

LAYOUT 10/17/05 11AM INSP 4 _____
INSP 2 _____ INSP 5 _____
INSP 3 _____ INSP 6 _____

ISSUE DATE: 03/14/05

P 522031

APPROVAL DATE: 11/8/05

A 511043

PERMIT

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

South Carroll Backhoe, Inc. IS PERMITTED TO INSTALL ALTER

ADDRESS: 4410 Salem Bottom Rd, Westminster PHONE NUMBER: _____

SUBDIVISION: Kings Gift LOT NUMBER: 27

ADDRESS: 11608 W. Winchester Lane PROPERTY OWNER: Gary Barnard

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

PUMP CHAMBER CAPACITY (GALLONS): NA COMPARTMENTED TANK REQUIRED

NUMBER OF BEDROOMS: 4

SQUARE FEET PER BEDROOM: 180

LINEAR FEET OF TRENCH REQUIRED: 240

TRENCHES:	Trench to be 3.0 feet wide. Inlet 2.0 feet below original grade. Bottom maximum depth 4.0 feet below original grade. Effective area begins at 4.0 feet below original grade. 2.0 feet of stone below distribution pipe.
LOCATION:	Keep Distribution box at highest elevation in SDA.
NOTES:	Shallow system only. Contour trenches are extremely important. No basement gravity service

PLANS APPROVED: Pete Yencsik DATE: 3/14/05

- 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

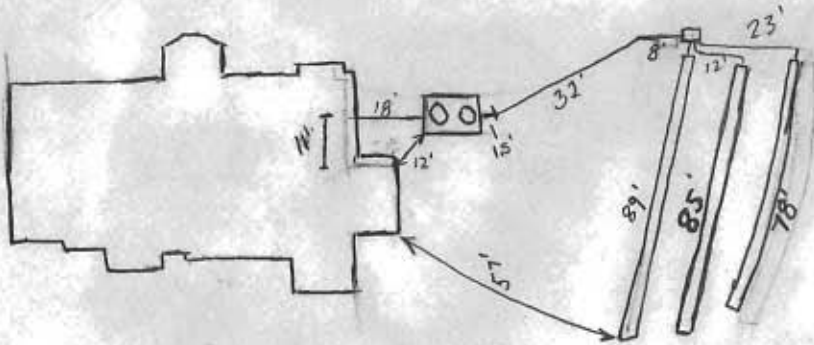
NEITHER THE HOWARD COUNTY COUNCIL NOR THE HEALTH DEPARTMENT IS RESPONSIBLE FOR THE SUCCESSFUL OPERATION OF ANY SYSTEM PERMITTEE RESPONSIBLE FOR OBTAINING FINAL APPROVAL ON THIS PERMIT

BUILDING PERMIT SIGNED AND RETURNED 313-2640 FOR INSPECTION OF SEPTIC SYSTEM

612706-80600327 - GARAGE

NOT TO SCALE

$$\begin{array}{r} 1.25 \\ \times 3/5 \\ \hline 17.5 \end{array}$$



West WINCHESTER ROAD

TRENCH/DRAINFIELD DATA		
WIDTH	INLET	BOTTOM
3'	2'	4'
NUMBER OF TRENCHES		3
TOTAL LENGTH		252'
ABSORPTION AREA		756 + SW
DISTRIBUTION BOX LEVEL		Yes
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	~2'
BAFFLES	Yes 4
BAFFLE FILTER	No/N/A
MANHOLE LOC	Inlet
6" PORT LOC	Outlet
WATERTIGHT TEST	N/A
SEPTIC TANK 2 LEVEL	
CAPACITY	_____ GAL
SEAM LOC	_____
TANK LID DEPTH	_____
BAFFLES	_____
BAFFLE FILTER	_____
MANHOLE LOC	_____
6" PORT LOC	_____
WATERTIGHT TEST	_____

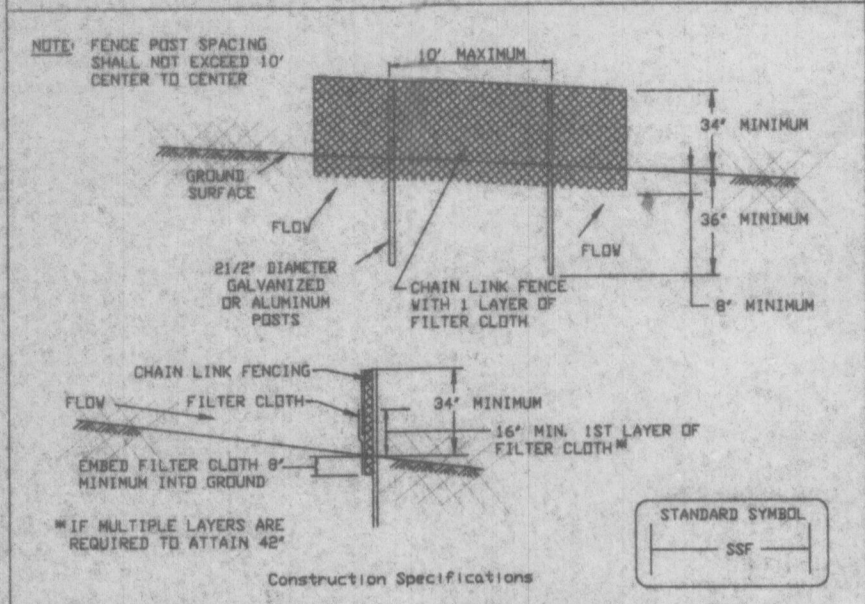
PRE-CONSTRUCTION 10/17/05 Septic area not staked per revised septic system plans (GAC) Contour appears very bad.

INSTALLATION 10/18/05 Septic easement to be staked. Place distribution box on the knoll in the easement and install trenches on contour from there (BB) 11/7/05 Septic Area finally staked. Run ~3 x 80' trenches on contour. Septic tank ok per plan (GAC) - 11/8/05 Trenches installed ok to cover (GAC) Public Water serves this development.

BUILDING PERMIT SIGNED AND RETURNED

FINAL INSPECTOR Gabriel A. Graydon DATE OF APPROVAL 11/8/05

DETAIL 33 - SUPER SILT FENCE



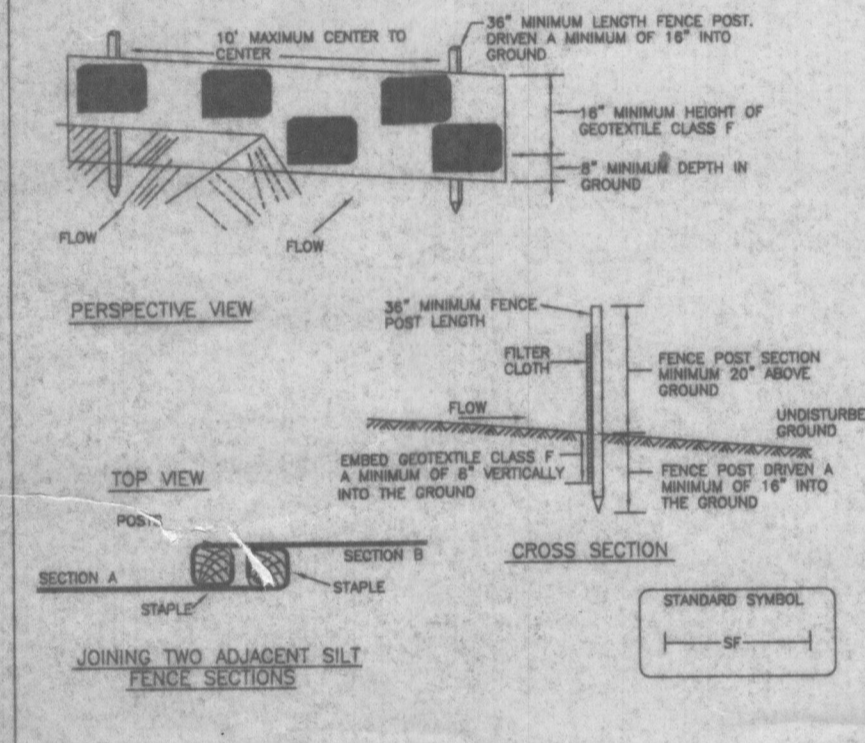
CONSTRUCTION SPECIFICATIONS

- Fencing shall be 40" in height and constructed in accordance with the latest Maryland State Highway Details for Chain Link Fencing. The specification for a 6' fence shall be used, substituting 42" fabric and 6" length posts.
- Chain link fence shall be fastened securely to the fence posts with wire ties. The lower tension wire, bracing and bracing rods, drive anchors and post caps are not required except on the ends of the fence.
- Filter cloth shall be fastened securely to the chain link fence with ties spaced every 24" at the top and mid section.
- Filter cloth shall be embedded a minimum of 8" into the ground.
- When two sections of filter cloth adjoin each other, they shall be overlapped by 6" and folded.
- Maintenance shall be performed as needed and silt buildup removed when "bulges" develop in the silt fence, or when silt reaches 50% of fence height.
- Filter cloth shall be fastened securely to each fence post with wire ties or staples at top and mid section and shall meet the following requirements for Geotextile Class F:

