

LAYOUT 3/28/06 INSP 4 _____
INSP 2 3/29/06 INSP 5 _____
INSP 3 _____ INSP 6 _____

ISSUE DATE: 3/22/06

APPROVAL DATE: 3/29/06

PERMIT

INDEXED

TAX ID #03-341267

P 524364

A 514921-AA

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

Fogles Septic Clean, Inc IS PERMITTED TO INSTALL ALTER

ADDRESS: 580 Obrecht Road, Sykesville PHONE NUMBER: 410-795-5670

SUBDIVISION: Archer's Glen LOT NUMBER: 22

ADDRESS: 1719 Archers Glen PROPERTY OWNER: Patapsco Homes Inc.

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

PUMP CHAMBER CAPACITY (GALLONS): n/a COMPARTMENTED TANK REQUIRED

NUMBER OF BEDROOMS: 4

SQUARE FEET PER BEDROOM: 210

LINEAR FEET OF TRENCH REQUIRED: 200 HOUSE SERVED BY PUBLIC WATER

TRENCHES:	Trench to be 3.0 feet wide. Inlet 4.0 feet below original grade. Bottom maximum depth 6.0 feet below original grade. Effective area begins at 4.5 feet below original grade. 2.0 feet of stone below distribution pipe.
LOCATION:	Run 4-50' length trenches on contour from distribution box. May adjust septic tank location & the distribution box if okay with homeowner in writing.
NOTES:	Basement gravity service is proposed. <i>ENSURE 20' DISTANCE TO LP TANK INSTALLED.</i>

PLANS APPROVED: Kacie Noonan Reviewed by: _____ DATE: 10/5/05

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

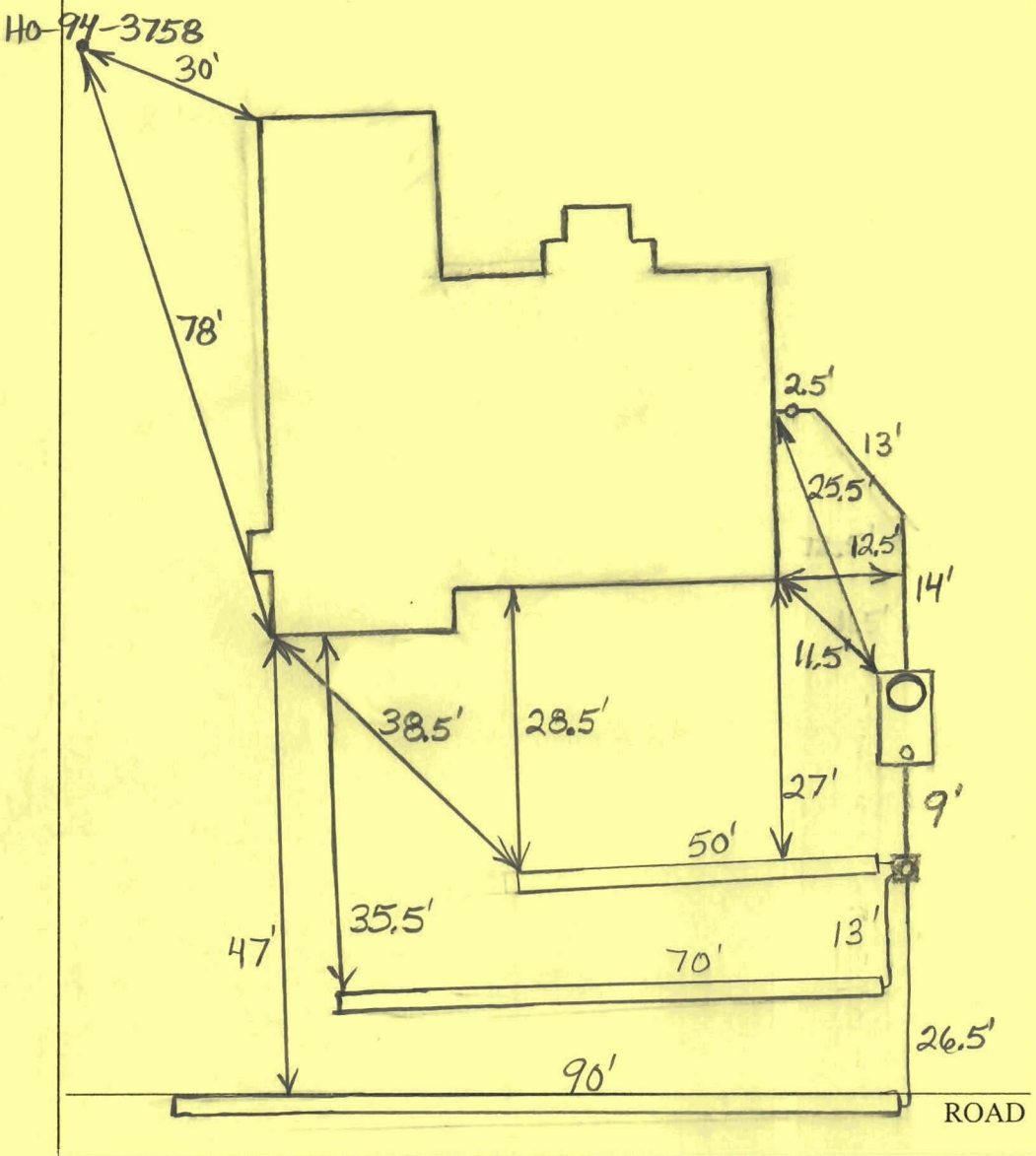
**NEITHER THE HOWARD COUNTY COUNCIL NOR THE HEALTH DEPARTMENT IS
RESPONSIBLE FOR THE SUCCESSFUL OPERATION OF ANY SYSTEM
PERMITTEE RESPONSIBLE FOR OBTAINING FINAL APPROVAL ON THIS PERMIT
ALL 410-313-1771 FOR INSPECTION OF SEPTIC SYSTEM**

