

SHEET INDEX	
SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	SITE DEVELOPMENT PLAN
3	SEDIMENT AND EROSION CONTROL AND LANDSCAPE PLAN
4	SEDIMENT AND EROSION CONTROL NOTES & DETAILS

SITE DEVELOPMENT PLAN

AVOCA AVENUE

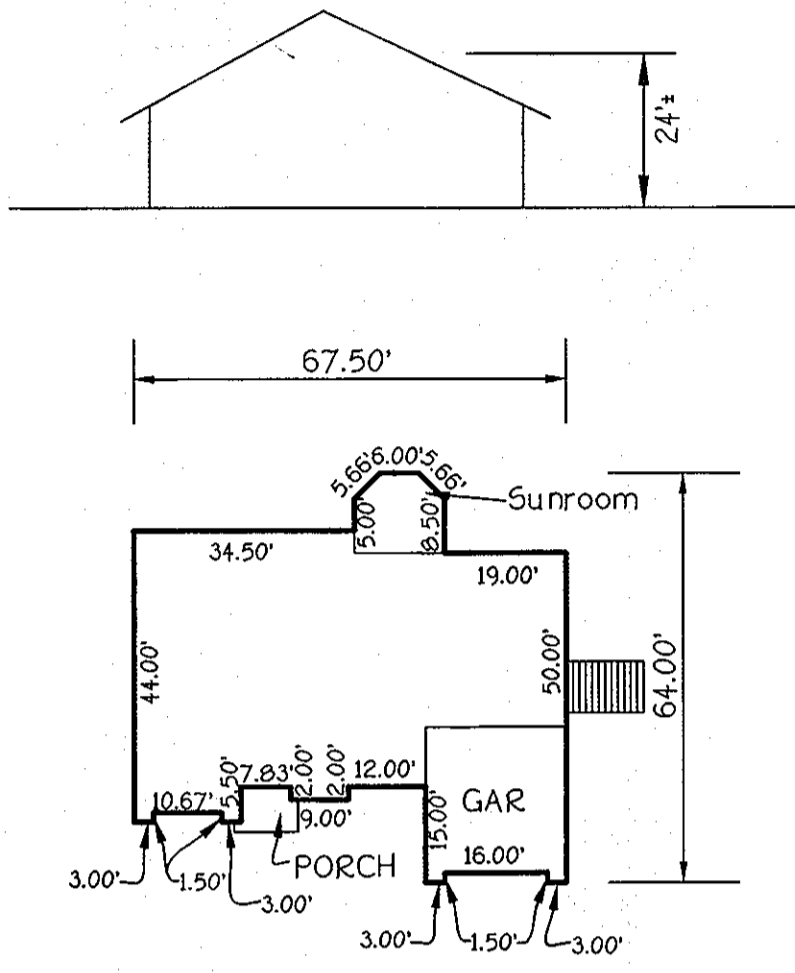
PLOTS 1 AND 2

ZONED: R-20

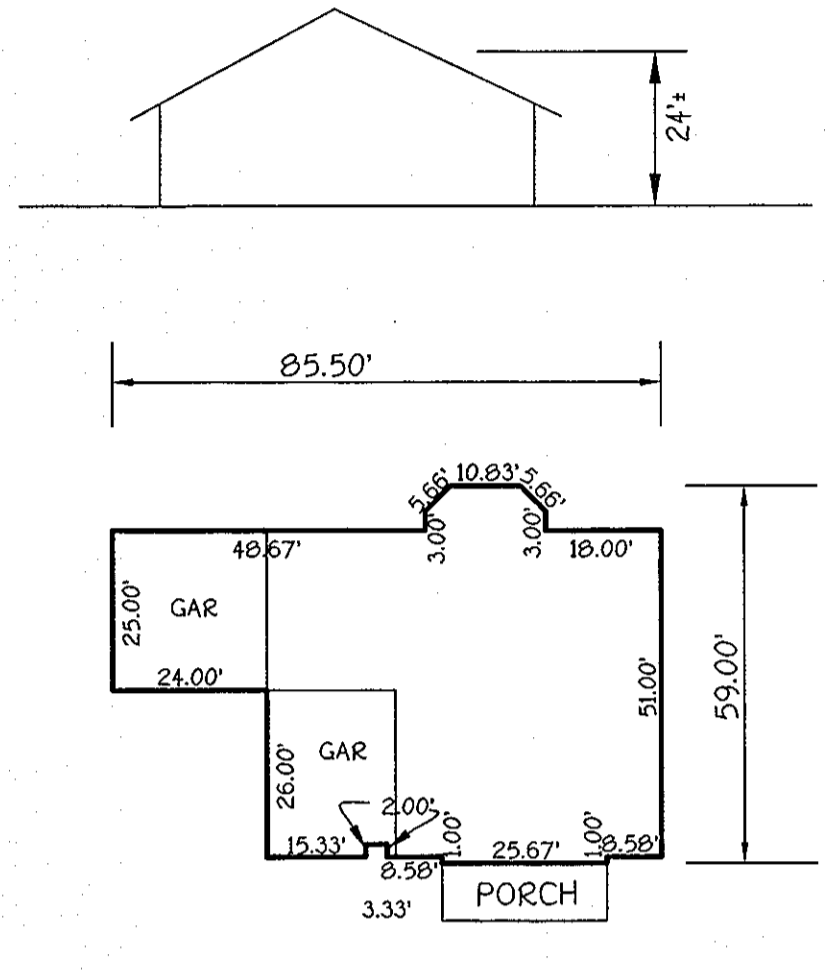
TAX MAP No. 31 GRID No. 7 PARCEL No. 357
SECOND ELECTION DISTRICT HOWARD COUNTY, MARYLAND

