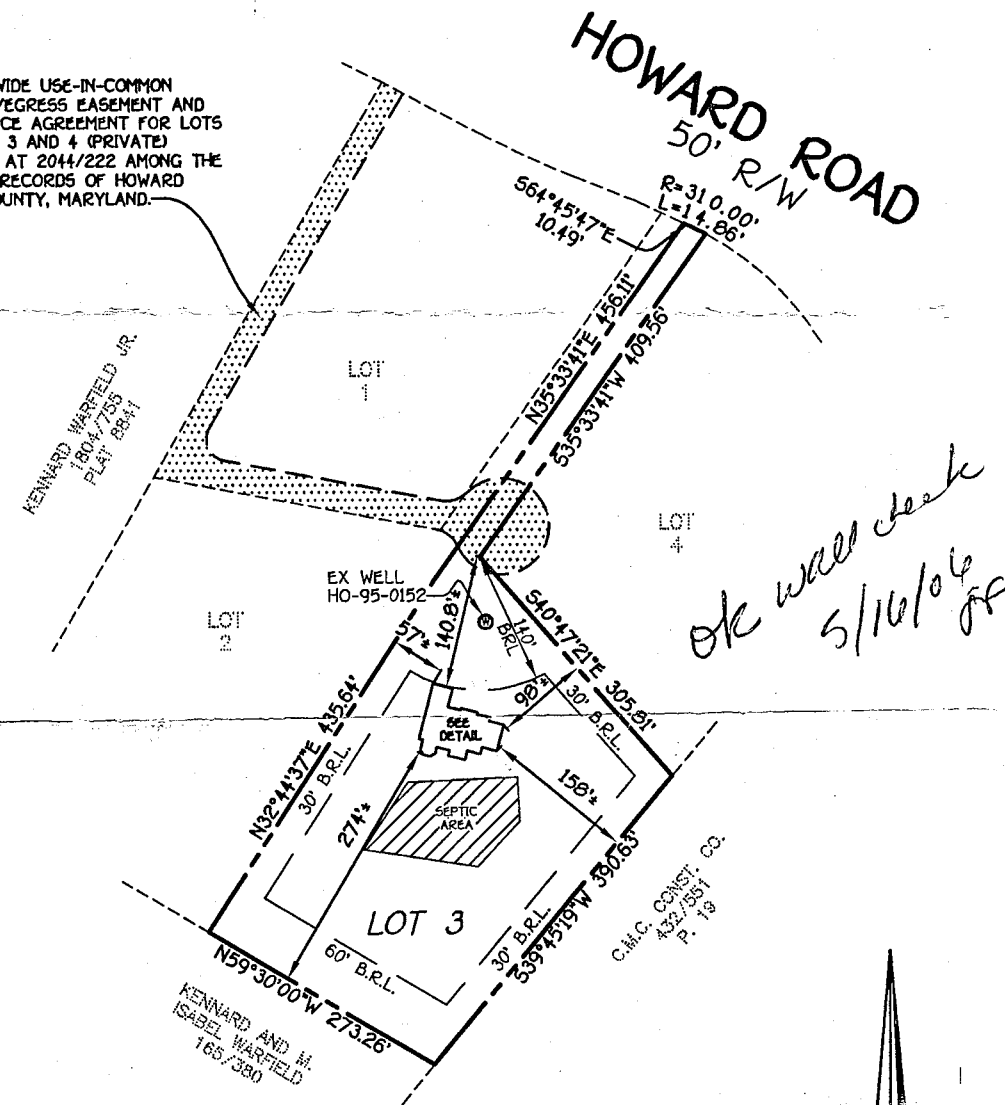
LOT 3  
 A MINOR SUBDIVISION  
 PLAT FOR LOTS 1-4  
 K & D STABLES  
 FIFTH ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND  
 PLAT #9336  
 • HOWARD ROAD  
 B.R.L.= BUILDING RESTRICTION LINE  
 TOP OF FOUNDATION ELEV.= 533.4'±