Tensile Strength	80 lbs/in (min.)	Test: MDOT 509
Tensile Modulus	20 lbs/in (min.)	Test: MDOT 509
Flow Rate	0.3 gal/ft ² /minute (max.)	Test: MDOT 382
Filtering Efficiency	75% (min.)	Test: MDOT 382

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE PAGE 8-16-3 MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

DETAIL 22 - SILT FENCE



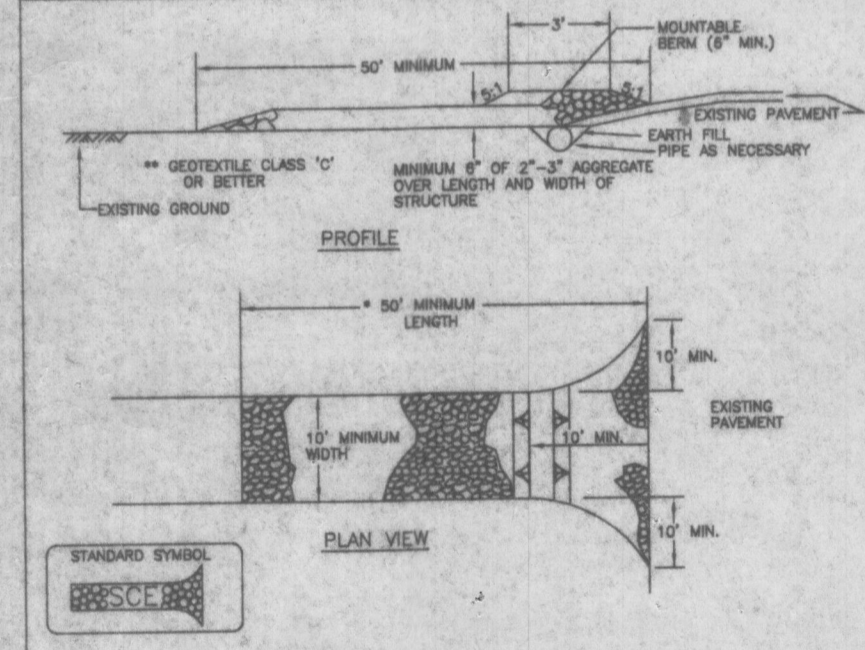
CONSTRUCTION SPECIFICATIONS

- Fence posts shall be a minimum of 24" long driven 10" minimum into the ground. Wood posts shall be 1 1/2" x 1 1/2" x 10' minimum. Metal posts shall be 1 1/2" diameter round pipe or equivalent. All posts shall be of good quality hardwood. Posts will be stamped every 10' and shall not be less than 1/2" round for lower foot.
- Geotextile shall be fastened securely to each fence post with wire ties or staples at top and mid-section and shall meet the following requirements for Geotextile Class F:

Tensile Strength	80 lbs/in (min.)	Test: MDOT 509
Tensile Modulus	20 lbs/in (min.)	Test: MDOT 509
Flow Rate	0.3 gal/ft ² /minute (max.)	Test: MDOT 382
Filtering Efficiency	75% (min.)	Test: MDOT 382
- Where ends of geotextile fabric come together, they shall be overlapped, folded and stapled to prevent sediment bypass.
- Silt fence shall be inspected after each rainfall event and maintained when release occurs or when sediment accumulation reaches 50% of the fabric height.

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE PAGE 8-16-4 MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

DETAIL 24 - STABILIZED CONSTRUCTION ENTRANCE



CONSTRUCTION SPECIFICATIONS

- Length - minimum of 20' (30' for single residence lot).
- Width - 10' minimum, should be flared at the existing road to provide a turning radius.
- Geotextile fabric (filter cloth) shall be placed over the existing ground prior to placing stone. Where plan approval authority may not require single family residences to use geotextile.
- Stone - crushed aggregate (2" to 3") or reclaimed or recycled concrete equivalent shall be placed at least 6" deep over the length and width of the entrance.
- Surface water - all surface water flowing to or diverted toward construction entrance shall be piped through the entrance maintaining positive drainage. Pipe installed through the stabilized construction entrance shall be protected with a manhole riser with 4" elbows and a minimum of 6" of stone over the pipe. Pipe is to be sized according to the drainage, when the size is located at a high spot and has no drainage to convey a pipe will not be necessary. Manholes shall be sized according to the amount of runoff to be conveyed.
- 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.

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE PAGE 8-17-0 MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

NOTES:

- THE TOPOGRAPHY SHOWN HEREON WAS FIELD-RUN BY SHANABERGER & LANE ON FEBRUARY 5, 1990 AS NOTED AND MAY 25, 2001 SHOWN THUS ()
- B.R.L. DESIGNATES BUILDING RESTRICTION LINE
- THIS AREA DESIGNATES A PRIVATE SEWAGE EASEMENT AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWAGE DISPOSAL IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED UNTIL PUBLIC SEWAGE IS AVAILABLE. THIS EASEMENT SHALL BECOME NULL AND VOID UPON CONNECTION TO A PUBLIC SEWAGE SYSTEM. THE COUNTY HEALTH OFFICER SHALL HAVE THE AUTHORITY TO GRANT VARIANCES FOR ENCROACHMENTS INTO THE PRIVATE SEWAGE EASEMENT. RECORDATION OF A MODIFIED SEWAGE EASEMENT SHALL NOT BE NECESSARY. THERE IS A 10,000 S.F. MINIMUM RESTRICTION ON THE SEWAGE EASEMENT.
- THE EARTHWORK QUANTITIES SHOWN HEREON ARE APPROXIMATE ONLY AND ARE NOT TO BE RELIED UPON FOR ACTUAL BID PURPOSES.
- DURING SEDIMENT CONTROL INSTALLATION CURL ENDS OF SUPER SILT FENCE & SILT FENCE UPHILL.

SEPTIC SYSTEM DATA
INV. AT HOUSE 542.8

EX. GRADE 542.0
FIN. GRADE 542.0
INV. IN 539.0
INV. OUT 538.7

DISTRIBUTION BOX
EX. GRADE 538.5
FIN. GRADE 538.5
INV. IN 535.2
INV. OUT 535.0

TRENCHES
INLET DEPTH 3.5
BOTTOM DEPTH
NOTE: TRENCH LENGTH AND ORIENTATION TO BE DETERMINE BY HEALTH DEPARTMENT AT TIME OF SEPTIC SYSTEM LAYOUT INSPECTION.

