

5/17/99 AM

# PERMIT

## SEWAGE DISPOSAL SYSTEM

### DEPARTMENT OF HEALTH AND MENTAL HYGIENE

P 511568

A 510650

DISTRICT \_\_\_\_\_

DATE 5-06-99

HOWARD COUNTY HEALTH DEPARTMENT  
BUREAU OF ENVIRONMENTAL HEALTH  
~~XXXXXX~~ 410-313-2640

*04-360648*

DATE SYSTEM APPROVED 5/17/99

## INDEXED

INSPECTOR du

Walter King Plumbing & Heating IS PERMITTED TO INSTALL  ALTER

ADDRESS 5303 King's Court, Frederick, Maryland 21703-6981 PHONE 301-662-6990

SUBDIVISION Riggs Meadow LOT Pres. Parcel C ROAD 2031 Millers Mill Road

PROPERTY OWNER Ryan Homes

ADDRESS \_\_\_\_\_

SEPTIC TANK CAPACITY 1250 GALLONS

NUMBER OF BEDROOMS 4

180 SQUARE FEET PER BEDROOM

LINEAR FEET OF TRENCH REQUIRED 240

TRENCHES - Trench to be 3 feet wide. Inlet 3.5 feet below original grade. Bottom maximum depth 5.5 feet below original grade. Effective area begins at 3.5 feet below original grade. 2 feet of stone below distribution pipe.

LOCATION - Place the distribution box at the highest point in the septic area with trenches installed along contour across the width of the septic area.

NOTES - No trench to exceed 100 feet in length. Provide 6" - 8" diameter cleanout and cap grade or above on septic tank. *OKMR*

PLANS APPROVED BY Donna K. Soe DATE 3-29-1999

COVER NO WORK UNTIL INSPECTED AND APPROVED

NEITHER THE HOWARD COUNTY COUNCIL NOR THE HEALTH DEPARTMENT IS RESPONSIBLE FOR THE SUCCESSFUL OPERATION OF ANY SYSTEM

NOTE: CLEANOUT REQUIRED EVERY 70 FEET OF SEWER LINE AND/OR AT 90° SWEEPS IN LINES FROM HOUSE TO DRAIN FIELDS. 90° ELBOWS NOT ACCEPTABLE.

NOTE: ALL PARTS OF SEPTIC SYSTEMS (I.E. TANK, DISTRIBUTION BOX TRENCHES) TO BE 100 FEET FROM WELLS UNLESS OTHERWISE SPECIFICALLY AUTHORIZED)

NOTE: IF DEEP TRENCH(ES) ARE USED CALL FOR INSPECTION BEFORE AND AFTER PLACING GRAVEL IN TRENCH(ES)

NOTE: NO DRY WELL SHALL EXCEED 15 FOOT IN DIAMETER NO ABSORPTION TRENCH TO EXCEED 100 FEET IN LENGTH

NOTE: ALL PIPE FROM HOUSE TO SEPTIC TANK MUST BE CAST IRON OR SCHEDULE 35/40 PVC OR ABS

PERMIT VOID AFTER TWO YEARS

NOTE: INSTALL STAND PIPE ON SEPTIC TANK AND DRY WELL STAND PIPES MUST BE 6 INCHES IN DIAMETER CAST IRON, CONCRETE OR TERRA COTTA OR PVA OR ABS ACCEPTED. IF TOP OF SEPTIC TANK IS DEEPER THAN 3 FEET, MANHOLE TO GRADE REQUIRED.

NOTE: DISTRIBUTION BOXES MUST HAVE BAFFLES

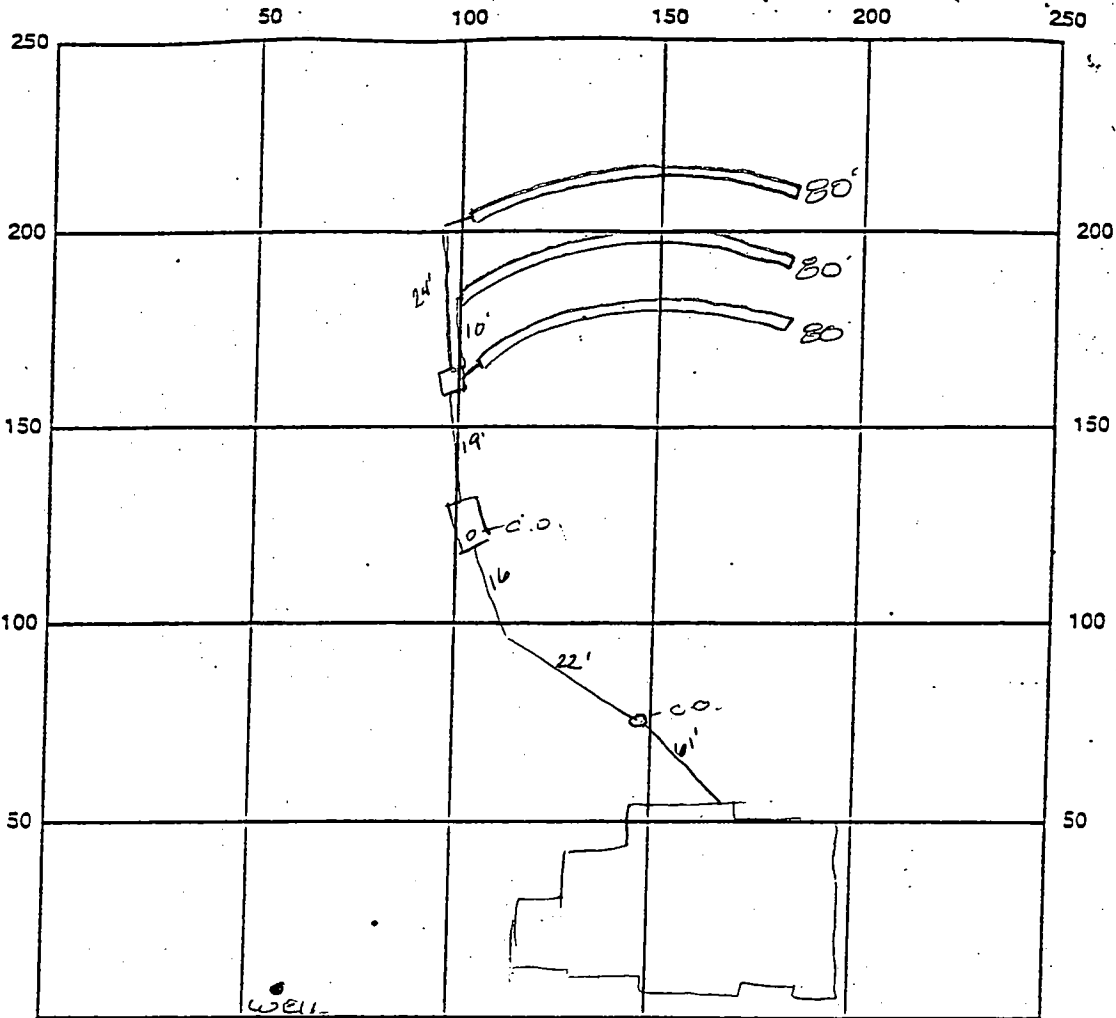
**\*INSTALLER IS RESPONSIBLE FOR OBTAINING FINAL APPROVAL ON THIS PERMIT**  
\*CALL 461-9933 FOR INSPECTION OF SEPTIC SYSTEM.

**BUILDING PERMIT SIGNED AND RETURNED**  
9/11/2002 800138243 Hot Tub + SUN ROOM FOUNDATION

**BUILDING PERMIT SIGNED AND RETURNED 7-21-99**  
*Quinta B 5/11/99*  
*du*

510650

WPI



INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE

SEPTIC TANK LEVEL OK 1250 gal CLEANOUTS OK

DISTRIBUTION BOX LEVEL OK baffle is in

DRAIN FIELD/TITLE DEPTH 55 FT. TRENCH WIDTH 3.0 FT. INLET DEPTH 3.5 FT.

EFFECTIVE GRAVEL DEPTH 2.0 FT. TOTAL LENGTH 240 FT.

NUMBER OF TRENCHES 3.0 ONE SIDEWALL/BOTTOM AREA 720 SQ. FT.

DRYWALL INSIDE DIAMETER — FT. EFFECTIVE DEPTH BELOW INLET 2.0 FT.

ABSORBENT AREA — SQ. FT.

REMARKS: 5/17/99 cover all work final  
**AND RETURNED**

DATE SYSTEM APPROVED 5/17/99 INSPECTOR Amy McMiller

**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 CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD COUNTY CONSERVATION DISTRICT.

SIGNATURE OF ENGINEER: \_\_\_\_\_ DATE: \_\_\_\_\_

**DEVELOPER'S CERTIFICATE**  
 I HAVE CERTIFIED 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 SOIL EROSION AND SEDIMENT BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZED PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT.