**BUILDING PERMIT SIGNED
AND RETURNED**

2/15/06 B00158001 PROPANE TANK

A 514921-AA

NOT TO SCALE



TRENCH/DRAINFIELD DATA		
WIDTH	INLET	BOTTOM
3'	4'	6'
NUMBER OF TRENCHES	3	
TOTAL LENGTH	210'	
ABSORPTION AREA	630+Sidewall	
DISTRIBUTION BOX LEVEL	Yes	
DISTRIBUTION BOX BAFFLE	Yes	
DISTRIBUTION BOX PORT	Yes	

SEPTIC TANK DATA	
SEPTIC TANK 1 LEVEL	Yes
CAPACITY	1500 GAL
SEAM LOC	Top
TANK LID DEPTH	0.5'-1.5'
BAFFLES	Yes
BAFFLE FILTER	No
MANHOLE LOC	Front
6" PORT LOC	Rear
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 3/28/06 I install a 50', 70' and 90' trench in the uppermost region of the septic easement. O.K. to keep top INSTALLATION trench 5' below top of easement to allow extra room for intended deck (BB) 3/29/06 System installed. O.K. to backfill (BB).

FINAL INSPECTOR B. Baker

DATE OF APPROVAL 3/29/06

1:CAD:0280098729(S)T01-01.DWG, REV(3)022, 2005-09-29 08:47:21 AM, mlf

SEQUENCE OF CONSTRUCTION

- 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 moss grade to sub-base. 1 Day
4. Install temporary seeding. 2 Months
5. Construct Buildings. 1 Day
6. Fine grade site and install permanent seeding and landscaping. 1 Day
7. Remove Sediment Control Devices as upland areas are stabilized and permission is granted by Erosion and Sediment Control Inspector. 2 Days

SEDIMENT CONTROL NOTES

- 1. 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)
2. 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 thereto.
3. Following initial soil disturbance or re-disturbance, permanent or temporary stabilization shall be completed within: a) 7 calendar days for all perimeter sediment control structures, dikes, perimeter slopes and all slopes steeper than 3:1, b) 14 days as to all other disturbed or graded areas on the project site.
4. All sediment traps/basins shown must be fenced and warning signs posted around the perimeter in accordance with Vol. 1, Chapter 12, of the Howard County Design Manual, Storm Drainage.
5. 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. 54), Temporary Seeding (sec. 50), and Mulching (sec. 52). Temporary stabilization with mulch alone can only be done when recommended seeding dates do not allow for proper germination and establishment of grasses.
6. 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.
7. Site Analysis: Total Area of Site 1.0891 Acres, Area Disturbed 0.8544 Acres, Area to be roofed and paved 0.1085 Acres, Area to be vegetatively stabilized 0.5459 Acres, Total Cut 939 Cu. Yards, Total Fill 939 Cu. Yards, Offsite Waste/Borrow Area Location N/A
8. Any sediment control practice which is disturbed by grading activity for placement of utilities must be repaired on the same day of disturbance.
9. Additional sediment controls must be provided, if deemed necessary by the Howard County Sediment Control Inspector.
10. 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 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.
11. Trenches for the construction of utilities is limited to three pipe 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.
Seeded Preparation: Loosen upper three inches of soil by raking, disking or other acceptable means before seeding, if not previously loosened.
Soil Amendments: Apply 600 lbs. per acre 10-10-10 fertilizer (14 lbs./1000 sq. ft.).
Seeding: For the periods March 1 through April 30, and August 15 through November 15, seed with 1 1/2 bushels per acre of annual ryegrass (3.2 lbs./1000 sq. ft.). For the period of May 1 thru August 14, seed with 3 lbs./acre of weeping lovegrass (0.7 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 sod.
Mulching: Apply 1 1/2 to 2 tons per acre (70 to 90 lbs./1000 sq. ft.) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gallons per acre (5 gal./1000 sq. ft.) of emulsified asphalt on flat areas. On slopes 8 feet or higher, use 348 gallons per acre (8 gal./1000 sq. ft.) for anchoring. Refer to the 1988 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:
Seeded Preparation: Loosen upper three inches of soil by raking, disking or other acceptable means before seeding.
Soil Amendments: Apply two tons per acre dolomitic limestone (92 lbs./1000 sq. ft.) and 600 lbs. per acre 0-20-20 fertilizer (14 lbs./1000 sq. ft.). Before seeding harrow or disc into upper 3 inches of soil. At time of seeding, apply 400 lbs. per acre 38-0-0 ureaform fertilizer (9 lbs./1000 sq. ft.) and 500 lbs. per acre (11.5 lbs./1000 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./1000 sq. ft.) of Kentucky 31 Tall Fescue. For the period of May 1 thru July 31, seed with 60 lbs./acre (1.4 lbs./1000 sq. ft.) of Kentucky 31 Tall Fescue and 2 lbs. per acre (0.05 lbs./1000 sq. ft.) of weeping lovegrass. During the period of October 16 thru February 28, protect site by: Option 1) Applying 2 tons per acre of well anchored straw mulch and seed as soon as possible in the spring. Option 2) Use sod. Option 3) Seed with 100 lbs./acre Kentucky 31 Tall Fescue and mulch with two tons/acre well anchored straw. All slopes should be hydroseeded.
Mulching: Apply 1 to 2 tons per acre (45 to 90 lbs./1000 sq. ft.) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using 200 gallons per acre (5 gal./1000 sq. ft.) of emulsified asphalt on flat areas. On slopes 8 feet or higher, use 348 gallons per acre (8 gal./1000 sq. ft.) for anchoring.
Maintenance: Inspect all seeded areas and make needed repairs, replacements and reseedings. *For public ponds substitute Chemung Crownwheat 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.