GENERAL NOTES

1. THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS/BUREAU OF ENGINEERING/CONSTRUCTION INSPECTION DIVISION AT 410-313-1000 AT LEAST FIVE (5) WORKING DAYS PRIOR TO THE START OF WORK.
2. THE CONTRACTOR SHALL NOTIFY (MISS UTILITY) AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION WORK BEING DONE.
3. THE EXISTING TOPOGRAPHY IS TAKEN FROM A FIELD RUN SURVEY WITH 2' CONTOURS INTERVALS PREPARED BY FISHER, COLLINS & CARTER, INC. DATED DECEMBER 31, 2009.
4. THE COORDINATES SHOWN HEREON ARE BASED UPON THE HOWARD COUNTY GEODETIC CONTROL WHICH IS BASED UPON THE MARYLAND STATE PLANE COORDINATE SYSTEM. HOWARD COUNTY MONUMENT NOS. 31A3 AND 31A4 WERE USED FOR THIS PROJECT.
5. STORM WATER MANAGEMENT IS IN ACCORDANCE WITH THE M.D.E. STORM WATER DESIGN MANUAL, VOLUMES I & II, REVISED 2009. WE ARE PROVIDING STORM WATER MANAGEMENT BY THE USE OF ROOFTOP AND NON-ROOFTOP DISCONNECTIONS. THE ROOFTOP DISCONNECTIONS ARE LOCATED ON SLOPES 5% MAXIMUM AND ARE AT LEAST 75' LONG. IN ACCORDANCE WITH THE NEW CHAPTER 5 CRITERIA, A REQUIRED PE VALUE OF 10" IS MET WITH JUST THESE PROPOSED DISCONNECTIONS. THE NON-ROOFTOP DISCONNECTIONS ARE AT A 1:1 RATIO AND THE NEW CHAPTER 5 STORM WATER MANAGEMENT REGULATIONS STIPULATE THAT THIS NON-ROOFTOP DISCONNECTIONS ALLOWS A PE VALUE OF 10" FOR THIS PROJECT'S DRIVEWAYS. THEREFORE, WE CAN CONCLUDE THAT THIS PROJECT MEETS THE CHAPTER 5 CRITERIA AND WOODS IN GOOD CONDITION HAS BEEN ACHIEVED.
6. THIS PROPERTY IS LOCATED WITHIN THE METROPOLITAN DISTRICT AND PUBLIC WATER & SEWER IS PROPOSED WITHIN THIS DEVELOPMENT. CONTRACT No. 12-W AND CONTRACT No. 302-S, RESPECTIVELY.
7. ANY DAMAGE TO THE COUNTY'S RIGHT-OF-WAY SHALL BE CORRECTED AT THE DEVELOPER'S EXPENSE.
8. THE SHC ELEVATIONS SHOWN ARE LOCATED AT THE PROPERTY LINE.
9. FOR DRIVEWAY ENTRANCE DETAILS REFER TO THE HOWARD COUNTY DESIGN MANUAL, VOLUME IV STANDARD DETAIL R-101.
10. THE SUBJECT PROPERTY IS ZONED R-20 (PER 02/02/04 COMPREHENSIVE ZONING PLAN AND THE COMP-LITE ZONING AMENDMENTS DATED 07/28/05).
11. NO GRADING, REMOVAL OF VEGETATIVE COVER OR TREES, PAVING AND NEW STRUCTURES SHALL BE PERMITTED WITHIN THE REQUIRED WETLANDS, STREAM(S) OR THEIR BUFFERS, FOREST CONSERVATION EASEMENT AREAS AND 100 YEAR FLOODPLAIN.
12. THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE PROVISIONS OF SECTION 16.124 OF THE HOWARD COUNTY CODE AND LANDSCAPE MANUAL.
13. THIS PROJECT IS EXEMPT FROM THE FOREST CONSERVATION REQUIREMENTS PER SECTION 16.1202 (B)(2)(D) OF THE SUBDIVISION AND LAND DEVELOPMENT REGULATIONS WHICH STATES EXEMPTIONS REQUIRING A DECLARATION OF INTENT: THE TOTAL CUTTING, CLEARING OR GRADING OF FOREST RESOURCES IS LESS THAN 20,000 SQUARE FEET.
14. IN ACCORDANCE WITH SECTION 12B OF THE HOWARD COUNTY ZONING REGULATIONS, BAY WINDOWS, CHIMNEYS OR EXTERIOR STAIRWAYS NOT MORE THAN 18 FEET IN WIDTH MAY PROJECT NOT MORE THAN 4 FEET INTO ANY SETBACKS. PORCHES OR DECKS, OPEN OR ENCLOSED MAY PROJECT NOT MORE THAN 10 FEET INTO THE FRONT OR REAR YARD SETBACK (APPLIES FOR RESIDENTIAL SOPS).
15. DRIVEWAYS SHALL BE PROVIDED PRIOR TO ISSUANCE OF A USE AND OCCUPANCY PERMIT FOR ANY NEW DWELLINGS TO INSURE SAFE ACCESS FOR FIRE AND EMERGENCY VEHICLES PER THE FOLLOWING MINIMUM REQUIREMENTS:
WIDTH - 12' (IF SERVING MORE THAN ONE RESIDENCE);
SURFACE - 6" OF COMPACTED CRUSHER RUN BASE W/TAR AND CHIP COATING (1-1/2" MIN.);
GEOMETRY - MAX. 15% GRADE, MAX. 10% GRADE CHANGE AND MIN. 45' TURNING RADIUS;
STRUCTURES (CULVERTS/BRIDGES) - CAPABLE OF SUPPORTING 25 GROSS TONS (H25 LOADING);
DRAINAGE ELEMENTS - CAPABLE OF SAFELY PASSING 100-YEAR FLOOD WITH NO MORE THAN 1 FOOT DEPTH OVER DRIVEWAY SURFACE;
MAINTENANCE - SUFFICIENT TO INSURE ALL WEATHER USE.
16. THE EXISTING 100 YEAR FLOODPLAIN IS BASED ON A STUDY PREPARED BY MILDENBERG, BOENDER & ASSOCIATES, INC. AND DATED AUGUST 2005 FOR THE ADJACENT SPD-06-030 PLAN. THIS STUDY IS A REFINEMENT FOR A PORTION OF THE HOWARD COUNTY CAPITAL PROJECT A-80.
17. DECLARATION OF COVENANTS WILL BE EXECUTED FOR STORMWATER MANAGEMENT PRACTICES PROPOSED FOR THESE TWO LOTS.
18. THIS PROJECT IS SUBJECT TO A LETTER DATED AUGUST 18, 2010 AND SIGNED BY MR. RONALD G. LEFSON, CHIEF, BUREAU OF ENGINEERING APPROVING A WAIVER OF BASEMENT GRAVITY SEWER SERVICE TO LOTS 1 AND 2.