**HOUSE LOCATION DRAWING**

FOUNDATION LOCATION: 4/04/06  
 FINAL LOCATION: \_\_\_\_\_  
 BOUNDARY SURVEY: \_\_\_\_\_

SCALE: 1"=200'  
 DATE: 05/04/06  
 DRAWN BY: V.L.J.  
 CHECKED BY: M.L.R.  
 PROJECT No.: 05064-1002

25' WIDE USE-IN-COMMON  
 INGRESS/EGRESS EASEMENT AND  
 MAINTENANCE AGREEMENT FOR LOTS  
 1, 2, 3 AND 4 (PRIVATE)  
 RECORDED AT 2044/222 AMONG THE  
 LAND RECORDS OF HOWARD  
 COUNTY, MARYLAND.



**SEDIMENT CONTROL NOTES**

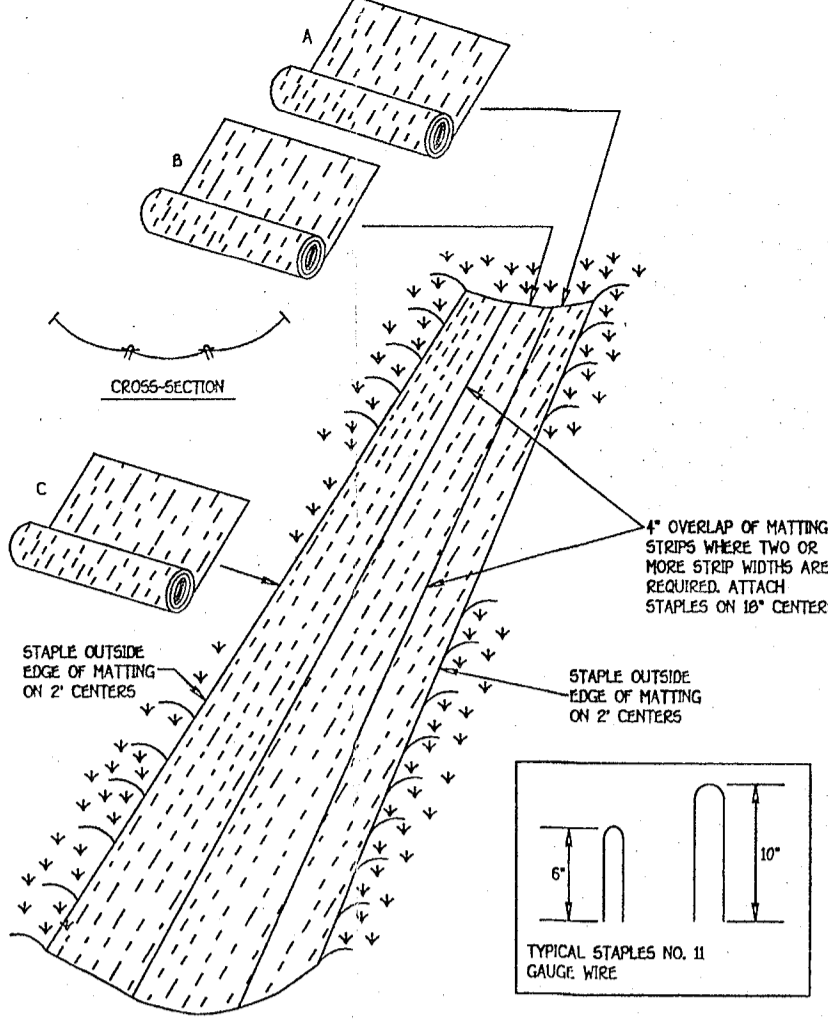
- A minimum of 48 hours notice must be given to the HOWARD COUNTY DEPARTMENT OF INSPECTION, LICENSING AND PERMITTING CONTROL DIVISION PRIOR TO THE START OF ANY CONSTRUCTION (03-18-09).
- ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE MOST CURRENT MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL AND REVISIONS THEREOF.
- FOLLOWING INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN 10 CALENDAR DAYS FOR ALL PROJECTS SUBJECT TO SEDIMENT CONTROL. STRUCTURES, DECKS, PERIMETER SLOPES AND ALL SLOPES STEEPER THAN 3:1 IN 14 DAYS AS TO ALL OTHER RESTORED OR GRADED AREAS ON THE PROJECT SITE.
- ALL SEDIMENT TRANSPORTS SHALL BE FENCED AND WARNING SIGNS POSTED AROUND THEIR PERIMETER IN ACCORDANCE WITH VOL. 1, CHAPTER 22, OF THE HOWARD COUNTY DESIGN MANUAL, STORM DRAINAGE.
- ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE IN ACCORDANCE WITH THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR PERMANENT SEEDING (SEC. 20, 500 GCS, 5A), TEMPORARY SEEDING (SEC. 50, AND PLACING (SEC. 50). TEMPORARY SEEDING (SEC. 50, AND PLACING (SEC. 50). TEMPORARY SEEDING (SEC. 50, AND PLACING (SEC. 50). ONLY BE DONE WHEN RECOMMENDED SEEDING DATES DO NOT ALLOW FOR PROPER GERMINATION AND ESTABLISHMENT OF GRASSES.
- ALL SEDIMENT CONTROL STRUCTURES ARE TO REMAIN IN PLACE AND ARE TO BE MAINTAINED IN OPERATIVE CONDITION UNTIL PERMSSION FOR THEIR REMOVAL HAS BEEN OBTAINED FROM THE HOWARD COUNTY DEPARTMENT OF INSPECTION, LICENSING AND PERMITTING CONTROL DIVISION.
- SITE ANALYSIS
  - TOTAL AREA OF SITE: 3,242.8 ACRES
  - AREA TO BE SEEDING OR PAVED: 0.541 ACRES
  - AREA TO BE VEGETATIVELY STABILIZED: 4.623 ACRES
  - TOTAL CUT: 143 CUBIC YARDS
  - TOTAL FILL: 143 CUBIC YARDS
  - OFFSITE WASTE/DROPPED AREA LOCATION: N/A
- IF ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE.
- ADDITIONAL SEDIMENT CONTROL MEASURES MUST BE PROVIDED IF DEEMED NECESSARY BY THE HOWARD COUNTY DEPARTMENT OF INSPECTION.
- ON ALL SITES WITH DISTURBED AREAS IN EXCESS OF 2 ACRES, APPROVAL OF THE INSPECTION AGENCY IS REQUIRED PRIOR TO THE COMPLETION OF INSTALLATION OF PERIMETER EROSION AND SEDIMENT CONTROL, BUT BEFORE PROCEEDING WITH ANY OTHER EARTH DISTURBANCE OR GRADING. OTHER BUILDING OR GRADING INSPECTION APPROVALS MAY NOT BE AUTHORIZED UNTIL THIS INITIAL APPROVAL BY THE INSPECTION AGENCY IS MADE.
- TRENCHES FOR THE CONSTRUCTION OF UTILITIES ARE LIMITED TO THREE PIPE LENGTHS OR THAT WHICH SHALL BE BACK-FILLED AND STABILIZED WITH ONE WORKING DAY, WHICHEVER IS SHORTER.