SIGNATURE OF DEVELOPER: \_\_\_\_\_ DATE: \_\_\_\_\_

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

USDA NATURAL RESOURCES CONSERVATION SERVICE DATE: \_\_\_\_\_

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

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

HOWARD SOIL CONSERVATION DISTRICT DATE: \_\_\_\_\_

**SEEDING 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 (03-05-99).
- ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED CONFORMANCE WITH THE MOST CURRENT MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
- FOLLOWING INITIAL SOIL DISTURBANCE OR DE-STABILIZATION, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN THE PERIOD SPECIFIED ABOVE IN ACCORDANCE WITH THE 1996 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR PERMANENT SEEDING (SEC. 20, 500 (G.C. & S)), TEMPORARY SEEDING (SEC. 50, AND MULCHING (SEC. 50). TEMPORARY STABILIZATION WITH MULCH ALONE CAN ONLY BE DONE WHEN RECOMMENDED SEEDING DATES DO NOT ALLOW FOR PROPER ESTABLISHMENT OF GRASSES.
- ALL SEDIMENT CONTROL STRUCTURES ARE TO BE MAINTAINED IN PLACE AND ARE TO BE MAINTAINED IN OPERATIVE CONDITION UNTIL PERMITS FOR THEIR REMOVAL HAS BEEN OBTAINED FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
7. SITE ANALYSIS:  
 TOTAL AREA OF SITE: 36.86 ACRES  
 AREA TO BE GRADED OR PAVED: 0 ACRES  
 AREA TO BE VEGETATIVELY STABILIZED: 36.86 ACRES  
 TOTAL FILL: 300 CUBIC YD.  
 OFFSITE WASTE/BOSSWOM AREA LOCATION: CLAYTONS  
 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 MAY BE REQUIRED NECESSARY BY THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.  
 ON ALL SITES WITH DISTURBED AREAS IN EXCESS OF 2 ACRES, APPROVAL OF THE INSPECTION AGENCY SHALL BE REQUESTED UPON 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 IS LIMITED TO THREE FEET LENGTHS OR THAT WHICH SHALL BE BACK-FILLED AND STABILIZED WITHIN ONE WORKING DAY, WHICHEVER IS SHORTER.

**TEMPORARY SEEDING NOTES**  
 APPLY TO GRADED 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, DIGGING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING.

**SOIL AMENDMENTS**  
 APPLY 500 LBS. PER ACRE 10-10-10 FERTILIZER @ 1/2 LB./1000 SQ. FT.)

**SEEDING**  
 FOR THE PERIODS MARCH 1 THROUGH APRIL 30, AND AUGUST 15 THROUGH NOVEMBER 15, SEED WITH 100 LBS. PER ACRE (2.5 LB./1000 SQ. FT.) OF KENTUCKY 31 TALL FESCUE FOR THE PERIOD MARCH 1 THROUGH APRIL 30, AND AUGUST 15 THROUGH NOVEMBER 15. SEED WITH 1 LB. OF WINTER LOWGROW (L7) LBS./1000 SQ. FT. 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 SOIL.

**MULCHING**  
 APPLY 1 1/2 TO 2 TONS PER ACRE (70 TO 90 LBS./1000 SQ. FT.) OF UNROTTED SMALL GRASS STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING 200 GALLONS PER ACRE OF 3/4" ASPHALT OR FLAT ASPHALT ON SLOPES 6 FEET OR HIGHER. USE 3/4" GALLONS PER ACRE @ 1/2" GALLONS SQ. FT.) FOR ANCHORING.

REFER TO THE 1996 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:

**SEEDING PREPARATION**  
 LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DIGGING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING.

**SOIL AMENDMENTS**  
 APPLY 200 TONS PER ACRE DOLOMITIC LIMESTONE (92 LBS./1000 SQ. FT.) AND 600 LBS. PER ACRE 0-20-20 FERTILIZER (4 LBS./1000 SQ. FT.) BEFORE SEEDING. HARROW OR DISC INTO UPPER THREE INCHES OF SOIL. AT TIME OF SEEDING, APPLY 400 LBS. PER ACRE 10-10-10 FERTILIZER (2 LBS./1000 SQ. FT.) AND 500 LBS. PER ACRE (2.5 LBS./1000 SQ. FT.) OF 10-20-20 FERTILIZER.

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**MAINTENANCE**  
 INSPECT ALL SEEDING AREAS AND MAKE NEEDED REPAIRS, REPLACEMENTS AND RESEEDINGS.  
 \* FOR PUBLIC PONDS SUBSTITUTE CHEMUNG CROWNSWITCH AT 15 LBS./ACRE AND KENTUCKY 31 TALL FESCUE AT 40 LBS./ACRE AS THE SEEDING REQUIREMENT. OPEN MOW SEEDING DATE FOR THIS MIXTURE IS MARCH 1 TO APRIL 30.

**TOPSOIL SPECIFICATIONS** - SOIL TO BE USED AS TOPSOIL MUST MEET THE FOLLOWING:  
 TOPSOIL SHALL BE A LOAM SANDY LOAM, CLAY LOAM, SILT LOAM, SANDY CLAY LOAM, LOAMY SAND. OTHER SOILS MAY BE USED IF RECOMMENDED BY AN AGENCY OR SOIL SCIENTIST AND APPROVED BY THE APPROPRIATE APPROVAL AUTHORITY. REGARDLESS, TOPSOIL SHALL NOT BE A MIXTURE OF CONTRASTING TEXTURE SUBGROUPS AND SHALL CONTAIN LESS THAN 5% BY VOLUME OF CHANGES, FLAG, COARSE FRAGMENTS, GRAVEL, STICKS, ROOTS TRASH, OR OTHER MATERIALS LARGER THAN 1 1/2" IN DIAMETER.

TOPSOIL MUST BE FREE OF PLANTS OR PLANT PARTS SUCH AS BRERUDA GRASS, QUACKGRASS, JOHNSONGRASS, MUTTSOZE, POISON IVY, THISTLE, OR OTHERS AS SPECIFIED.

WHERE THE TOPSOIL IS EITHER HEAVY ACIDIC OR COMPOSED OF HEAVY CLAYS, GROUND LIMESTONE SHALL BE SPREAD AT THE RATE OF 4-6 TONS/ACRE (200-400 POUNDS PER 1000 SQ. FT.) 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 PROCEDURES.

**SEPARATION OF CONSTRUCTION**

- OBTAIN GRADING PERMITS.
- INSTALL SEDIMENT CONTROLS AS SHOWN ON PLAN. (2.00)
- PERFORM NECESSARY GRADING AND STABILIZE THE SITE. (2.00)
- CONSTRUCT DWELLING ON SITE. (90.00)

AFTER THE SITE IS STABILIZED AND PERMISSION IS GRANTED FROM THE SEDIMENT CONTROL INSPECTOR, REMOVE SEDIMENT CONTROLS AND STABILIZE ANY REMAINING DISTURBED AREAS.