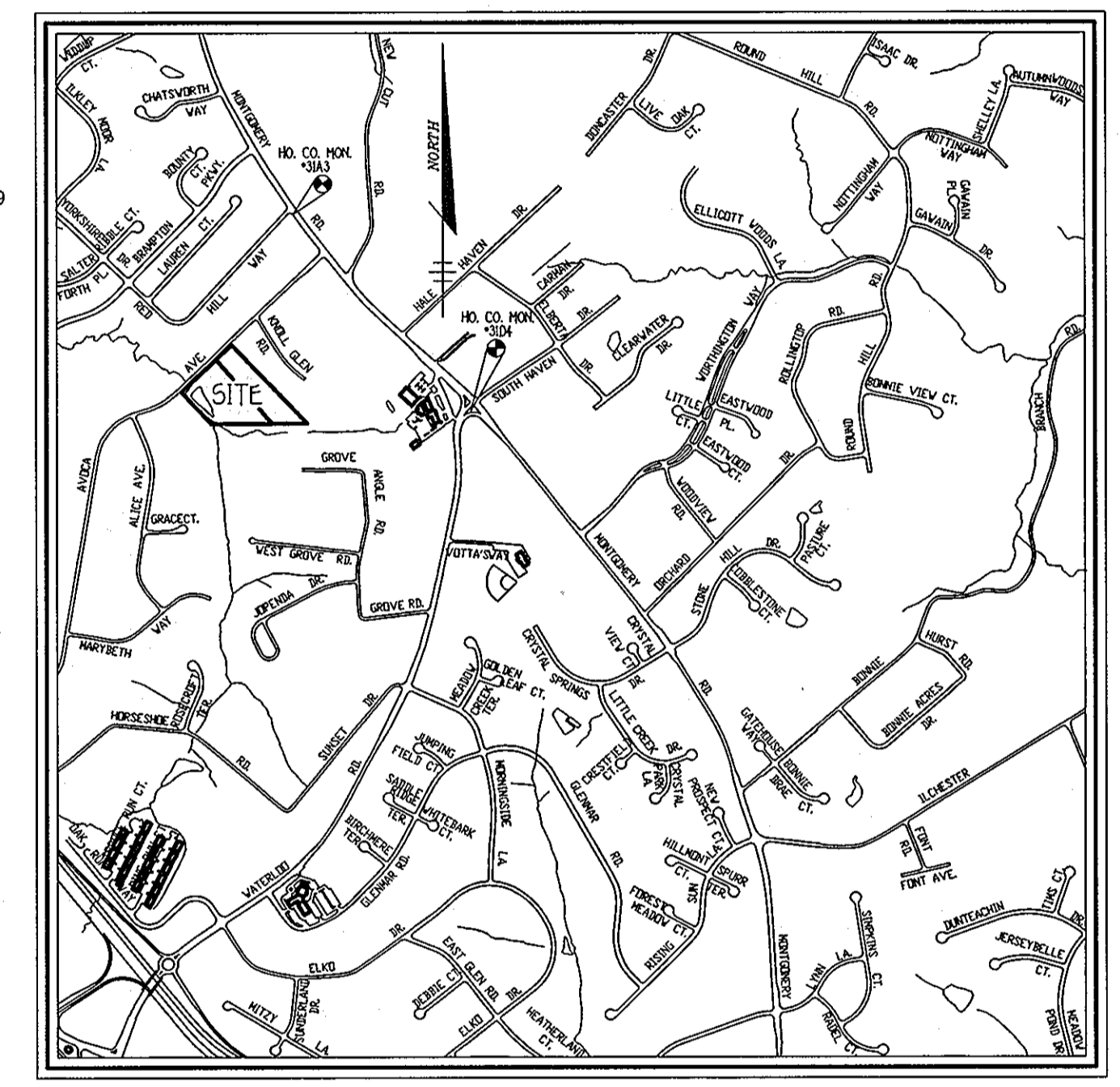
DETAIL
SCALE: 1" = 30'



MILBACH RESIDENCE

BENCH MARKS
HO. CO. MON. 31A3
N573217.9149 E1368237.7247 ELEV. 486.869
CONCRETE MONUMENT SET
CORNER RT-103 & RED HILL WAY

HO. CO. MON. 31D4
N571700.7034 E1369606.3599 ELEV. 494.405
CONCRETE MONUMENT SET
CORNER RT-103 & RT-104



LEGEND	
[Symbol]	Denotes Existing Structures to be removed
[Symbol]	Denotes Existing Asphalt to be removed
[Symbol]	Denotes Receiving Area for SWM
[Symbol]	Denotes Wetlands
[Symbol]	Denotes Ex. 25' Wetland Plat Nos. 19120 thru 19123
[Symbol]	Denotes Ex. Public 20' Sewer & Utility Easement L. 536 F. 451
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[Symbol]	Erosion Control Matting
[Symbol]	Ex. Water
[Symbol]	Ex. Sewer
[Symbol]	Limit of Disturbance
[Symbol]	FF First Floor Elevation
[Symbol]	BE Basement Elevation
[Symbol]	Silt Fence

SITE ANALYSIS DATA CHART

- A. TOTAL AREA OF THIS SUBMISSION = 7.28 AC.
- B. LIMIT OF DISTURBED AREA = 2.36 AC.
- C. PRESENT ZONING DESIGNATION = R-20 (PER 02/02/04 COMPREHENSIVE ZONING PLAN AND THE COMP-LITE ZONING AMENDMENTS DATED 07/28/05)
- D. PROPOSED USE: SINGLE FAMILY DETACHED
- E. FLOOR SPACE ON EACH LEVEL OF BUILDING: N/A
- F. TOTAL NUMBER OF UNITS ALLOCATED: 2 UNITS
- G. TOTAL NUMBER OF UNITS PROPOSED: 2 UNITS
- H. TOTAL NUMBER OF EMPLOYEES, TENANTS ON SITE PER USE: N/A
- I. OPEN SPACE ON SITE: N/A
- J. RECREATIONAL AREA PROVIDED: N/A
- K. BUILDING COVERAGE OF SITE: N/A
- L. PREVIOUS HOWARD COUNTY FILES: N/A
- M. TOTAL AREA OF FLOODPLAIN LOCATED ON SITE 143 AC.
- N. TOTAL AREA OF SLOPES IN EXCESS OF 25% = 0.000 AC.
- O. NET TRACT AREA = 5.95 AC.
(TOTAL SITE AREA - FLOODPLAIN - STEEP SLOPES AREA)
(7.28 AC. - 1.43 AC. - 0.000 AC.)
- P. TOTAL AREA OF WETLANDS (INCLUDING BUFFER) = 2.57 AC.
- Q. TOTAL AREA OF FOREST = 343 AC.
- R. TOTAL GREEN OPEN AREA = 4.18 AC.
- S. TOTAL IMPERVIOUS AREA = 0.30 AC.