**TEMPORARY SEEDING NOTES**

- APPLY TO GRADES OR CLEARED AREAS LIKELY TO BE REDISTURBED WHERE A SHORT-TERM VEGETATIVE COVER IS NEEDED.
- SEEDING PREPARATION:**  
LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING, IF NOT PREVIOUSLY LOOSENED.
- SOIL AMENDMENTS:**  
APPLY 600 LBS. PER ACRE 10-10-10 FERTILIZER (4 LBS./1,000 SQ. FT.)
- SEEDING:**  
FOR THE PERIODS MARCH 1 THROUGH APRIL 30, AND AUGUST 1 THROUGH NOVEMBER 15, SEED WITH 1 1/2 BUSHEL PER ANNUAL RYE (32 LBS./1,000 SQ. FT.) FOR THE PERIOD MAY 1 THROUGH AUGUST 1, SEED WITH 1 LB./ACRE OF MIXED LOWGROWING (77 LBS./1,000 SQ. FT.) FOR THE PERIOD NOVEMBER 16 THROUGH FEBRUARY 29. PROTECT SITE BY APPLYING 2 TONS PER ACRE OF WELLS ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING, OR USE SOIL.
- MULCHING:**  
APPLY 1 1/2 TO 2 TONS PER ACRE (70 TO 90 LBS./1,000 SQ. FT.) OF UNLIMITED SMALL GRASS STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 200 GALLONS PER ACRE OF GALLIUM/200 GALLONS PER ACRE OF EMULSIFIED ASPHALT ON SLOPES OF 1:1 OR MORE STEEP. USE 300 GALLONS PER ACRE OF GALLIUM/200 GALLONS PER ACRE OF EMULSIFIED ASPHALT ON FLAT AREAS, ON SLOPES OF 1:1 OR MORE STEEP. REFER TO THE 1994 MARYLAND STANDARDS AND SPECIFICATION FOR SOIL EROSION AND SEDIMENT CONTROL FOR RATE AND METHODS NOT COVERED.

