

GENERAL NOTES

- Subject property zoned RR-DEO per 02/02/04 Comprehensive Zoning Plan and The "Comprehensive Lite" Zoning Amendments effective 7/28/06.
- Private water and sewer will be used within this site.
- Total area of property: 21,227 ac.
- Number of proposed buildable lots: 6
- Area of proposed buildable lots: 21,227 ac.±
- The lots shown hereon comply with the minimum ownership, width and lot area as required by the Maryland State Department of the Environment.
- This area designates a private sewage easement of at least 10,000 square feet as required by the Maryland State Department of the Environment for individual sewage disposal (COMAR 26.04.03). 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 sewage easement.
- All wells and septic fields within 100' of property's boundary have been shown.
- All percolation test holes and their elevations have been filed by FSH Associates.
- On-site topography and existing utilities are based on a Field Run Survey prepared by FSH Associates dated 05/04/05. Off-site and non-critical topography based on Howard County 1993 Aerial Topographic Surveys with five foot contours.
- All wells to be drilled prior to submittal of final plat for signature. It is the developer's responsibility to schedule the well drilling prior to final plat submission. It will not be considered "government delay" if the well drilling holds up the Health Department signature of the record plat.
- The project is not within the metropolitan district.
- The project is in conformance with and all construction shall be in accordance with the latest Howard County standards and specifications, plus MSHA standards and specifications if applicable unless waivers have been approved.
- The coordinates shown hereon are based upon the Howard County Geodetic Control which is based on the Maryland State Plane Coordinate system. Howard County monument numbers 401A and 45CA were used for this project.
- Boundary survey prepared by FSH Associates on or about 05/04/05.
- A.P.F.O Traffic Study prepared by Street Traffic Studies Ltd. on 02/24/05, and approved on July 14, 2005 under SP-05-020.
- Operating Speed Study along Browns Bridge Road prepared by Street Traffic Studies Ltd. on 04/01/05.
- Forest Stand Delineation and Forest Conservation Plan prepared by Exploration Research Inc. and approved on October 14, 2005 under SP-05-020.
- Wetlands Evaluation prepared by Exploration Research Inc. There are no wetlands on-site.
- On July 22, 2005, the Planning Director approved Waiver Petition NP-05-137 from Section 16.120(b)(4)(iii)(b) to allow floodplain, streams, wetlands and their buffers and a forest conservation easement on lots less than 10Ac. in size. Subject to the following conditions:
 a) Lots 1,3,4 and 5 will be allowed to create a forest conservation easement for tree retention only;
 b) a 35-foot setback to be provided from the edge of the forest easement;
 c) developer shall post the forest conservation signage during the construction of the driveway;
 d) the 60,000 square-foot policy for forest conservation shall not be allowed to be applied to this site;
 e) the distance between the proposed house location and the environmentally sensitive features shall be maximized to the extent possible.
- This plan is subject to the Amended Fifth Edition of the subdivision and Land Development Regulations per Council Bill 45-2003 and the Zoning Regulations as amended by CB 75-2003. Development or construction of these lots must comply with setback and buffer regulations in effect at the time of submission of the waiver petition application, or building/grading permit.
- On September 14, 2005 Chief Development Engineering Division approved a waiver from Section 2.3.1B in Design Manual Volume III to allow the height of object for a stopping sight distance analysis to be 2 feet instead of 6 inches, as outlined in "AASHTO a policy on Geometric Design of Highways and Streets 2001, Fourth Edition".
- The contractor shall notify the Department of Public Works/Bureau of Engineering/Construction Inspection Division at (410)313-1880 at least five (5) working days prior to the start of work.
- The contractor shall notify "Miss Utility" at 1-800-257-7777 at least 48 hours prior to any excavation work being done.
- Stormwater Management Recharge (Rev) and water quality (WQ) has been provided through the use of Roof-top and Non-Roof-top Disconnects and Grass Channels (all three are non-structural design credits within the MD SWM Design Manual.) Stormwater Channel Protection is not required due to less than 2.0 c.f.s. of runoff on the post-development one (1) year storm event. Stormwater Overbank Flood Protection (10 year management) and Extreme Flood Volume (100 year management) are not required for this development. All provided Rev and WQ SWM measures shall be privately owned and maintained.
- The flood plan for this project was prepared by FSH Associates, dated August 25, 2005 and approved with the preliminary equivalent sketch plan (SP-05-020) on October 14, 2005.
- There are no wetlands on this site.
- The preliminary equivalent Sketch Plan (SP-05-020) was approved on October 14, 2005.
- Traffic control devices, markings and signing shall be in accordance with the latest edition of the Manual of Uniform Traffic Control Devices (MUTCD). All street and regulatory signs shall be in place prior to the placement of any asphalt.
- No grading, removal of vegetative cover or trees, paving and new structures shall be permitted within the limits of wetlands, stream(s), or their required buffers, flood plain and forest conservation easement areas.
- For flag or pipestem lots, refuse collection, snow removal and road maintenance are provided to the junction of the flag or pipestem and road right-of-way line and not onto the pipestem lot driveway.
- The Forest Conservation Easement has been established to fulfill the requirements of Section 16.120 of the Howard County Code and Forest Conservation Act. No clearing, grading or construction is permitted within the Forest Conservation Easement; however, Forest Management Practices as defined in the Deed of Forest Conservation Easement are allowed.
- The Forest Conservation Plan has been prepared in accordance with the Howard County Forest Conservation Act of 1991 and has been met by 2.55 acres retention and 2.19 acres off site in The Clarks Meadow, F-06-29, Forest Conservation Bank. Surety in the amount of \$22,215.60 will be posted prior to plat recordation. 2.55 Ac retention= 111,078 @ \$80.20/sf= \$22,215.60.
- Reservation of Public Utility and Forest Conservation Easements Developer reserves unto itself, its successors and assigns, all easements shown on this plan for water, sewer, storm drainage, other public utilities and forest conservation (designated as "Forest Conservation Area"), located in, on over and through lots/parcels, any conveyances of the aforesaid lots/parcels shall be subject to the easements herein reserved, whether or not expressly stated in the deed(s) conveying said lot(s)/parcels. Developer shall execute and deliver deeds for the easements herein reserved to Howard County with a metes and bounds description of the forest conservation area. Upon completion of the public utilities and their acceptance by Howard County, and in the case of the forest conservation easement(s), upon completion the developer's obligations under the forest conservation installation and maintenance agreement executed by the developer and the County, and the release of developer's surety with said agreement. The County shall accept the easements and record the deed(s) of easement in the Land Records of Howard County.
- Landscaping for Lot(s) 1-6 is provided in accordance with a certified Landscape Plan and is included with this road construction plan set in accordance with Section 16.124 of the Howard County code and the Landscape Manual. Financial surety in the amount of \$16,500 (55 shade trees at \$300 per shade tree) will be part of the Grading Permit.

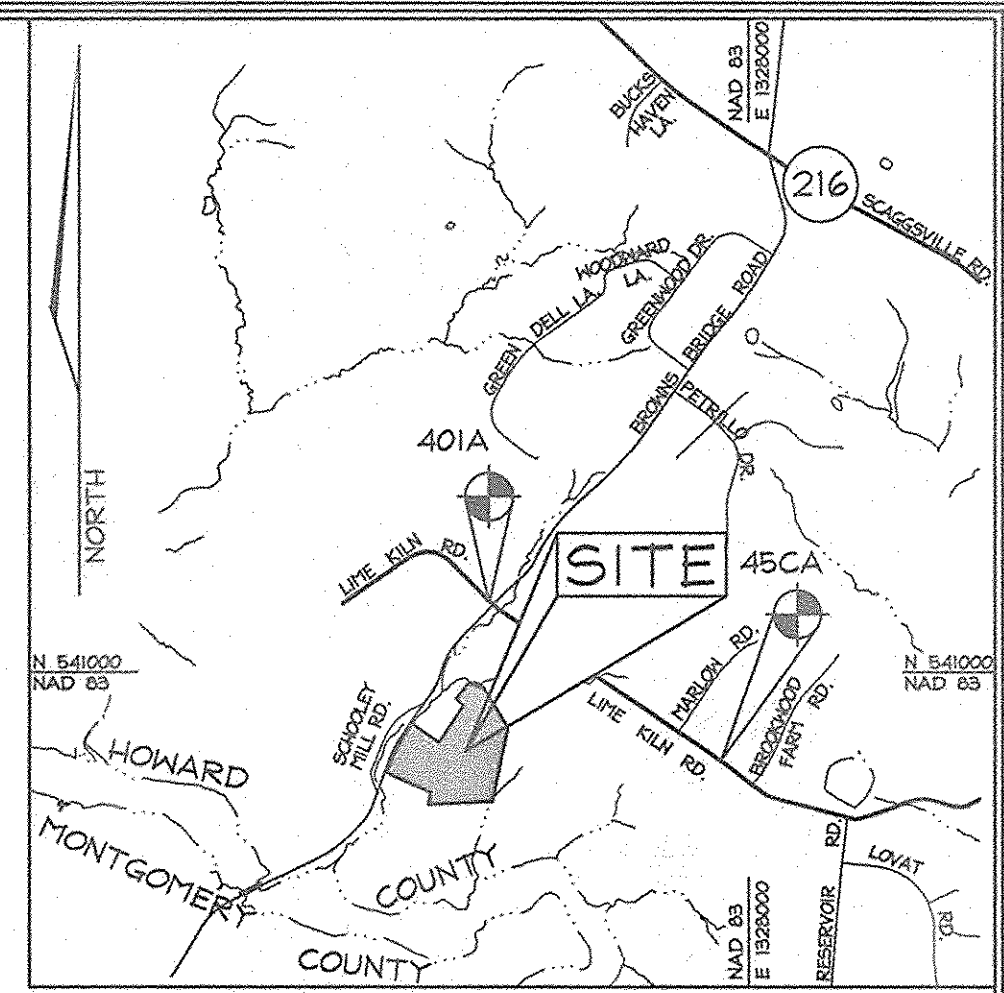
FINAL FOREST CONSERVATION, LANDSCAPING, AND ROAD CONSTRUCTION PLANS

J. THOMPSON PROPERTY

LOTS 1 THRU 6

LEGEND

- Stream Bank Buffer — SB —
- Stream ————
- Proposed Septic Easement [Hatched Box]
- Existing Septic Easement [Hatched Box]
- Proposed Dwelling [House Icon]
- Forest Conservation Easement Deterioration Area [Dotted Box]



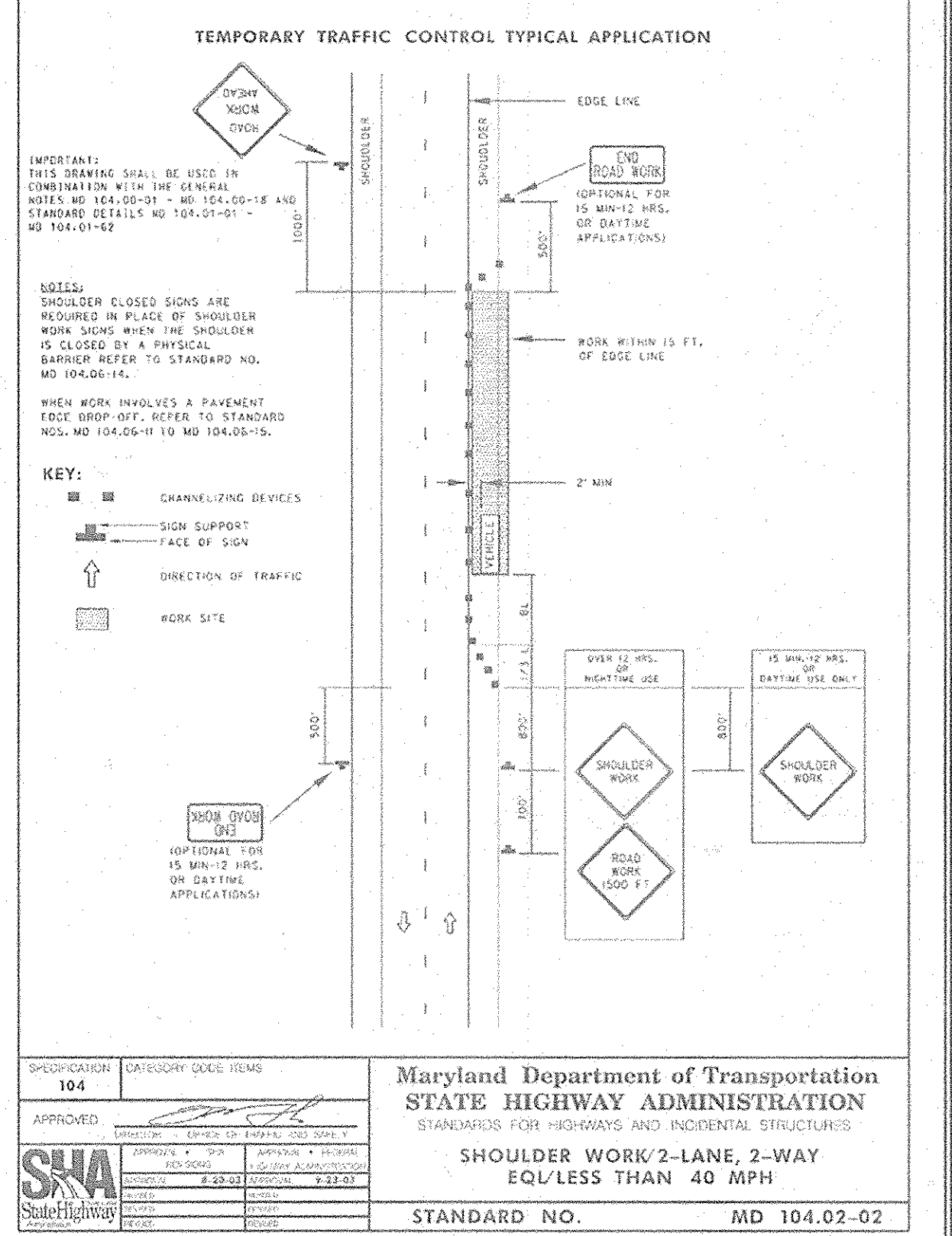
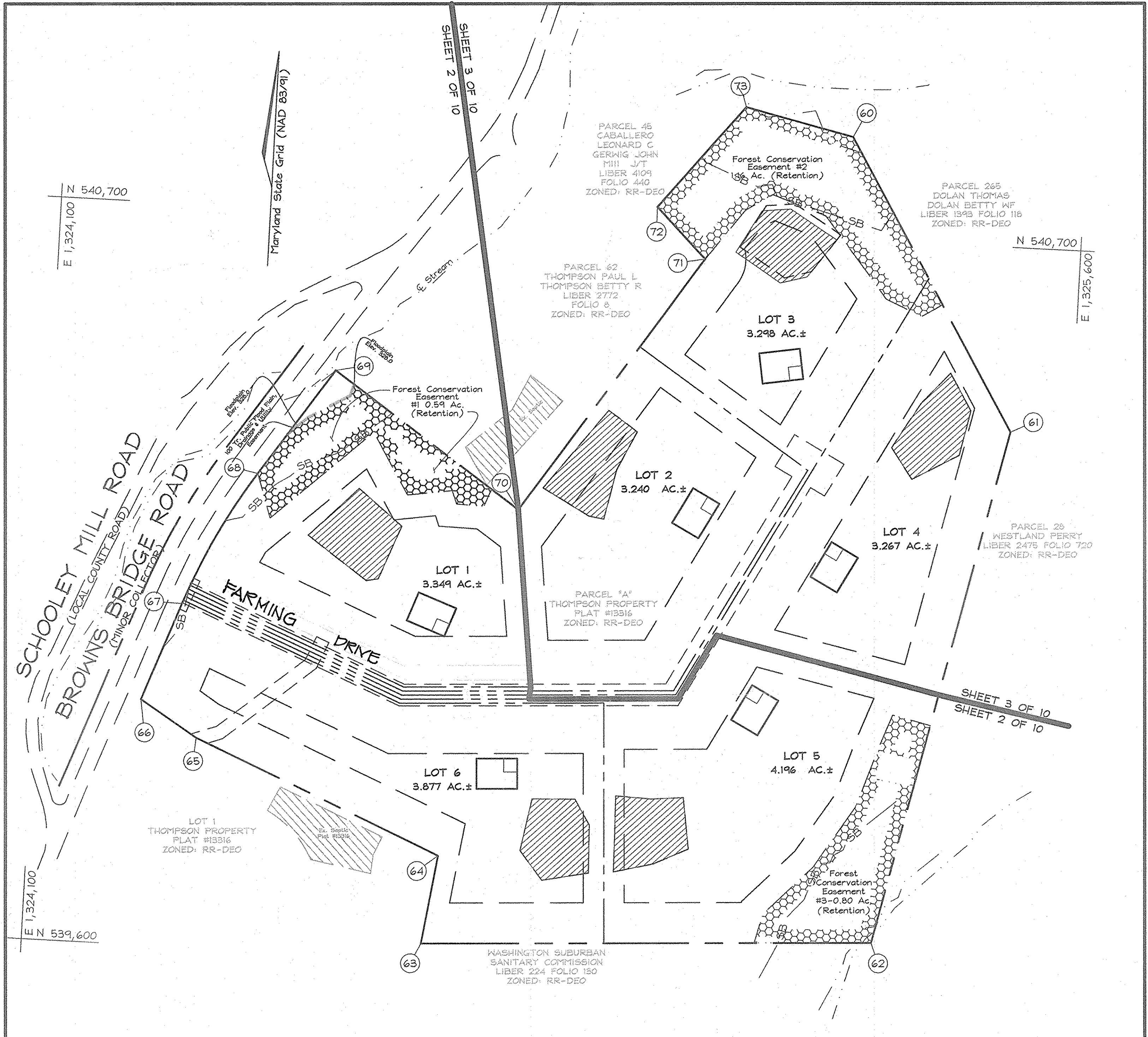
VICINITY MAP
SCALE: 1"=2000'