STREET ADDRESS CHART	
LOT NO.	STREET ADDRESS
1	4869 AVOCA AVENUE
2	4863 AVOCA AVENUE

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTRAL SQUARE OFFICE PARK - 399 - 10.46g, 12/15/2010 2:09:27 PM, bny

PROFESSIONAL CERTIFICATION
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A FULLY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO. 20794, EXPIRATION DATE: 2/22/11.
Robert Allen
DATE: 12-15-10

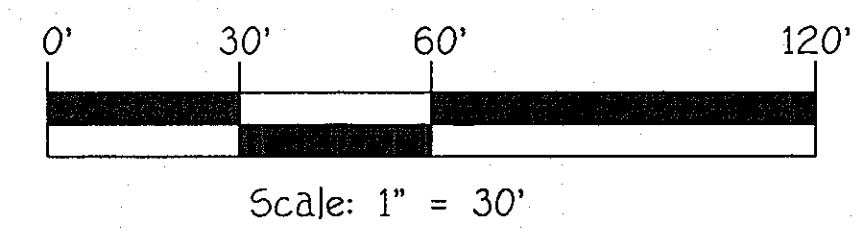
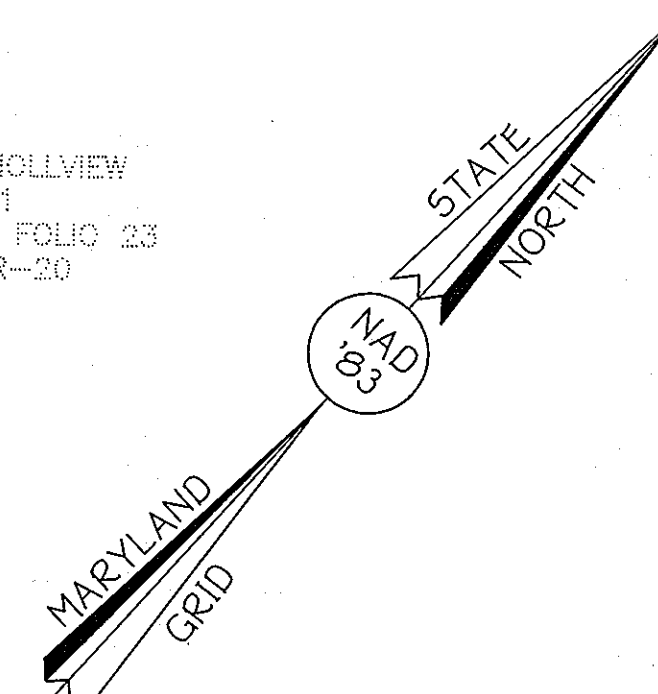
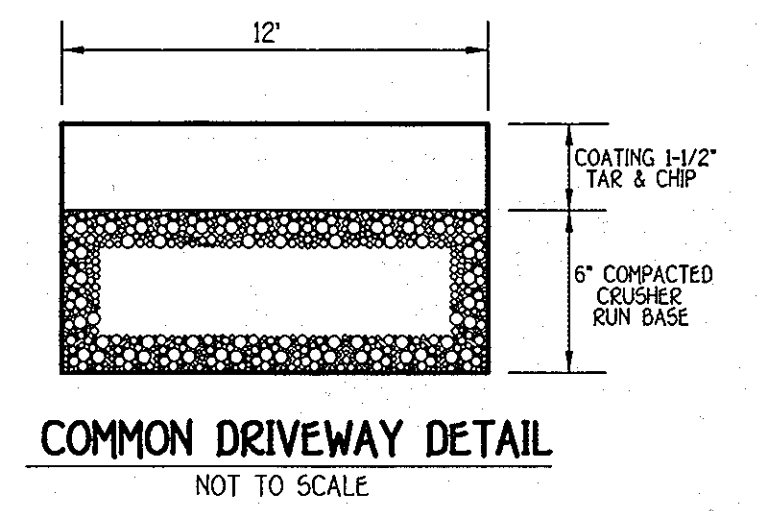
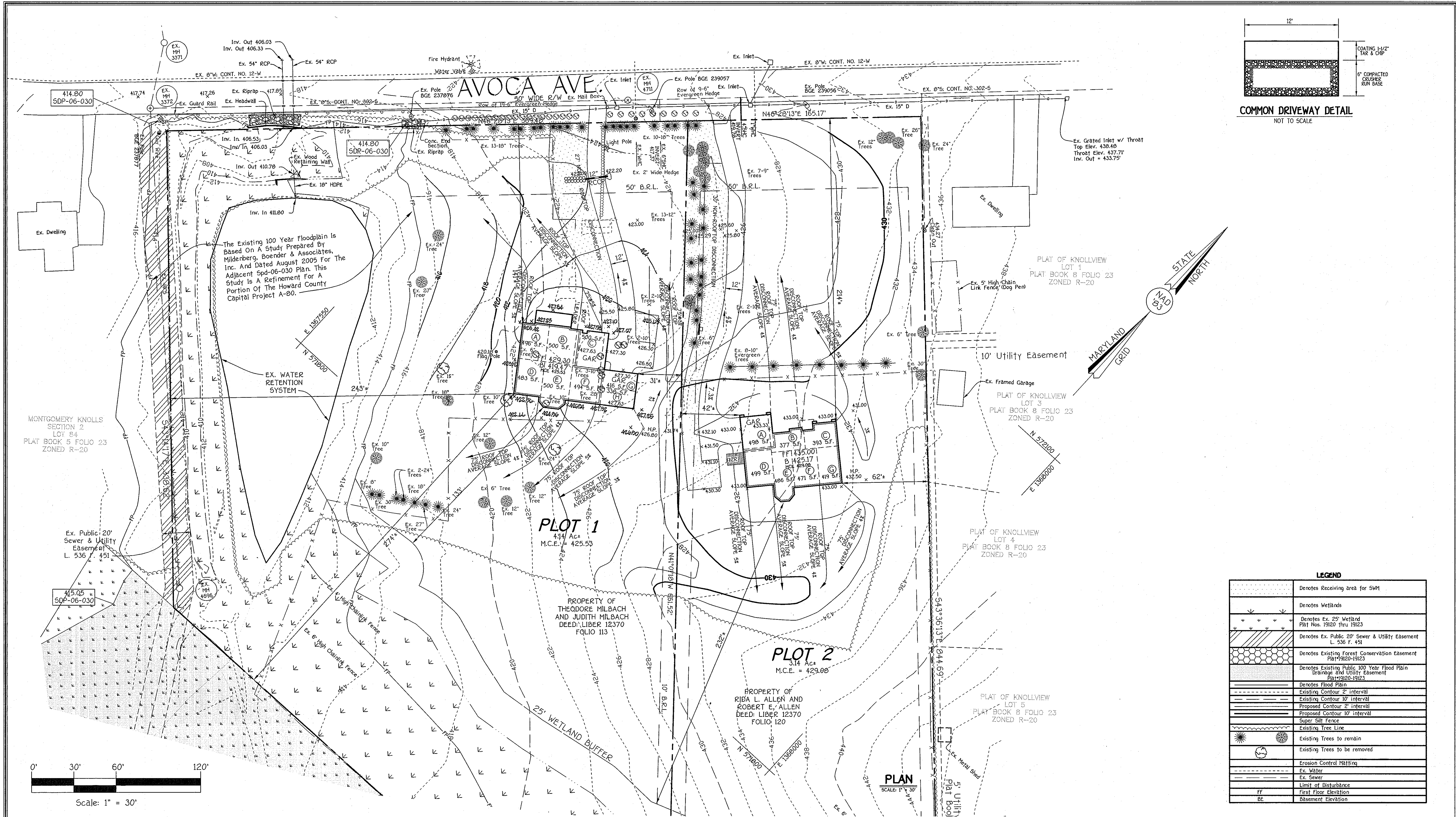
OWNERS
THEODORE AND JUDITH MILBACH
12409 NEW HAMPSHIRE AVE.
SILVER SPRING, MARYLAND 20904