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 or loamy sand. Other soils may be used if recommended by an agronomist or soil scientist and approved by the appropriate approval authority. Regardless, topsoil shall not be a mixture of contrasting texture subsoils and shall contain less than 5% by volume of cinders, stones, slag, 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 bermuda grass, quackgrass, johnsongrass, nutsedge, poison ivy, thistle or others as specified. Where the topsoil is either highly acidic or composed of heavy clays, ground limestone shall be spread at the rate of 4-8 tons/acre (200-400 lbs./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.

GENERAL NOTES

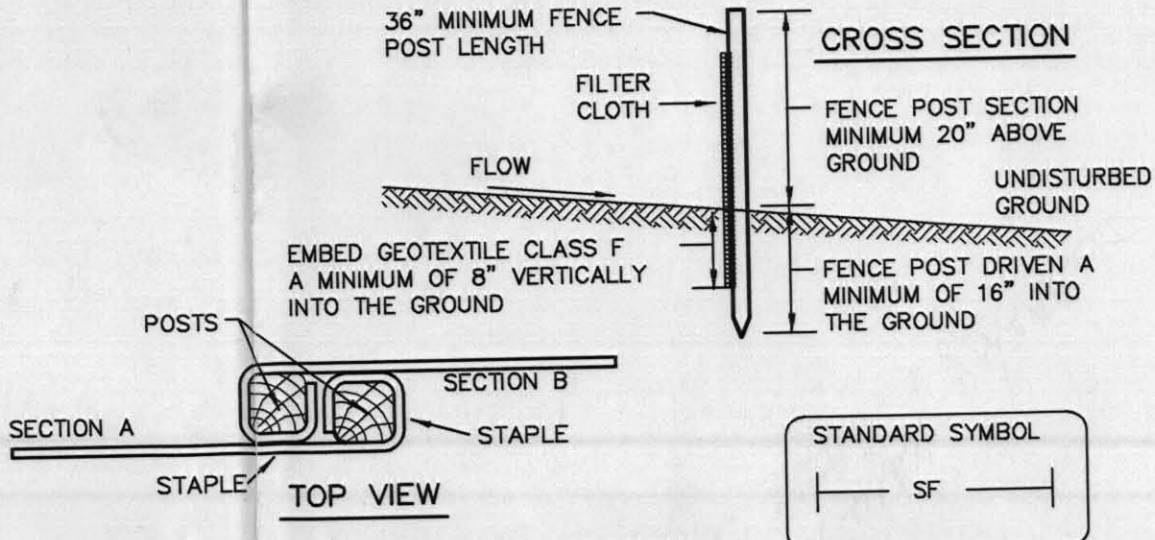
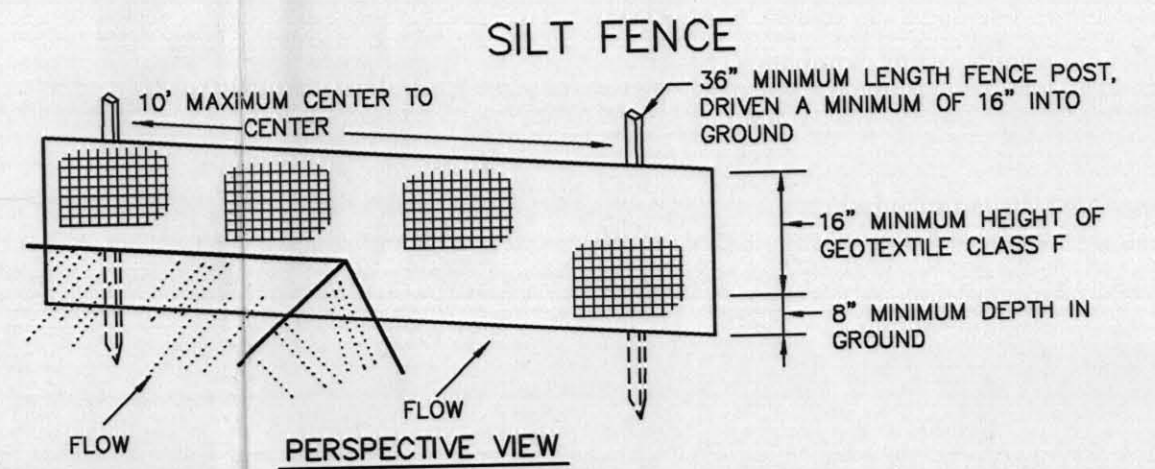
- 1. Subject Property Zoned: RC-DEO.
2. Total area of property: 47,445 sq. ft.
3. Septic easement subject to Howard County Health Department review.
4. Length of trench to be determined at time of septic permit issuance.
5. Contractor/Builder to verify elevation in the field before beginning any construction.
6. Field run topographic survey run by Fisher, Collins & Carter, Inc in May of 2004.
7. No wetlands currently exist on the property.
8. For driveway entrance detail refer to Howard County Design Manual Volume IV Standard Detail 66.06.
9. This area designates a private sewerage easement 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 adjustments to the private sewerage easement. Recordation of a modified sewerage easement shall not be necessary.
10. The lot shown hereon complies with the minimum ownership width and lot area as required by the Maryland State Department of the Environment.
11. Existing wells and/or sewerage easements within 100 feet of the property have been shown from the best available information.
12. All house sites shown comply with minimum building restriction regulations.
13. All wells shall be drilled prior to final plot recordation. It is the developer's responsibility to schedule the well drilling prior to final plot submission. It will not be considered "government delay" if the well drilling holds-up the Health Department signature of the record plat.
14. The existing well shown on this plan identified with the attached well tag number HO-94-3758 has been field located by DRS & Associates professional land surveyor and is accurately shown.
15. There is no stockpile area located on site, stockpiling will not be permitted on site.