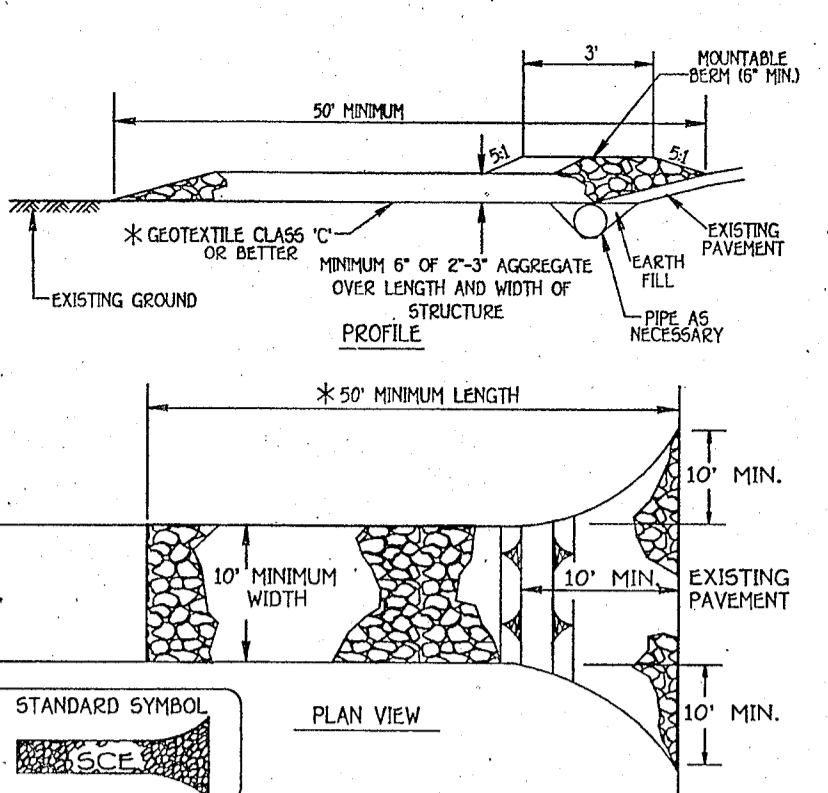
**PERMANENT SEEDING NOTES**

- ALL DISTURBED AREAS SHALL BE STABILIZED AS FOLLOWS:
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- SOIL AMENDMENTS:**  
APPLY TWO TONS PER ACRE DOLOMITIC LIMESTONE (82 LBS./1,000 SQ. FT.) AND 600 LBS. PER ACRE 10-20-20 FERTILIZER (4 LBS./1,000 SQ. FT.) BEFORE SEEDING. HARROW OR DISC INTO UPPER THREE INCHES OF SOIL. AT TIME OF SEEDING, APPLY 400 LBS. PER ACRE 30-0-0 UREA/NITROGEN FERTILIZER (9 LBS./1,000 SQ. FT.) AND 500 LBS. PER ACRE (15 LBS./1,000 SQ. FT.) OF 10-20-20 FERTILIZER.
- SEEDING:**  
FOR THE PERIODS MARCH 1 THROUGH APRIL 30, AND AUGUST 1 THROUGH OCTOBER 15, SEED WITH 100 LBS. PER ACRE (2.3 LBS./1,000 SQ. FT.) OF KENTUCKY 31 TALL FESCUE AND 2 LBS. PER ACRE (0.05 LBS./1,000 SQ. FT.) OF MIXED LOWGROWING. DURING THE PERIOD OF OCTOBER 16 THROUGH FEBRUARY 29, PROTECT SITE BY OPTION ID - TWO TONS PER ACRE OF WELLS ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING, OPTION (2) - USE SOIL OPTION (3) - SEED WITH 100 LBS./ACRE KENTUCKY 31 TALL FESCUE AND MULCH WITH TWO TONS/ACRE WELLS ANCHORED STRAW. ALL SLOPES SHOULD BE HYDROSEED.
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- MAINTENANCE:**  
INSPECT ALL SEEDING AREAS AND MAKE NEEDED REPAIRS, REPLACEMENTS AND RESEEDINGS.  
FOR PUBLIC POND SUBSTITUTES CHANGING CROWN/VETCH AT 15 LBS./ACRE AND KENTUCKY 31 TALL FESCUE AT 40 LBS./ACRE AS THE SEEDING REQUIREMENT. OPTIMUM SEEDING DATE FOR THIS MIXTURE IS MARCH 1 TO APRIL 30.



**EROSION CONTROL MATTING**

- NOT TO SCALE
1. Key-in the matting by placing the top ends of the matting in a narrow trench, 6" in depth. Shovel the trench and trim firmly to conform to the ground surface. Secure with a row of staples about 4' down slope from the trench. Spacing between staples is 6'. Staple the 4" ends in the chain center using an 18" spacing between staples.
2. Before stapling the outer edges of the matting, make sure the matting is smooth and in firm contact with the soil.
3. Staples shall be placed 2' apart with 4 rows for each strip. 2 outer rows and 2 alternating rows in the center.
4. Where one roll of matting ends and another begins, the end of the top strip shall overlap the upper end of the lower strip by 4" slightly offset. Reinforce the overlap with a double row of staples spaced 2' apart in a 4" strip.
5. The overlap of the matting roll shall be similarly secured with 2 double rows.
- Note: If flow will enter from the edge of the matting then the area affected by the flow must be treated.