BENCHMARKS

Sta. 401A	N 541,725.800	E 1,325,316.889	El.: 360.066 (feet)
Sta. 45CA	N 540,071.002	E 1,327,702.745	El.: 426.811 (feet)

SHEET INDEX

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Final Forest Conservation Plan	10 of 10



DEVELOPER/ CONTRACT PURCHASER
 HAILEY DEVELOPMENT LC
 3905 National Drive, Suite 105
 Burtonville, Maryland 20866
 Telephone: (301) 476-7716

OWNER
 JENNIE M. THOMPSON
 8067 Browns Bridge Road
 Highland, Maryland 20777

MINIMUM LOT SIZE CHART

LOT NUMBER	GROSS AREA (AC)	PIPESTEM AREA (AC)	MINIMUM LOT SIZE (AC)
2	3.240±	0.075±	3.165±
3	3.298±	0.16±	3.142±
4	3.267±	0.119±	3.148±
5	4.198±	0.090±	4.108±

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

[Signature] 2/12/07
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

[Signature] 2/12/07
 CHIEF, DIVISION OF LAND DEVELOPMENT DATE

LOCATION MAP
SCALE: 1"=100'

COVER SHEET
J. THOMPSON PROPERTY
LOTS 1 THRU 6
 (A RESUBDIVISION OF NON-BUILDABLE PARCEL 'A'
 THOMPSON PROPERTY PLAT #13316)

TAX MAP 45 GRID 5
 5TH ELECTION DISTRICT

HOWARD COUNTY, MARYLAND

FSH Associates
 Engineers Planners Surveyors
 6329 Howard Lane Elkridge, MD 21075
 Tel: 410-587-5200 Fax: 410-796-1562
 E-mail: info@fshcorp.com

DESIGN BY: MT
 DRAWN BY: HK/MT/CW
 CHECKED BY: ZYE
 SCALE: As Shown
 DATE: Jan. 30, 2007
 W.O. No.: 3289
 SHEET No.: 1 OF 10

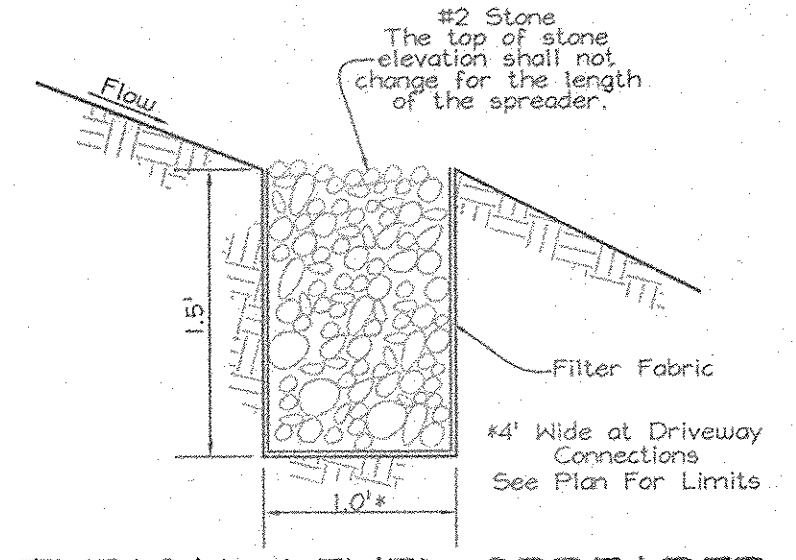
SYMBOL	NAME / DESCRIPTION	SOIL GROUP
GIB2	Glencol loam, 3 to 8 percent slopes, moderately eroded	B
GnB2	Glennville silt loam, 3 to 8 percent slopes, moderately eroded	C
MIC2	Minor loam, 8 to 15 percent slopes, moderately eroded	B
MIC3	Minor loam, 8 to 15 percent slopes, severely eroded	B
MID3	Minor loam, 15 to 25 percent slopes, severely eroded	B
MIE	Minor loam, 25 to 45 percent slopes	B

LEGEND	
Erosion Control Matting	ECM
25% or greater slopes	[Symbol]
15% - 24.9% slopes	[Symbol]
Impervious Area	[Symbol]
Landscape Perimeter	PERIMETER ONE
Proposed Landscape Tree	[Symbol]
Temporary Swale (T.S.)	[Symbol]
Grass Channel	[Symbol]
Level Spreader	[Symbol]
Existing Contour	---
Proposed Contour	- - -
Existing Spot Elevation	322.3
Proposed Spot Elevation	+322.3
Direction of Flow	[Symbol]
Existing Trees to Remain	[Symbol]
Light Poles	[Symbol]
Utility Pole	[Symbol]
Check Dam	[Symbol]
Stabilized Construction Entrance	[Symbol]
Super Silt Fence	SSF
Silt Fence	SF
Limit of Disturbance	LOD
Tree Protection Fence	TPF
Existing well	[Symbol]
Rooftop Disconnect	[Symbol]

*Note: All level spreaders and grass channels to be installed by builder for each lot under plot plan.



STONE OUTLET SEDIMENT TRAP-ST II
DRAINAGE AREA = 1.97 AC +/-
STORAGE REQUIRED = 7200 CU.FT.
STORAGE PROVIDED = 9,950 CU.FT.
NET LENGTH = 10'
BOTTOM ELEV. = 352.00
CLEANOUT ELEV. = 354.00
OUTLET ELEV. = 356.00
NEAR CREST ELEV. = 359.00
TOP OF EMBANKMENT ELEV. = 339.00



TYPICAL LEVEL SPREADER CROSS SECTION
NOT TO SCALE
See plan for level spreader lengths

DEVELOPER/
CONTRACT PURCHASER
HAILY DEVELOPMENT LC
3405 National Drive, Suite 105
Burtansville, Maryland 20866
Telephone: (301) 476-7715

OWNER
JENNIE M. THOMPSON
6067 Browns Bridge Road
Highland, Maryland 20777

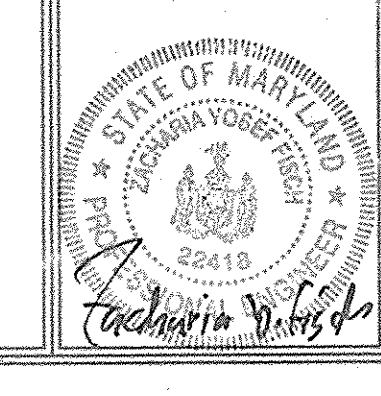
GRADING AND SEDIMENT AND
EROSION CONTROL PLAN
J. THOMPSON PROPERTY
LOTS 1 THRU 6
(A RESUBDIVISION OF NON-BUILDABLE PARCEL 'A'
THOMPSON PROPERTY PLAT #13316)
TAX MAP 45 GRID 5 PARCEL 13
5TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND

DEVELOPER'S CERTIFICATE
I HEREBY CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN FOR SEDIMENT AND EROSION CONTROL AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION OF THE 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.
Richard Thometz, Manager
Hailey Development, L.C.
1/30/07 DATE

REVIEWED FOR HOWARD SCD AND MEETS TECHNICAL REQUIREMENTS.
John V. Whitson
NSDA-NATURAL RESOURCES CONSERVATION SERVICE
2/8/07 DATE
THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
John V. Whitson
HOWARD SOIL CONSERVATION DISTRICT
2/8/07 DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
ZONING
[Signature]
CHIEF, DEVELOPMENT ENGINEERING DIVISION
2/12/07 DATE
[Signature]
CHIEF, DIVISION OF LAND DEVELOPMENT
2/12/07 DATE

ENGINEERS CERTIFICATE
I CERTIFY THAT THIS PLAN FOR SEDIMENT AND EROSION 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.
Zacharia Y. Fisch
1/30/07 DATE



FSH Associates
Engineers Planners Surveyors
6339 Howard Lane Elkridge, MD 21075
Tel. 410-567-5200 Fax: 410-796-1562
E-mail: info@fshnet.com

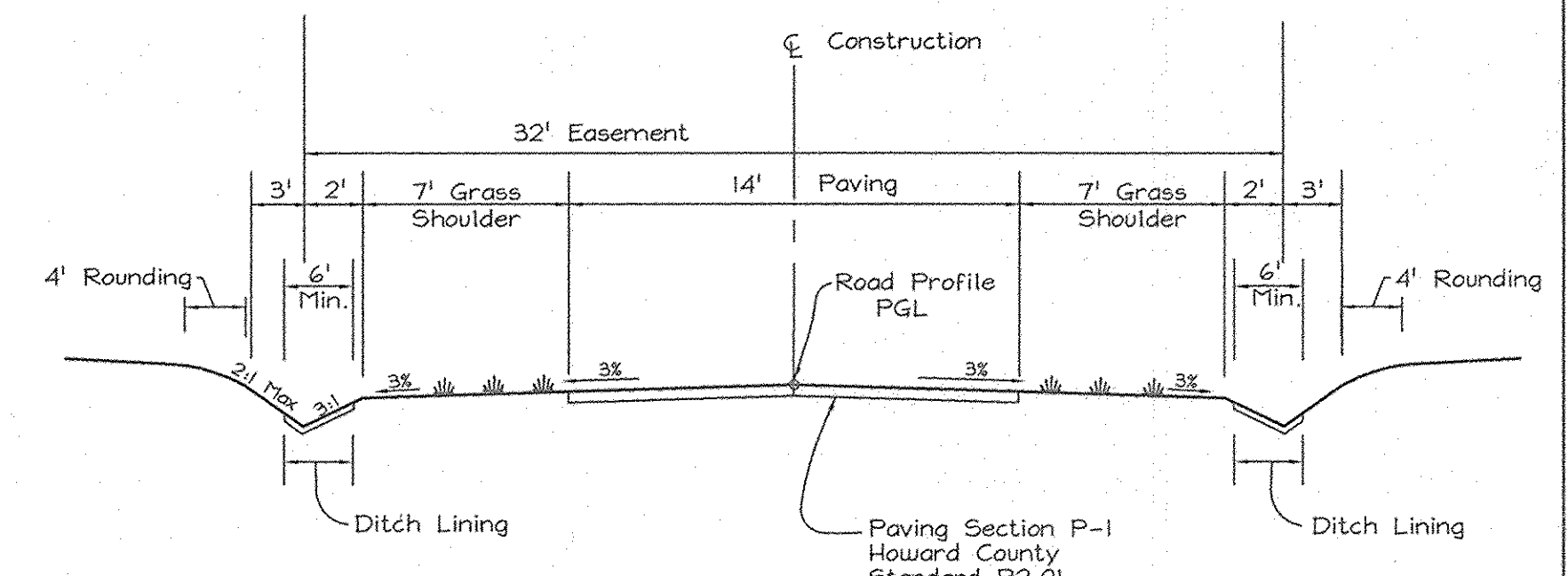
DESIGN BY: MT
DRAWN BY: RL
CHECKED BY: ZYF
SCALE: 1"=50'
DATE: Jan 30, 2007
H.O. No.: 3288
SHEET No. 2 OF 10



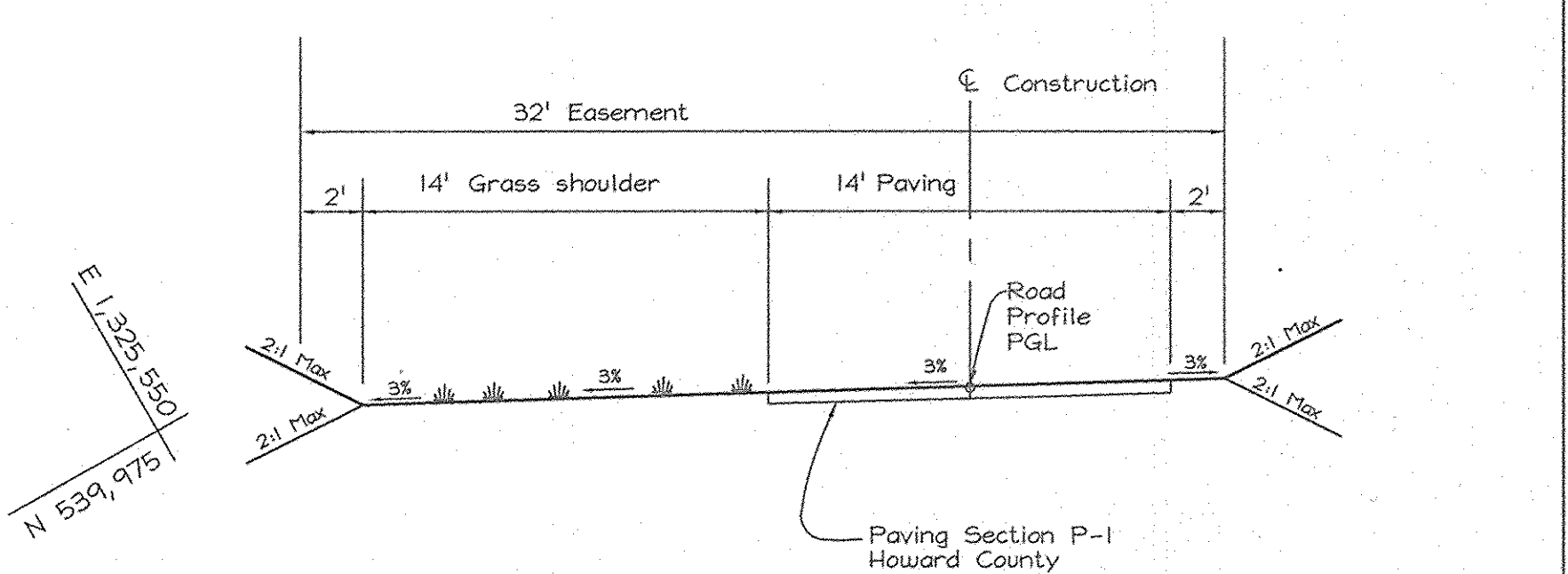
LEGEND

Existing Contour	---382---	25% or greater slopes	
Proposed Contour	---382---	15% - 24.99% slopes	
Existing Spot Elevation	382.3	Impervious Area	
Proposed Spot Elevation	+82.52	Level Spreader	
Direction of Flow		Forest Conservation Easement	
Existing Trees to Remain		Landscape Perimeter	
Light Poles	☆	Proposed Landscape Trees	
Utility Pole	⊙	Erosion Control Matting	
Super Silt Fence	---S8F---S8F---	Temporary Swale	
Silt Fence	---S8F---S8F---	Proposed House	
Limit of Disturbance	---L0D---L0D---	Stabilized Construction Entrance	
Soils Line	---EKB2---	Walk Out Basement	
Existing Well	⊙		
Existing perc	⊙600		
Rooftop Disconnect	--->>>---		

*Note: All level spreaders and grass channels to be installed by builder for each lot under plot plan.



TYPICAL USE-IN-COMMON ACCESS DRIVEWAY SECTION
 CLASSIFICATION: USE-IN-COMMON DRIVEWAY
 FROM STA. 0+00 TO 7+60
 NOT TO SCALE



TYPICAL USE-IN-COMMON ACCESS DRIVEWAY SECTION
 CLASSIFICATION: USE-IN-COMMON DRIVEWAY
 FROM STA. 7+60 TO 11+73.68
 NOT TO SCALE

DEVELOPER/ CONTRACT PURCHASER
 HAILEY DEVELOPMENT LC
 3905 National Drive, Suite 105
 Burtonville, Maryland 20866
 Telephone: (301) 476-7715

OWNER
 JENNIE M. THOMPSON
 8067 Browns Bridge Road
 Highland, Maryland 20777

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Michael J. ... 2/12/07
 CHIEF, DEVELOPMENT ENGINEERING DIVISION
Wendy ... 2/12/07
 CHIEF, DIVISION OF LAND DEVELOPMENT

ENGINEERS CERTIFICATE

I CERTIFY THAT THIS PLAN FOR SEDIMENT AND EROSION 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.

Zacharia Y. Fisch 1/30/07
 ZACHARIA Y. FISCH

DEVELOPER'S CERTIFICATE

I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN FOR SEDIMENT AND EROSION CONTROL AND THAT ALL 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.

Richard Thometz 1/30/07
 Manager
 Hailey Development, L.C.

REVIEWED FOR HOWARD SCD AND MEETS TECHNICAL REQUIREMENTS.