SEPTIC TEST LEGEND

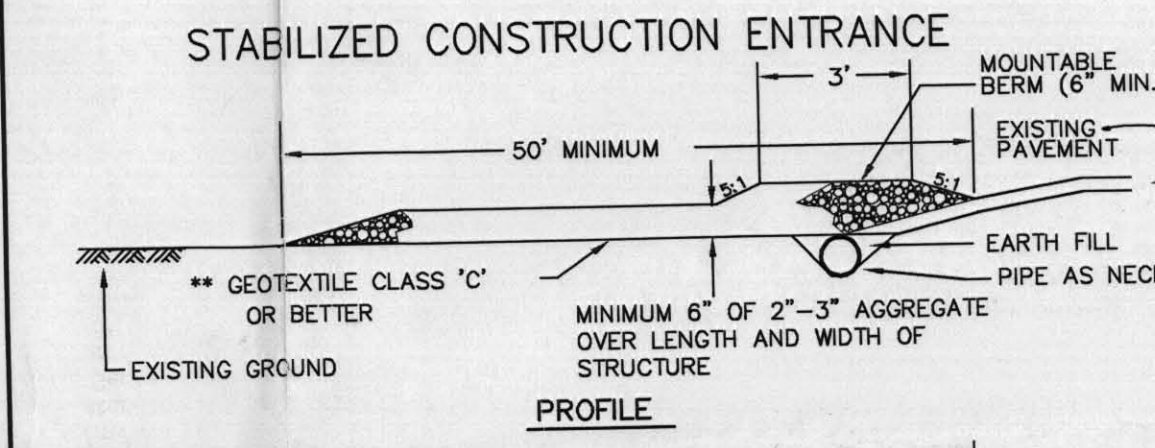
- PROPOSED PERC
APPROVED DEEP TRENCH PERC
APPROVED MODIFIED TRENCH PERC
APPROVED SAND MOUND PERC
APPROVED TILE FIELD PERC
FAILED PERC
NO TEST
PROPOSED OBSERVATION HOLE
APPROVED DEEP TRENCH OBSERVATION HOLE
APPROVED MODIFIED TRENCH OBSERVATION HOLE
APPROVED SAND MOUND OBSERVATION HOLE
APPROVED TILE FIELD OBSERVATION HOLE
FAILED OBSERVATION HOLE

SEPTIC TEST RESULTS

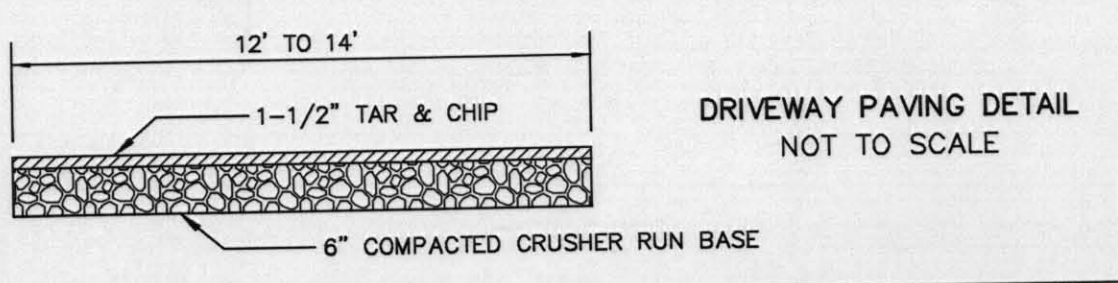
Table with columns: No., TYPE TEST, COMMENTS, DATE. Contains 3 rows of test data.



Construction Specifications: 1. Fence posts shall be a minimum of 36" long driven 16" minimum into the ground. Wood posts shall be 1 1/2" x 1 1/2" square (minimum) cut, or 1 3/4" diameter (minimum) round and shall be of sound quality hardwood. Steel posts will be standard T or U section weighting not less than 1.00 pound per linear foot or staples at top and mid-section to each fence post with wire ties.