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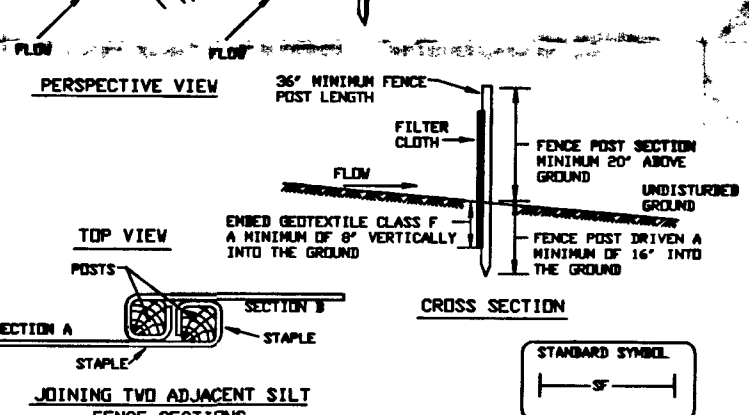
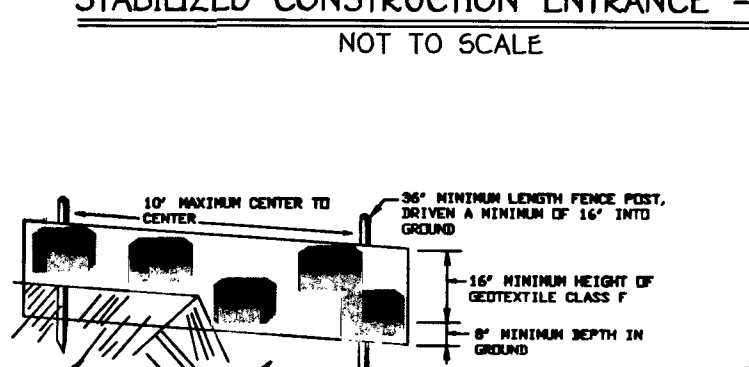
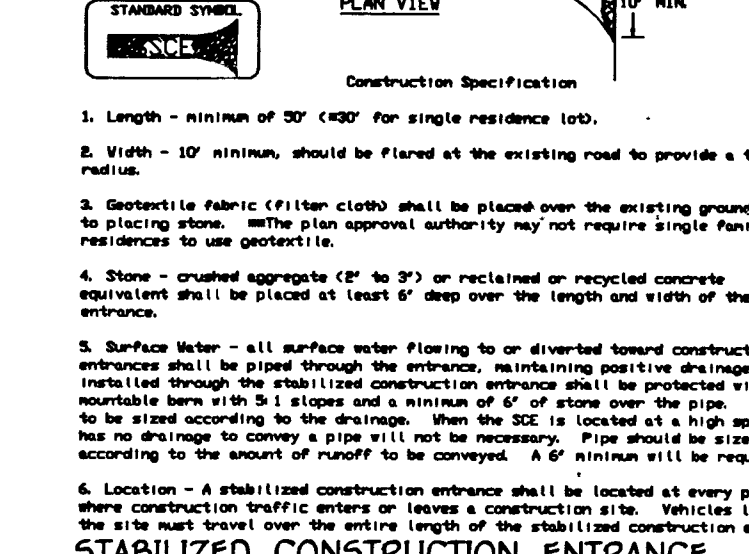
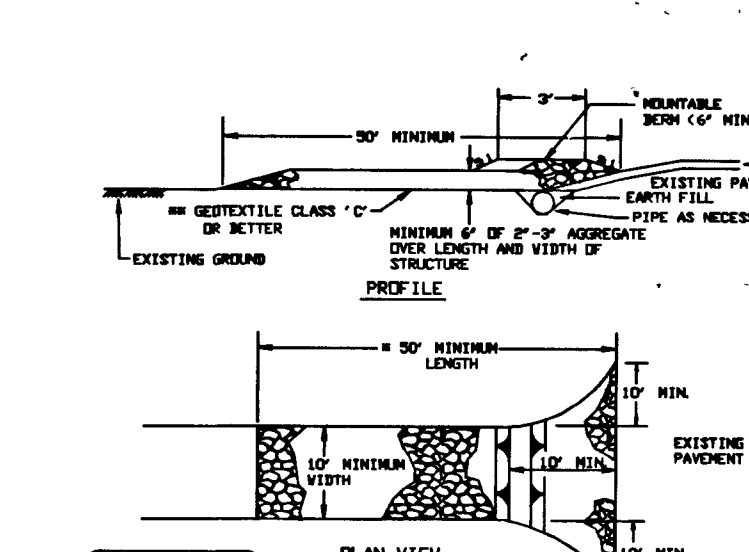
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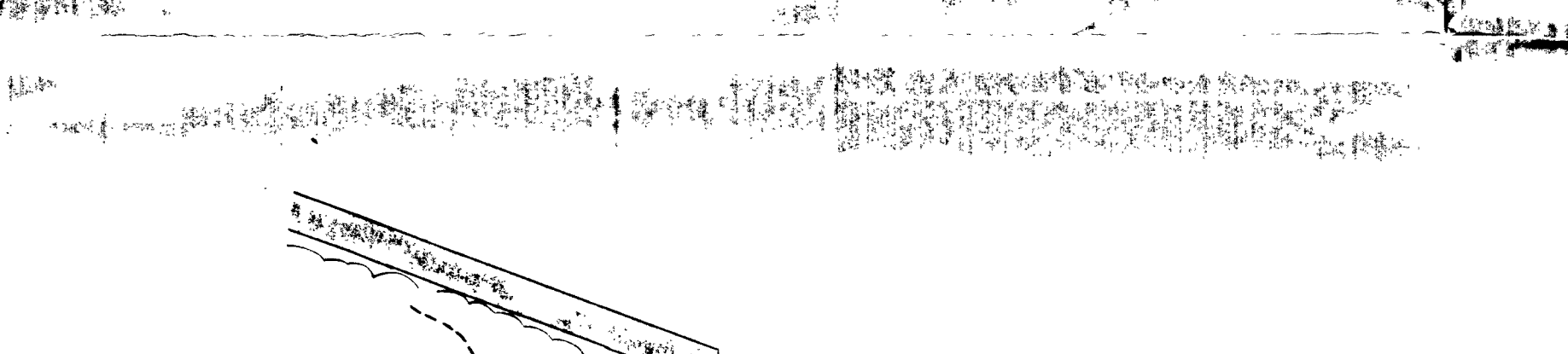