John V. ... 2/8/07
 HOWARD SOIL CONSERVATION SERVICE

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

John V. ... 2/8/07
 HOWARD SOIL CONSERVATION DISTRICT

USE-IN-COMMON ACCESS DRIVEWAY CURVE DATA

FROM STA.	TO STA.	BEARING	DISTANCE	RADIUS	ARC LENGTH	DELTA	CHORD BEARING	CHORD LENGTH
0+00	3+70.43	S67°26'12"E	370.43'	N/A	N/A	N/A	N/A	N/A
3+70.43	3+90.59	N/A	N/A	45.00'	20.16'	25°40'03"	S80°16'13"E	19.99'
3+90.59	7+57.68	N86°53'45"E	367.09'	N/A	N/A	N/A	N/A	N/A
7+57.68	8+09.92	N/A	N/A	45.00'	46.24'	58°52'15"	N57°27'38"E	44.23'
8+09.92	11+73.68	N28°01'50"E	363.76'	N/A	N/A	N/A	N/A	N/A

21.0 STANDARDS AND SPECIFICATIONS FOR TOPSOIL

Definition

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

- I. This practice is limited to areas having 2:1 or flatter slopes where:
 - a. The texture of the exposed subsoil/parent material is not adequate to produce vegetative growth.
 - b. 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.
 - c. The original soil to be vegetated contains material toxic to plant growth.
 - d. The soil is so acidic that treatment with limestone is not feasible.
- II. 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

I. 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-SCS in cooperation with Maryland Agricultural Experiment Station.

II. Topsoil Specifications - Soil to be used as topsoil must meet the following:

I. 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 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 cinders, stones, coarse fragments, gravel, sticks, roots, trash, or other materials larger than 1 and 1/2" in diameter.

II. Topsoil must be free of plants or plant parts such as Bermuda grass, quackgrass, Johnsongrass, nutgrass, poison ivy, thistle, or others as specified.

III. Where the subsoil is either highly acidic or comprised of heavy clays, ground limestone shall be spread at the rate of 4-8 lbs/acre (200-400 pounds per 1,000 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 procedures.

IV. For sites having disturbed areas under 5 acres:

I. Place topsoil (if required) and apply soil amendments as specified in **20.0 Vegetative Stabilization - Section I - Vegetative Stabilization Methods and Materials.**

II. For sites having disturbed areas over 5 acres:

- a. Soil remaining topsoil specifications obtain test results dictating fertilizer and lime amendments required to bring the soil into compliance with the following:
 - i. A pH for topsoil shall be between 6.0 and 7.5. If the tested soil demonstrates a pH of less than 6.0, sufficient lime is prescribed to raise the pH to 6.5 or higher.
 - ii. Organic content of topsoil shall be not less than 15 percent by weight.
 - iii. Topsoil having soluble salt content greater than 500 parts per million shall not be used.
 - iv. No sod or seed shall be placed on soil which has been treated with soil sterilants or chemicals used for weed control until sufficient time has elapsed (14 days min.) to permit dissipation of phyto-toxic materials.

NOTE: Topsoil substitutes or amendments, as recommended by a qualified agronomist or soil scientist and approved by the appropriate approval authority, may be used in lieu of natural topsoil.

III. Place topsoil (if required) and apply soil amendments specified in **20.0 Vegetative Stabilization - Section I - Vegetative Stabilization Methods and Materials.**

V. Topsoil Application

- i. 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.
- ii. Grades on the areas to be topsoiled, which have been previously established, shall be maintained, albeit 4" - 6" higher in elevation.
- iii. Topsoil shall be uniformly distributed in a 4" - 6" layer and lightly compacted to a minimum thickness of 4". 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.
- iv. 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.

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 three inches of soil by raking, disking or other acceptable means before seeding, if not previously loosened.

SOIL AMENDMENTS: In lieu of soil test recommendations, use the following schedule: Apply 2 tons per acre dolomitic limestone (92 lbs./1000 s.f.) and 400 lbs. / acre (20.7 lbs./1000s.f.) of 10-20-20 before seeding. Harrow or disc into upper 3 in. of soil.
SEEDING: Apply a mixture of Turf Type Tall Fescue (80%) and Hard Fescue (20%) in accordance with seeding dates and rates shown in the Permanent Seeding Summary shown on this sheet. For stabilization outside of the seeding dates, apply straw mulch at rates and methods specified below and apply permanent seeding when winter proper seeding dates.

TEMPORARY SEEDING NOTES

SEEDBED PREPARATION: Loosen upper three inches of soil by raking, disking or other acceptable means before seeding, if not previously loosened.

SOIL AMENDMENTS: In lieu of soil test recommendations, use the following schedule: Apply 2 tons per acre dolomitic limestone (92 lbs./1000 s.f.) and 400 lbs. / acre (19 lbs./1000s.f.) of 10-10-10 before seeding. Harrow or disc into upper 3 in. of soil.
SEEDING: Apply the Maryland State Highway Approved seed mixture of Barley or Rye plus Foxtail Millet in accordance with seeding dates and rates shown in the Temporary Seeding Summary shown on this sheet. For stabilization outside of the seeding dates, apply straw mulch at rates and methods specified below.
MULCHING: Immediately following seeding, apply a uniform 1-2 in. Deep layer of un-rotted small grain straw at a rate of 2 tons/acre. (Apply 2.5 Tons/acre if a mulch anchoring tool is used.) Straw may be anchored with wood cellulose fiber at a rate of 750 lbs. / acre mixed at a ratio of 50 lbs. of wood fibers/100 gal. of water. Synthetic liquid binders such as Terra Tax II, Acrylic DLR (Agro-Tack), DCA-70, Puroset and other approved equals may be used at rates recommended by the manufacturers.

REFER TO THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR RATE AND METHODS NOT COVERED.

SEDIMENT CONTROL NOTES

- I. A minimum of 48 hours notice must be given to the Howard County Department of Inspection, License and Permits Sediment Control Division prior to the start of any construction (313-1855).
- II. All vegetation and structural practices are to be installed according to the provisions of this plan and are to be in conformance with the 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL and revisions thereto.
- III. Following initial soil disturbance or redistribution, permanent or temporary stabilization shall be completed within (a) 7 calendar days for all perimeter sediment control structures, dikes, perimeter slopes, and all slopes greater than 3:1, (b) 14 days as to all other disturbed or graded areas on the project site.
- IV. All sediment traps/basins shown must be fenced and warning signs posted around their perimeter in accordance with Vol. 1, Chapter 7, HOWARD COUNTY DESIGN MANUAL, Storm Drainage.
- V. 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, sod, temporary seeding, and mulching (Sec. G). Temporary stabilization with mulch alone shall be done when recommended seeding dates do not allow for proper germination and establishment of grasses.
- VI. 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.
- VII. Site Analysis:

Total Area	21.23 Acres
Area Disturbed	3.52 Acres
Area to be roofed or paved	1.15 Acres
Area to be vegetatively stabilized	2.37 Acres
Total Cut	10,000 CY
Total Fill	10,000 CY
Off-site waste/borrow area location	

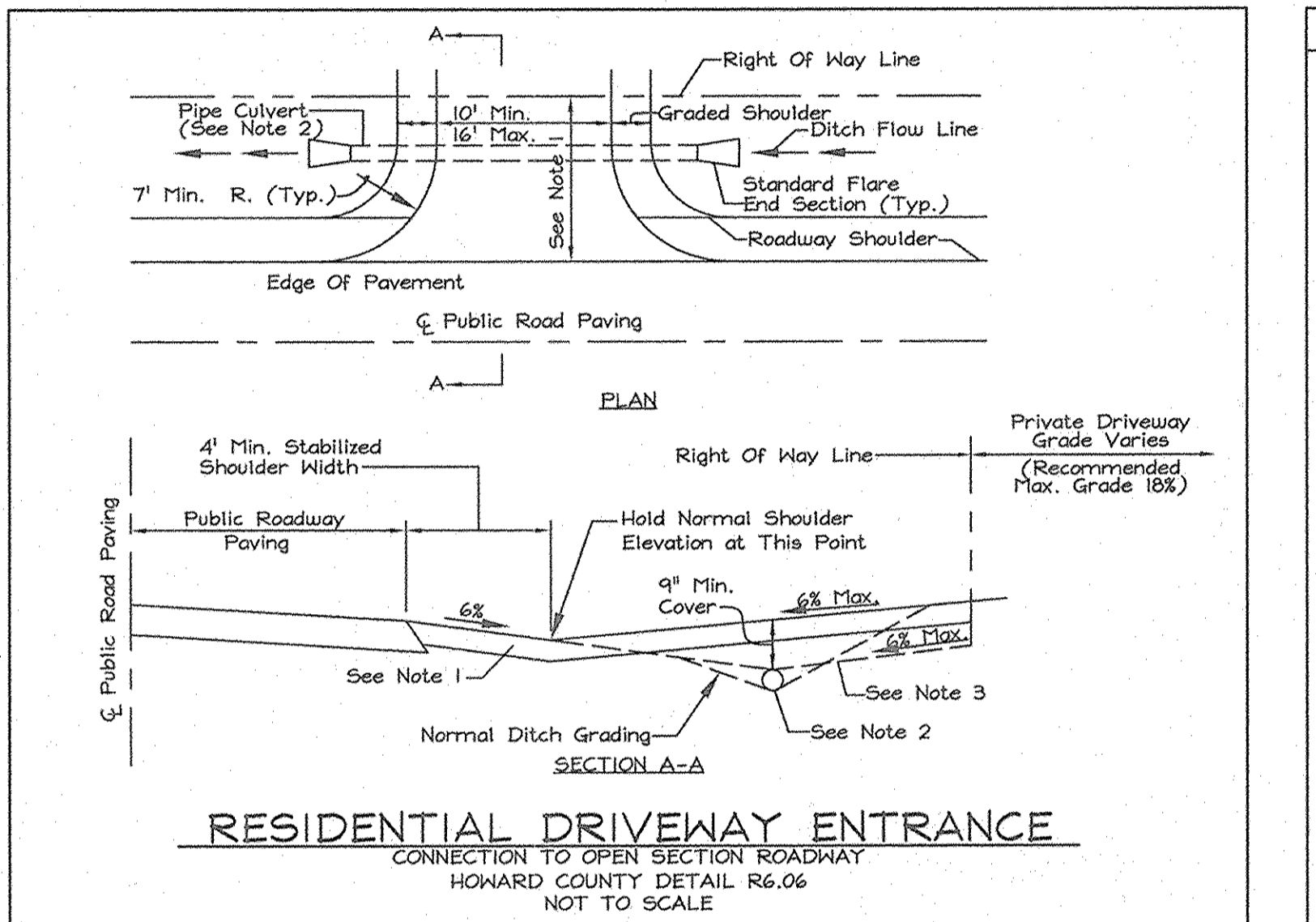
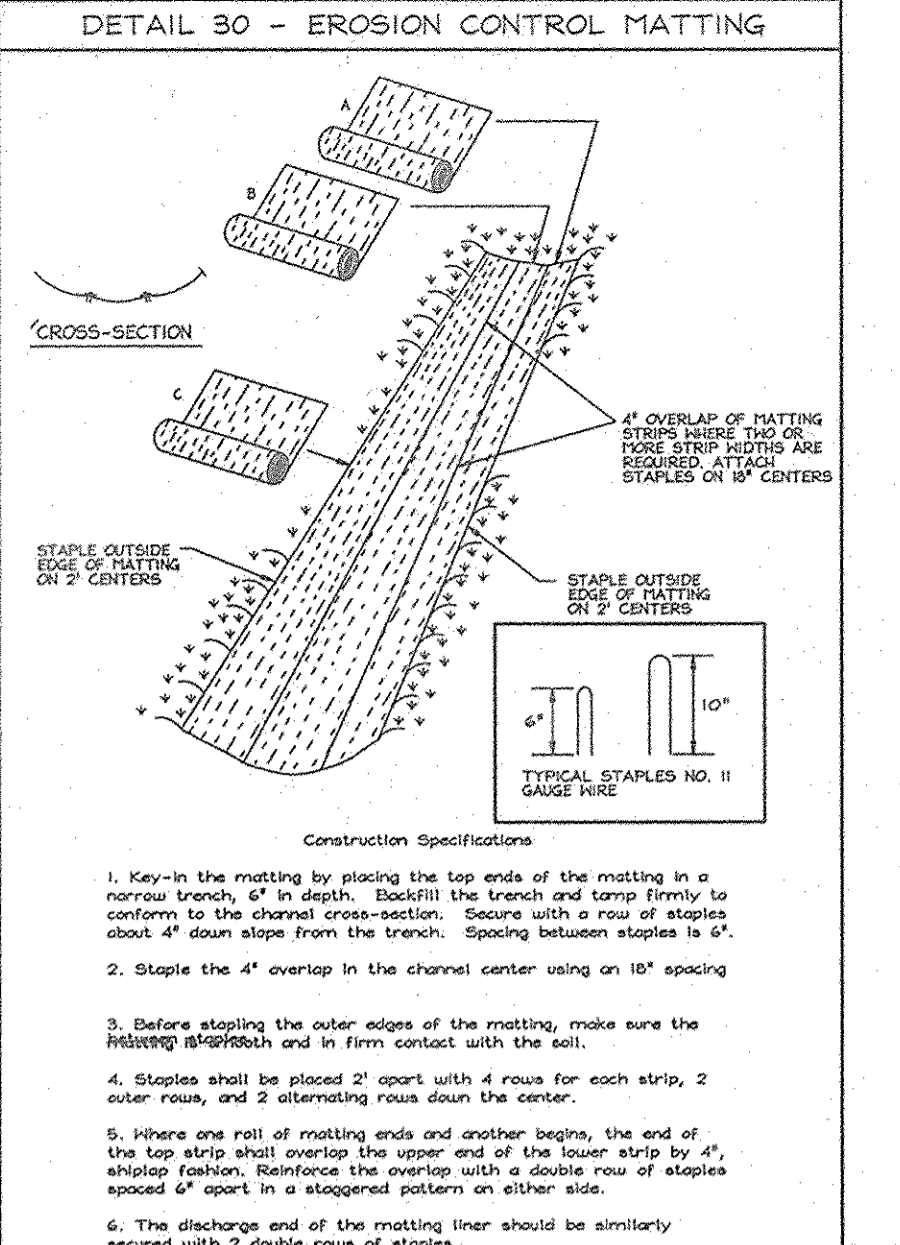
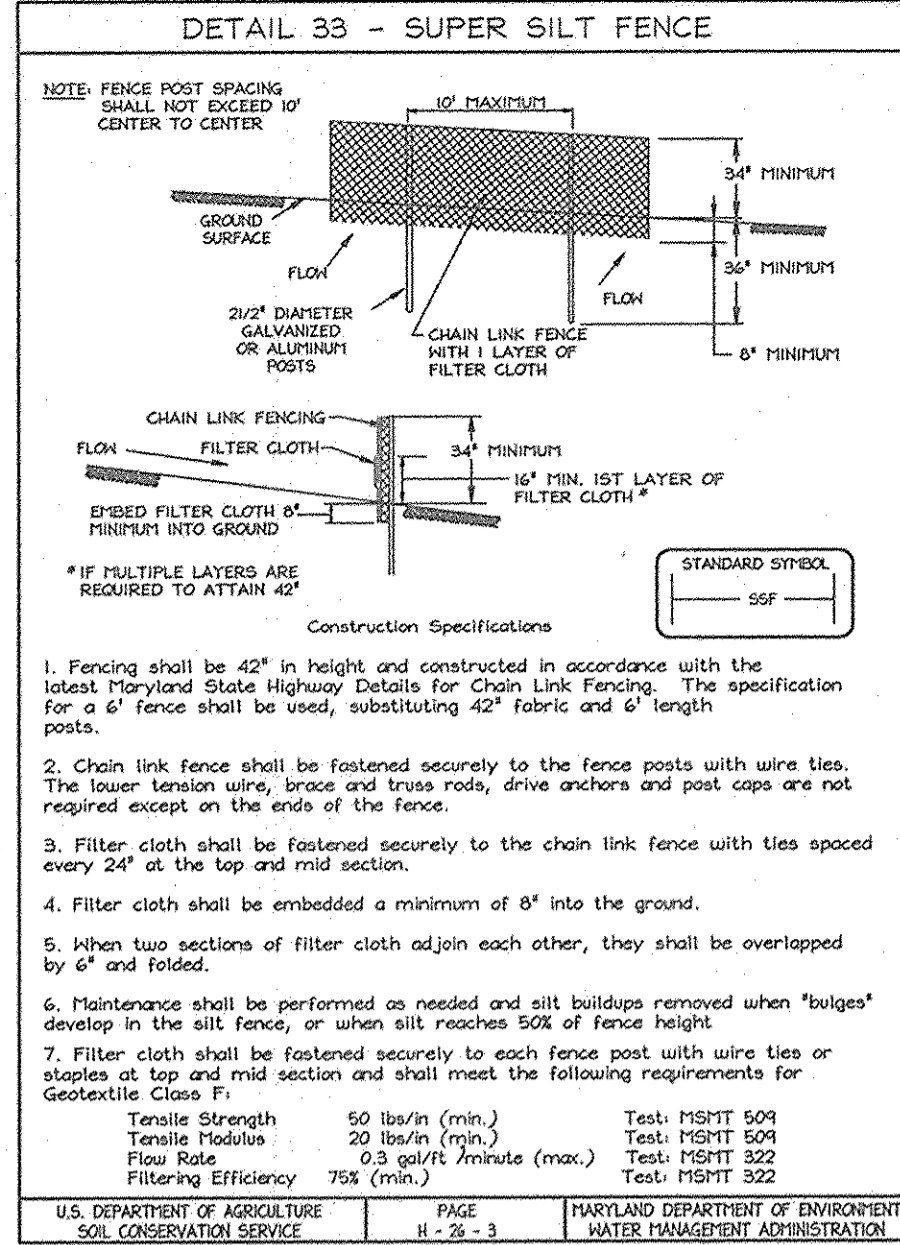
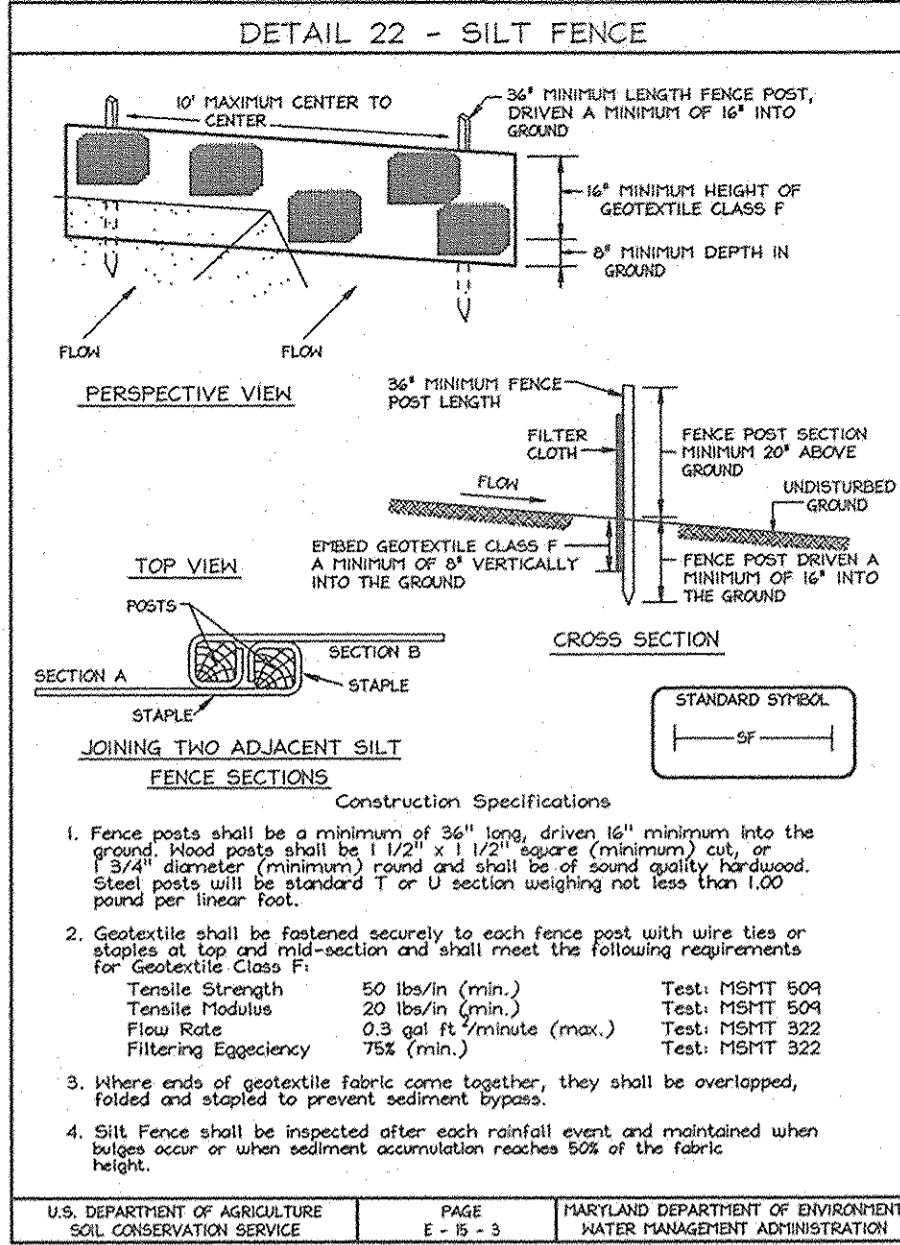
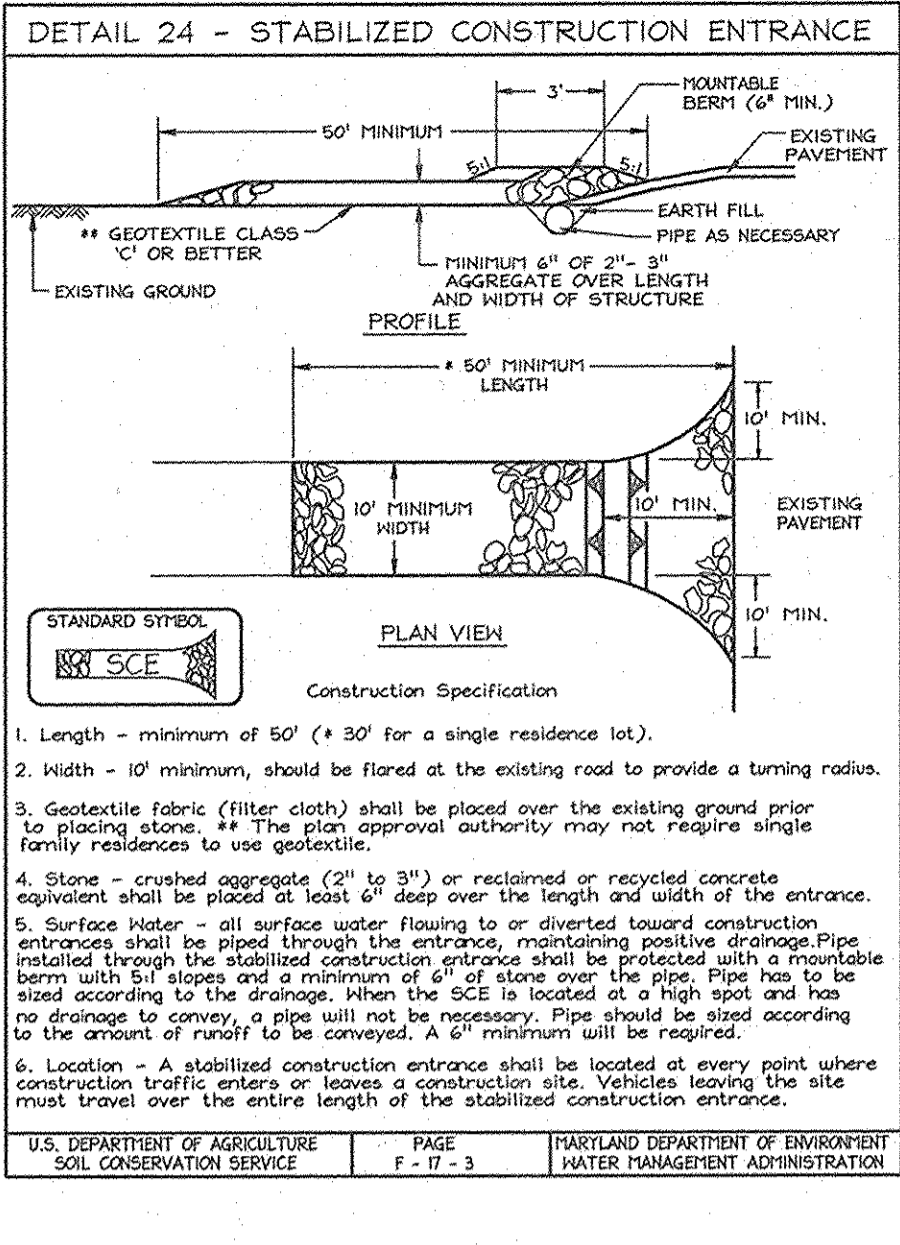
8. Any sediment control practice which is disturbed by grading activity for placement of utilities must be repaired on the same day of disturbance.
9. Additional sediment controls must be provided, if deemed necessary by the Howard County Sediment Control Inspector.
10. On all sites with disturbed areas 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
12. To be determined by contractor, with pre-approval of the Sediment Control Inspector with an approved and active grading permit.