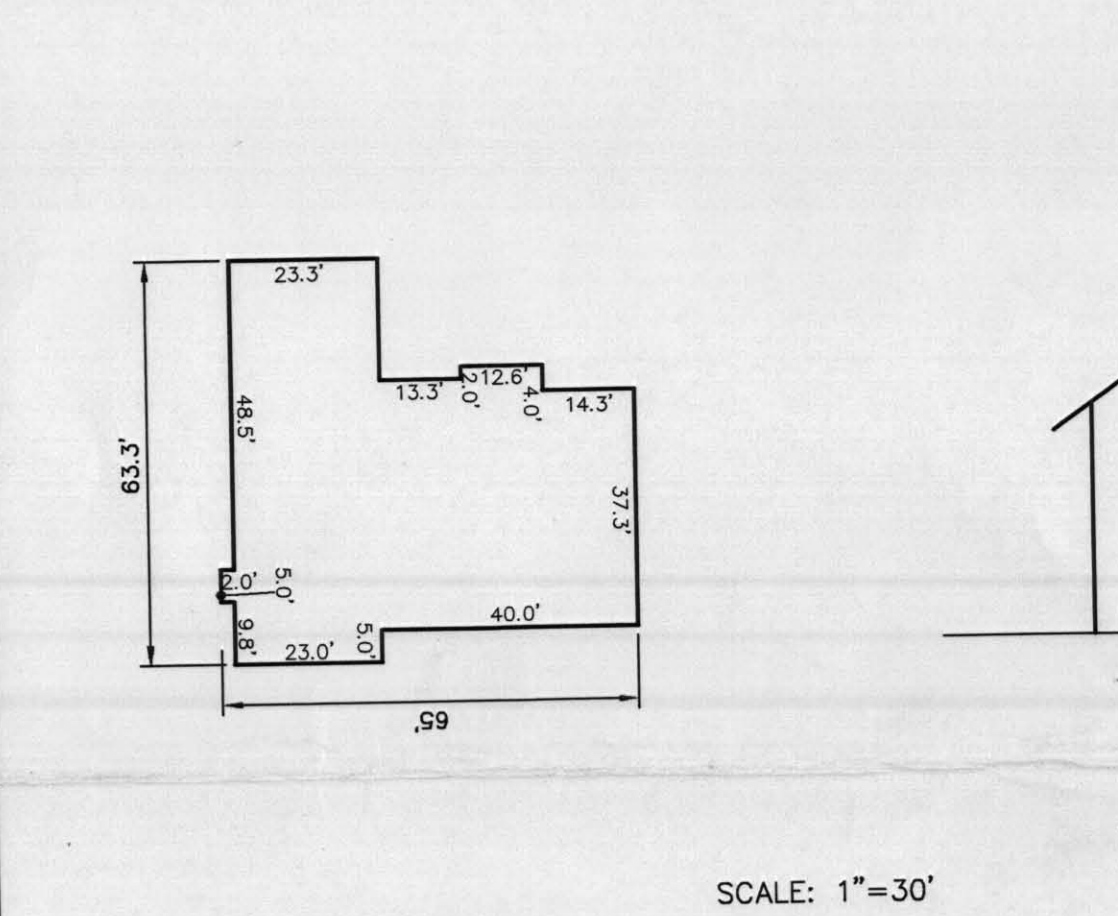


Construction Specification: 1. Length - minimum of 50' (30' for single residence lot). 2. Width - 10' minimum, should be floored at the existing road to provide a turning radius. 3. Geotextile fabric (filter cloth) shall be placed over the existing ground prior to placing stone. The plan approval authority may not require single family residences to use geotextile. 4. 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. 5. Surface Water - all surface water flowing to or diverted toward construction entrances shall be piped through the entrance, maintaining positive drainage. Pipe installed through the stabilized construction entrance shall be protected with a mountable berm 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.