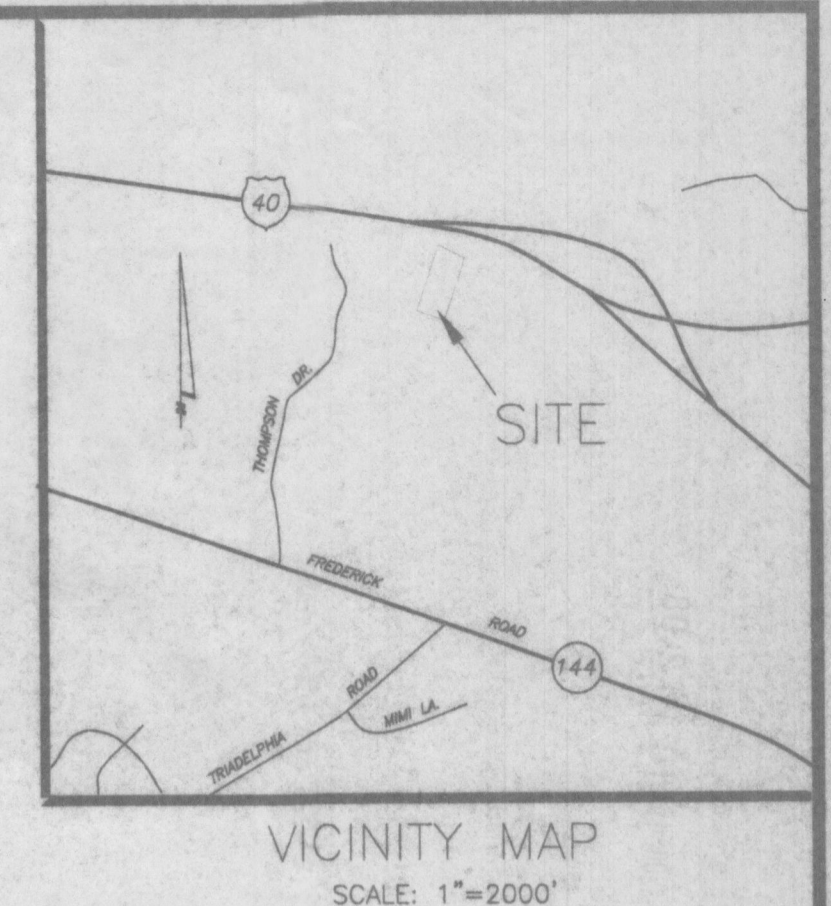
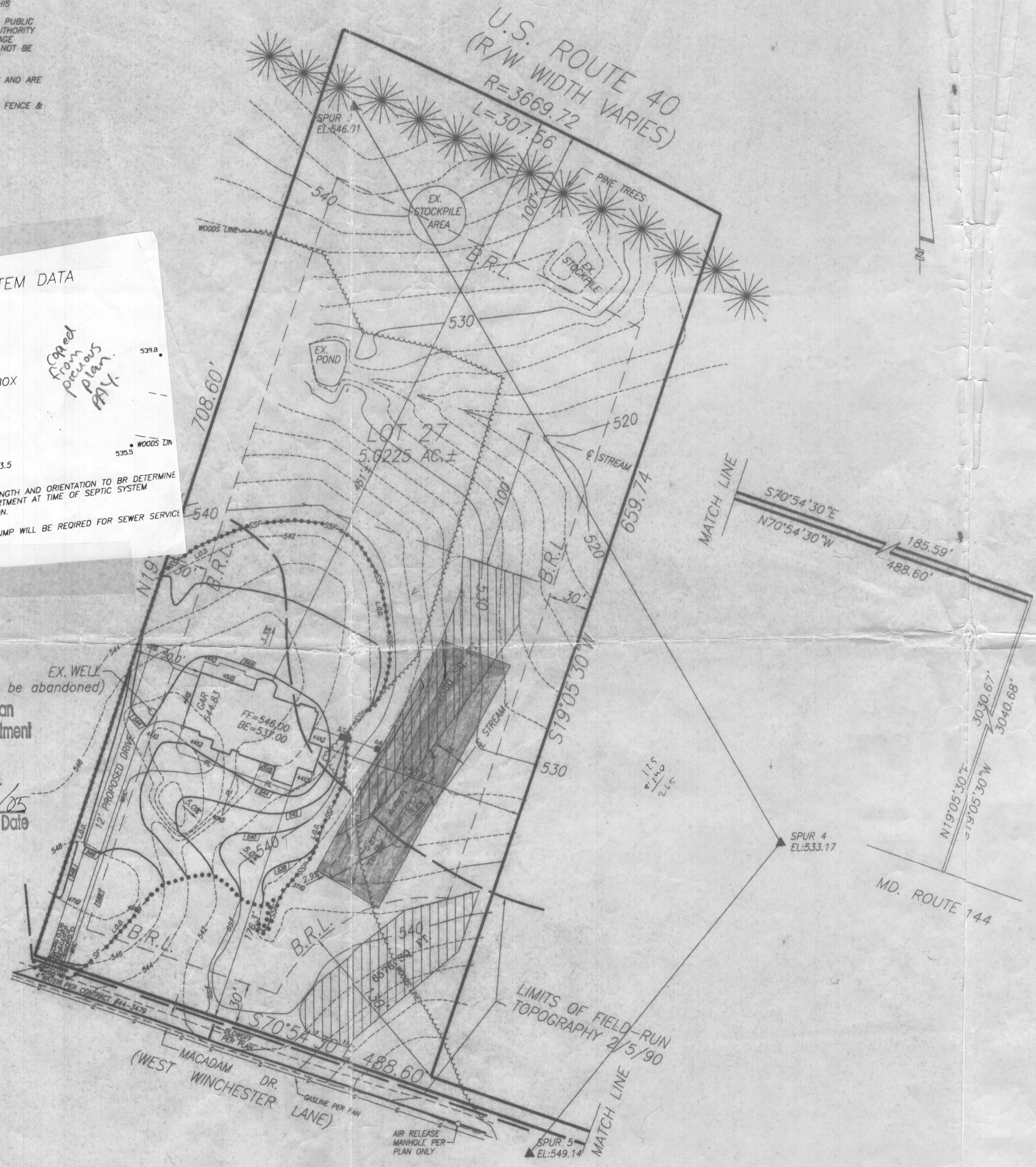
* AN EJECTOR PUMP WILL BE REQUIRED FOR SEWER SERVICE TO BASEMENT.