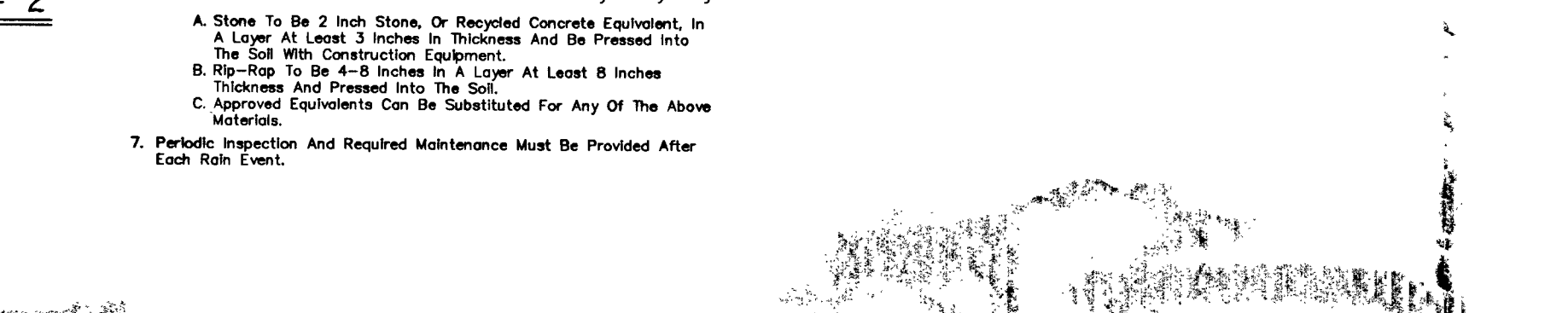
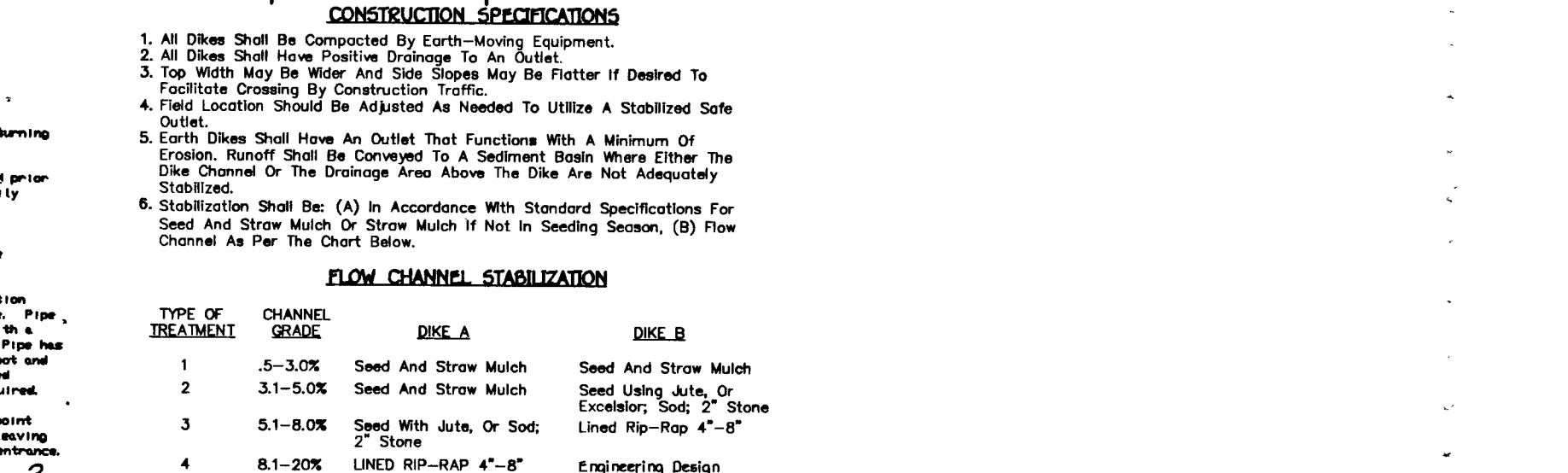
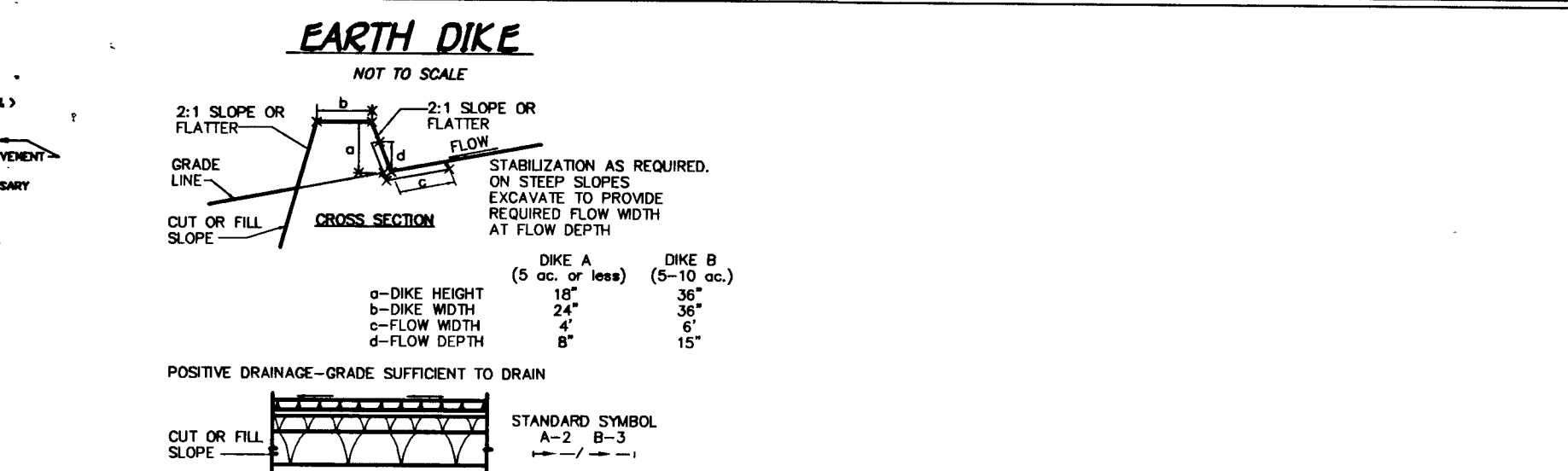
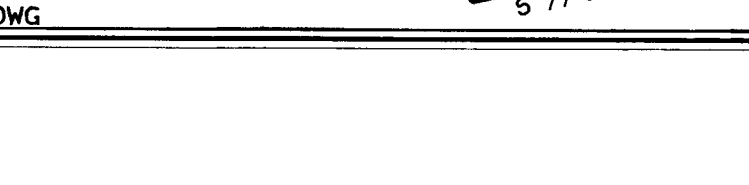
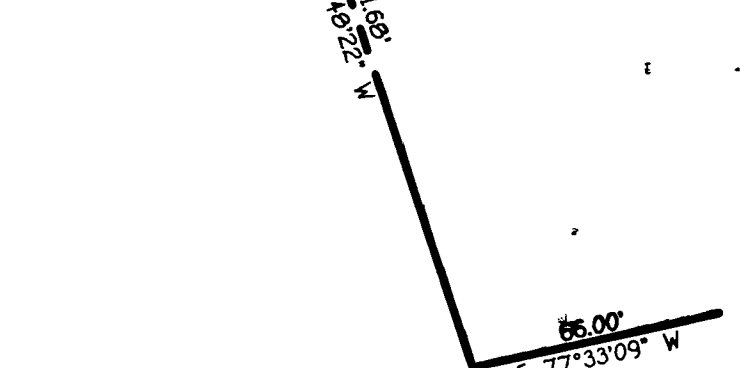
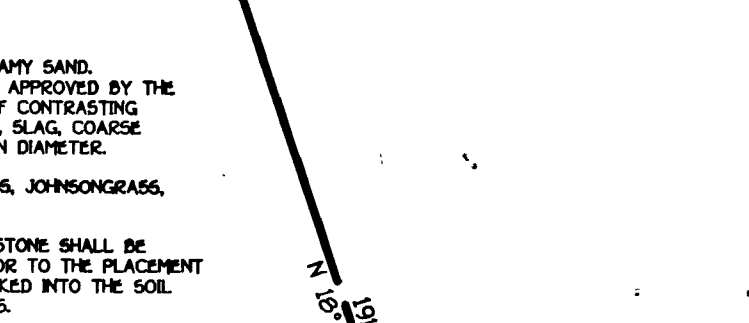
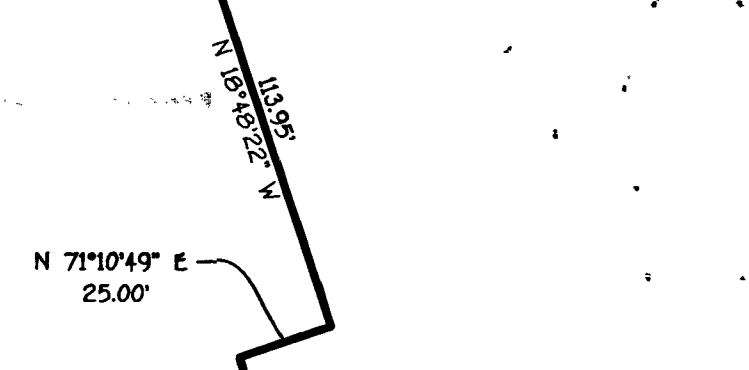
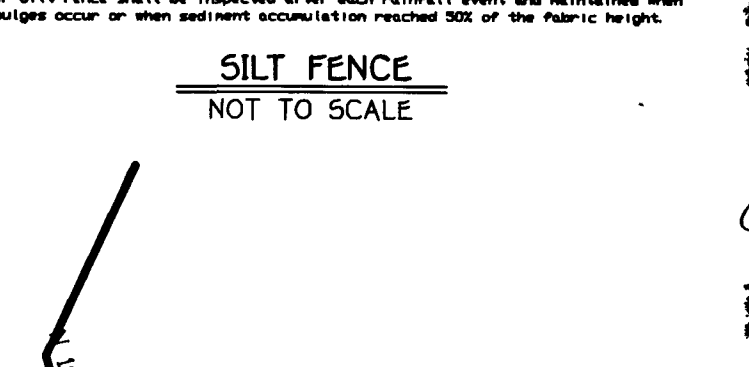