**Total cut and fill quantities are for permit purposes only. Contractor to verify earthwork quantities.

SEQUENCE OF CONSTRUCTION

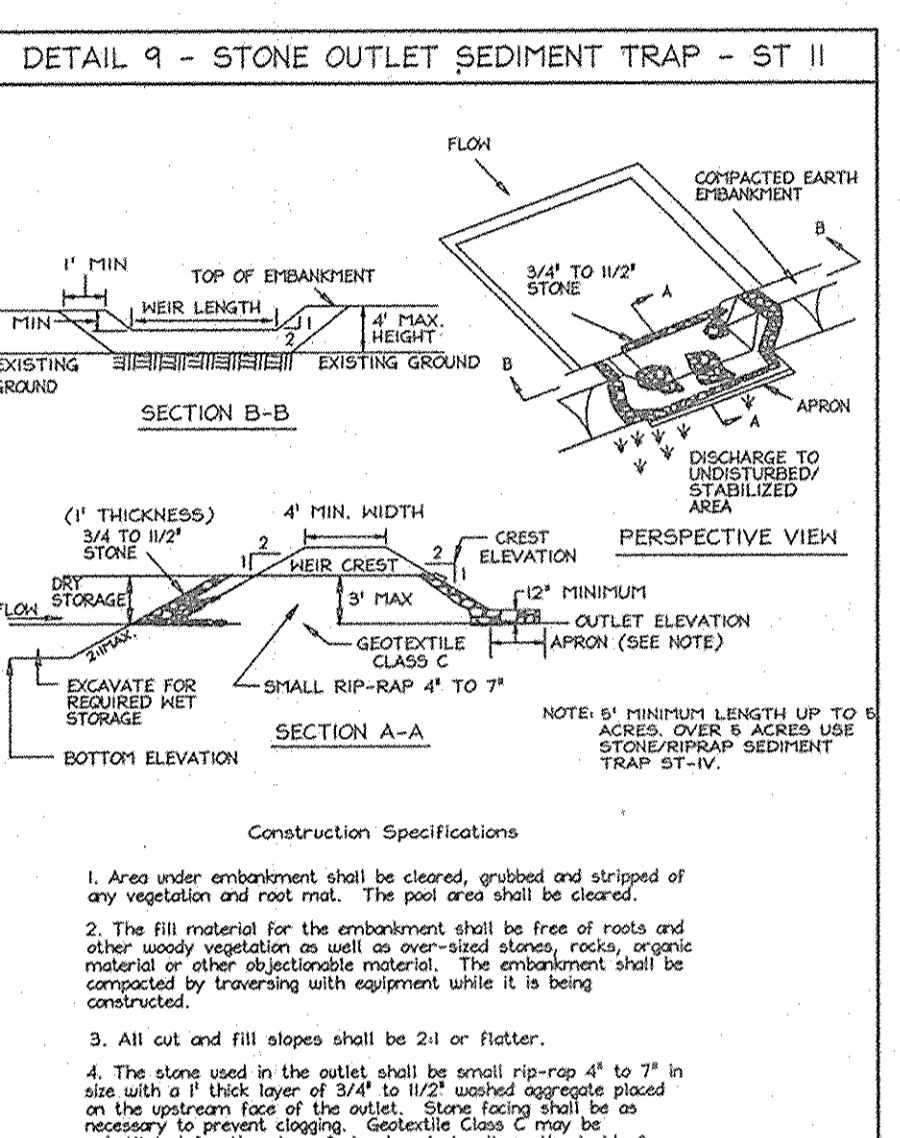
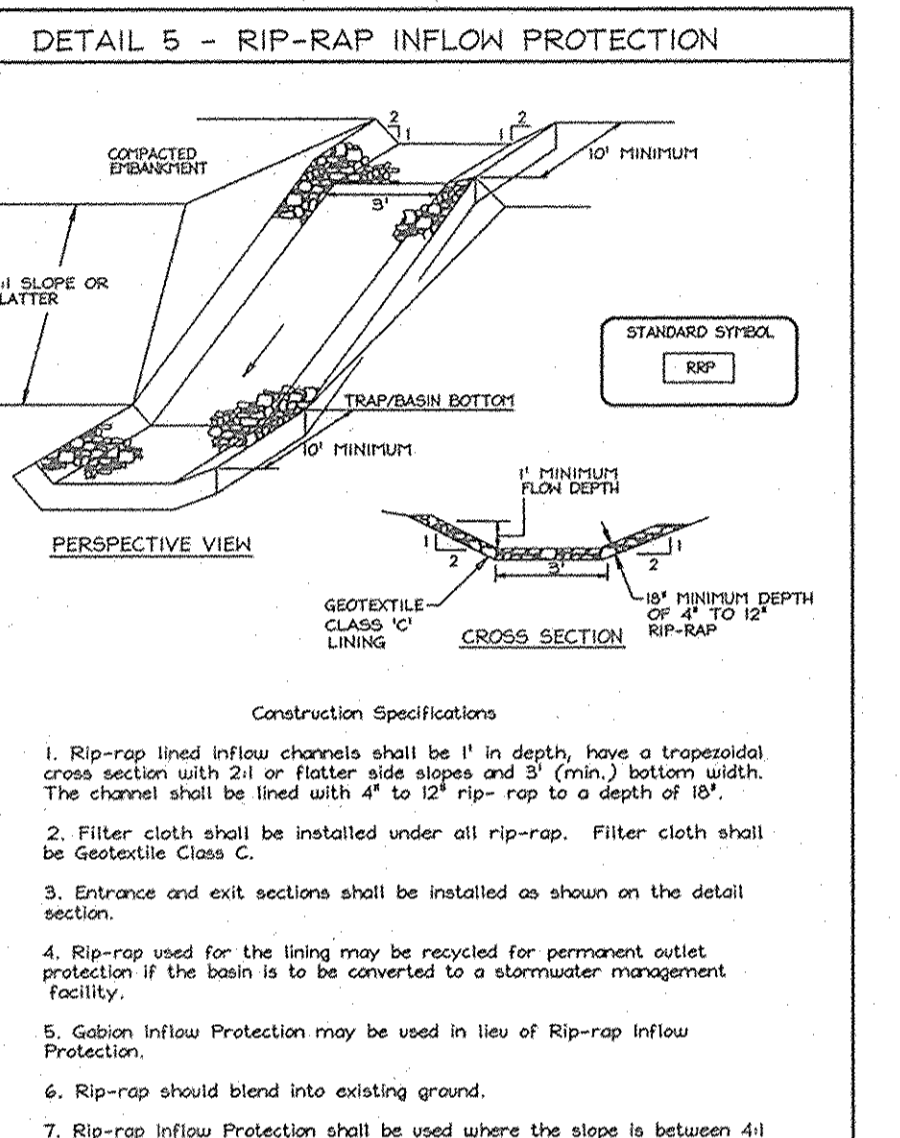
1. Obtain grading permit.
2. Notify Howard County Department of Inspections License and Permits at (410) 313-1855 and MDE Inspector (410) 537-3768 at least 24 hours before starting any work. Contact This Utility at least 48 hours before any excavation (1-800-257-7777).
3. Install Stabilized Construction Entrance, Silt Fence, Super Silt Fence, Tree Protection Fence, Stone Outlet Sediment Trap and Temporary Swales (5 days).
4. With permission of the Sediment Control Inspector remove all topsoil within areas to be disturbed and stock pile within "Stock Pile Area". Rough grade site, install storm drains, install 15' Temporary Flexible Pipe and culvert. Grade Browns Bridge Road widening and proposed Use-In-Common Access driveway to sub-base only. (1 week).
5. Fine grade site, install topsoil, seed and mulch to disturbed areas (2 days).
6. Pave Browns Bridge Road widening and proposed Use-In-Common Access driveway. (1 week).
7. With permission of Sediment Control Inspector flush storm drains, as needed, remove all sediment control measures and provide final stabilization to all areas disturbed (1 week).