BUILDER
RIDA AND ROBERT ALLEN
6332 SUNHIGH PL.
COLUMBIA, MARYLAND 21045

STEVENS BUILDERS
C/O MARK STEVENS
4714 LINTHICUM RD
DAYTON, MD 21036
410-531-2100

APPROVED: DEPARTMENT OF PLANNING AND ZONING			
<i>Thomas J. Buttle</i> Director - Department of Planning and Zoning	12/20/10	Date	
<i>Robert Allen</i> Chief, Department of Land Development	12/20/10	Date	
<i>William Steves</i> Chief, Development Engineering Division	12/20/10	Date	
SUBDIVISION	AVOCA AVENUE	SECTION/AREA	N/A
PLAT BOOK 6	PARCEL NO. 357	ZONE	R-20
TAX MAP	31	ELEC. DIST.	2nd
WATER CODE	G-01	SEWER CODE	5750673
LOT NO.	1 & 2		
CENSUS TR.	60101		

SITE DEVELOPMENT PLAN
TITLE SHEET
AVOCA AVENUE
(PAUL T. MCHENRY)
Plat Book 6 Page 08
PLOTS 1 AND 2
TAX MAP No.: 31 GRID No.: 7 PARCEL No.: 357
2nd ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SCALE: AS SHOWN DATE: DECEMBER, 2010
SHEET 1 OF 4



LEGEND

[Symbol]	Denotes Receiving area for SWM
[Symbol]	Denotes Wetlands
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FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTENAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
ELLCOTT CITY, MARYLAND 21042
410-441-2925

DATE	DESCRIPTION	REVISION BLOCK
09/20/11	REV. LOT 1 AND 2, TO SHOW "AS BUILT" CONDITIONS	

PROFESSIONAL CERTIFICATION
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 20784, EXPIRATION DATE: 2/22/11.
W. M. W. W.
12/15/10
DATE

OWNERS
THEODORE AND JUDITH MILBACH
12409 NEW HAMPSHIRE AVE.
SIVLER SPRING, MARYLAND 21094

BUILDER
RIDA AND ROBERT ALLEN
6332 SUNHIGH PL
COLUMBIA, MARYLAND 21045

STEVENS BUILDINGS
C/O MARK STEVENS
4714 LINTHICUM RD
DAYTON, MD 21036
410-531-2100

APPROVED: DEPARTMENT OF PLANNING AND ZONING
Thomas & Buttle
Director - Department of Planning and Zoning
12/20/10
Date

Robert Allen
Chief, Division of Land Development
12/20/10
Date

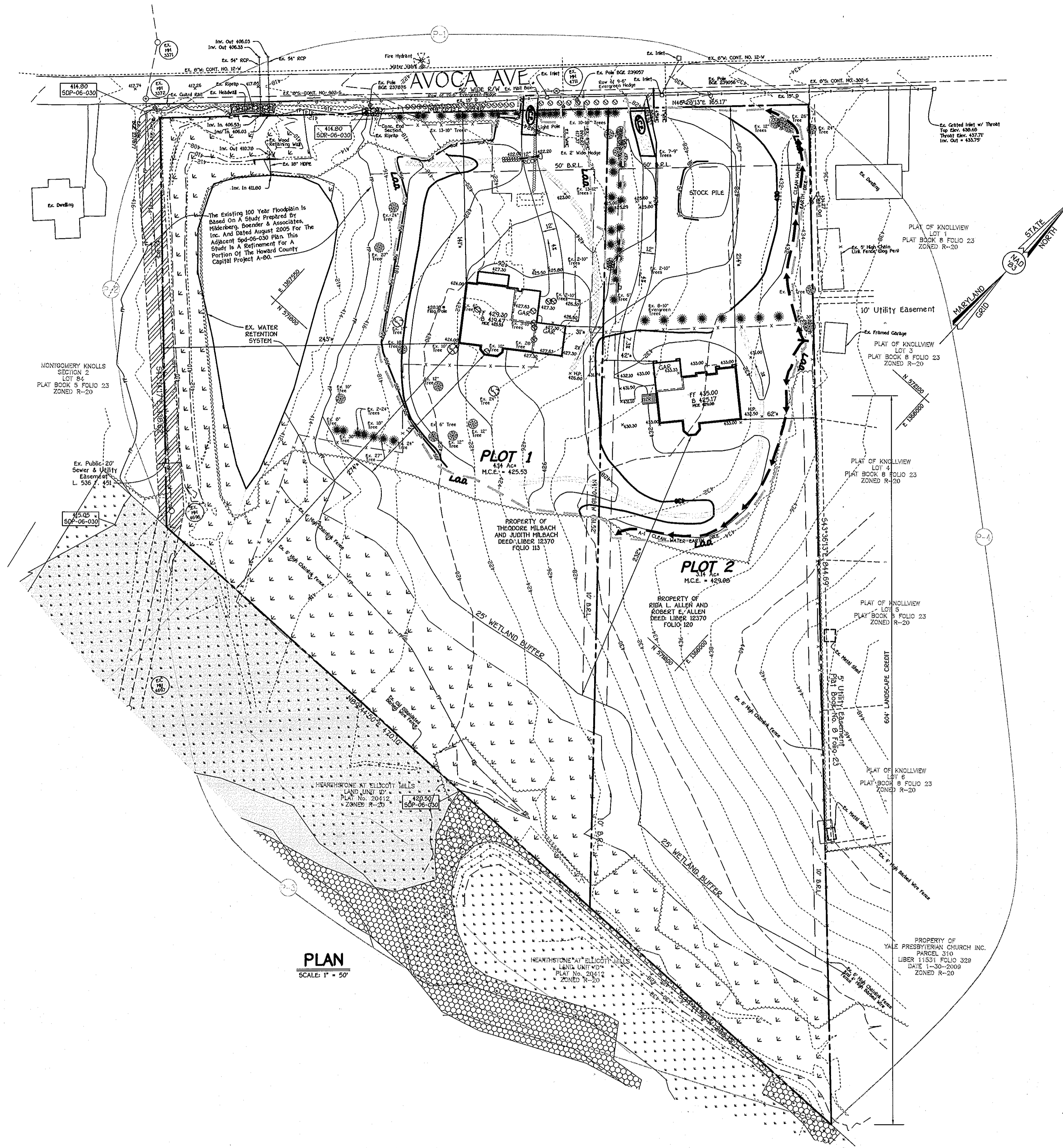
W. M. W. W.
Chief, Development Engineering Division
12/20/10
Date