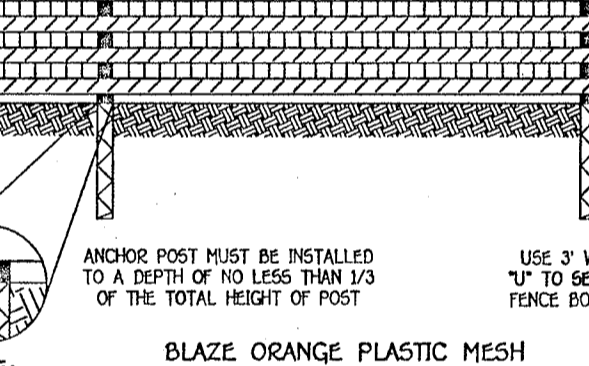
**STABILIZED CONSTRUCTION ENTRANCE**

- NOT TO SCALE
1. Length - minimum of 50' (100' for single residence lot).
2. Width - 10' minimum should be placed at the existing road to provide a turning radius.
3. Geotextile fabric (filter cloth) shall be placed over the existing ground prior to placing stone. The plain geotextile fabric may not require single-family residences to use geotextile.
4. Stone - crushed aggregate 1/2" to 3/4" or rounded or recycled concrete equivalent shall be placed at least 6" deep over the length and width of the entrance.
5. Surface Water - all surface water flowing to or diverted toward construction entrances shall be piped through the entrance, maintaining positive drainage. The installed through the stabilized construction entrance shall be protected with a malleable beam with 5:1 slopes and a minimum of 6" of stone over the pipe. Pipe has no drainage to convey a pipe will not be necessary. Pipe should be sized according to the amount of runoff to be conveyed. A 6" minimum will be required.
6. Location - A stabilized construction entrance shall be located at every point where construction traffic enters or leaves a construction site. Vehicles leaving the site must travel over the entire length of the stabilized construction entrance.

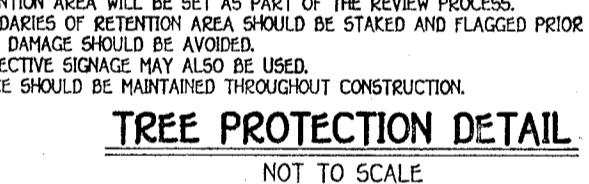
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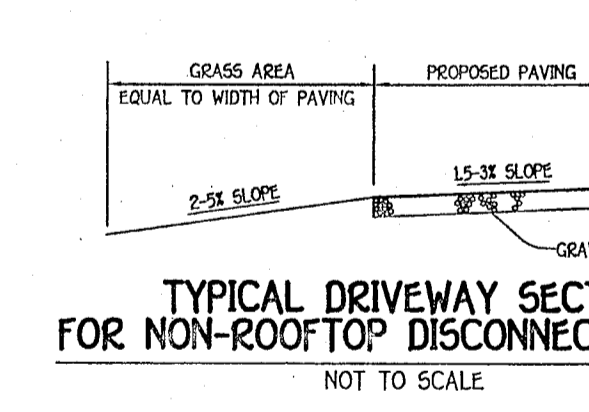
**BLAZE ORANGE PLASTIC MESH**