**CONSTRUCTION SPECIFICATIONS**

- Fence posts shall be a minimum of 30' long driven 18" minimum into the ground. Wood posts shall be 1 1/2" x 1 1/2" square treated oak or 1 1/2" diameter (minimum) round and shall be of sound quality hardwood. Steel posts will be minimum 1" in diameter with a minimum of 18" in length.
- Geotextile shall be fastened securely to both faces with wire ties or staples at top and air-section and shall meet the following requirements for Geotextile Class F:

Tensile Strength	30 (lbs/in. (min.))	Test	DOT 309
Tensile Modulus	80 (lbs/in. (min.))	Test	DOT 309
Flow Rate	0.3 gal. (15.7 in. (min.))	Test	DOT 309
Filtering Efficiency	75% (min.)	Test	DOT 309

- Where ends of geotextile fabric come together, they shall be overlapped, pinned and stapled to prevent material separation.
- Silt Fence shall be inspected after each rainfall event and maintained when bulges occur or when sediment accumulation reached 50% of the fabric height.



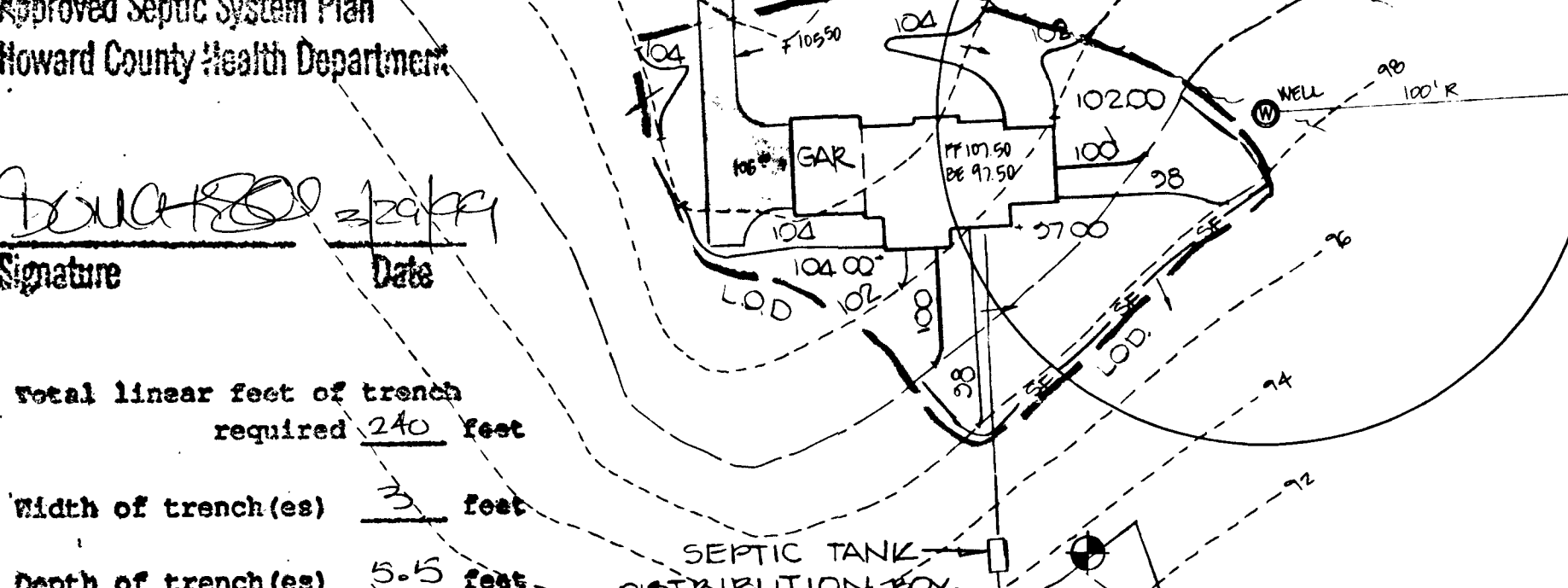
**CONSTRUCTION SPECIFICATIONS**

- All Dikes Shall Be Constructed By Earth-Moving Equipment.
- All Dikes Shall Have Positive Drainage To An Outlet.
- Top Width May Be Wider And Side Slopes May Be Flatter If Desired To Facilitate Crossing By Construction Traffic.
- Field Location Should Be Adjusted As Needed To Utilize A Stabilized Safe Outlet.
- Earth Dikes Shall Have An Outlet That Functions With A Minimum Of Erosion. Runoff Shall Be Conveyed To A Sediment Basin Where Either The Dike Channel Or The Drainage Area Above The Dike Are Not Adequately Stabilized.
- Stabilization Shall Be (A) In Accordance With Standard Specifications For Seed And Straw Mulch Or Straw Mulch If Not In Seeding Season, (B) Flow Channel As Per The Chart Below.

TYPE OF TREATMENT	CHANNEL GRADE	DIKE A	DIKE B
1	0-3.0%	Seed And Straw Mulch	Seed And Straw Mulch
2	3.1-5.0%	Seed And Straw Mulch	Seed Using Jute, Or Erosionless, 2" Stone
3	5.1-8.0%	Seed With Jute, Or Sod, 2" Stone	Lined Rip-Rap 4"-8"
4	8.1-20%	LINED RIP-RAP 4"-8"	Engineering Design

A Stone To Be 2 Inch Stone, Or Recycled Concrete Equivalent, In A Layer At Least 3 Inches In Thickness And Be Pressed Into The Soil With Construction Equipment.  
 B. Rip-Rap To Be 4-8 Inches In A Layer At Least 8 Inches Thickness And Pressed Into The Soil.  
 C. Approved Equivalents Can Be Substituted For Any Of The Above Materials.