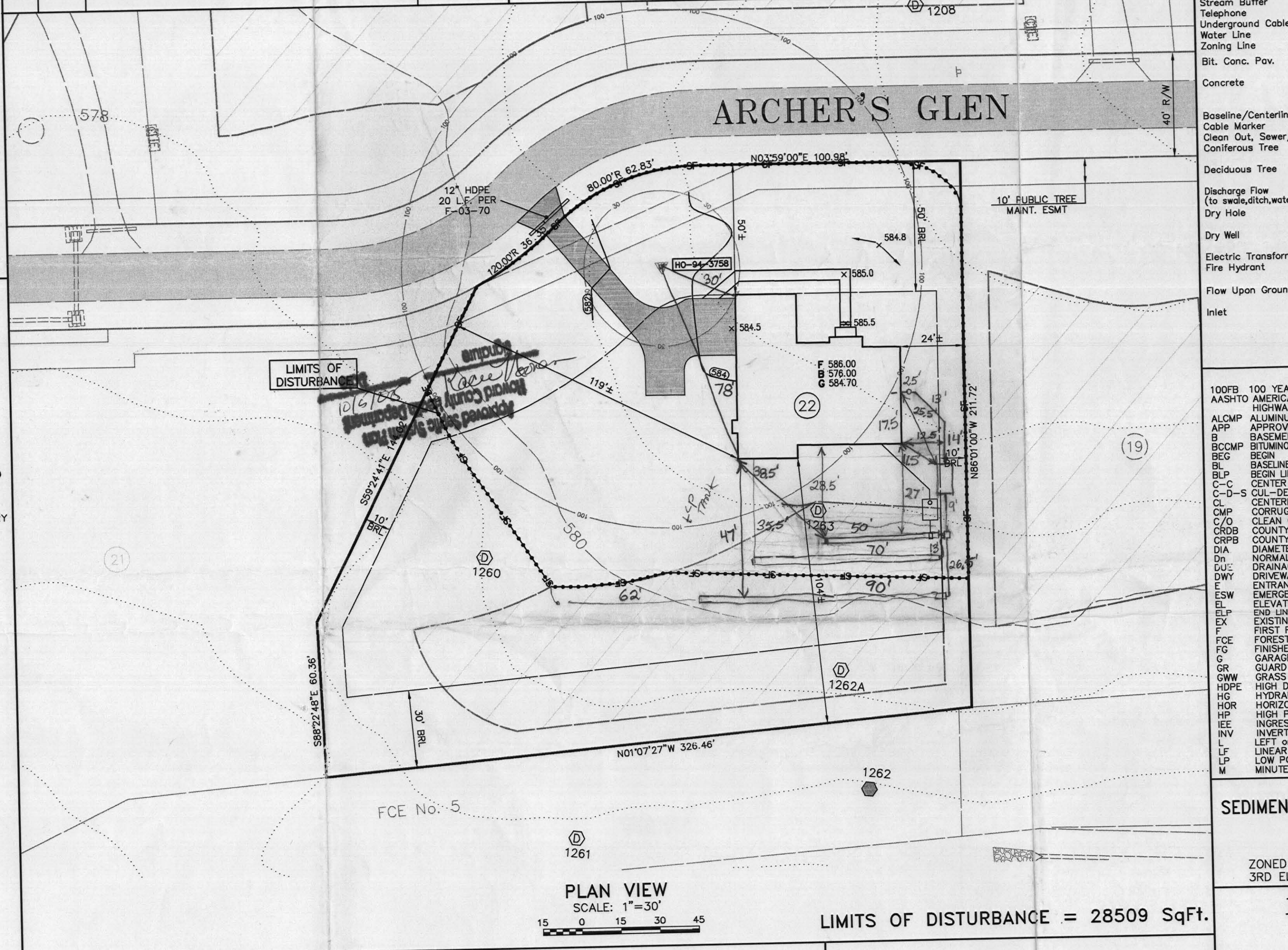
SEPTIC SYSTEM DATA

Table with columns: Structure, Ex. Ground, Finished Ground, Inv. In, Inv. Out, Bottom of Trench, Length, Remarks. Lists Septic Tank, Distribution Box, Trench #1, and Trench #2.



LEGEND: Existing and Proposed symbols for Cable Line, Center Line Rd, Curb, Easement, Electric, Edge of Rd, Edge of Shoulder, Feature separation distance in feet, Fenceline, FIRM 100 Yr. Flood Boundary, Flood Boundary 500 Yr., Flood Boundary 100 Yr., Floodway, Forest, Forest Cons. Eamt., Flow Line (Swale, Ditch, Waterway), Gas Line, Guardrail, Ind. Contours, Int. Contours, Limits of Disturbance, Lot Line, Municipal Boundary, Overhead Lines, Plot Outline, Right-Of-Way Line, Septic Area, Set Back Line, Sewer, Soil Type, Storm drain, Stream, Stream Intermittent Soil Survey, Stream Buffer, Telephone, Underground Cable, Water Line, Zoning Line, Bit. Conc. Pav., Concrete, Baseline/Centerline Point, Cable Marker, Clean Out, Sewer/Drain, Confirous Tree, Deciduous Tree, Discharge Flow (to swale, ditch, waterway), Dry Hole, Dry Well, Electric Transformer, Fire Hydrant, Flow Upon Ground, Inlet, Moll Box, Meter, Pole Light, Shrub, Sign / FCE Sign, Specimen Candidate Tree, Spring Structure, Telephone Pedestal, Water Curb Box, Water Meter, Water Valve, Utility Pole w/Guy Wire, Well.

ABBREVIATIONS: 100FB 100 YEAR FLOOD BOUNDARY, AASHO NORTH AMERICAN ASSOCIATION OF STATE HIGHWAY & TRANSPORTATION OFFICIAL, ALCPM ALUMINUM CORRUGATED METAL PIPE, APP APPROVED, B BASEMENT, BECMF BITUMINOUS COATED CORRUGATED METAL PIPE, BEG BEGIN, BL BASELINE, BLP BEGIN LINEAR PROFILE, C-C CENTER TO CENTER, CUL-DE-SAC, CL CENTERLINE OR CLASS, CMP CORRUGATED METAL PIPE, CLM CLM OUT, CRDB COUNTY ROAD DEED BOOK, CRPB COUNTY ROAD PLAT BOOK, DIA DIAMETER, DN NORMAL DEPTH, DUS DRAINAGE UTILITY EASEMENT, DWY DRIVEWAY, E ELEVATION, ELEV ELEVATION, END LINEAR PROFILE, EX EXISTING GROUND LINE, FCE FIRST FLOOR ELEVATION OR FOLIO FOREST CONSERVATION EASEMENT, FG FINISHED GRADE, GC GARAGE ELEVATION, GR GUARD RAIL, GWW GRASS WATERWAY, HOPE HIGH POINT POLYETHYLENE HYDRAULIC GRADIENT, HOR HORIZONTAL, HRP HIGH POINT, IEE INGRESS & EGRESS EASEMENT, INV INVERT, LF LEFT OF LIBER, LP LOW POINT, M MINUTES, MINIMUM BUILDING LINE, NORTH AMERICA DATUM, NORTH AMERICAN VERTICAL DATUM, NOSE DOWN CURB, NOT IN CONTRACT, PAGE, PLAT BOOK, POINT OF CURVE, PERPETUAL EASEMENT FOR DRAINAGE FACILITY, PROFILE GRADE LINE, PROPERTY LINE, POINT OF TANGENT, PR PROFILE, PVT POINT OF VERTICAL CURVE, PVI POINT OF VERTICAL INTERSECTION, PWA PUBLIC WORKS AGREEMENT, Q CUBIC FEET PER SECOND, R RIGHT OF RIGHT OF WAY, RCP REINFORCED CONCRETE PIPE, SC SEWER CONNECTION, SD STORM DRAIN SHEET, SHA MARYLAND STATE HIGHWAY ADMINISTRATION, SS SANITARY SEWER, TCB TOP CONSTRUCTED BERM, TCD TOP CONSTRUCTED DAM, TOB TOP OF BERM, TOC TOP OF CURB, TOD TOP OF DAM, TOG TOP OF GRATE, TOR TOP OF RIM, TYP TYPICAL, U-I-C USE-IN-COMMON, VELOCITY FEET PER SECOND, VERT VERTICAL, WC WATER CONNECTION, WL WATERLINE, WALKOUT.