Copied from previous plans BAY

Approved Septic System Plan
Howard County Health Department

[Signature]
Signature

3/14/05
Date



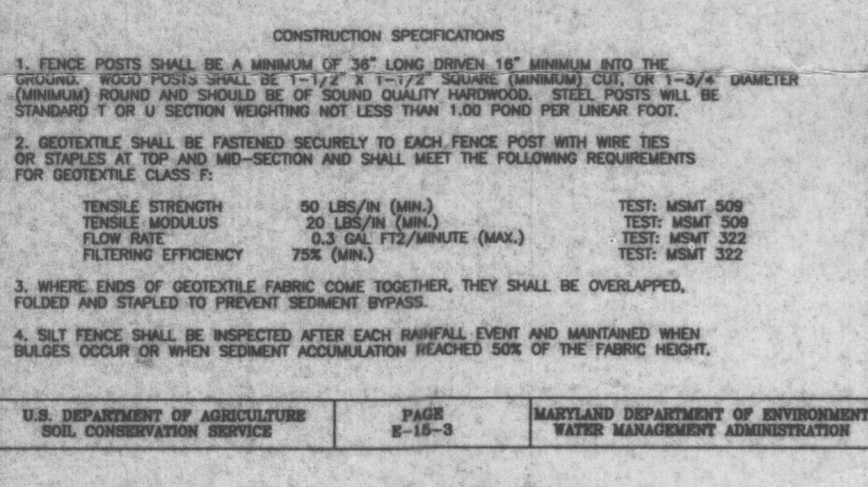
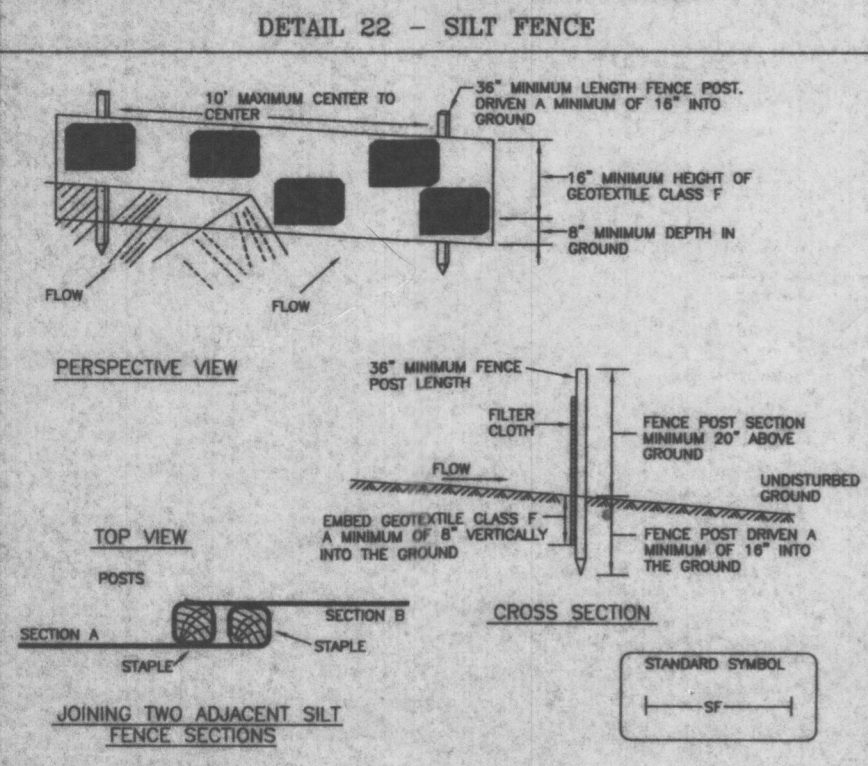
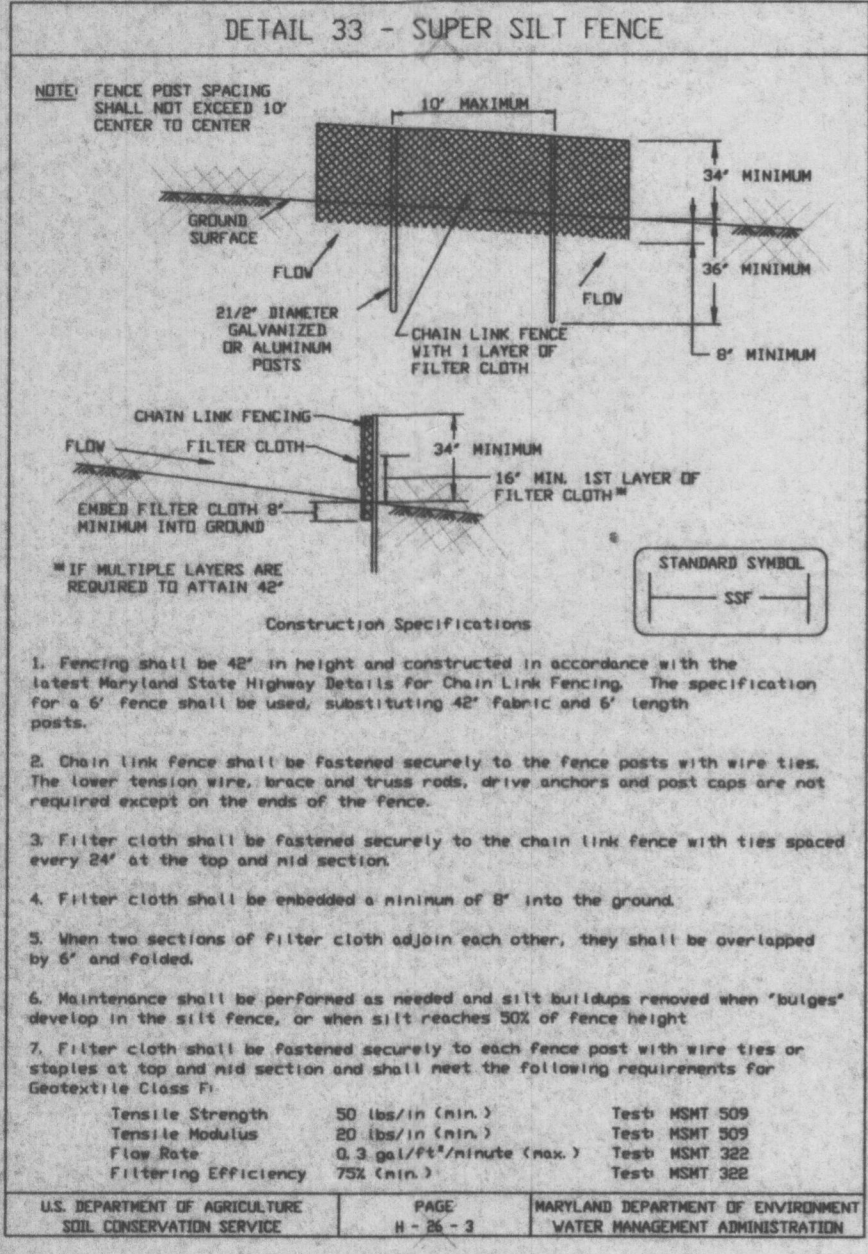
- LEGEND:
- DESIGNATES APPROVED PERC TEST
 - ▨ DESIGNATES REVISED PRIVATE SEWAGE EASEMENT
 - ▩ DESIGNATES PREVIOUSLY APPROVED PRIVATE SEWAGE EASEMENT
 - B.R.L. DESIGNATES BUILDING RESTRICTION LINE
 - DESIGNATES CENTERLINE OF STREAM
 - ▲ DESIGNATES SPOT ELEVATION
 - SF— DESIGNATES SILT FENCE
 - SSF— DESIGNATES SUPER SILT FENCE
 - RL— DESIGNATES ROOF LEADER

OWNER/DEVELOPER:
GIRY & KIMBERLY BERNARD
3127 GOVERNOR HOWARD DR.
ELICOTT CITY, MD. 21043

DESIGNED	GSS	SEPTIC AREA REVISION LOT 27 KINGS GIFT L.8229/F.90 TAX MAP 16 GRID 8 PARCEL 344 3RD ELECTION DIST. HOWARD CO., MD. SCALE: 1"=50' MARCH 8, 2005	SCALE	SHEET 1 OF 1	
DRAWN	RF		DRAWING		87147PC27.dwg
CHECKED	GSS		JOB NO.		87-147
DATE			FILE NO.		
REVISION					

SHANABERGER & LANE
8726 TOWN & COUNTRY BLVD.
SUITE 201
ELICOTT CITY, MD., 21043
(410)-461-9563

DESIGNED	RF	1	REVISION TO SEPTIC AREA TO REMOVE PORTION IN SW 1/4 AND RELOCATE TO REAR OF EX. SEPTIC AREA AND RIGHT FRONT PORTION OF LOT.
DRAWN			
CHECKED			
DATE	BY	NO.	REVISION



SEDIMENT CONTROL NOTES

- A MINIMUM OF 48 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY DEPARTMENT OF INSPECTIONS, LICENSES AND PERMITS, SEDIMENT CONTROL DIVISION PRIOR TO THE START OF ANY CONSTRUCTION (313-1855).
- ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF 2. B.R.L. DESIGNATES BUILDING RESTRICTION LINE. SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL AND REVISIONS THERETO.
- FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN:
 - 7 CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES, DIKES, PERIMETER SLOPES AND ALL SLOPES GREATER THAN 3:1.
 - 14 DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.
- ALL SEDIMENT TRAPS/BASINS SHOWN MUST BE FENCED AND WARNING SIGNS POSTED AROUND THEIR PERIMETERS IN ACCORDANCE WITH VOL. 1, CHAPTER 7, OF THE HOWARD COUNTY DESIGN MANUAL.
- ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE, IN ACCORDANCE WITH THE 1994 MARYLAND STANDARD SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR PERMANENT SEEDINGS, SOIL TEMPORARY SEEDING AND MULCHING (SEC.6). TEMPORARY STABILIZATION WITH MULCH ALONE CAN 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 PERMISSION FOR THEIR REMOVAL HAS BEEN OBTAINED FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
- SITE ANALYSIS:**
 - TOTAL AREA OF SITE: 218,780 SF/5.0225 AC.±
 - AREA DISTURBED: 74,746 SF
 - AREA TO BE ROOFED OR PAVED: 9,988 SF
 - AREA TO BE VEGETATIVELY STABILIZED: 65,378 SF
 - TOTAL CUT: 4441 CY
 - TOTAL FILL: 2133 CY
 - OFFSITE WASTE/BORROW AREA LOCATION: SITE W/APPROVED AND ACTIVE OSC PLAN.
- 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 MUST BE PROVIDED, IF DEEMED NECESSARY BY THE HOWARD COUNTY DPW SEDIMENT CONTROL INSPECTOR.
- ON ALL SITES WITH DISTURBED AREAS IN EXCESS OF 2 ACRES, APPROVAL OF THE INSPECTION AGENCY SHALL BE REQUESTED UPON THE COMPLETION OF THE INSTALLATION OF PERIMETER EROSION AND SEDIMENT CONTROLS, 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 IS LIMITED TO THREE PIPE LENGTHS OR THAT WHICH SHALL BE BACKFILLED AND STABILIZED WITHIN ONE WORKING DAY, WHICHEVER IS SHORTER.
- THE TOTAL AMOUNT OF SILT FENCE = 260 LF SUPER SILT FENCE = 590 LF

PERMANENT SEEDING NOTES

APPLY TO GRADED OR CLEARED AREAS NOT SUBJECT TO IMMEDIATE FURTHER DISTURBANCE WHERE A PERMANENT LONG-LIVED VEGETATIVE COVER IS NEEDED.