7. Periodic Inspection And Required Maintenance Must Be Provided After Each Rain Event.



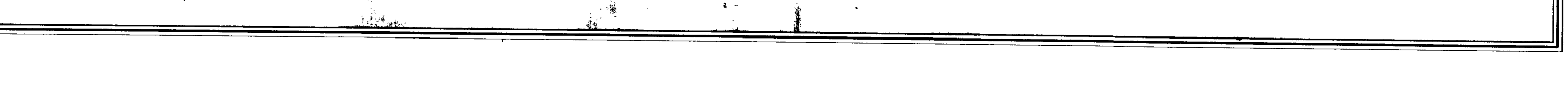
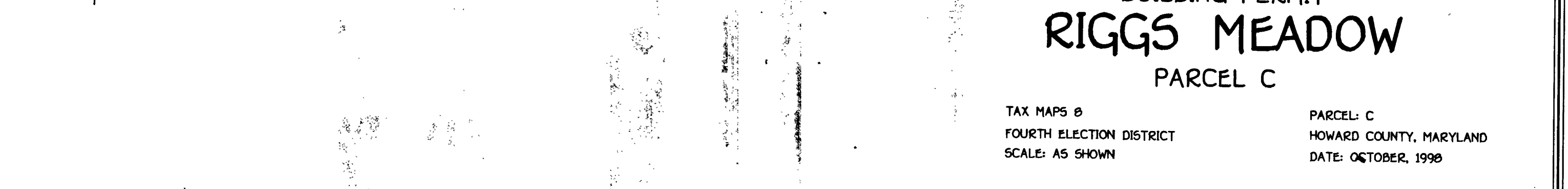
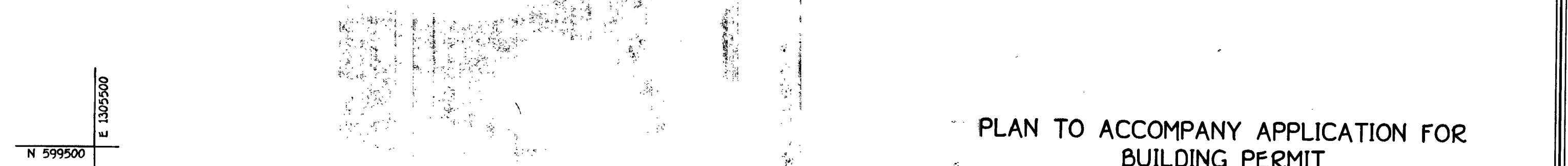
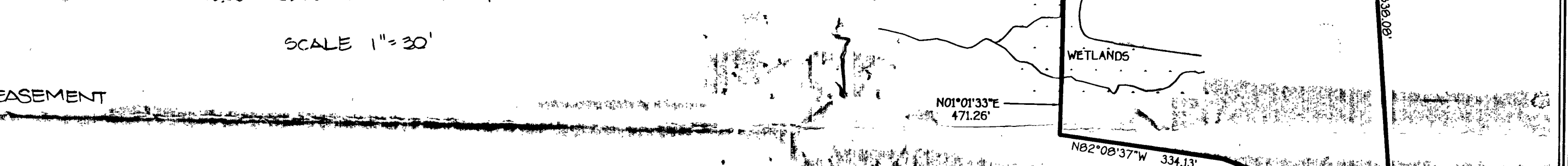
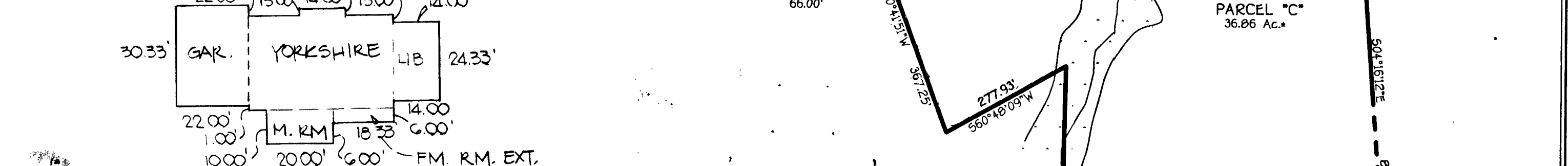
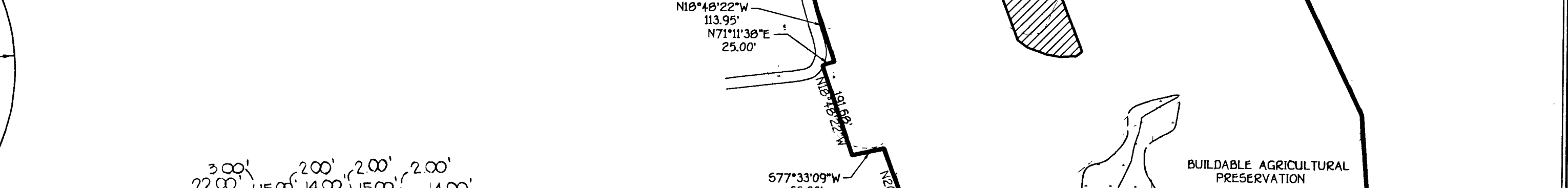
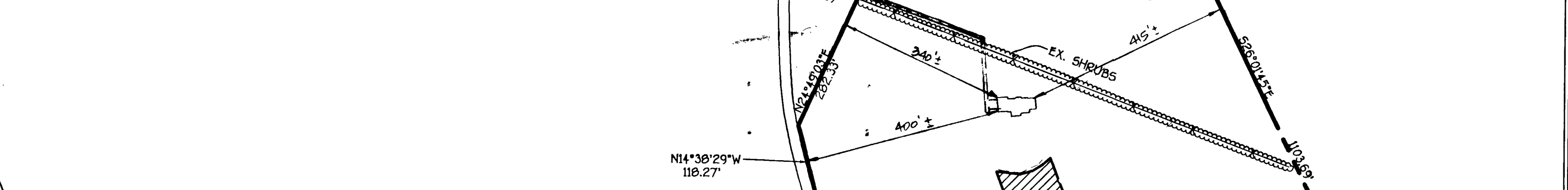