*SHOW A DOUBLE ROW OF SUPER SILT FENCE FOR E.O.D. ALONG BROWNS BRIDGE ROAD *2/21/02*

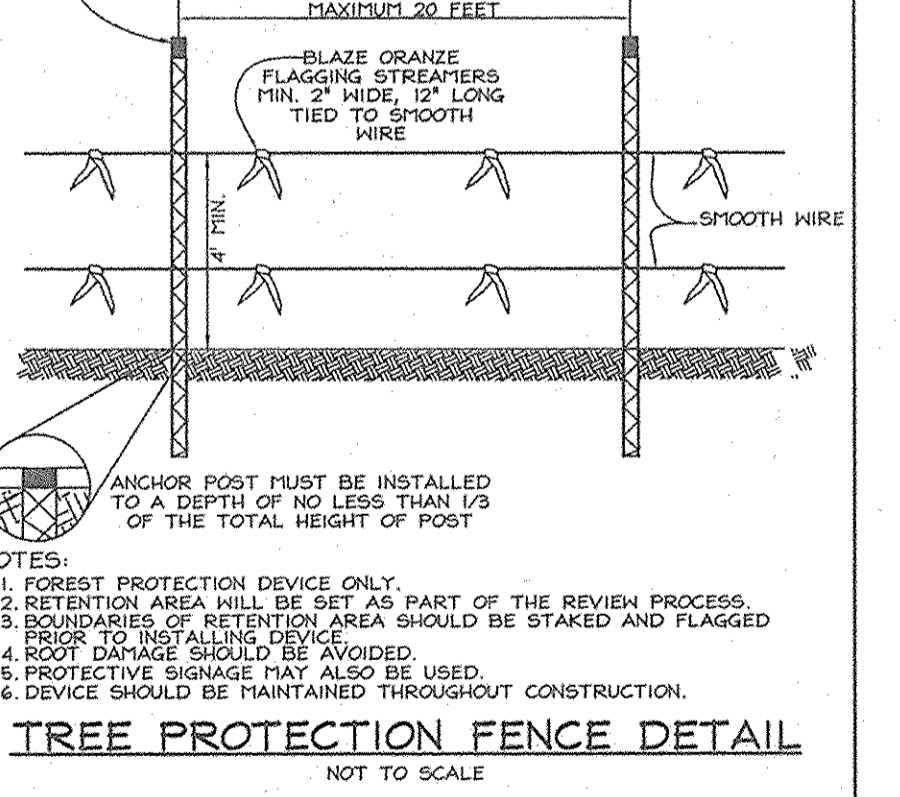
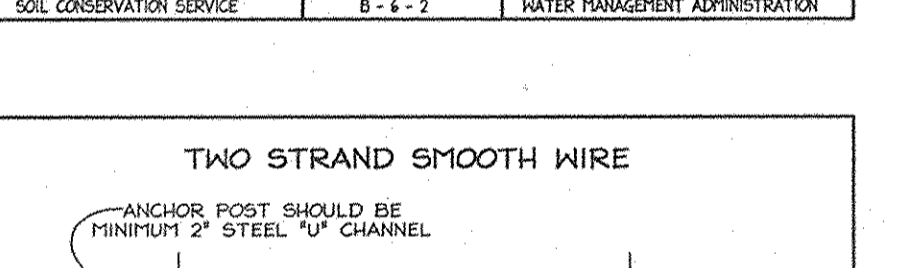


DRIVEWAY CULVERT REQUIREMENTS

1. Driveway must be paved from edge of public road to right of way line using standard paving section P-1 as shown on Sd.D. No. 606 or alternate section equal to or better than P-1, as approved by D.P.M.
2. Drainage culvert shall be sized for a 10-year frequency storm and the minimum size shall be 12" dia. round or 14" x 4" arch pipe if larger pipe is required, ditch invert shall be lowered to provide min. ditch gradient of 0.5% and longer shown.
3. Private driveways flow may be provided over driveway located at or near the crest of vertical curves on the public road where quantity of flow is small, as approved by D.P.M.
4. Tie-in grade of private driveway shall not exceed 14%.



TWO STRAND SMOOTH WIRE



DEVELOPER/ CONTRACT PURCHASER
HAILEY DEVELOPMENT LC
3905 National Drive, Suite 105
Burlington, Maryland 20686
Telephone: (301) 476-7715

OWNER
JENNIE M. THOMPSON
8067 Browns Bridge Road
Highland, Maryland 20777

SEDIMENT & EROSION CONTROL NOTES AND DETAILS
J. THOMPSON PROPERTY
LOTS 1 THRU 6
(A RESUBDIVISION OF NON-BUILDABLE PARCEL 'A'
THOMPSON PROPERTY PLAT #13316)

TAX MAP 45 GRID 5
5TH ELECTION DISTRICT

PARCEL 13
HOWARD COUNTY, MARYLAND

DEVELOPER'S CERTIFICATE
I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN FOR SEDIMENT AND EROSION CONTROL AND THAT ALL 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.
J. Thompson
Hailey Development, L.C. DATE

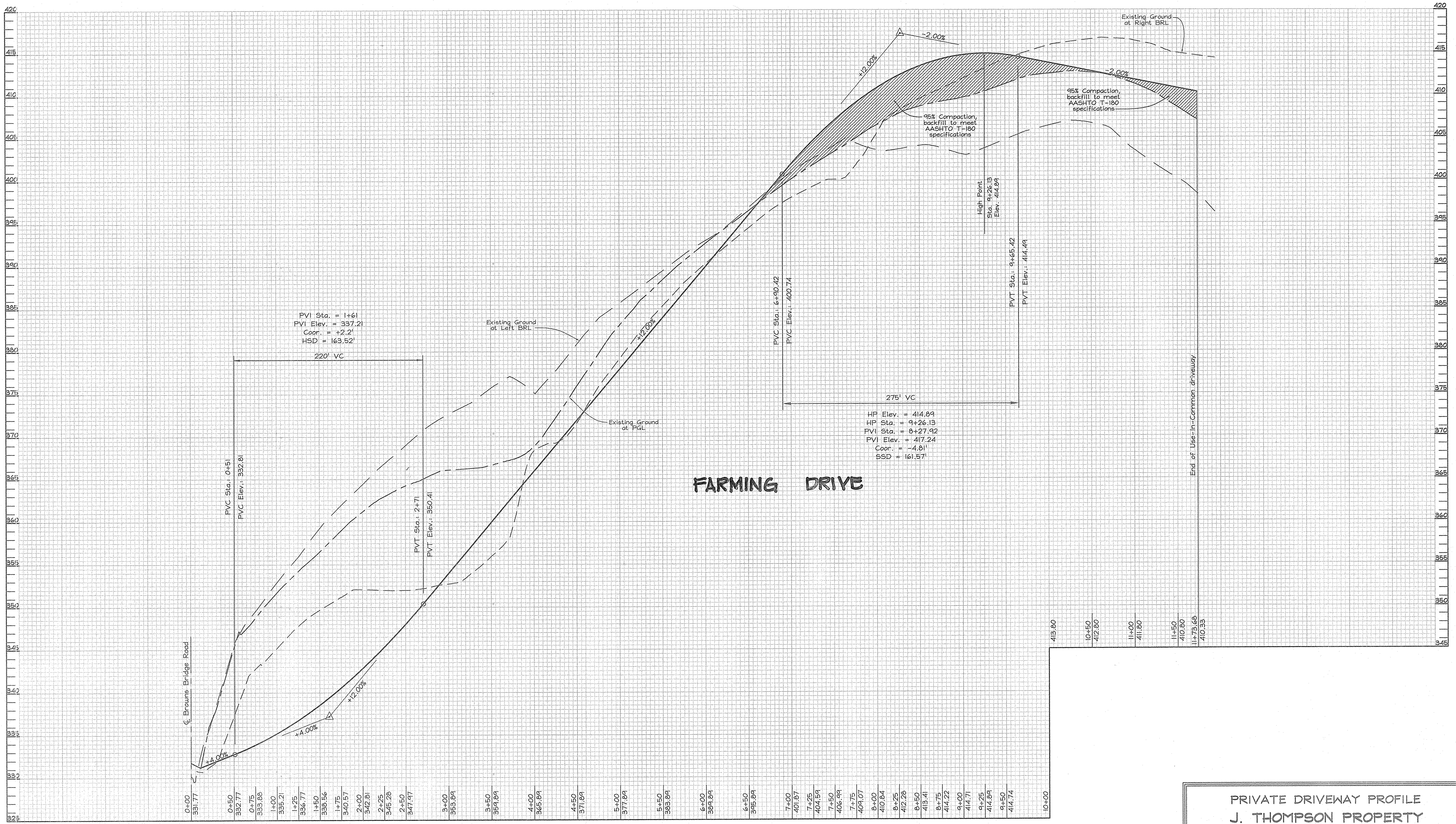
REVIEWED FOR HOWARD SCD AND MEETS TECHNICAL REQUIREMENTS.
J. Thompson
UDFA-NATURAL RESOURCES CONSERVATION SERVICE DATE
THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
J. Thompson
HOWARD SOIL CONSERVATION DISTRICT DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
J. Thompson
DATE 2/21/02
J. Thompson
DATE 2/21/02

ENGINEERS CERTIFICATE
I CERTIFY THAT THIS PLAN FOR SEDIMENT AND EROSION 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.
Zacharia Y. Fish
ZACHARIA Y. FISH DATE 1/30/02

FSH Associates
Engineers Planners Surveyors
8333 Howard Lane
Elkridge, MD 21075
Tel: 410-567-5200 Fax: 410-796-1562
E-mail: info@fsh.com

DESIGN BY: PS
DRAWN BY: RL
CHECKED BY: ZTF
SCALE: As Shown
DATE: Jan. 30, 2002
H.G. No.: 3288
SHEET No.: 4 OF 10



PVI Sta. = 1+61
 PVI Elev. = 337.21
 Coord. = +2.2'
 HSD = 163.52'

HP Elev. = 414.89
 HP Sta. = 9+26.13
 PVI Sta. = 8+27.92
 PVI Elev. = 417.24
 Coord. = -4.81'
 SSD = 161.57'

FARMING DRIVE

PROFILE
 SCALE: Hor. 1"=50'
 Vert. 1"=5'

C. Browns Bridge Road

End of Use-in-Common driveway

0+00	331.77	0+50	332.77	1+00	335.86	1+50	336.56	2+00	340.57	2+50	345.28	3+00	353.89	3+50	359.89	4+00	365.89	4+50	371.89	5+00	377.89	5+50	383.89	6+00	389.89	6+50	395.89	7+00	401.87	7+25	404.59	7+50	406.99	7+75	409.07	8+00	410.84	8+25	412.26	8+50	413.41	8+75	414.22	9+00	414.71	9+25	414.89	9+50	414.74	10+00	413.80
------	--------	------	--------	------	--------	------	--------	------	--------	------	--------	------	--------	------	--------	------	--------	------	--------	------	--------	------	--------	------	--------	------	--------	------	--------	------	--------	------	--------	------	--------	------	--------	------	--------	------	--------	------	--------	------	--------	------	--------	------	--------	-------	--------

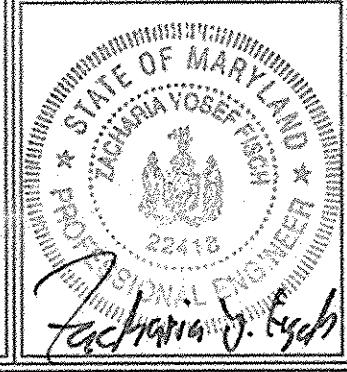
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

[Signature] 2/12/07
 CHIEF, DEVELOPMENT ENGINEERING DIVISION
[Signature] 2/12/07
 CHIEF, DIVISION OF LAND DEVELOPMENT

OWNER
 JENNIE M. THOMPSON
 8067 Browns Bridge Road
 Highland, Maryland 20777

DEVELOPER/CONTRACT PURCHASER
 HAILLEY DEVELOPMENT LC
 3405 National Drive, Suite 105
 Burtonsville, Maryland 20866
 Telephone: (301) 476-7715

PRIVATE DRIVEWAY PROFILE
J. THOMPSON PROPERTY
 LOTS 1 THRU 6
 (A RESUBDIVISION OF NON-BUILDABLE PARCEL 'A' PLAT #13316)
 TAX MAP 45 GRID 5 PARCEL 13
 5TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND



FSH Associates
 Engineers Planners Surveyors
 8318 Forrest Street, Ellicott City, MD 21043
 Tel: 410-750-2251 Fax: 410-750-7350
 E-mail: info@fsha.biz