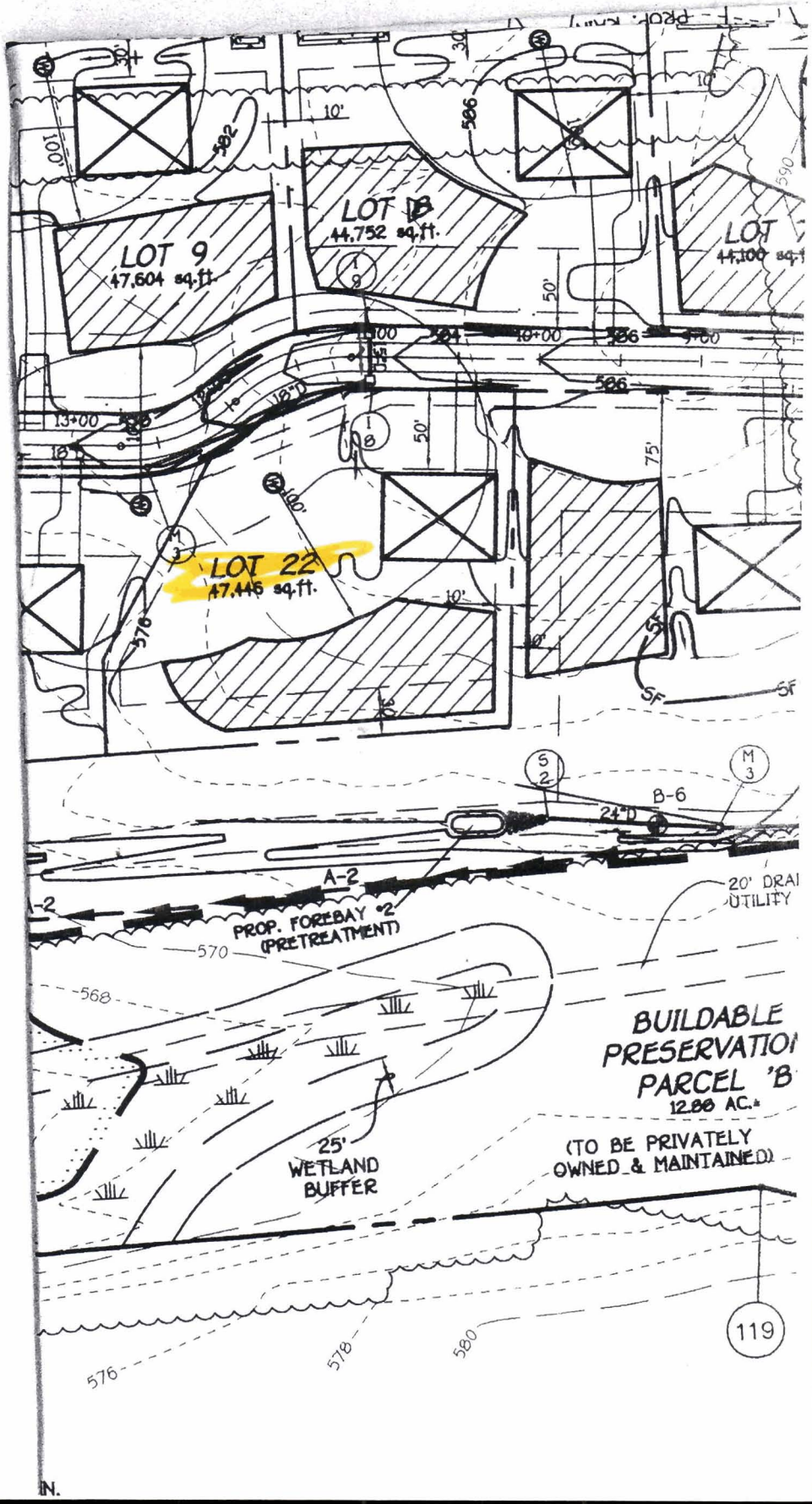
Reviewed for Howard County Soil Conservation District and meets technical requirements. U.S.D.A. Natural Resources Conservation Service Date. This Development is approved for soil erosion and sediment control by the Howard County Soil Conservation District. Approved: Howard Soil Conservation District Date.