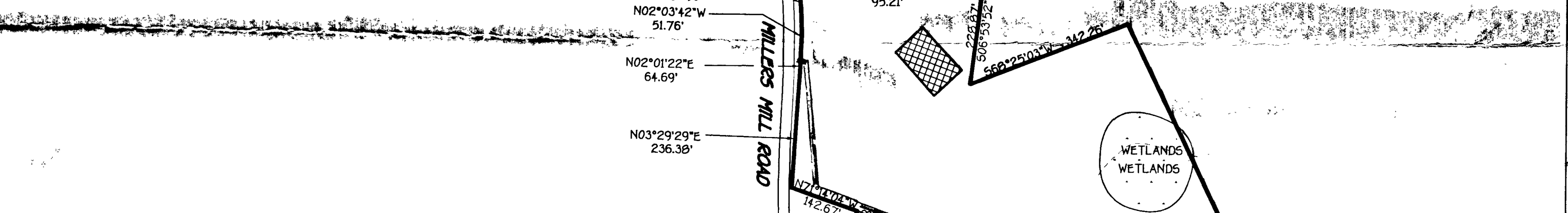
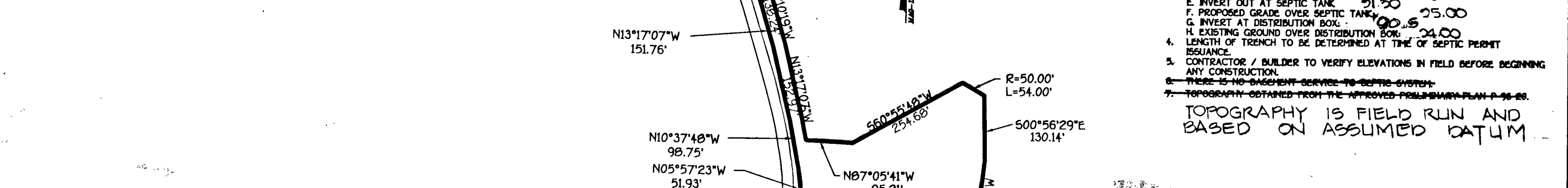
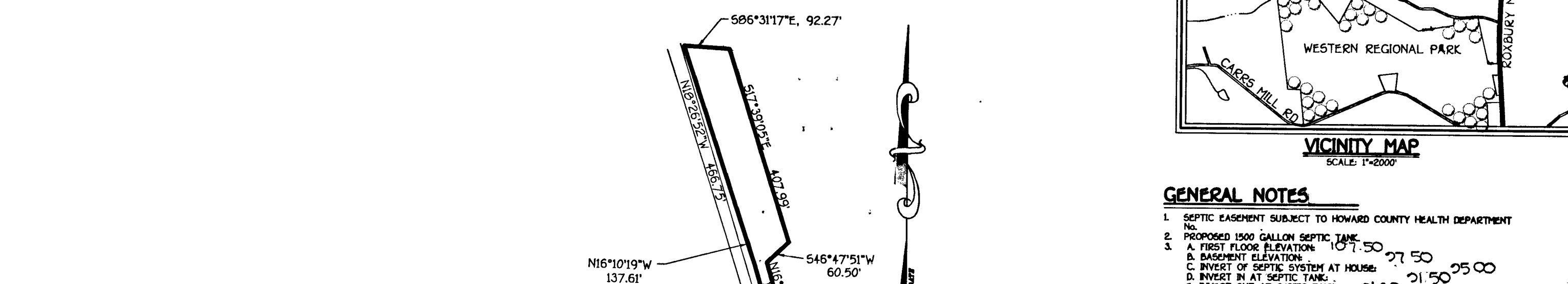
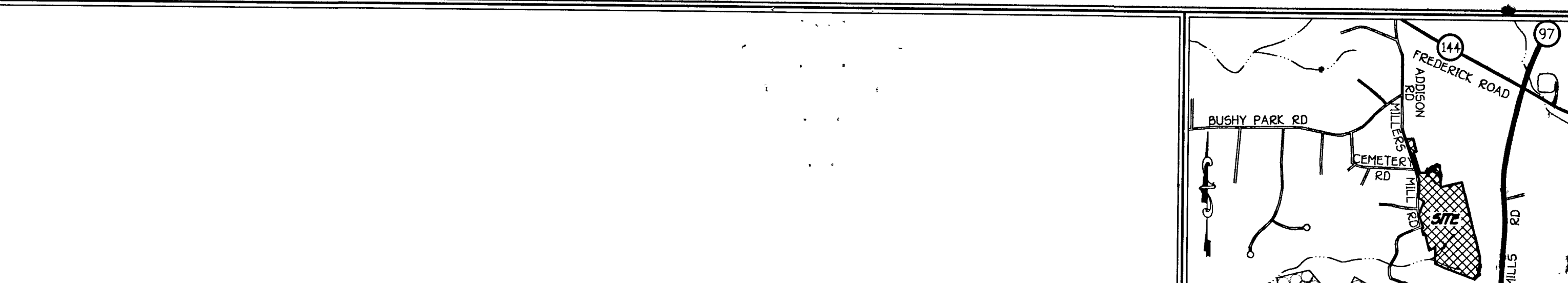
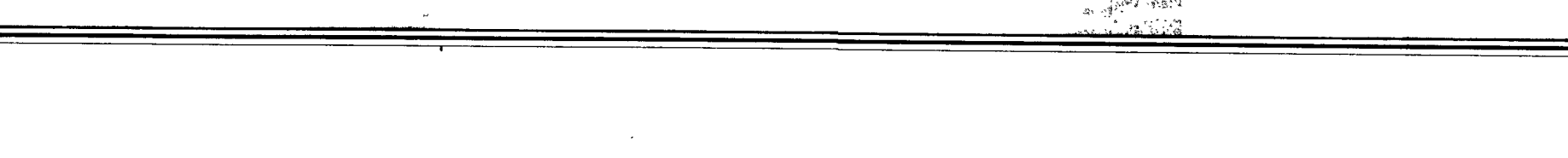
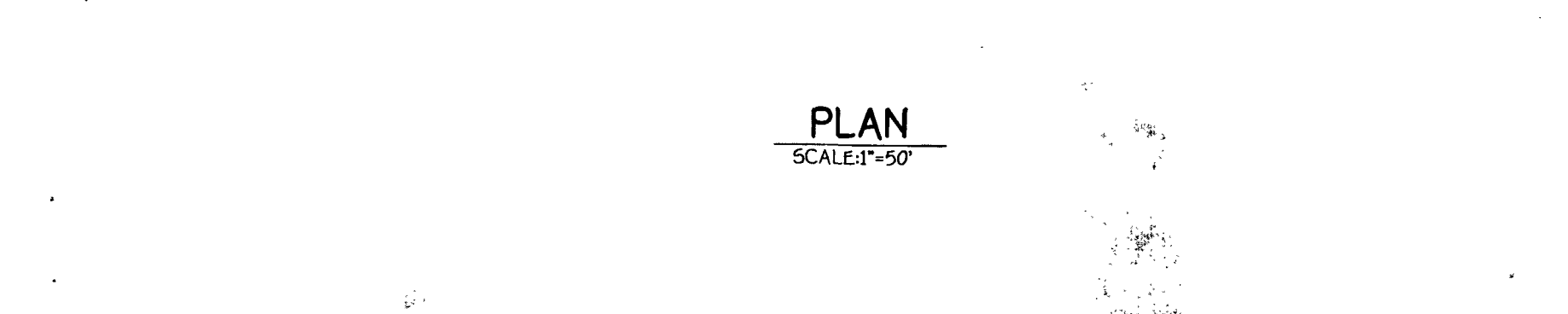
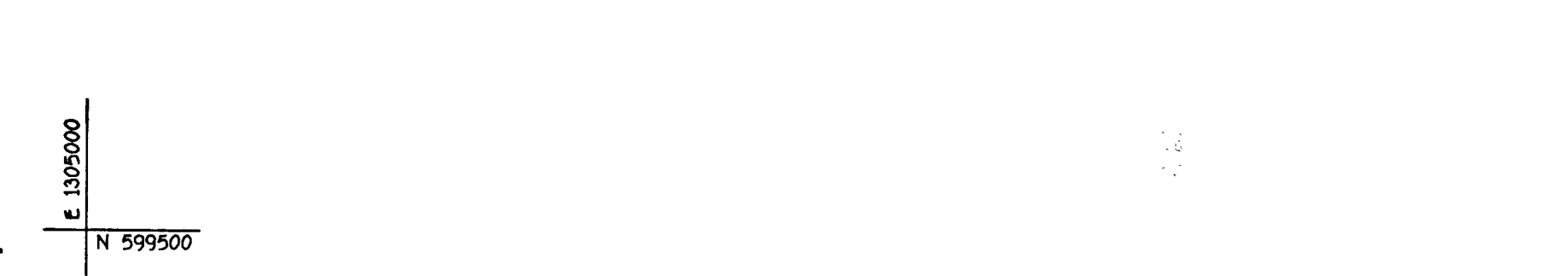
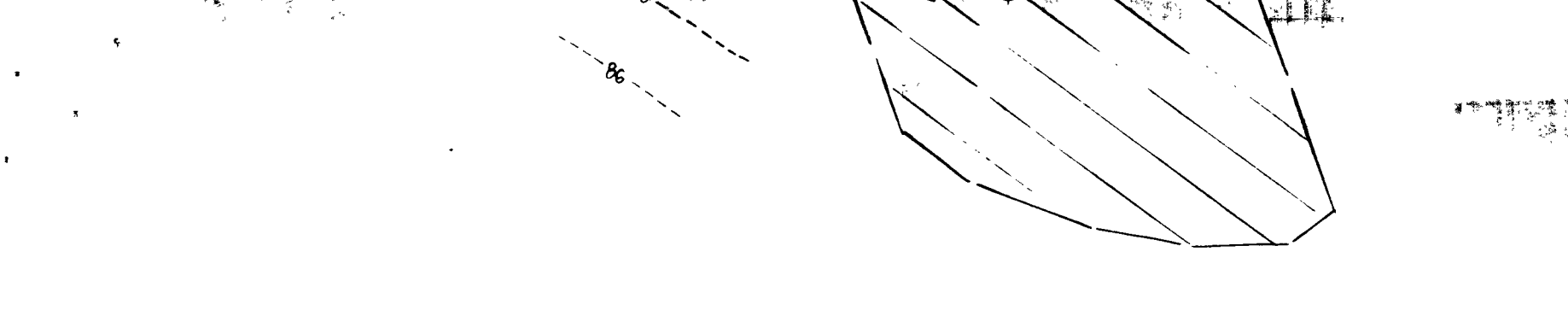
**Signature** \_\_\_\_\_ **Date** \_\_\_\_\_