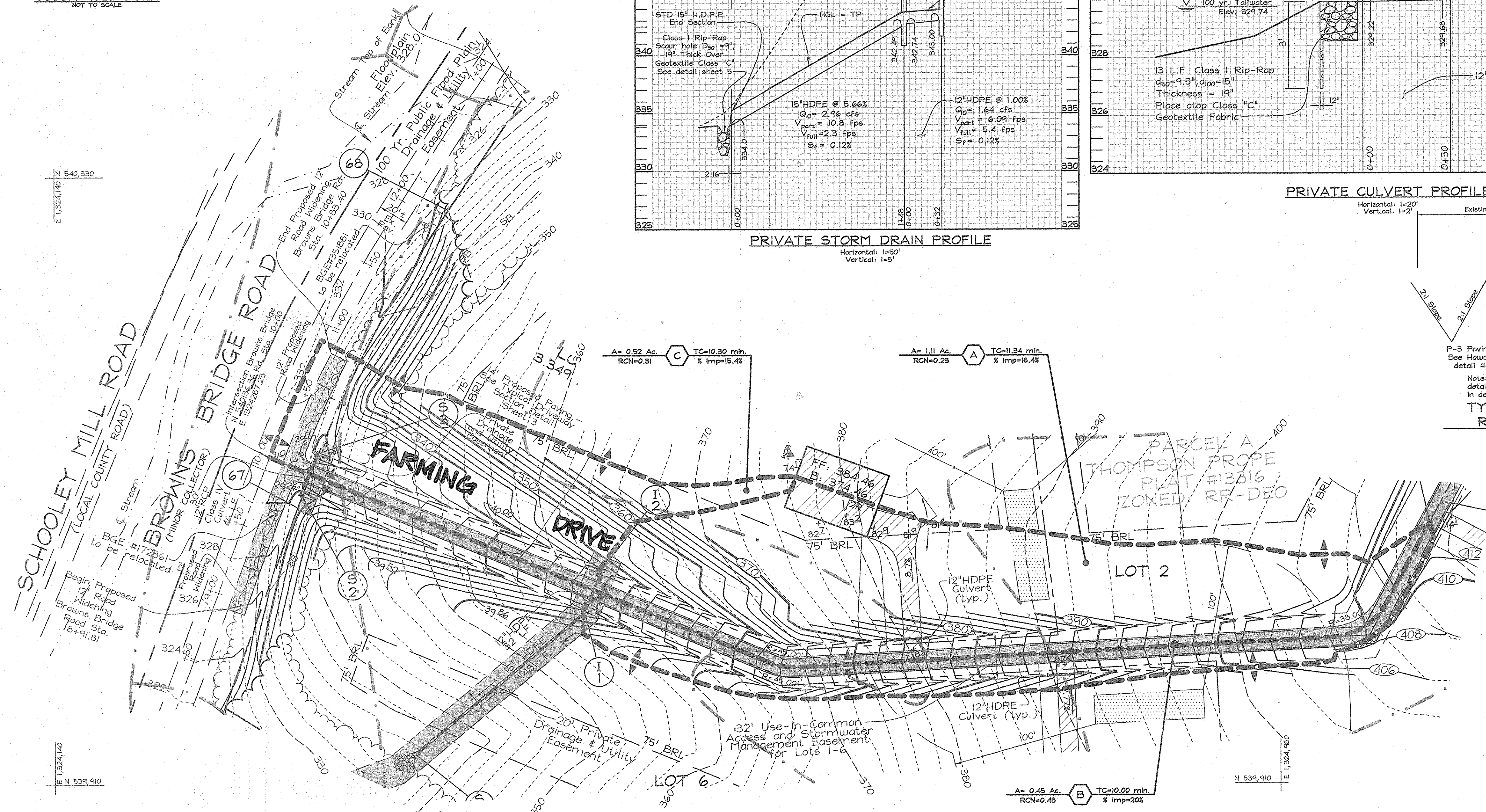
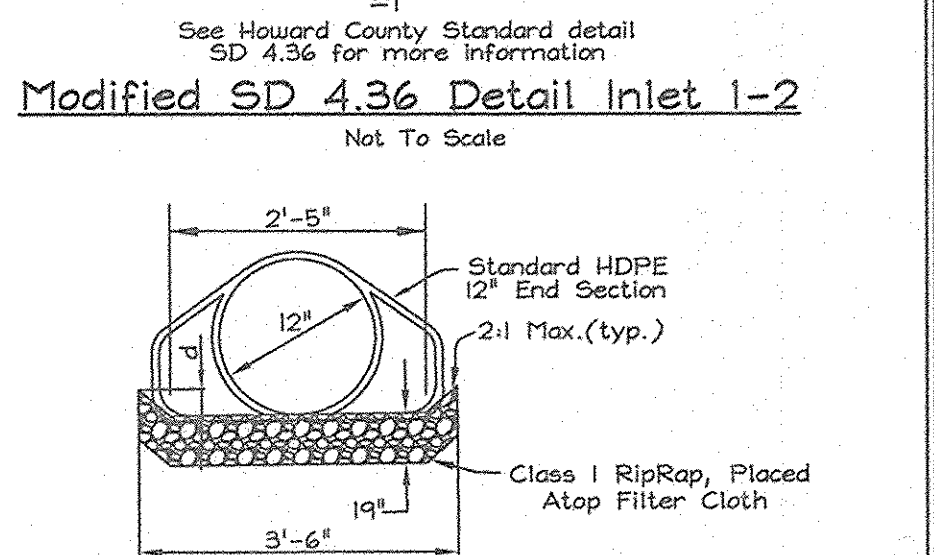
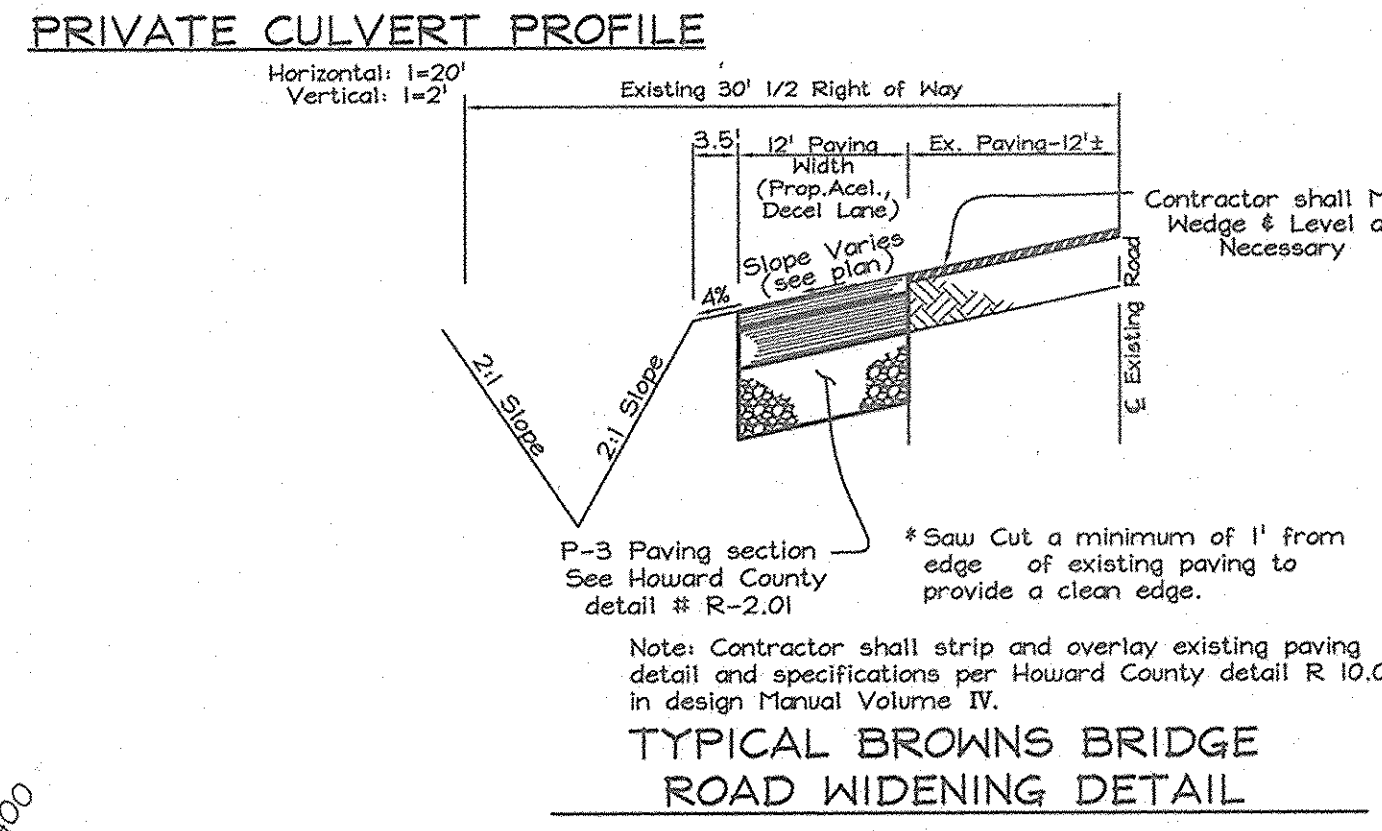
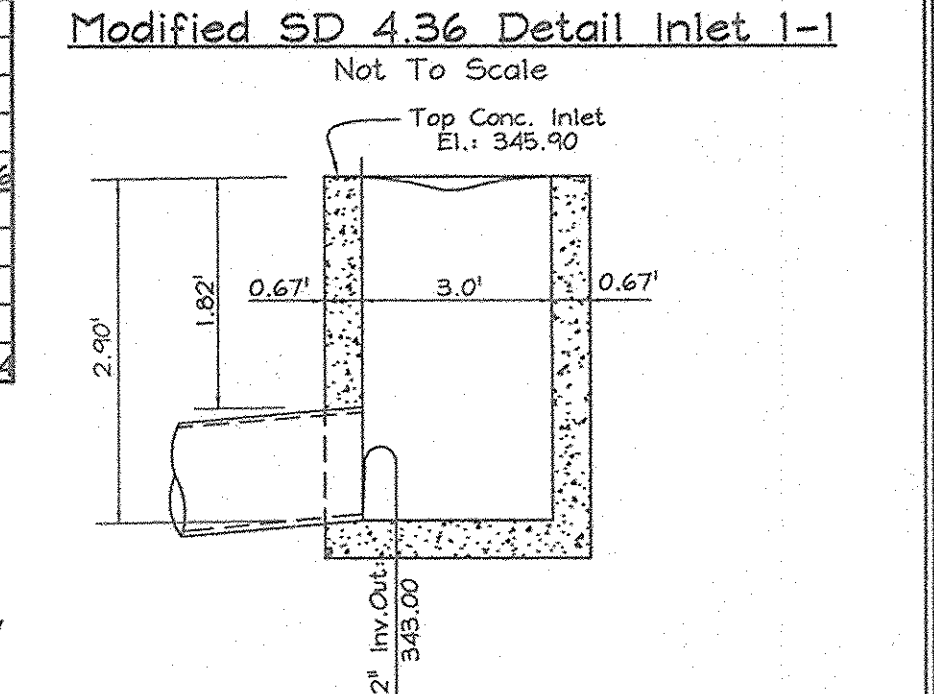
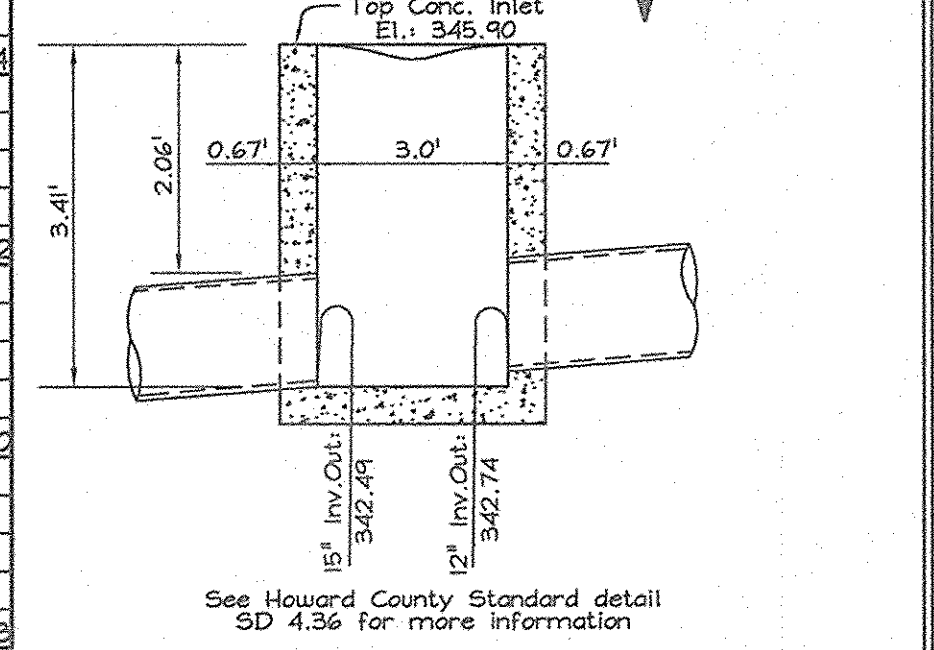
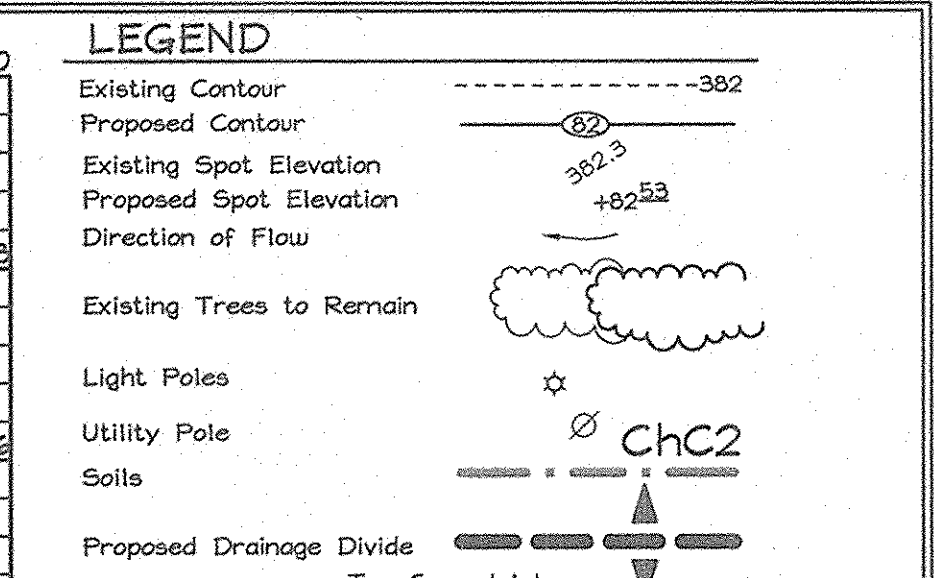
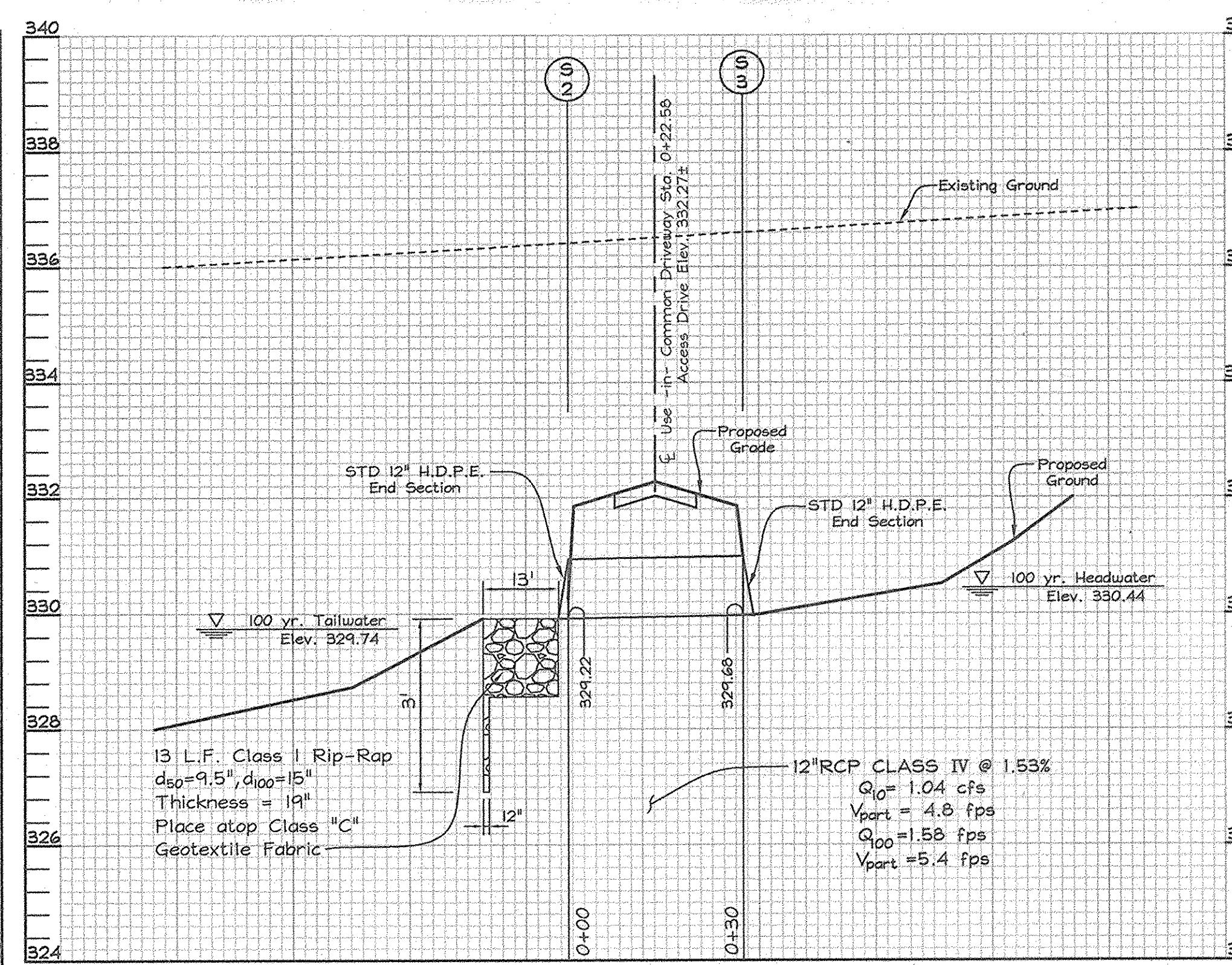
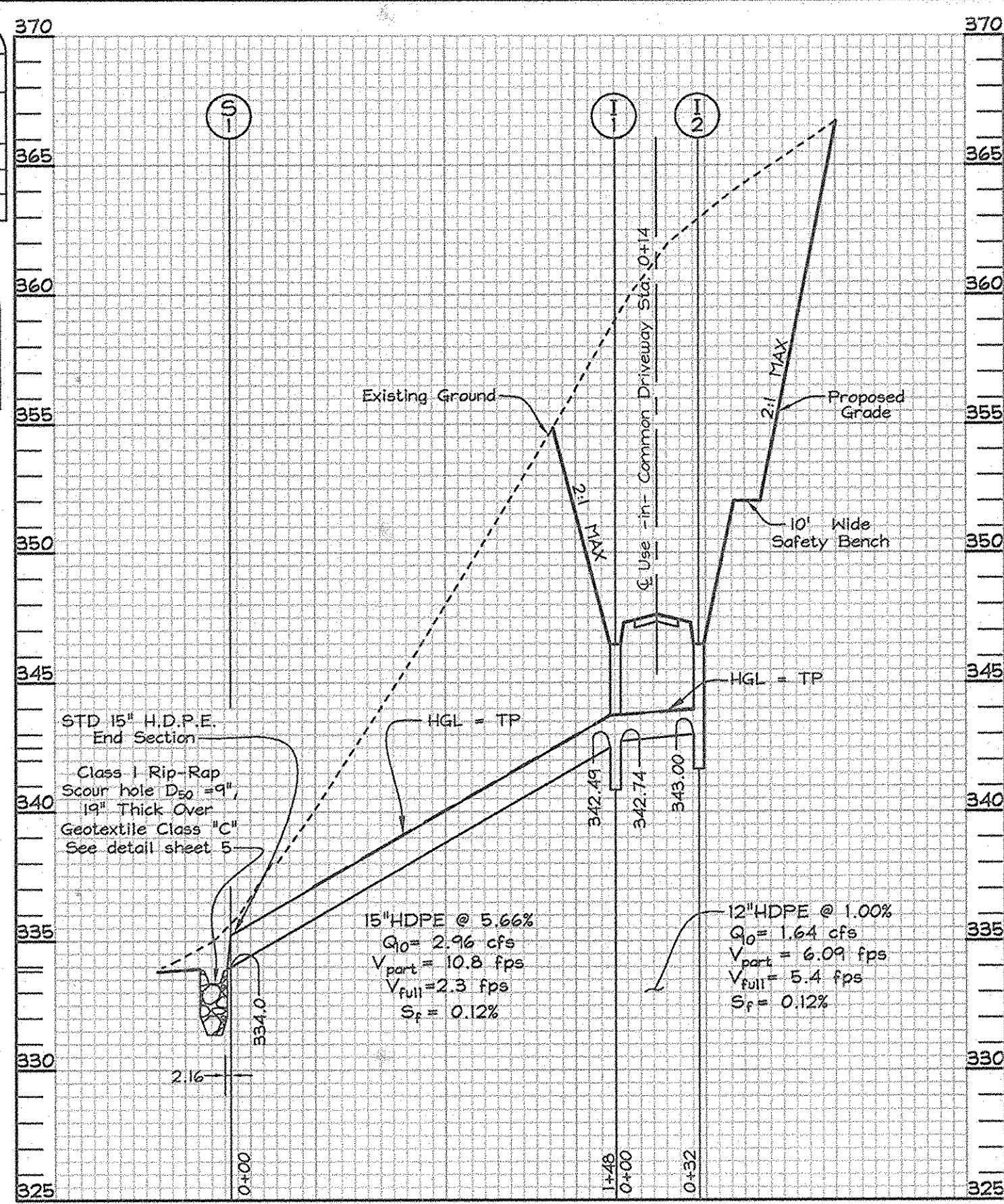
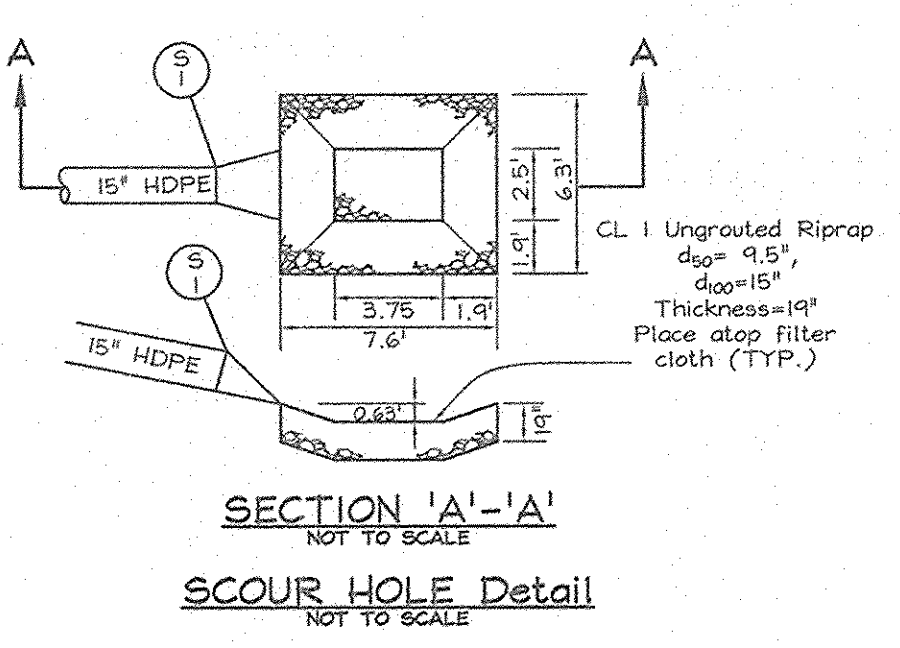
DESIGN BY: PS
 DRAWN BY: MY
 CHECKED BY: ZYF
 SCALE: 1"=50'
 DATE: Jan 30, 2007
 P.L.O. No.: 3288
 SHEET No.: 5 OF 10

F-07-024

STRUCTURE SCHEDULE						
NO.	TYPE	LOCATION	TOP ELEV.	INV. IN.	INV. OUT.	REMARKS
1-1	Modified Open End Grate (Single Opening)	Use-in-Common Sta.2+40.42 @ 16' RT	346.46±	342.74	342.49	Modified S.D. 4.36 see detail sheet for both
1-2	Modified Open End Grate (Single Opening)	Use-in-Common Sta.2+40.42 @ 16' LT	346.46±	---	343.00	---
5-1	15" HDPE End Section	N 534,932.55 E 1,324,388.51	---	334.00	333.83	---
5-2	12" HDPE End Section	Use-in-Common Sta.0+29.37 @ 15' RT	---	329.22	329.20	---
5-3	12" HDPE End Section	Use-in-Common Sta.0+29.37 @ 15' LT	---	329.70	329.68	---

NOTES: 1. The locations of the HDPE End Sections correspond to the point where the end section meets the incoming pipe.