SUBDIVISION	SECTION/AREA	LOT NO.
AVOCA AVENUE	N/A	1 & 2

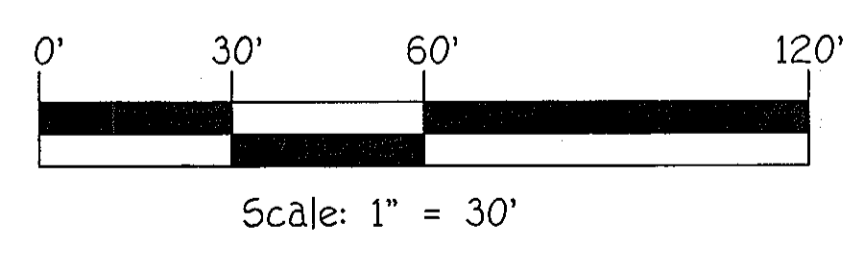
PLAT BOOK	PARCEL NO.	ZONE	TAX MAP	ELEC. DIST.	CENSUS TR.
6	357	R-20	31	2nd.	60101

WATER CODE: G-01
SEWER CODE: 5750673

SITE DEVELOPMENT PLAN
AVOCA AVENUE
(PAUL T McHENRY)
Plat Book 6 Page 88
PLOTS 1 AND 2
TAX MAP No.: 31 GRID No.: 7 PARCEL No.: 357
2nd ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SCALE: AS SHOWN DATE: DECEMBER, 2010
SHEET 2 OF 4



SCHEDULE A PERIMETER LANDSCAPE EDGE				
PERIMETER CATEGORY	P-1 ADJACENT TO ROAD	P-2 ADJACENT TO RES.	P-3 ADJACENT TO RES.	P-4 ADJACENT TO RES.
LANDSCAPE TYPE	B	A	A	A
LINEAR FEET OR ROADWAY FRONTAGE/PERIMETER	535'	339'	470'	845'
CREDIT FOR EXISTING VEGETATION (YES NO LINEAR FEET) (DESCRIBE BELOW IF NEEDED)	—	100%	100%	—
CREDIT FOR WALL, FENCE OR BERM (YES NO LINEAR FEET) (DESCRIBE BELOW IF NEEDED)	NO	NO	NO	NO
NUMBER OF PLANTS REQUIRED SHADE TREES EVERGREEN TREES SHRUBS	N/A	0	0	0



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FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 CENTENNIAL SQUARE OFFICE PARK • 10272 BALTIMORE NATIONAL PRZ
 ELICOTT CITY, MARYLAND 21042
 410.461.2255

DATE	DESCRIPTION REVISION BLOCK

ENGINEER'S CERTIFICATE
 "I certify that this plan for erosion and sediment control represents a practical and workable plan based on the personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District."

Signature: *[Signature]* Date: 12/15/10
 ALDO M. VITUCCI
 Engineer/Developer's Certificate

"I/we certify that the 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: *[Signature]* Date: 12-15-10

This development plan is approved for soil erosion and sediment control by the HOWARD SOIL CONSERVATION DISTRICT.

Signature: *[Signature]* Date: 12/16/10
 John R. Robertson
 Howard SCD

OWNERS
 THEODORE AND JUDITH MILBACH
 12409 NEW HAMPSHIRE AVE.
 SIVLER SPRING MARYLAND 20904

BUILDER
 STEVENS BUILDERS
 C/O MARK STEVENS
 4714 LINTHICUM RD
 DAYTON, MD 21036
 410-531-2100

APPROVED: DEPARTMENT OF PLANNING AND ZONING

Signature: *[Signature]* Date: 12/20/10
 Director - Department of Planning and Zoning

Signature: *[Signature]* Date: 12/20/10
 Chief, Division of Land Development

Signature: *[Signature]* Date: 12/20/10
 Chief, Development Engineering Division

SUBDIVISION	AVOCA AVENUE	SECTION/AREA	N/A	LOT NO.	1 & 2
PLAT BOOK 6	PARCEL NO. 357	ZONE	R-20	TAX MAP	31
ELEC. DIST.	2nd	CENSUS TR.	601101	WATER CODE	G-01
SEWER CODE	5750673				

SITE DEVELOPMENT PLAN
SEDIMENT AND EROSION CONTROL AND LANDSCAPE PLAN
AVOCA AVENUE
 (PAUL T McHENRY)
 Plat Book 6 Page 88
 PLOTS 1 AND 2
 TAX MAP No.: 31 GRID No.: 7 PARCEL No.: 357
 2nd ELECTION DISTRICT HOWARD COUNTY, MARYLAND
 SCALE: AS SHOWN DATE: DECEMBER, 2010
 SHEET 3 OF 4