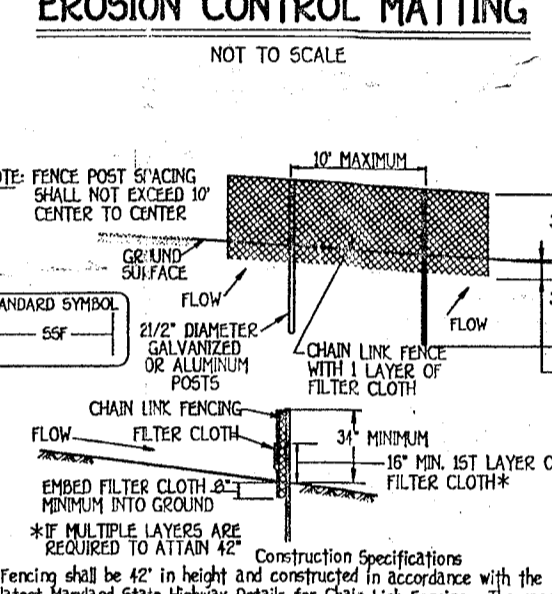
**TREE PROTECTION DETAIL**



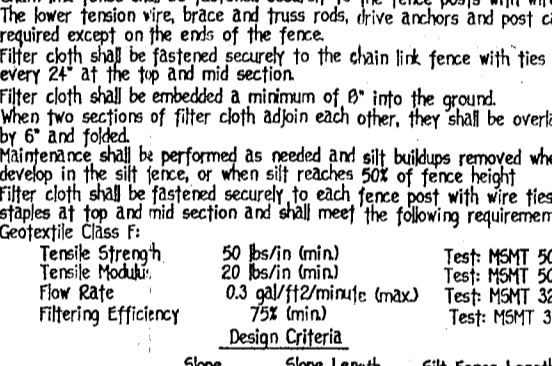
**TYPICAL DRIVEWAY SECTION FOR NON-ROOFTOP DISCONNECT CREDIT**



**SUPER SILT FENCE**

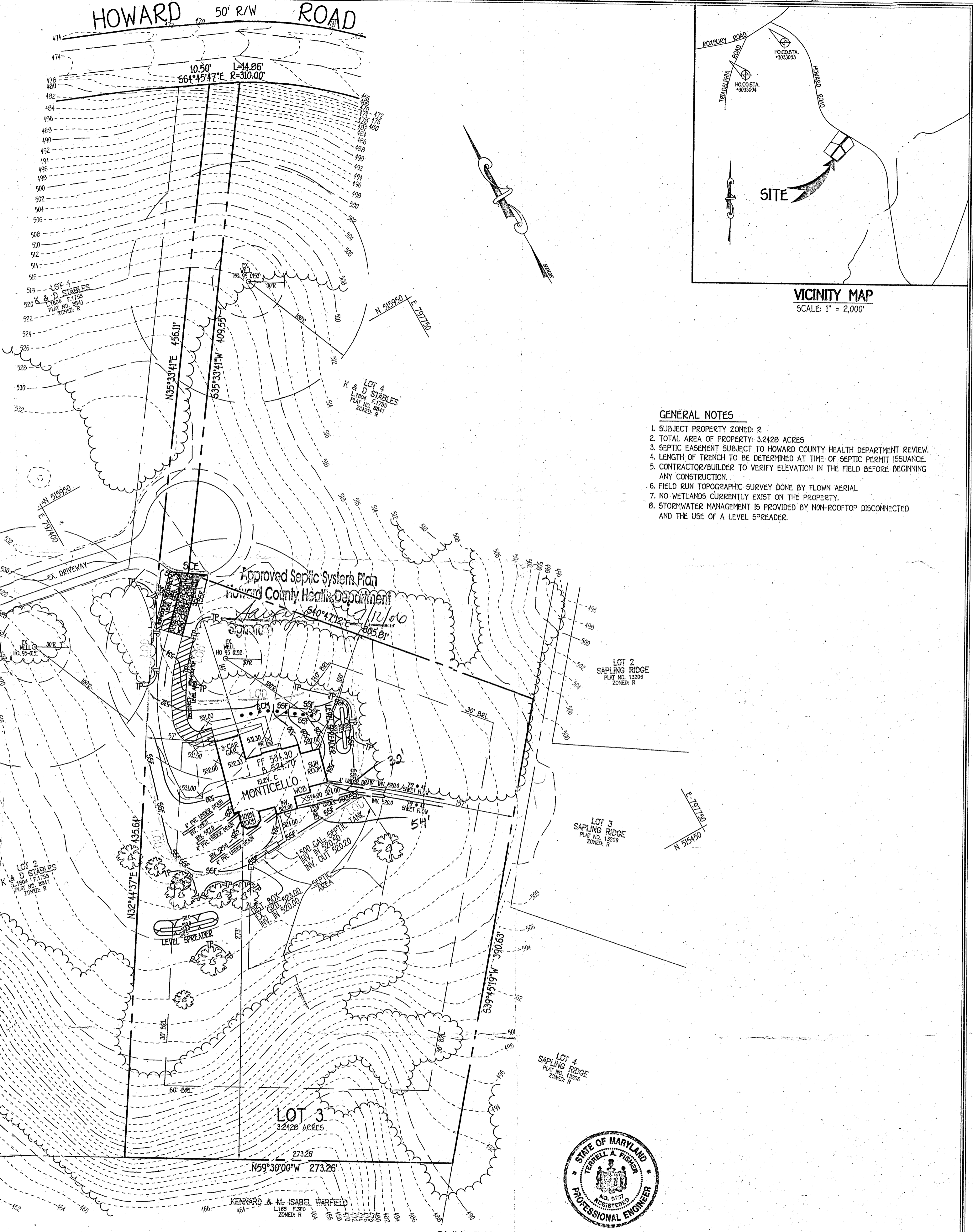


**LEVEL SPREADER**



**NOTE**

- THE EXISTING WELL SHOWN ON THIS PLAN, TAG NO. HD 95-047 HAS BEEN FIELD LOGGED BY FISHER, COLLINS & CARTER, INC., PROFESSIONAL LAND SURVEYORS AND IS ACCURATELY SHOWN.



**LEGEND**

SYMBOL	DESCRIPTION
---	EXISTING CONTOUR 2' INTERVAL
- - - -	PROPOSED CONTOUR 2' INTERVAL
4362.5	SPOT ELEVATION
ECM	EROSION CONTROL MATTING
TP	TREE PROTECTION
SSF	SUPER SILT FENCE
LOD	LIMITS OF DISTURBANCE

**SEQUENCE OF CONSTRUCTION**

NO.	DESCRIPTION	ESTIMATED DURATION
1.	OBTAIN GRADING PERMIT.	1 DAY
2.	INSTALL SEDIMENT AND EROSION CONTROL DEVICES AS SHOWN ON PLAN.	1 DAY
3.	CLEAR AND GRUB TO LIMITS OF DISTURBANCE AND MASS GRADE TO SUB-BASE.	1 DAY
4.	INSTALL TEMPORARY SEEDING.	1 DAY
5.	CONSTRUCT BUILDINGS.	2 MONTHS
6.	CONSTRUCT LEVEL SPREADERS.	1 DAY
7.	GRADE SITE AND INSTALL PERMANENT SEEDING AND LANDSCAPE.	1 DAY
8.	REMOVE SEDIMENT CONTROL DEVICES AS UPLAND AREAS ARE STABILIZED AND PERMISSION IS GRANTED BY I/S CONTROL INSPECTOR.	2 DAYS

**DEVELOPER'S CERTIFICATE**

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