SEEDBED PREPARATION: LOOSEN UPPER 3 INCHES OF SOIL BY RAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING, IF NOT PREVIOUSLY LOOSENED.

SOIL AMENDMENTS: USE ONE OF THE FOLLOWING SCHEDULES:

- PREFERRED - APPLY 2 TONS PER ACRE ILLINOIS Limestone (92 LBS./1000 SQUARE FEET) AND 600 LBS. PER ACRE 10-10-10 FERTILIZER (14 LBS./1000 SQUARE FEET) BEFORE SEEDING, HARROW OR DISC INTO UPPER THREE INCHES OF SOIL; AT TIME OF SEEDING, APPLY 400 LBS. PER ACRE 30-0-0 UREAFORM FERTILIZER (91 LBS./1000 SQUARE FEET).
- ACCEPTABLE - APPLY 2 TONS PER ACRE VIOLOMITE Limestone (92 LBS./1000 SQUARE FEET) AND 1000 LBS. PER ACRE 10-10-10 FERTILIZER (23 LBS./1000 SQUARE FEET) BEFORE SEEDING, HARROW OR DISC INTO UPPER THREE INCHES OF SOIL.

SEEDING: FOR THE PERIODS MARCH 1 THRU APRIL 30, AND FROM AUGUST 15 THRU NOVEMBER 15, SEED WITH 2 1/2 BUSHEL PER ACRE OF ANNUAL RYE (32 LBS./1000 SQUARE FEET) FOR THE PERIOD MAY 1 THRU AUGUST 14, SEED WITH 3 LBS. PER ACRE OF WEEPING LOVEGRASS (.07 LBS./1000 SQUARE FEET) FOR THE PERIOD NOVEMBER 15 THRU FEBRUARY 28, PROTECT SITE BY APPLYING 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING, OR USE SOO.

MULCHING: APPLY 1-1/2 TO 2 TONS PER ACRE (70 TO 90 LBS./1000 SQUARE FEET) OF UNROTTED SMALL GRASS STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL 218 GALLONS PER ACRE (5 GAL./1000 SQUARE FEET) OF EMULSIFIED ASPHALT FLAT AREAS ON SLOPES 8 FEET OR HIGHER, USE 348 GALLONS PER ACRE (8 GAL./1000 SQUARE FEET) FOR ANCHORING.

MAINTENANCE: INSPECT ALL SEEDED AREAS AND MAKE NEEDED REPAIRS DISCING OR OTHER RESEEDINGS.

TEMPORARY SEEDING NOTES

APPLY TO GRADED OR CLEARED AREAS LIKELY TO BE REDISTURBED WHERE A SHORT-TERM VEGETATIVE COVER IS NEEDED.

SEEDBED PREPARATION: LOOSEN UPPER 3 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 (14 LBS./1000 SQUARE FEET).

SEEDING: FOR PERIODS MARCH 1 THRU APRIL 30, AND AUGUST 15 THRU OCTOBER 15, SEED WITH 2-1/2 BUSHELS PER ACRE OF ANNUAL RYE (32 LBS./1000 SQUARE FEET), FOR THE PERIOD MAY 1 THRU AUGUST 14, SEED WITH 3 LBS. PER ACRE OF WEEPING LOVEGRASS (.07 LBS./1000 SQUARE FEET) FOR THE PERIOD NOVEMBER 15 THRU FEBRUARY 28, PROTECT SITE BY APPLYING 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING, OR USE SOO.

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PLACEMENT OF TOPSOIL OVER A PREPARED SUBSOIL PRIOR TO ESTABLISHMENT OF PERMANENT VEGETATION.

PURPOSE: TO PROVIDE A SUITABLE SOIL MEDIUM FOR VEGETABLE GROWTH. SOILS OF CONCERN HAVE LOW MOISTURE CONTENT, LOW NUTRIENT LEVELS, LOW PH, MATERIALS TOXIC TO PLANTS, AND/OR UNACCEPTABLE SOIL GRADATION.

CONDITIONS WHERE PRACTICE APPLIES

- THIS PRACTICE IS LIMITED TO AREAS HAVING 2:1 OR FLATTER SLOPES WHERE:
 - THE TEXTURE OF THE EXPOSED SUBSOIL/PARENT MATERIAL IS NOT ADEQUATE TO PRODUCE VEGETATIVE GROWTH.
 - THE SOIL MATERIAL IS SO SHALLOW THAT THE ROOTING ZONE IS NOT DEEP ENOUGH TO SUPPORT PLANTS OR FURNISH CONTINUING SUPPLIES OF MOISTURE AND PLANT NUTRIENTS.
 - THE ORIGINAL SOIL TO BE VEGETATED CONTAINS MATERIAL TOXIC TO PLANT GROWTH.
 - THE SOIL IS SO ACIDIC THAT TREATMENT WITH LIME/STONE IS NOT FEASIBLE.
- FOR THE PURPOSE OF THESE STANDARDS AND SPECIFICATIONS, AREAS HAVING SLOPES STEEPER THAN 2:1 REQUIRE SPECIAL CONSIDERATION AND DESIGN FOR ADEQUATE STABILIZATION. AREAS HAVING SLOPES STEEPER THAN 2:1 SHALL HAVE THE APPROPRIATE STABILIZATION SHOWN ON THE PLANS.

CONSTRUCTION AND MATERIAL SPECIFICATIONS

- TOPSOIL SALVAGED FROM THE EXISTING SITE MAY BE USED PROVIDED THAT IT MEETS THE STANDARDS AS SET FORTH IN THESE SPECIFICATIONS. TYPICALLY, THE DEPTH OF TOPSOIL TO BE SALVAGED FOR A GIVEN SOIL TYPE CAN BE FOUND IN THE REPRESENTATIVE SOIL PROFILE SECTION IN THE SOIL SURVEY PUBLISHED BY USDA IN COOPERATION WITH MARYLAND AGRICULTURAL EXPERIMENTAL STATION.

NOTES:

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SEPTIC SYSTEM DATA

EX. GRADE 542.0
FIN. GRADE 542.0
INV. IN 539.0
INV. OUT 538.7

DISTRIBUTION BOX
EX. GRADE 538.5
FIN. GRADE 538.5
INV. IN 535.2
INV. OUT 535.0

TRENCHES
INLET DEPTH 3.5
BOTTOM DEPTH

NOTE: TRENCH LENGTH AND ORIENTATION TO BE DETERMINED BY HEALTH DEPARTMENT AT TIME OF SEPTIC SYSTEM LAYOUT INSPECTION.

* AN EJECTOR PUMP WILL BE REQUIRED FOR SEWER SERVICE TO BASEMENT.