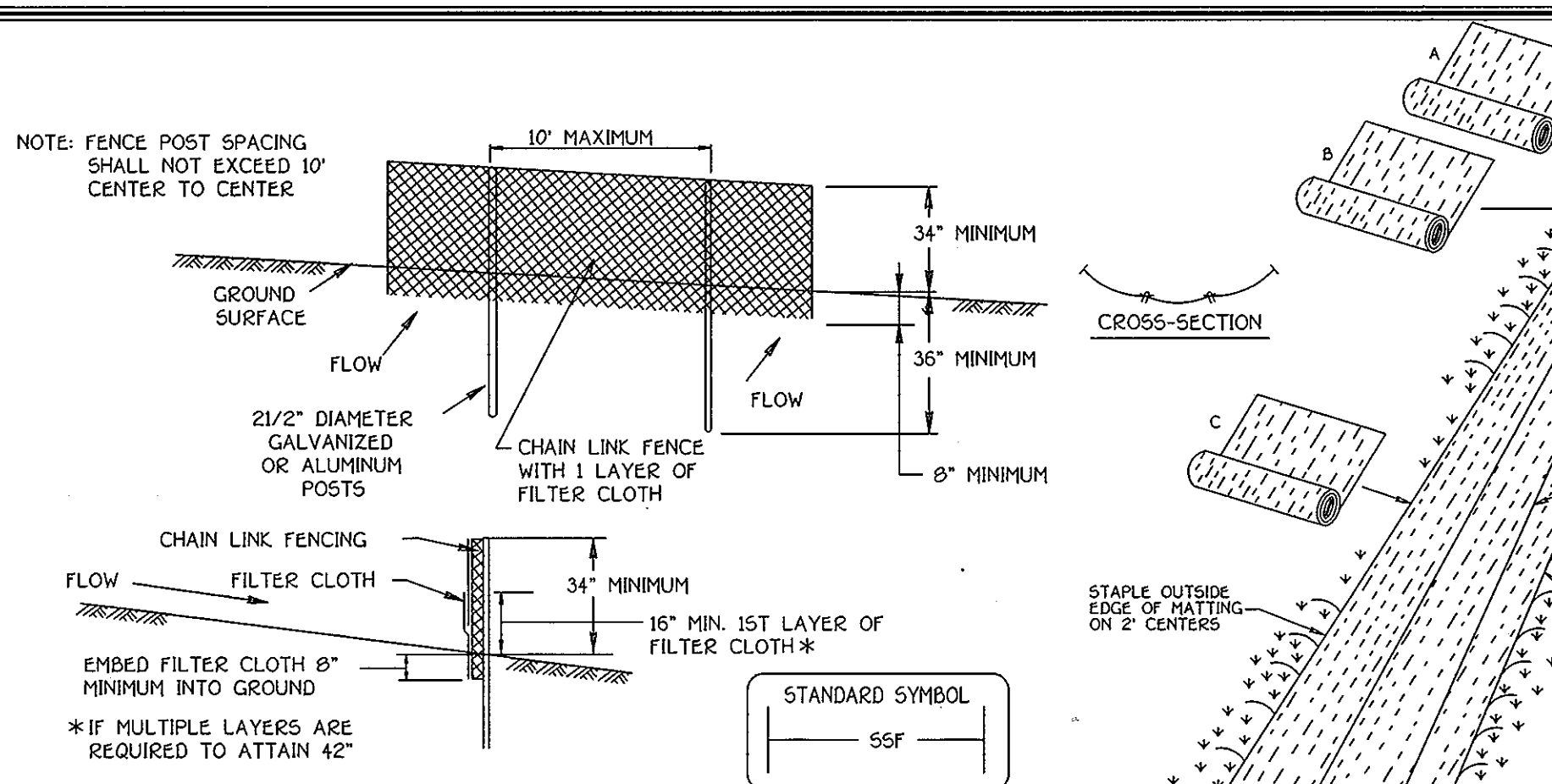
20.0 STANDARDS AND SPECIFICATIONS FOR VEGETATIVE STABILIZATION

DEFINITION
Using vegetation as cover for barren soil to protect it from forces that cause erosion.
Vegetative stabilization specifications are used to promote the establishment of vegetation on exposed soil.

CONDITIONS WHERE PRACTICE APPLIES
This practice shall be used on eroded areas as specified on the plans and may be used on highly erodible or critically eroding areas.

SECTION 1 - VEGETATIVE STABILIZATION METHODS AND MATERIALS
A. Site Preparation
1. Install erosion and sediment control structures (either temporary or permanent) such as diversions, grade stabilization structures, berms, waterways, or sediment control basins.

ii. Wood Cellulose Fiber Mulch (WCFM)
a. WCFM shall consist of specially prepared wood cellulose processed into a uniform fibrous physical state.



Construction Specifications
1. Fencing shall be 42" in height and constructed in accordance with the latest Maryland State Highway Details for Chain Link Fencing.

Table with 4 columns: Slope, Slope Steepness, Slope Length (Maximum), and Silt Fence Length (Maximum). It lists specifications for slopes from 0-10% to 50%+.

Incremental Stabilization - Cut Slopes
1. All cuts slopes shall be dressed, prepared, seeded and mulched as the work progresses. Slopes shall be excavated and stabilized in equal increments not to exceed 15'.