PIPE SCHEDULE		
SIZE	TYPE	LENGTH
12"	HDPE	32'
15"	HDPE	148'
12"	RCP CLASS IV	30'

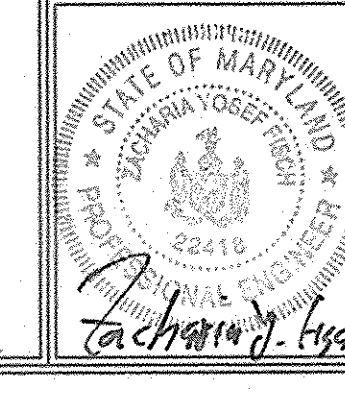


ACCELERATION, DECELERATION, STORM DRAIN PLAN & DRAINAGE AREA MAP SCALE: 1"=40'

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
 [Signature] 2/12/07
 CHIEF, DEVELOPMENT ENGINEERING DIVISION
 [Signature] 2/12/07
 CHIEF, DIVISION OF LAND DEVELOPMENT

DEVELOPER/ CONTRACT PURCHASER: HAILEY DEVELOPMENT LC, 5905 National Drive, Suite 105, Burtonsville, Maryland 20866, Telephone: (301) 476-7715
 OWNER: JENNIE M. THOMPSON, 8067 Browns Bridge Road, Highland, Maryland 20777

ACCELERATION, DECELERATION, STORM DRAIN PLAN, PROFILES & DRAINAGE AREA MAP
J. THOMPSON PROPERTY
 LOTS 1 THRU 6
 (A RESUBDIVISION OF NON-BUILDABLE PARCEL 'A' THOMPSON PROPERTY PLAT #13316)
 TAX MAP 45 GRID 5 PARCEL 13
 5TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND



FSH Associates
 Engineers Planners Surveyors
 6338 Howard Lane Elkridge, MD 21075
 Tel: 410-567-5200 Fax: 410-798-1582
 E-mail: info@fshri.com
 DESIGN BY: ZYF
 DRAWN BY: RT
 CHECKED BY: ZYF
 SCALE: As Shown
 DATE: Jan 30, 2007
 W.O. No.: 5288
 SHEET No.: 6 OF 10

SYMBOL	NAME / DESCRIPTION	SOIL GROUP
GIB2	Glenelg loam, 3 to 8 percent slopes, moderately eroded	B
GrB2	Glenville silt loam, 3 to 8 percent slopes, moderately eroded	C
MIC2	Manor loam, 8 to 15 percent slopes, moderately eroded	B
MIC3	Manor loam, 8 to 15 percent slopes, severely eroded	B
MID3	Manor loam, 15 to 25 percent slopes, severely eroded	B
MIE	Manor loam, 25 to 45 percent slopes	B

LEGEND	
Erosion Control Matting	ECM
25% or greater slopes	[Symbol]
15% - 24.9% slopes	[Symbol]
Impervious Area	[Symbol]
Landscape Perimeter	PERIMETER ONE
Proposed Landscape Tree	[Symbol]
Temporary Swale	[Symbol]
Grass Channel	[Symbol]
Level Spreader	[Symbol]
Existing Contour	[Symbol]
Proposed Contour	[Symbol]
Existing Spot Elevation	[Symbol]
Proposed Spot Elevation	[Symbol]
Direction of Flow	[Symbol]
Existing Trees to Remain	[Symbol]
Light Poles	[Symbol]
Utility Pole	[Symbol]
Check Dam	[Symbol]
Stabilized Construction Entrance	[Symbol]
Super Silt Fence	[Symbol]
Silt Fence	[Symbol]
Limit of Disturbance	[Symbol]
Tree Protection Fence	[Symbol]
Rooftop Disconnect	[Symbol]



SCHEDULE A PERIMETER LANDSCAPE EDGE				
CATEGORY	ADJACENT TO ROADWAYS	ADJACENT TO PROPERTIES		
Perimeter/Frontage Designation	1	2	3	4
Landscape Type	B	A	A	A
Linear Feet of Roadway	568	1,101	1,442	1,284
Frontage/Perimeter (Yes, No, Linear Feet)	Yes* (191)	Yes* (545)	Yes* (825)	Yes* (327)
Credit for Existing Vegetation (Yes, No, Linear Feet)	377	528	619	662
Remaining Perimeter Length (Yes, No, Linear Feet)	No	No	No	No
Number of Plants Required				
Shade Trees	1:50 B	1:60 B	1:60 10	1:60 16
Evergreen Trees	1:40 q	-	-	-
Shrubs	-	-	-	-
Number of Plants Provided				
Shade Trees	8	8	10	16
Evergreen Trees	0**	-	-	-
Shrubs	-	-	-	-

* Existing trees to remain.
** Alternative compliance for these perimeters, see Landscape Note #4.

LANDSCAPE SCHEDULE				
KEY	QUAN.	BOTANICAL NAME	SIZE	NOTE
14	14	Acer saccharum 'Green Mountain'	2 1/2"-3" Cal.	B & B
14	14	Quercus rubra	2 1/2"-3" Cal.	B & B
14	14	Liquidambar styraciflua	2 1/2"-3" Cal.	B & B

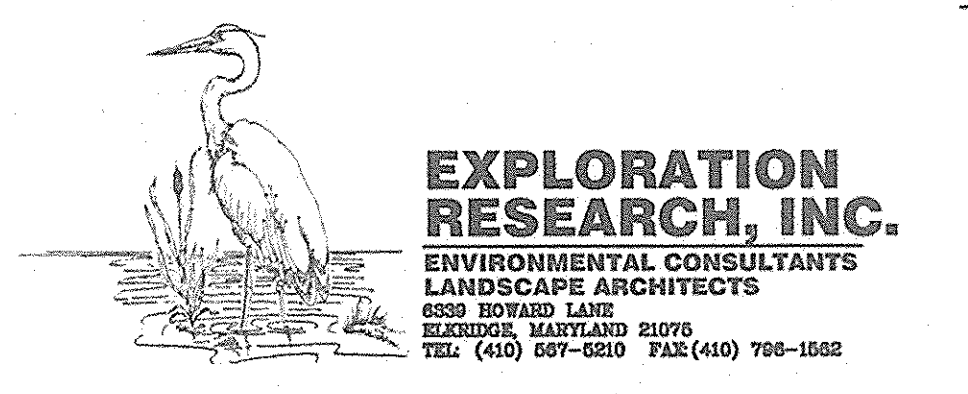
STREET TREE CHART			
STREET NAME	LF REQUIRED	TREES REQUIRED	TREES PROVIDED
Brown's Bridge Road	377*	(1:30)** 13	13

* 56' - 191' existing trees to remain
** Small trees due to overhead utilities

STREET TREE SCHEDULE				
KEY	QUAN.	BOTANICAL NAME	SIZE	NOTE
13	13	Prunus serrulata 'Kwanzan'	1 1/2"-2" Cal.	B & B
		Kwanzan Cherry		

DEVELOPER/ CONTRACT PURCHASER
HAILEY DEVELOPMENT LC
3925 National Drive, Suite 105
Baltimoreville, Maryland 20886
Telephone: (301) 476-7715

OWNER
JENNIE M. THOMPSON
8267 Browns Bridge Road
Highland, Maryland 20777



LANDSCAPE PLAN
J. THOMPSON PROPERTY
LOTS 1 THRU 6
(A RESUBDIVISION OF NON-BUILDABLE PARCEL 'A'
THOMPSON PROPERTY PLOT #13316)

TAX MAP 45 GRID 5
5TH ELECTION DISTRICT

PARCEL 13
HOWARD COUNTY, MARYLAND

DESIGN BY: **SM**
DRAWN BY: **RL & SM**
CHECKED BY: **ZYF**
SCALE: 1"=50'
DATE: **Jan. 30, 2007**
W.O. No.: **3288**
SHEET No.: **7 OF 10**

FSH Associates
Engineers Planners Surveyors
8339 Howard Lane, Elkridge, MD 21075
Tel: 410-567-5200 Fax: 410-798-1562
E-mail: info@fsh.com

LANDSCAPE NOTES

- At the time of installation, all shrubs and other plantings herewith listed and approved for this site, shall be of the proper height requirements in accordance with the Howard County Landscaping Manual. In addition, no substitutions or relocation of required plantings may be made without prior review and approval from the Department of Planning and Zoning. Any deviation from this approved Landscape Plan may result in denial or delay in the release of landscape surety until such time as all required materials are planted and/or revisions are made to applicable plans and certificates.
- The owner, tenant, and/or their agents shall be responsible for maintenance of the required landscaping, including both plant materials and berms, fences and walls. All plant materials shall be maintained in good growing condition, and when necessary, replaced with new materials to ensure continued compliance with applicable regulations. All other required landscaping shall be permanently maintained in good condition, and when necessary, repaired or replaced.
- Financial surety for the required landscaping will be posted as part of the Grading Permit in the amount of \$16,500 (\$5 shade trees @ \$300.00).
- The developer is claiming Alternative Compliance for Perimeter One. The elevation difference between Browns Bridge Road and the site substitutes for the required evergreen component along Browns Bridge Road. There is over 40' of elevation difference between Browns Bridge Road and the side of the proposed house on lot 1. Additionally, the shade tree component shall be planted no closer than 25' from the property line to minimize future conflicts with the overhead powerlines.

DEVELOPER'S BUILDER'S CERTIFICATE
I/WE CERTIFY THAT THE LANDSCAPING SHOWN ON THIS PLAN WILL BE DONE ACCORDING TO THE PLAN, SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE HOWARD COUNTY LANDSCAPE MANUAL. I/WE FURTHER CERTIFY THAT UPON COMPLETION, A LETTER OF LANDSCAPE INSTALLATION, ACCOMPANIED BY AN EXECUTED ONE(1) YEAR GUARANTEE OF PLANT MATERIALS, WILL BE SUBMITTED TO THE DEPARTMENT OF PLANNING AND ZONING.

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Richard Thometz, Manager
Hailey Development, L.C.
1/30/07 DATE

Chief, Development Engineering Division
2/12/07 DATE

Chief, Division of Land Development
2/12/07 DATE

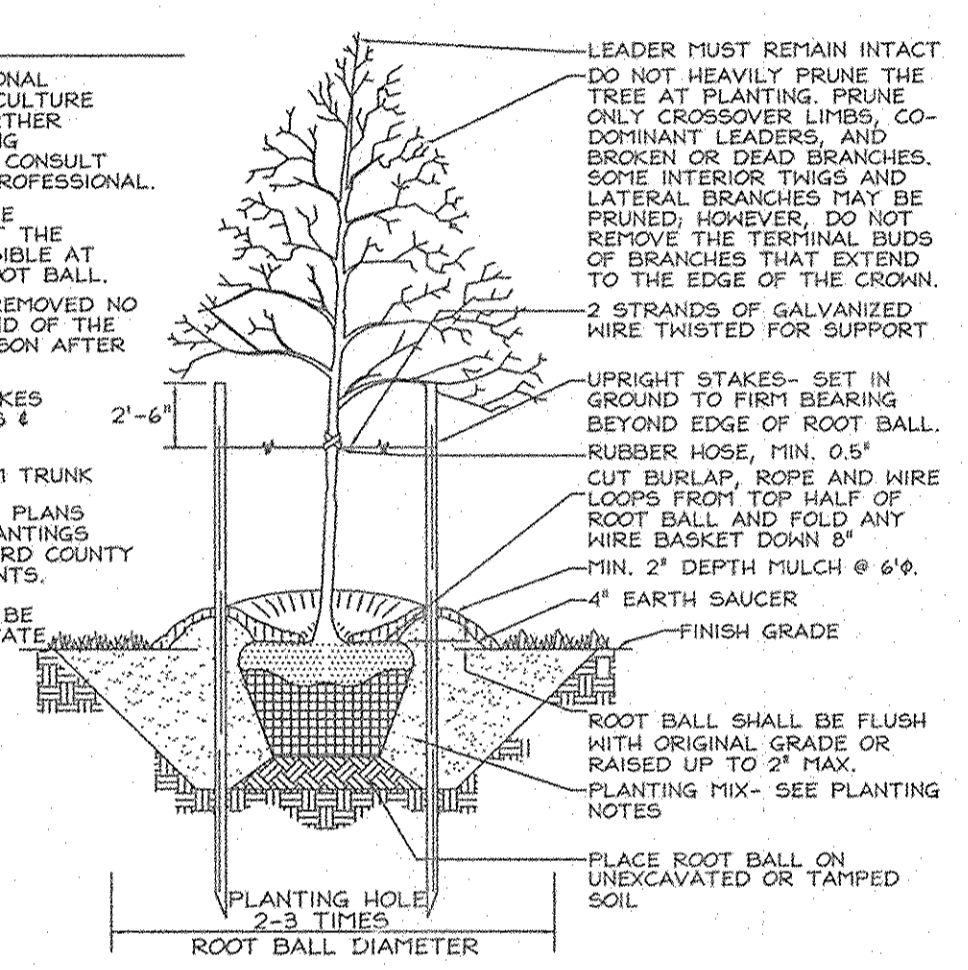


LEGEND

Existing Contour	---
Proposed Contour	---
Existing Spot Elevation	382.5
Proposed Spot Elevation	+82.5
Direction of Flow	→
Existing Trees to Remain	
Light Poles	*
Utility Pole	⊗
Stabilized Construction Entrance	
Super Silt Fence	SSF
Silt Fence	SF
Limit of Disturbance	LOD
25% or greater slopes	
15% - 24.99% slopes	
Impervious Area	
Landscape Perimeter	PERIMETER ONE
Proposed Landscape Tree	
Tree Protection Fence	TPF
Erosion Control Matting	ECM
Temporary Swale	
Rooftop Disconnect	

NOTES

- CONSULT INTERNATIONAL SOCIETY OF ARBORICULTURE GUIDELINES FOR FURTHER DETAILS OF PLANTING SPECIFICATIONS, OR CONSULT WITH A QUALIFIED PROFESSIONAL.
- EACH TREE SHALL BE PLANTED SUCH THAT THE TRUNK FLARE IS VISIBLE AT THE TOP OF THE ROOT BALL.
- STAKES SHALL BE REMOVED NO LATER THAN THE END OF THE FIRST GROWING SEASON AFTER PLANTING.
- PLACE UPRIGHT STAKES PARALLEL TO WALKS & BUILDINGS.
- KEEP MULCH 1" FROM TRUNK.
- SEE ARCHITECTURAL PLANS FOR ADDITIONAL PLANTINGS WHICH EXCEED HOWARD COUNTY FINISH REQUIREMENTS.
- TREES ARE NOT TO BE PLANTED OVER PRIVATE SEWAGE EASEMENT.