EX. WELL (to be abandoned)

EX. STOCKPILE AREA

EX. WELL POND

EX. WELL

EX. WELL

EX. WELL

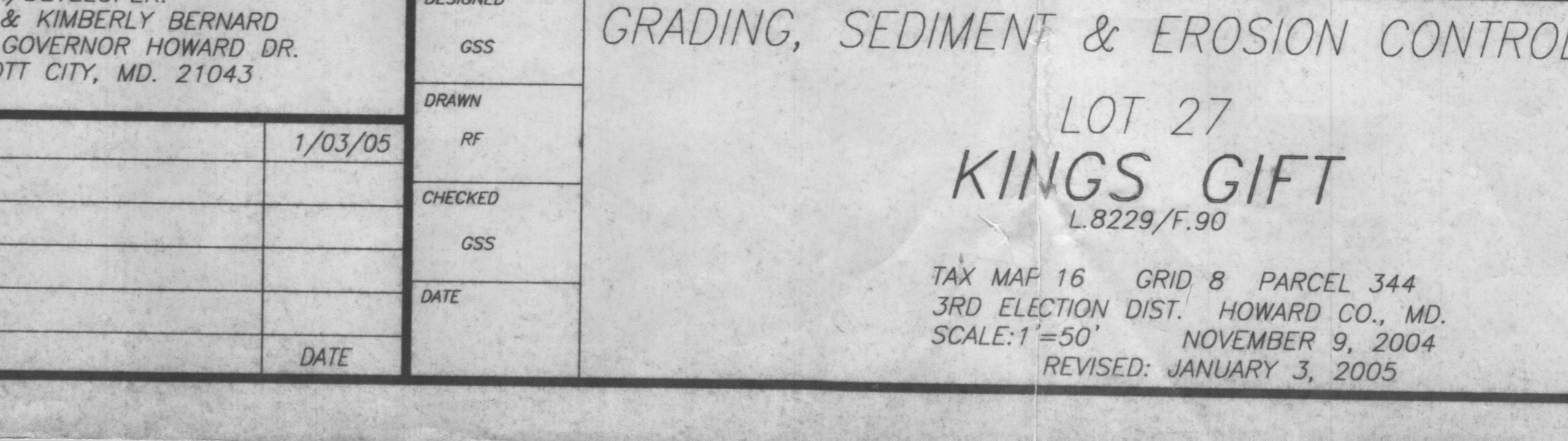
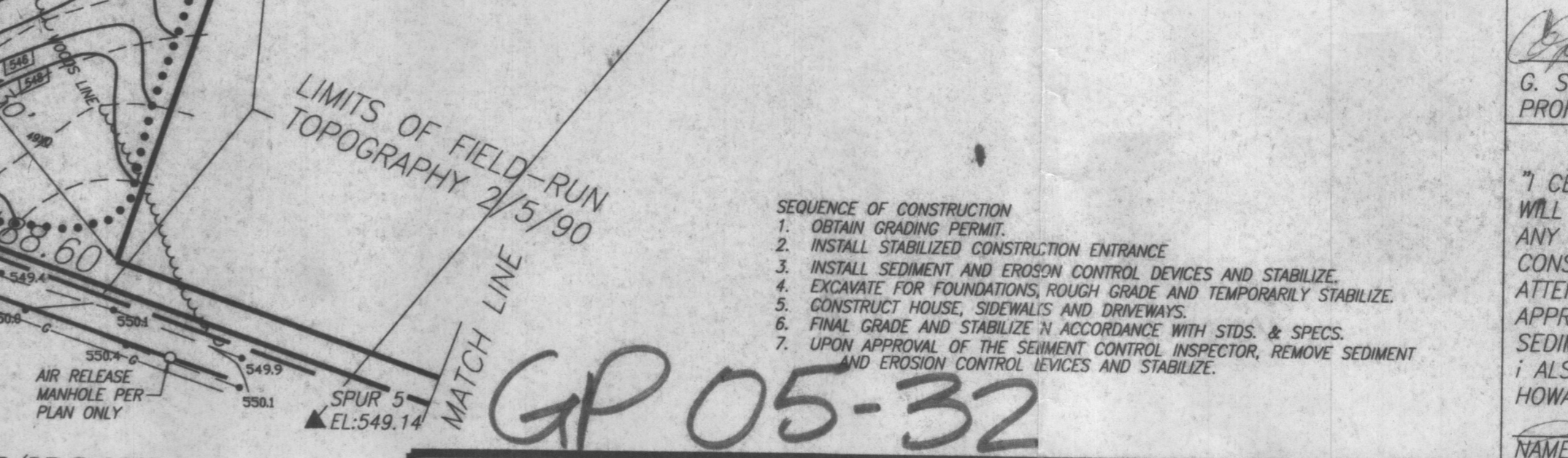
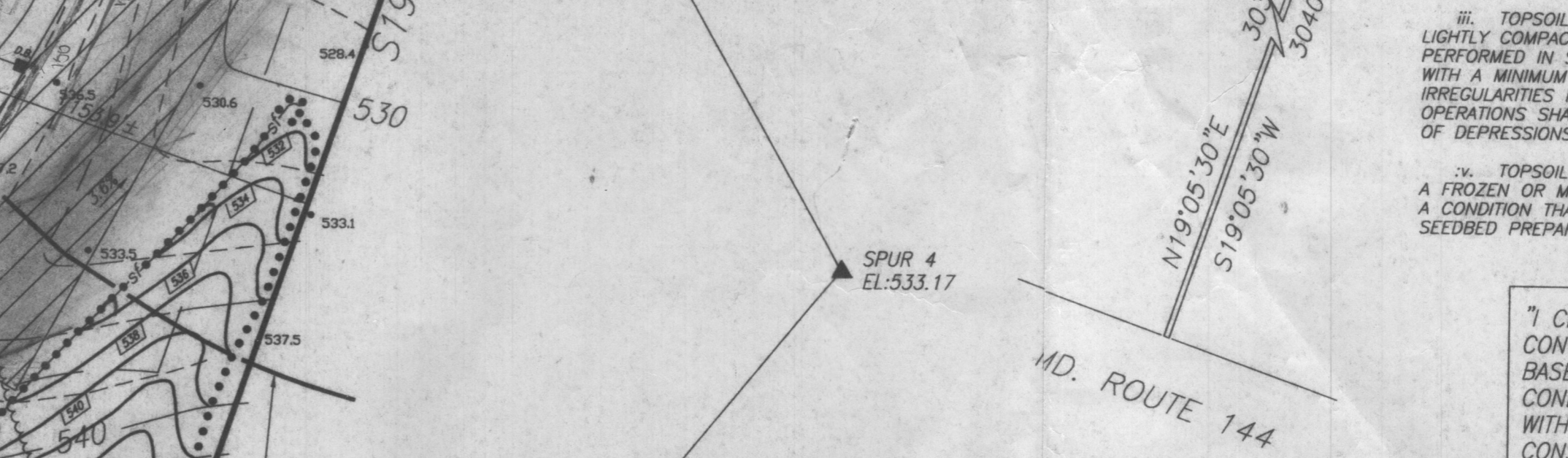
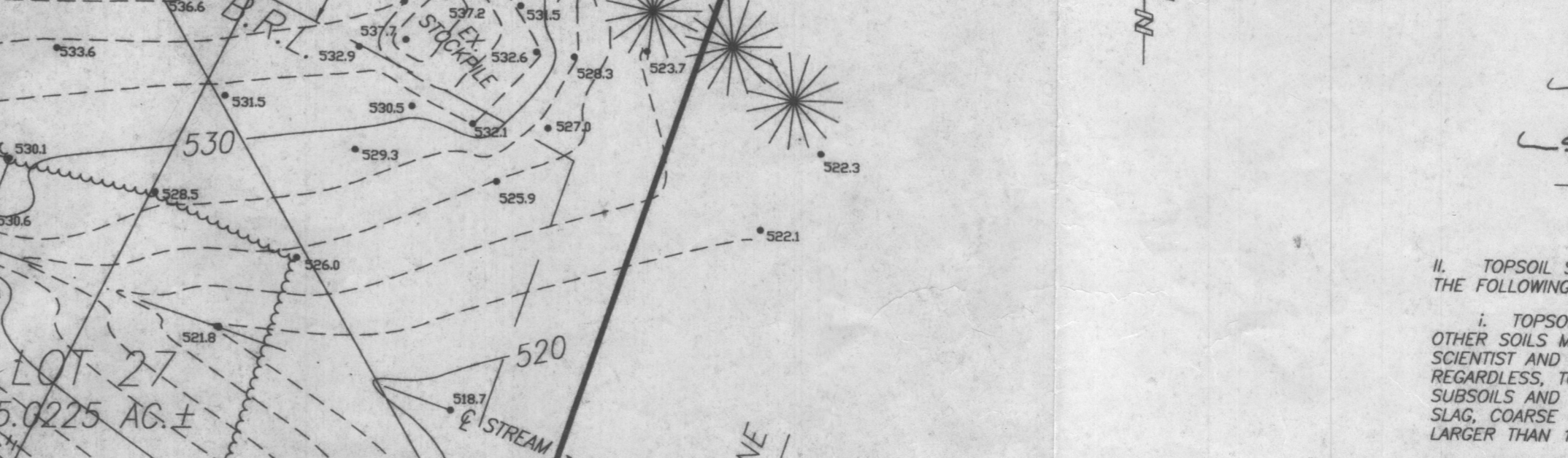
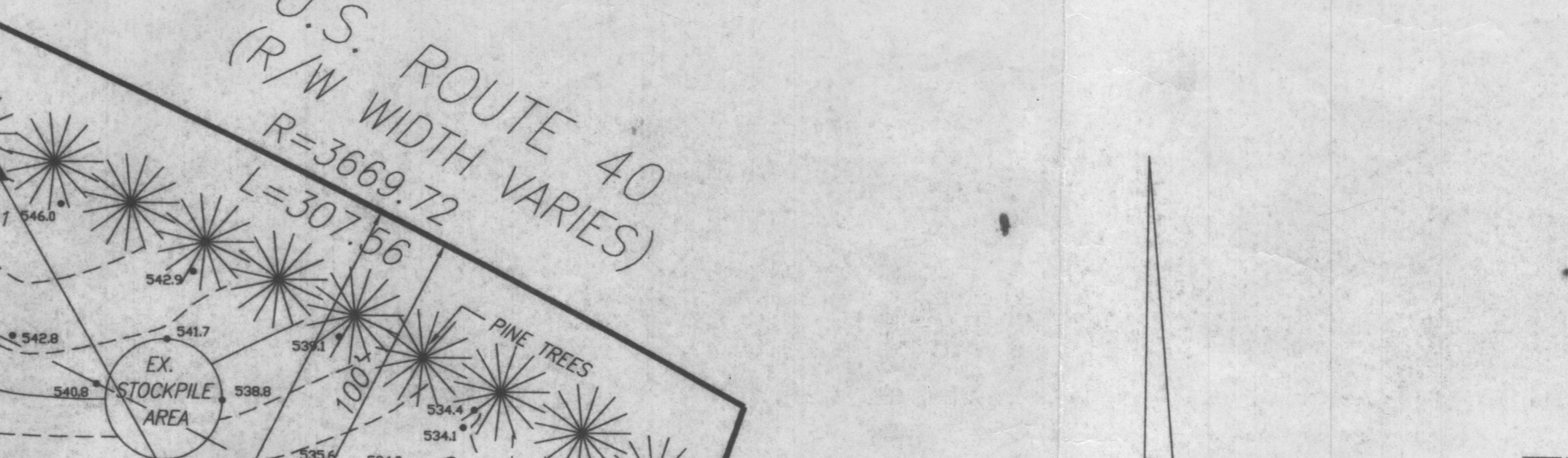
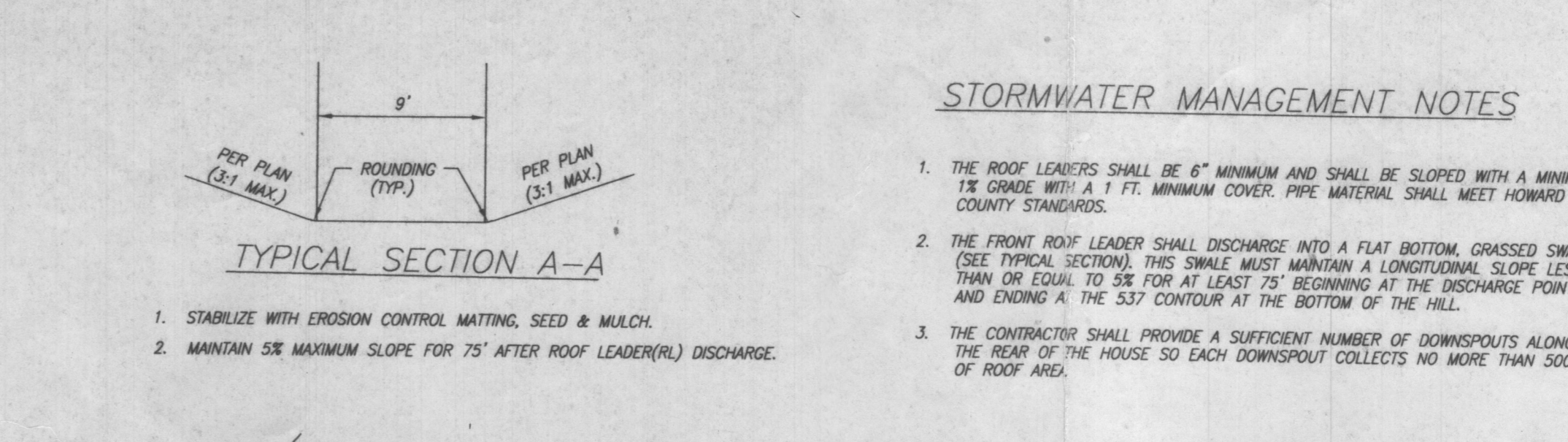
EX. WELL