TERRELL A. FISHER  
12/20/05

**ENGINEER'S CERTIFICATE**

I HEREBY CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITION AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD COUNTY CONSERVATION DISTRICT.

TERRELL A. FISHER  
12/20/05

**OWNER/DEVELOPER**

KENNARD WARFIELD, JR.  
C/O LAND DESIGN & DEVELOPMENT, INC.  
6307 MAIN STREET  
ELLCOTT CITY, MARYLAND 21043

**BUILDER**

NV HOMES  
6085 MARSHALEE DRIVE  
SUITE 130  
ELKDRIDGE, MARYLAND 21075  
410-730-390

**SITE DEVELOPMENT, SEDIMENT/EROSION CONTROL PLAN, NOTES & DETAILS**

**K & D STABLES**

LOT 3  
3.2428 ACRES

TAX MAP NO. 21 ZONED R PARCEL NO. 206  
5TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
SCALE: 1" = 50'  
DATE: DECEMBER, 2005

**FISHER, COLLINS & CARTER, INC.**  
CONSULTING ENGINEERS, ARCHITECTS, LAND SURVEYORS  
CENTRAL SQUARE OFFICE PARK - 10772 BALTIMORE NATIONAL PARK  
ELLCOTT CITY, MARYLAND 21042  
410-461-2955

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

John C. Blanton  
12/21/05  
HOWARD COUNTY CONSERVATION DISTRICT

REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.

Jim Morgan  
12/21/05  
U.S.D.A. NATURAL RESOURCES CONSERVATION SERVICE

TERRELL A. FISHER  
12/20/05  
DATE

TERRELL A. FISHER  
12/20/05  
DATE

STATE OF MARYLAND  
TERRELL A. FISHER  
PROFESSIONAL ENGINEER