TYPICAL TREE PLANTING AND STAKING
DECIDUOUS TREES UP TO 2-1/2" CALIPER



EXPLORATION RESEARCH, INC.
ENVIRONMENTAL CONSULTANTS
LANDSCAPE ARCHITECTS
6839 HOWARD LANE
BETHESDA, MARYLAND 20815
TEL: (410) 667-0210 FAX: (410) 708-1652

DEVELOPER/ CONTRACT PURCHASER
HAILEY DEVELOPMENT LC
3905 National Drive, Suite 105
Burrsville, Maryland 20966
Telephone: (301) 476-7715

OWNER
JENNIE M. THOMPSON
8067 Erdrum
Highland, Maryland 20777

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

[Signature] 2/12/07
CHIEF, DEVELOPMENT ENGINEERING DIVISION
[Signature] 2/12/07
CHIEF, DIVISION OF LAND DEVELOPMENT

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BY: RICHARD THOMETZ, Manager
[Signature] 1/30/07
Hailey Development, L.C. DATE

LANDSCAPE PLAN
J. THOMPSON PROPERTY
LOTS 1 THRU 6
(A RESUBDIVISION OF NON-BUILDABLE PARCEL 'A'
THOMPSON PROPERTY PLAT #13316)
TAX MAP 45 GRID 5 PARCEL 13
5TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND



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Tel: 410-567-5200 Fax: 410-798-1562
E-mail: info@fshri.com

DESIGN BY: SHM
DRAWN BY: RL & SM
CHECKED BY: ZYF
SCALE: As Shown
DATE: Jan 30, 2007
W.O. No.: 3289
SHEET No.: 8 OF 10

Forest Conservation Narrative

This Forest Conservation Plan was prepared in accordance with the Howard County Forest Conservation Manual.

The subject property has a gross and net tract area of 21.23 Ac with a Floodplain total of 0.06 Ac. The net tract is 21.17 Ac and there is 2.72 Ac. of forest on site. There are two specimen trees around the site, which will be preserved. Forest has been retained to the greatest extent possible, including all forest in sensitive environments. The only clearing will occur to allow site access. The forest will be retained in 3 easements on lots as per an approved county waiver. The three easements are retention areas; Easement #1 is 0.59 Ac on Lot 1, Easement #2 is 1.16 Ac spanning Lots 3 and 4, and Easement #3 is 0.80 Ac on Lot 5 for a total of 2.55 Ac. This results in an afforestation/reforestation mitigation requirement of 2.19 Ac in the Clark Meadow, F-06-26 Forest Conservation Bank.

Surety in the amount of \$22,215.60 will be posted with the developers agreement.
2.55 Ac retention=111,078.0 sf @ \$0.20/sf=\$22,215.60

SPECIMEN TREES				
Key	Name	Scientific Name	DBH	Condition Retained
ST-1	Tulip Poplar	Liriodendron tulipifera	44"	Poor Yes
ST-2	Sycamore	Platanus occidentalis	35"	Good Yes

LEGEND

- Existing contours ----- 552
- Existing Spot Elevation 382.3
- Existing Trees to Remain [Symbol]
- Stream Bank Buffer SB [Symbol]
- Stream [Symbol]
- Proposed Septic Easement [Symbol]
- Existing Septic Easement [Symbol]
- Temporary Swale [Symbol]
- Use-In-Common Access Easement [Symbol]
- Proposed Dwelling [Symbol]
- Proposed Well Area [Symbol]
- Ex. Well [Symbol]
- 15-24.99% Slopes [Symbol]
- 25-50% Slopes [Symbol]
- Retention Area [Symbol]
- Tree Protection Sign [Symbol]
- Tree Protection Fence TPF [Symbol]
- Rooftop Disconnect [Symbol]

FOREST CONSERVATION EASEMENT TABLE

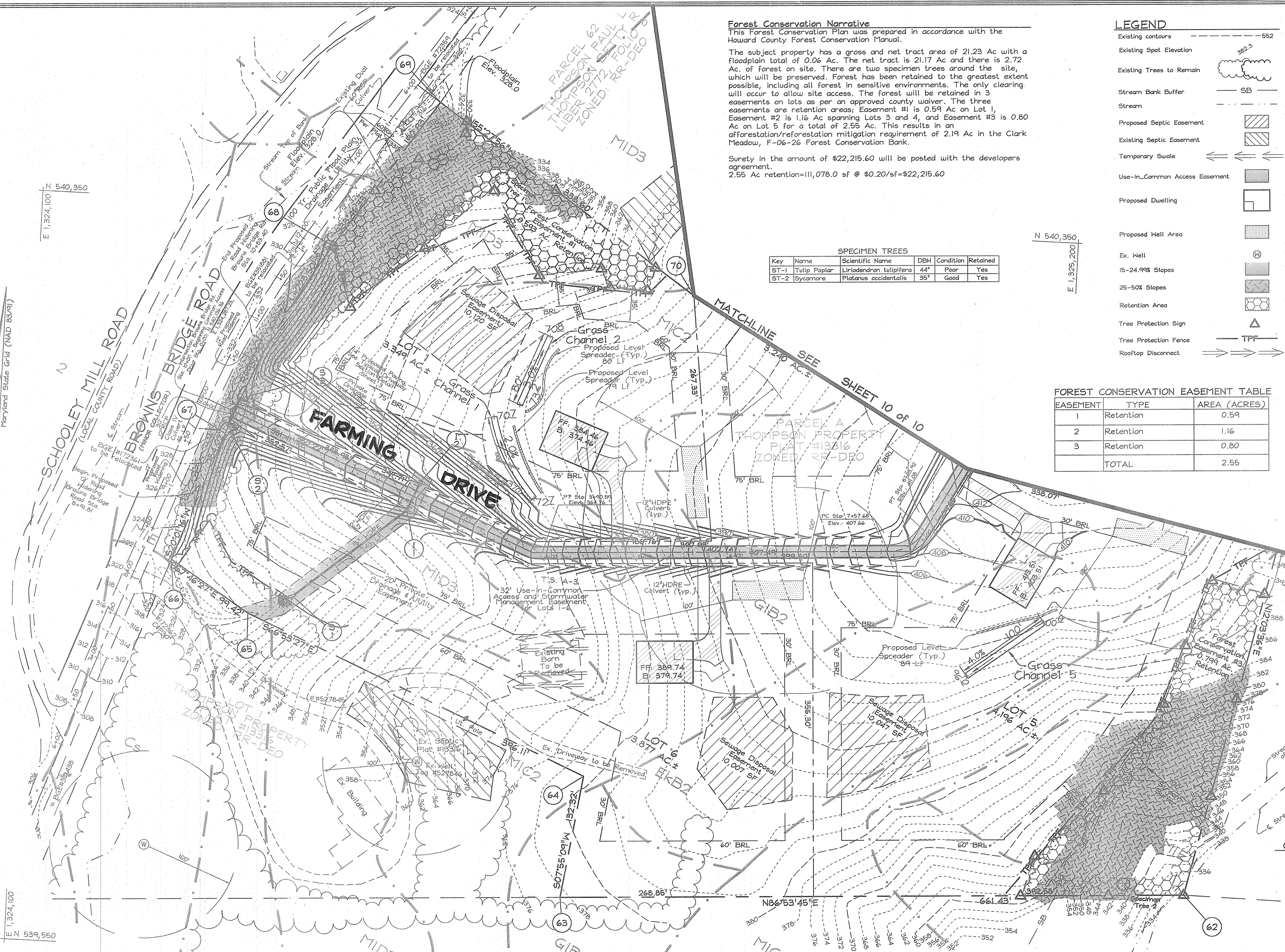
EASEMENT	TYPE	AREA (ACRES)
1	Retention	0.59
2	Retention	1.16
3	Retention	0.80
	TOTAL	2.55

FOREST CONSERVATION WORKSHEET

Net Tract Area		Acres
A. Total Tract Area		21.23
B. Area Within 100 Year Floodplain		0.06
C. Other deductions		---
D. Net Tract Area		21.17
Zoning Use Category: RESIDENTIAL-RURAL MEDIUM		
Land Use Category		
E. Afforestation Minimum (20 % x D)		4.23
F. Conservation Threshold (25 % x D)		5.29
Existing Forest Cover		
G. Existing Forest on Net Tract Area		2.72
H. Forest Area Above Conservation Threshold		0
Breakeven Point		
I. Forest Retention Above Threshold with no Mitigation		NA
J. Clearing Permitted without Mitigation		0
Proposed Forest Clearing		
K. Forest Areas to be Cleared		0.17
L. Forest Areas to be Retained		2.55
Planting Requirements		
M. Reforestation for Clearing Above Threshold		0
N. Reforestation for Clearing Below the Threshold		0.34
P. Credit for Retention Above Conservation Threshold		0
Q. Total Reforestation Required		1.85
R. Total Afforestation Required		0
S. Total Reforestation and Afforestation Requirement		2.19

Forest Tree Protection and Management Notes

- Tree protection devices shall be installed prior to any grading or land clearing.
- After the boundaries of the retention areas have been staked and flagged and before any disturbance has taken place a pre-construction meeting with the Howard County Inspector is required.
- Provide maintenance to tree protection devices and signage to maintain their integrity throughout the duration of the project.
- Attachment of signs to tree protection devices to maintain their integrity throughout the duration of the project.
- Any significant changes made to the Forest Conservation Plan shall be made with the prior approval of the Howard County Dept. Of Planning and Zoning.
- No burial of discarded material is permitted within the Forest Conservation and Planting areas.
- No open burning within 100 feet of wooded areas is permitted.
- Post construction phase.
 - Inspect existing trees around the perimeter of the site for signs of rot or trunk damage and excessive soil compaction.
 - Remove dead or dying trees and evaluate for hazard tree removal.
 - All temporary forest protection devices will be removed after construction.
 - Following completion of construction, prior to use, the county inspector shall inspect the entire site for compliance with this Forest Conservation Plan.
- A licensed Arborist or Forester should be retained for this service as needed.
- Future tree maintenance for Utility Line safety including pruning and removal of hazardous trees shall be permitted within the scope of the Forest Conservation Agreement. This shall be applicable up to 45' from the Utility Pole Line along Browns Bridge Road.



PLAN
SCALE: 1" = 50'

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
 [Signature] 2/12/07
 CHIEF, DEVELOPMENT ENGINEERING DIVISION
 [Signature] 2/12/07
 CHIEF, DIVISION OF LAND DEVELOPMENT

DEVELOPER/
CONTRACT PURCHASER
 HAILEY DEVELOPMENT LC
 3905 National Drive, Suite 105
 Burtonville, Maryland 20866
 Telephone: (301) 476-7715

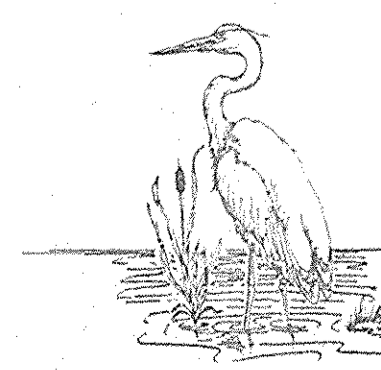
OWNER
 JENNIE M. THOMPSON
 8067 Browns Bridge Road
 Highland, Maryland 20777

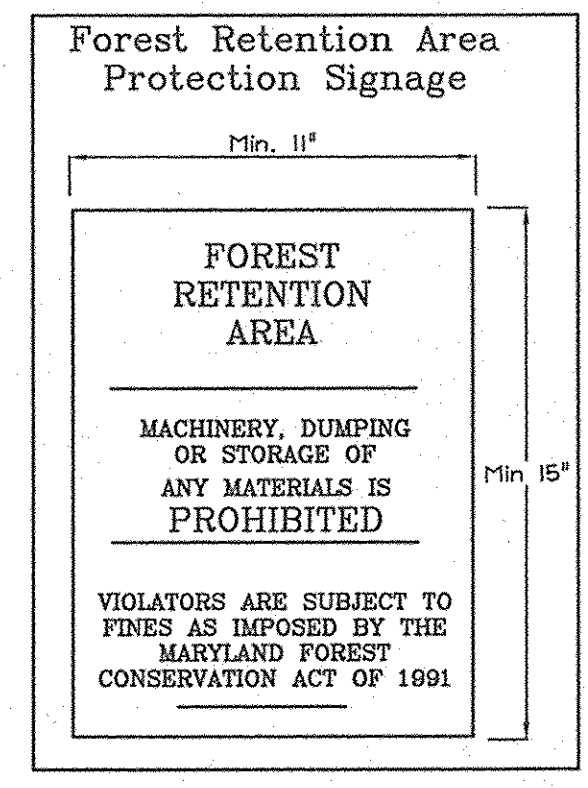
FINAL FOREST CONSERVATION PLAN
J. THOMPSON PROPERTY
 LOTS 1 THRU 6
 (A RESUBDIVISION OF NON-BUILDABLE PARCEL 'A'
 THOMPSON PROPERTY PLAT #13316)
 TAX MAP 45 GRID 5 PARCEL 13
 5TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND

DESIGN BY: AB
 DRAWN BY: HK & MY
 CHECKED BY: ZTF
 SCALE: 1"=50'
 DATE: Jan 30, 2007
 W.O. No.: 5288
 SHEET No.: 9 OF 10

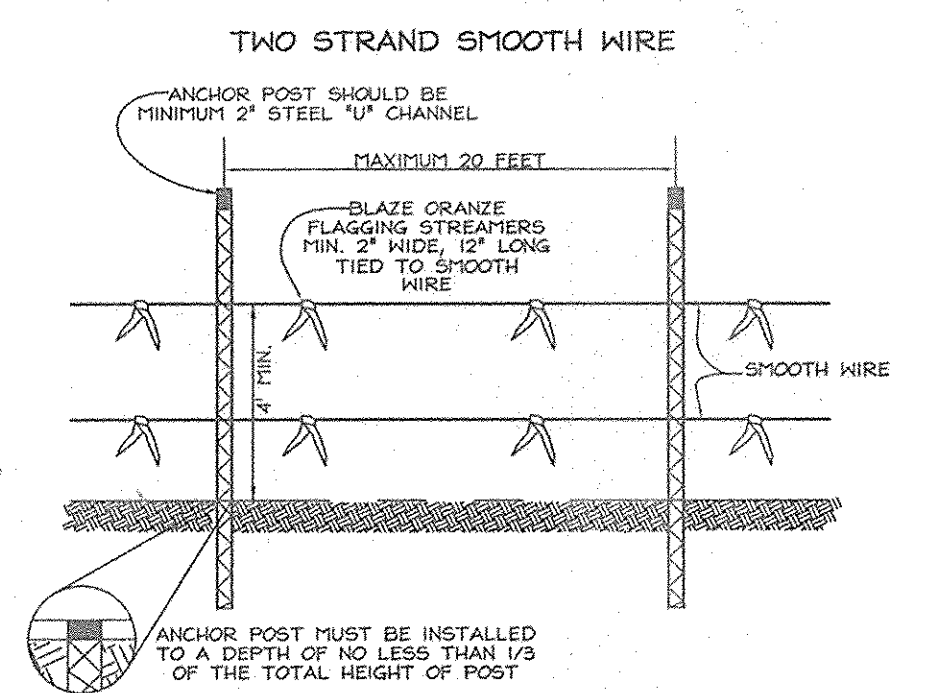
EXPLORATION RESEARCH, INC.
 ENVIRONMENTAL CONSULTANTS
 LANDSCAPE ARCHITECTS
 6559 HOWARD LANE
 ELK RIDGE, MARYLAND 21075
 TEL: (410) 657-5200 FAX: (410) 798-1508

FSH Associates
 Engineers Planners Surveyors
 8339 Howard Lane Elkridge, MD 21075
 Tel: 410-567-5200 Fax: 410-796-1562
 E-mail: info@sheri.com





SIGN DETAIL: PERMANENT SIGN
 SIGNAGE NOTE: ALL TREE PROTECTION SIGNS SHALL BE PLACED ON METAL T POSTS OR PRESSURE TREATED WOOD POLES. NO ATTACHMENT OF SIGNS TO TREES IS PERMITTED.



NOTES:
 1. FOREST PROTECTION DEVICE ONLY.
 2. RETENTION AREA WILL BE SET AS PART OF THE REVIEW PROCESS.
 3. BOUNDARIES OF RETENTION AREA SHOULD BE STAKED AND FLAGGED PRIOR TO CONSTRUCTION.
 4. NO DAMAGE SHOULD BE AVOIDED.
 5. PROTECTIVE SIGNAGE MAY ALSO BE USED.
 6. DEVICE SHOULD BE MAINTAINED THROUGHOUT CONSTRUCTION.

TREE PROTECTION DETAIL
 NOT TO SCALE

LEGEND

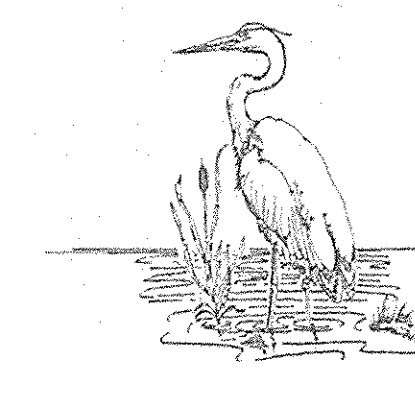
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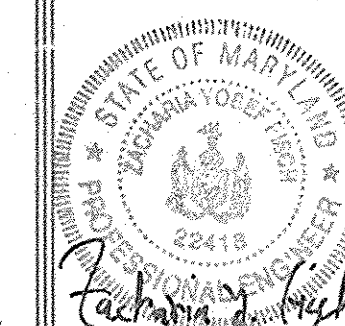
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 DRAWN BY: HK & MY
 CHECKED BY: ZYF
 SCALE: 1"=50'
 DATE: Jan. 30, 2007
 W.O. No.: 3289
 SHEET No.: 10 OF 10

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Howard County Seal
 DATE: 2/12/07
 DATE: 2/16/07

CHIEF, DEVELOPMENT ENGINEERING DIVISION
 CHIEF, DIVISION OF LAND DEVELOPMENT

PLAN
 SCALE: 1" = 50'

9 OF 10