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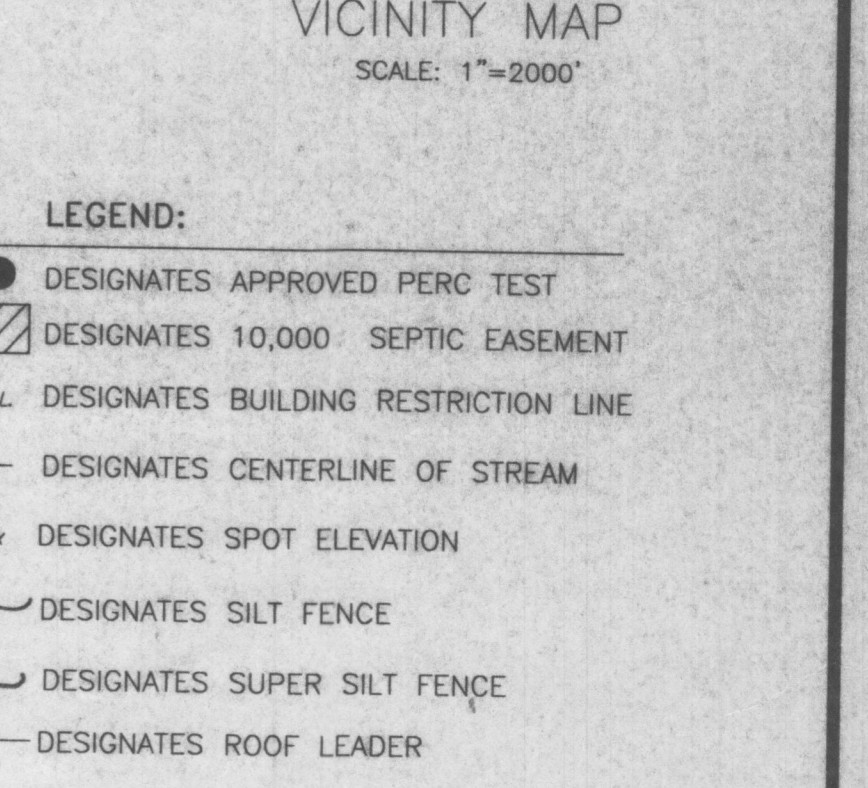
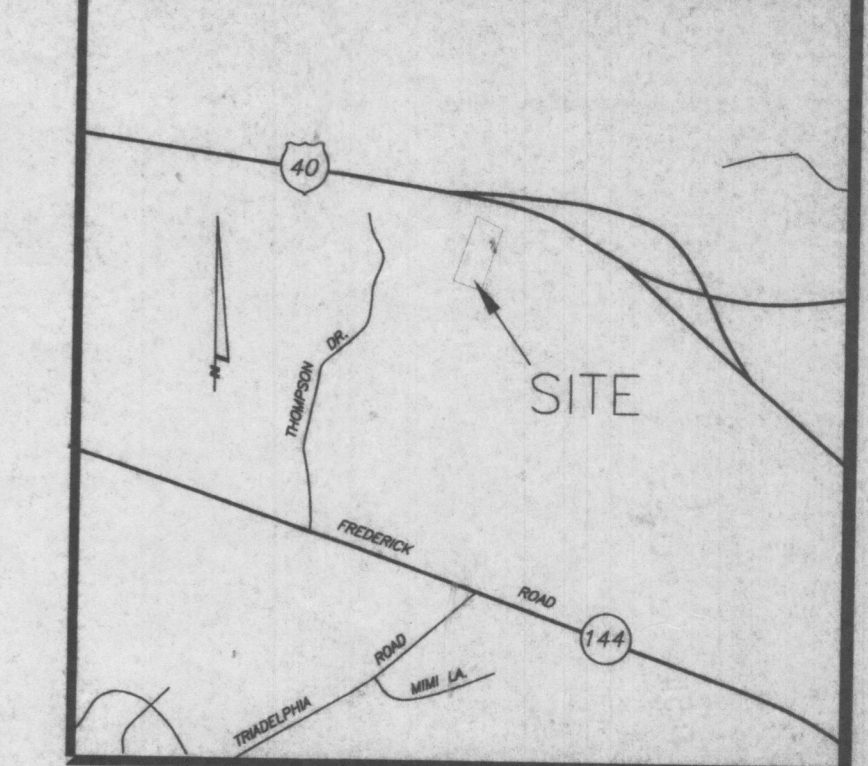
EX. WELL