**Total linear feet of trench required** 240 Feet

**Width of trench(es)** 3 feet

**Depth of trench(es)** 5-5 feet

**Depth of stone required below distribution pipe** 2 feet

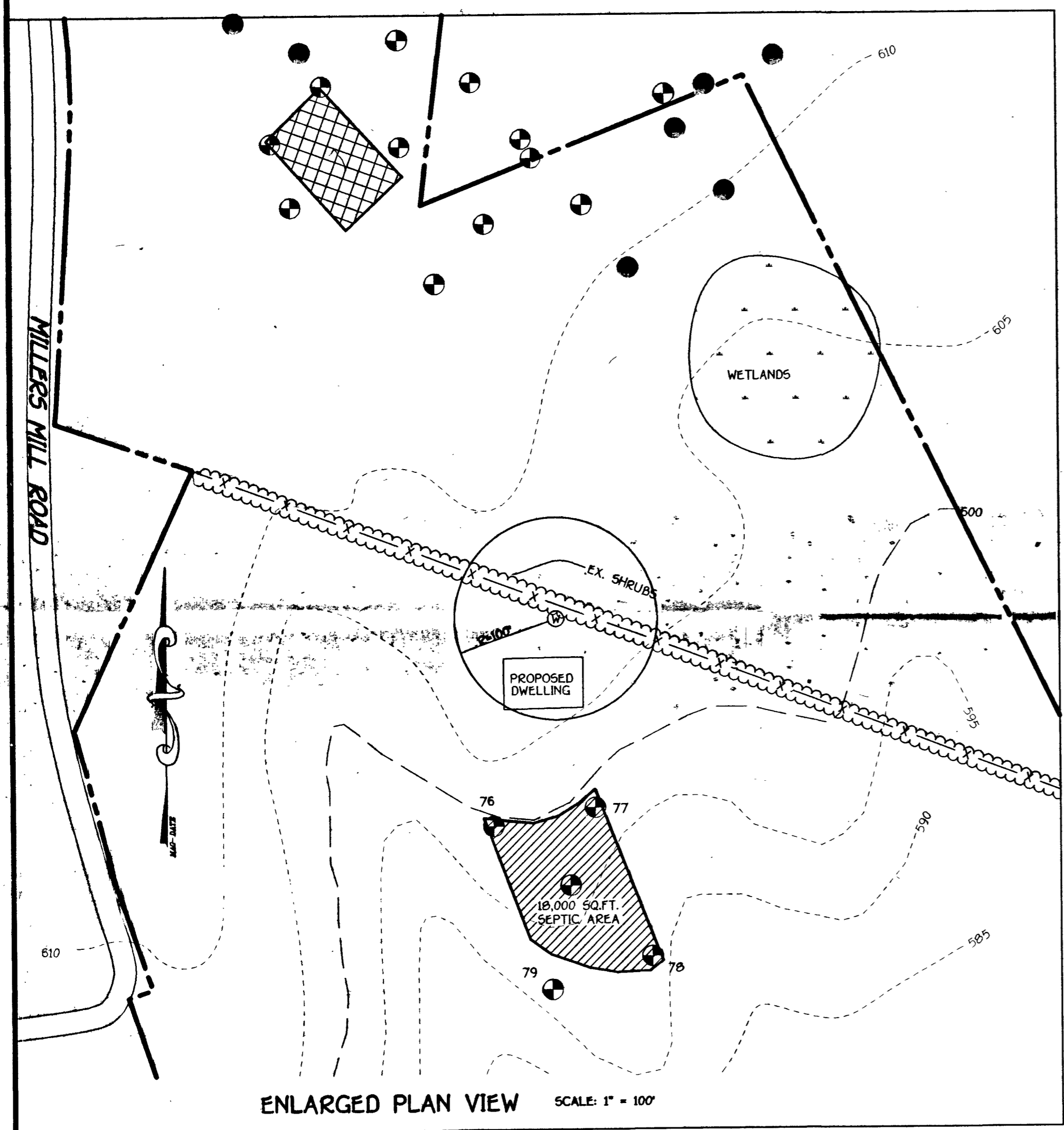


**PLAN TO ACCOMPANY APPLICATION FOR BUILDING PERMIT**  
**RIGGS MEADOW**  
 PARCEL C

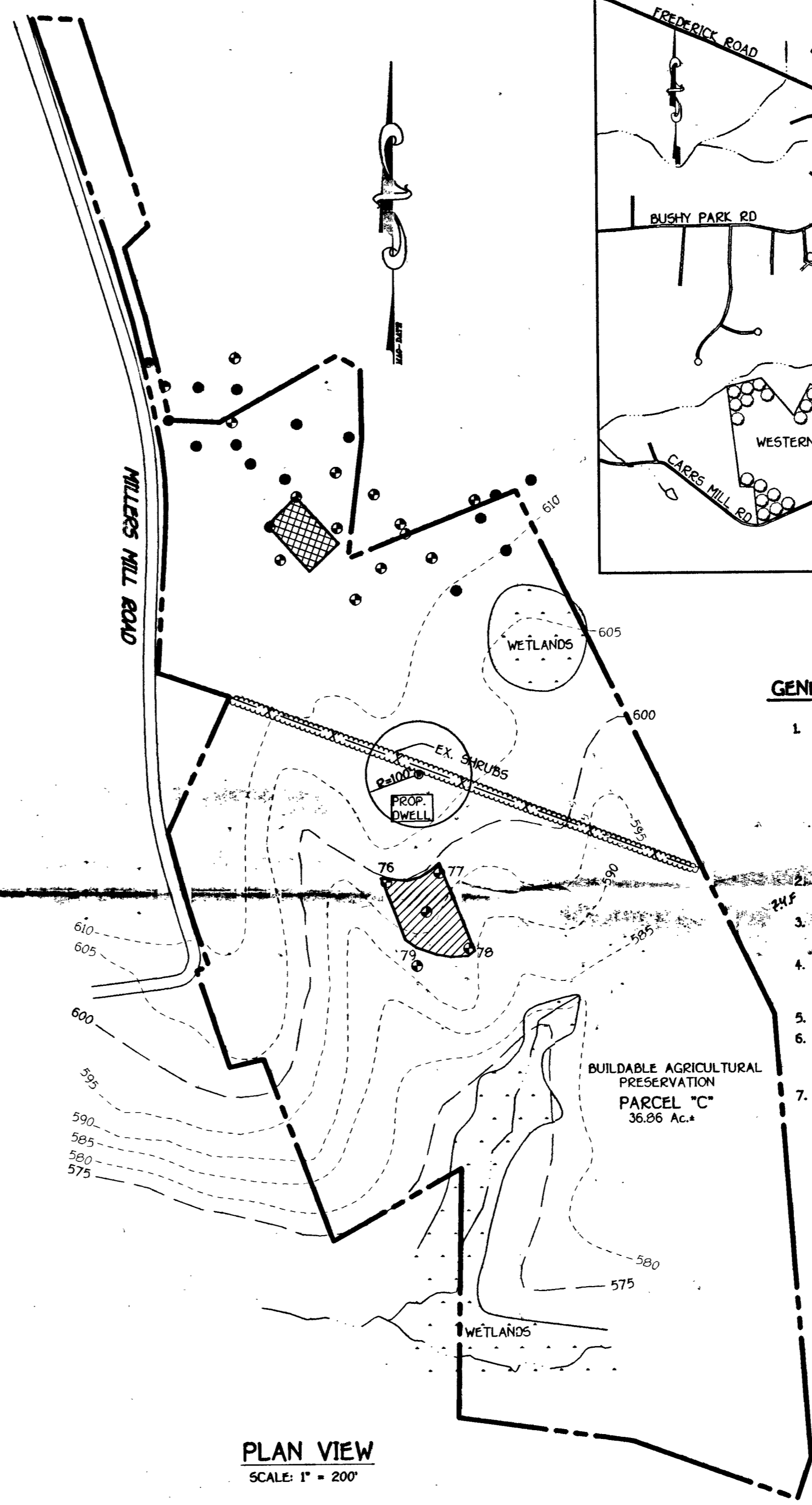
TAX MAPS B  
 FOURTH ELECTION DISTRICT  
 SCALE: AS SHOWN

PARCEL: C  
 HOWARD COUNTY, MARYLAND  
 DATE: OCTOBER, 1998

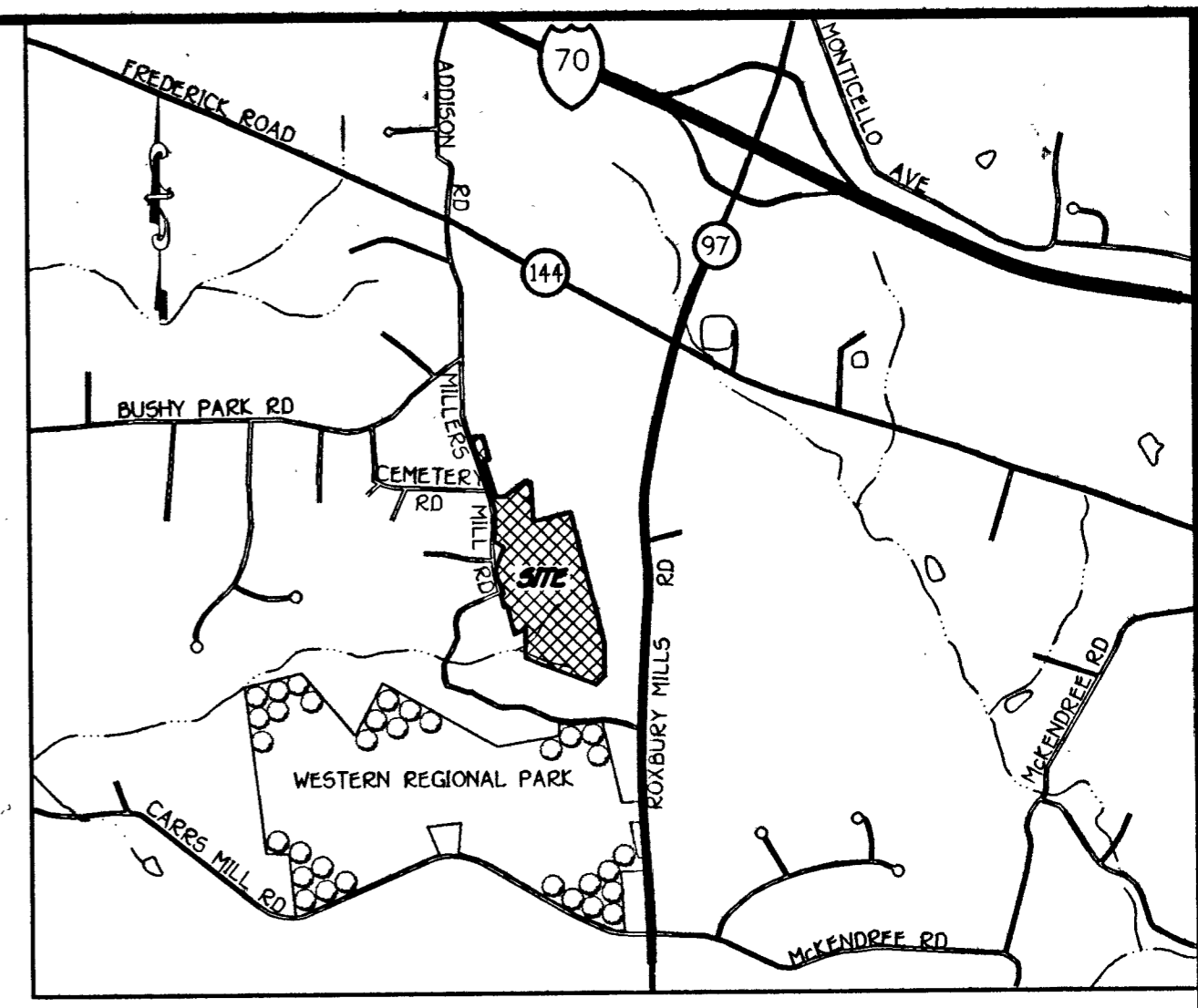
**FISHER, COLLINS & CARTER, INC.**  
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
 CENTRAL SQUARE OFFICE PARK - 3672 BALTIMORE NATIONAL PkE  
 ELKLOTT CITY, MARYLAND 21114  
 (410) 481-2999 G:\DWG\612201\612201\_PLOT\_PLANDWG



ENLARGED PLAN VIEW SCALE: 1" = 100'



PLAN VIEW SCALE: 1" = 200'



VICINITY MAP SCALE: 1" = 2000'

**GENERAL NOTES:**

1. [Hatched Area] THIS AREA DESIGNATES A PRIVATE SEWERAGE EASEMENT OF AT LEAST 10,000 SQUARE FEET AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWERAGE DISPOSAL IMPROVEMENTS OF ANY NATURE. IN THIS AREA ARE RESTRICTED UNTIL PUBLIC SEWERAGE IS AVAILABLE. THESE EASEMENTS SHALL BECOME NULL AND VOID UPON CONNECTION TO A PUBLIC SEWERAGE SYSTEM. THE COUNTY HEALTH OFFICER SHALL HAVE THE AUTHORITY TO GRANT VARIANCES FOR ENCROACHMENT INTO THE PRIVATE SEWERAGE EASEMENT. RECORDATION OF A MODIFIED SEWERAGE EASEMENT SHALL NOT BE NECESSARY.
2. [Cross-hatched Area] THIS AREA DESIGNATES AN APPROVED PRIVATE SEWERAGE EASEMENT OF 10,000 SQUARE FEET AS PER RECORD PLAT NO. 12963.
3. THE LOT SHOWN HEREON COMPLY WITH THE MINIMUM OWNERSHIP WIDTH AND LOT AREA AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT.
4. THE PURPOSE OF THIS PLAT IS TO REVISE THE EXISTING PRIVATE SEWERAGE EASEMENT RECORDED IN PLAT NO. 12963 TO THE LOCATION SHOWN HEREON.
5. (W) DENOTES WELL LOCATION.
6. (P) DENOTES PERC HOLE LOCATION (PASSED)  
(F) DENOTES PERC HOLE LOCATION (FAILED)
7. OWNER & DEVELOPER:  
COOKSVILLE LIMITED PARTNERSHIP  
P.O. BOX 417  
ELLCOTT CITY, MARYLAND 21040  
410-465-4244

CONTRACT PURCHASER  
MS. TERRI MINFORD  
12805 FOLLY QUARTER RD.  
ELLCOTT CITY MD. 21042

PERC CERTIFICATION PLAN  
**RIGGS MEADOW**  
PARCEL C

TAX MAPS 8 & 14 ZONED: RC  
FOURTH ELECTION DISTRICT  
SCALE: AS SHOWN

PARCEL: C  
HOWARD COUNTY, MARYLAND  
DATE: SEPTEMBER 10, 1998

**FISHER, COLLINS & CARTER, INC.**  
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
CENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE  
ELLCOTT CITY, MARYLAND 21042  
(410) 461-2955

APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS,  
HOWARD COUNTY HEALTH DEPARTMENT.  
*Jacques K. Miller*  
COUNTY HEALTH OFFICER (KM) DATE: 9-29-98

STATE OF MARYLAND  
ZACHARIA VOSE, ESQ.  
22418  
PROFESSIONAL ENGINEER  
*E. Anthony Fisch*