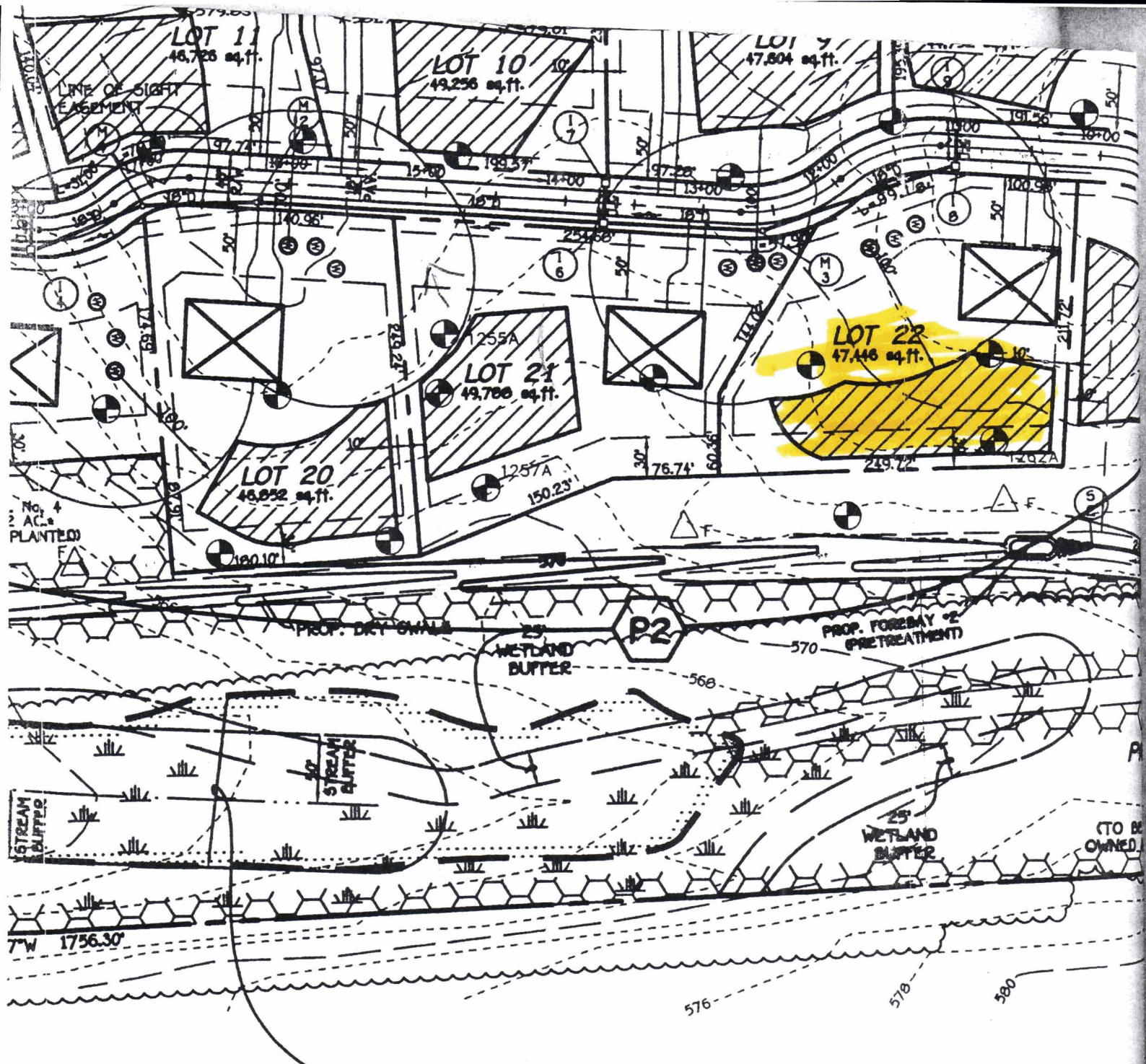
DEVELOPER'S CERTIFICATION: I/we certify that all development and construction will be done according to this plan and that any responsible personnel involved in the construction project will have a certificate of attendance at a Department of the Environment approved training program for the control of sediment and erosion before beginning the project. I also authorize periodic on-site inspection by the Howard Soil Conservation District. Signature of Developer Date.

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 Soil Conservation District. ENGINEER Date.

SITE PLAN SEDIMENT/EROSION CONTROL PLAN, NOTES & DETAILS ARCHERS GLEN LOT 22. ZONED RC-DEO 3RD ELECTION DISTRICT. PLAT NO. 16456 HOWARD COUNTY, MARYLAND. D.R.S. & ASSOCIATES LAND DESIGN CONSULTANTS. 52 WINTERS STREET WESTMINSTER, MARYLAND 21157. 410-848-4060 410-876-6040 F. 410-876-7603. REV.No. DATE BY DESCRIPTION DATE: 2005-07-18. 1 2005-08-15 DRS/mlf 3' HAWK TO BACK OF HOUSE PER DENNER O PATAPSCO HOMES. SCALE: 1"=30'. 2 2005-08-24 DRS/mlf PER HOWARD COUNTY SOIL CONSERVATION DISTRICT. SHT.NO. :1 OF 1. 3 2005-09-19 DRS/mlf PER HOWARD COUNTY HEALTH DEPARTMENT. DWG.: ST01-01. COPYRIGHT©2004 BY D.R.S. & ASSOCIATES. This document is work product of DRS & Associates and may not be copied, used, published, disseminated in whole or in part in any manner without written permission of DRS & Associates, except by governmental agencies having jurisdiction, once executed and accepted.

P-02-05

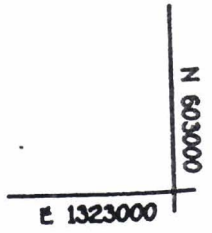




PROP. 100 YEAR FLOODPLAIN,
DRAINAGE & UTILITY
EASEMENT
3,146 AC.

.LC.

OF THE
CULTURAL
LAND
-04E



PLAN
SCALE: 1" = 100'

TENTATIVELY APPROVED
DEPT. OF PLANNING AND