EX. WELL



STORMWATER MANAGEMENT NOTES

- THE ROOF LEADERS SHALL BE 6" MINIMUM AND SHALL BE SLOPED WITH A MINIMUM 1% GRADE WITH A 1 FT. MINIMUM COVER. PIPE MATERIAL SHALL MEET HOWARD COUNTY STANDARDS.
- THE FRONT ROOF LEADER SHALL DISCHARGE INTO A FLAT BOTTOM, GRASSED SWALE (SEE TYPICAL SECTION). THIS SWALE MUST MAINTAIN A LONGITUDINAL SLOPE LESS THAN OR EQUAL TO 5% FOR AT LEAST 75' BEGINNING AT THE DISCHARGE POINT AND ENDING AT THE 537 CONTOUR AT THE BOTTOM OF THE HILL.
- THE CONTRACTOR SHALL PROVIDE A SUFFICIENT NUMBER OF DOWNSPOUTS ALONG THE REAR OF THE HOUSE SO EACH DOWNSPOUT COLLECTS NO MORE THAN 500 SF OF ROOF AREA.



II. TOPSOIL SPECIFICATIONS - SOIL TO BE USED AS TOPSOIL MUST MEET THE FOLLOWING:

- TOPSOIL SHALL BE A LOAM, SANDY LOAM, CLAY LOAM, LOAMY SAND, OTHER SOILS MAY BE USED IF RECOMMENDED BY AN AGRONOMIST OR A SOIL SCIENTIST AND APPROVED BY THE APPROPRIATE APPROVAL AUTHORITY. REGARDLESS, TOPSOIL SHALL NOT BE A MIXTURE OF CONTRASTING TEXTURED SUBSOILS AND SHALL CONTAIN LESS THAN 5% BY VOLUME OF CHISELS, STONES, SLAG, COARSE FRAGMENTS, GRAVEL, STICKS, ROOTS, TRASH, OR OTHER MATERIALS LARGER THAN 1 AND 1/2" IN DIAMETER.
- TOPSOIL MUST BE FREE OF PLANTS OR PLANT PARTS SUCH AS BERMUDA GRASS, QUACKGRASS, JOHNSONGRASS, NUTSEDGE, POISON IVY, THISTLE, OR OTHERS AS SPECIFIED.
- WHERE THE SUBSOIL IS EITHER HIGHLY ACIDIC OR COMPOSED OF HEAVY CLAYS, GROUND LIME/STONE SHALL BE SPREAD AT THE RATE OF 4-8 TONS/ACRE (200-400 POUNDS PER 1000 SQUARE FEET) PRIOR TO THE PLACEMENT OF TOPSOIL. LIME SHALL BE DISTRIBUTED UNIFORMLY OVER DESIGNATED AREAS AND WORKED INTO THE SOIL IN CONJUNCTION WITH TILLAGE OPERATIONS AS DESCRIBED IN THE FOLLOWING PARAGRAPHS.

III. FOR SITES HAVING DISTURBED AREAS UNDER 5 ACRES:

- PLACE TOPSOIL (IF REQUIRED) AND APPLY SOIL AMENDMENTS AS SPECIFIED IN 20.0 VEGETATIVE STABILIZATION - SECTION 1 - VEGETATIVE STABILIZATION METHODS AND MATERIALS.
- TOPSOIL APPLICATION
 - WHEN TOPSOILING, MAINTAIN NEEDED EROSION AND SEDIMENT CONTROL PRACTICES SUCH AS DIVERSIONS, GRADE STABILIZATION STRUCTURES, EARTH DIKES, SLOPE SILT FENCE AND SEDIMENT TRAPS AND BASINS.
 - GRADES ON THE AREAS TO BE TOPSOILED, WHICH HAVE PREVIOUSLY BEEN ESTABLISHED, SHALL BE MAINTAINED, ALBERT 4"-8" HIGHER IN ELEVATION.
 - TOPSOIL SHALL BE UNIFORMLY DISTRIBUTED IN A 4"-8" LAYER AND LIGHTLY COMPACTED TO A MINIMUM THICKNESS OF 2". SPREADING SHALL BE PERFORMED IN SUCH A MANNER THAT SODDING OR SEEDING CAN PROCEED WITH A MINIMUM OF ADDITIONAL SOIL PREPARATION AND TILLAGE. ANY IRREGULARITIES IN THE SURFACE RESULTING FROM TOPSOILING OR OTHER OPERATIONS SHALL BE CORRECTED IN ORDER TO PREVENT THE FORMATION OF DEPRESSIONS OR WATER POCKETS.
 - TOPSOIL SHALL NOT BE PLACED WHILE THE TOPSOIL OR SUBSOIL IS IN A FROZEN OR MUDDY CONDITION, WHEN THE SUBSOIL IS EXCESSIVELY WET OR IN A CONDITION THAT MAY OTHERWISE BE DETRIMENTAL TO PROPER GRADING AND SEEDBED PREPARATION.

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

G. SCOTT SHANABERGER
PROFESSIONAL L.S. #10849

DEVELOPERS CERTIFICATE

"I CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF NATURAL RESOURCES 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 SOIL CONSERVATION DISTRICT."

REVIEWED FOR HOWARD SCD AND MEETS TECHNICAL REQUIREMENTS

Jim Mayes 1/6/05

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

SHANABERGER & LANE
8726 TOWN & COUNTRY BLVD.
SUITE 201
ELICOTT CITY, MD. 21043
(410)-461-9563

Andrew L. Pahn 1/5/05
for SWM design only



Andrew L. Pahn 1/5/05
for SWM design only

DESIGNED	RF	1	REVISED GRANG & ADDED BERM	1/03/05
DRAWN				
CHECKED				
DATE	BY	NO.	REVISION	DATE

DESIGNED GSS
DRAWN RF
CHECKED GSS
DATE

GRADING, SEDIMENT & EROSION CONTROL PLAN

LOT 27
KINGS GIFT
L.8229/F.90

TAX MAP 16 GRID 8 PARCEL 344
3RD ELECTION DIST. HOWARD CO., MD.
SCALE: 1"=50'
REVISED: JANUARY 3, 2005

SCALE	1"=50'
DRAWING	87147CS27.dwg
JOB NO.	87-147
FILE NO.	

SHEET

1 OF 1