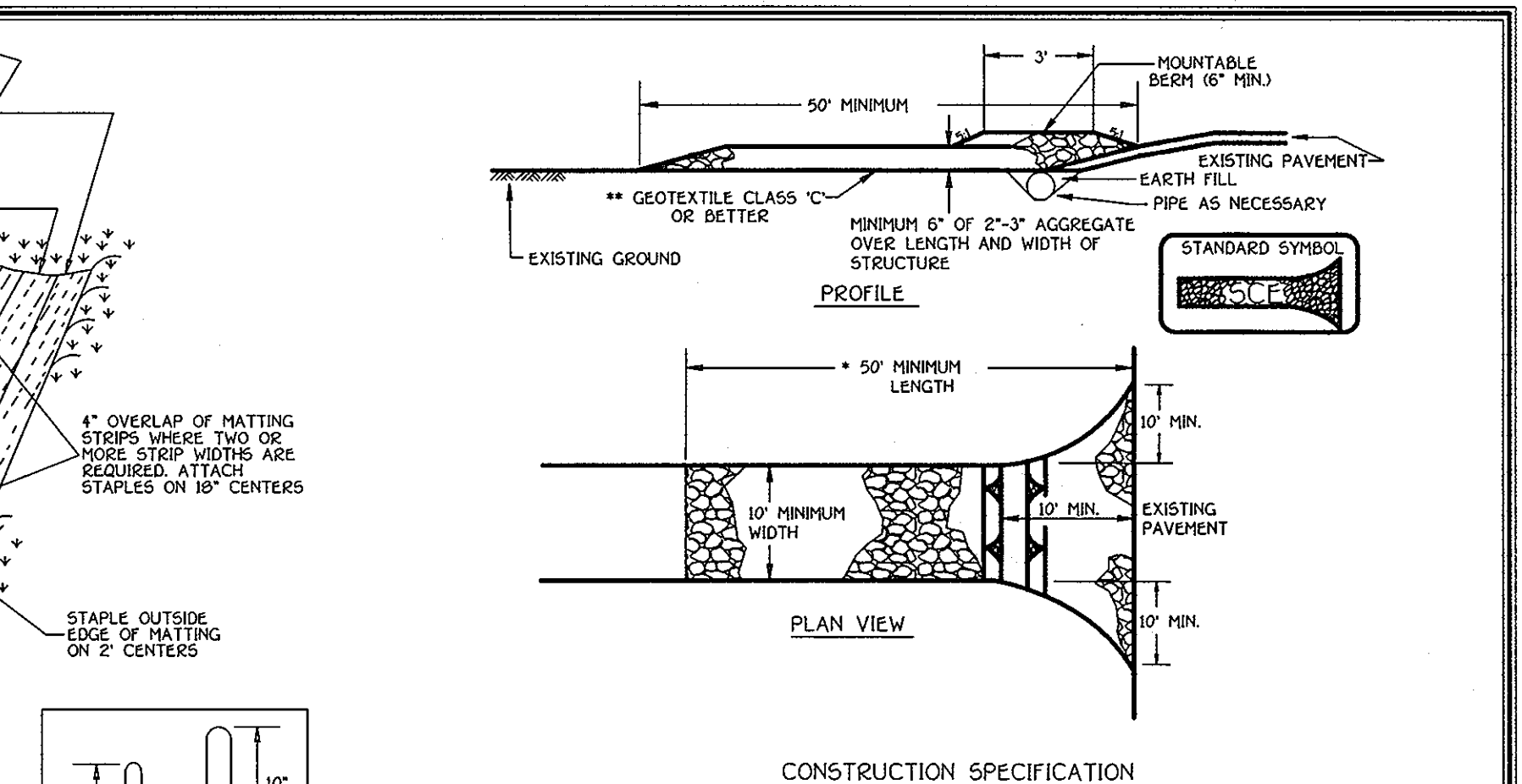
SECTION 2 - TEMPORARY SEEDING
Vegetation - Annual grass or grain used to provide cover on disturbed areas for up to 12 months. For longer duration of vegetative cover, Permanent Seeding is required.

Table for Seed Mixture (Temporary Seeding) with columns for Seed Mixture, Application Rate, Seeding Dates, Seeding Depths, Fertilizer Rate, and Lime Rate.

SECTION 3 - PERMANENT SEEDING
Seedling grass and legumes to establish ground cover for a minimum of one year on disturbed areas generally receiving low maintenance.

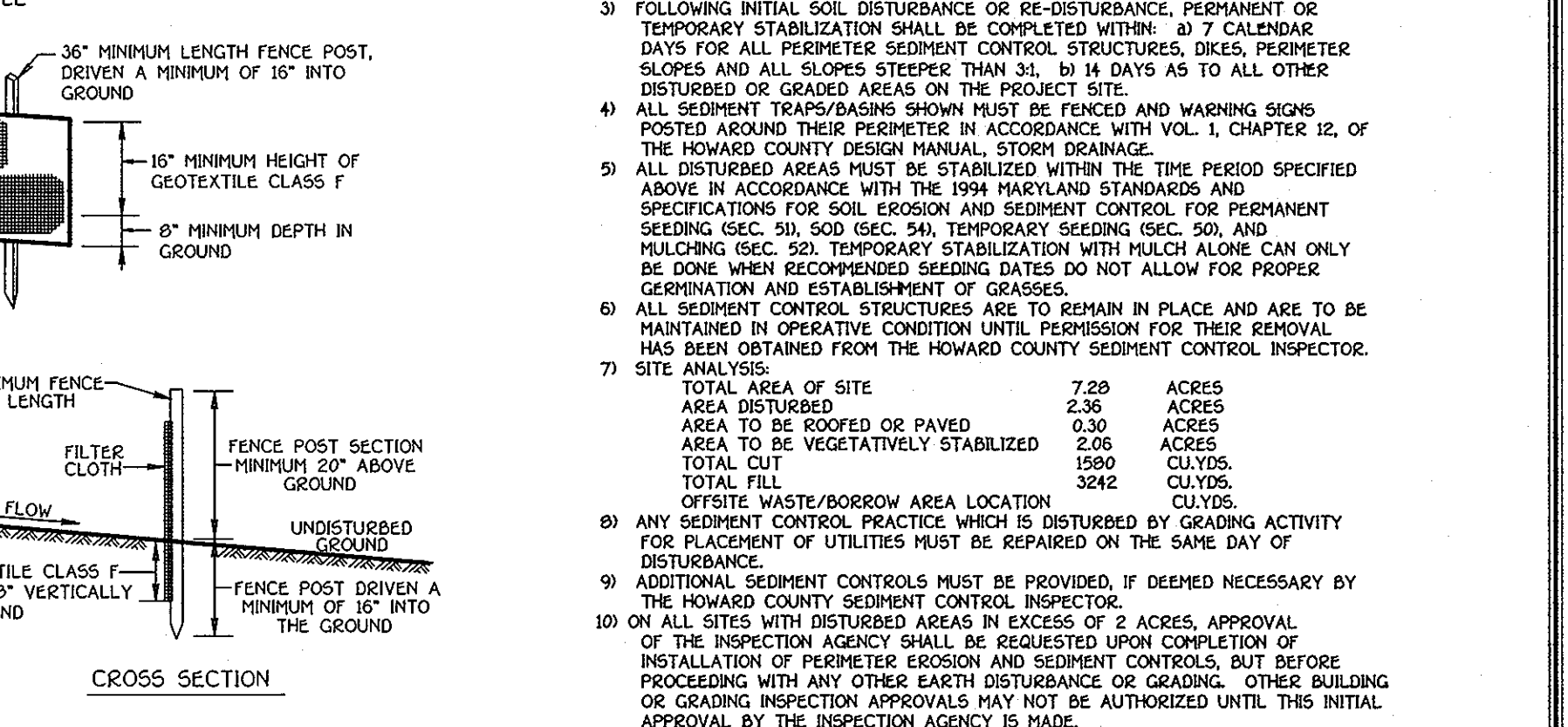
Table for Seed Mixture (Permanent Seeding) with columns for Seed Mixture, Application Rate, Seeding Dates, Seeding Depths, Fertilizer Rate, and Lime Rate.

SEQUENCE OF CONSTRUCTION
1. OBTAIN GRADING PERMIT 1 DAY
2. INSTALL SEDIMENT EROSION CONTROL DEVICES AS SHOWN ON PLAN 5 DAYS



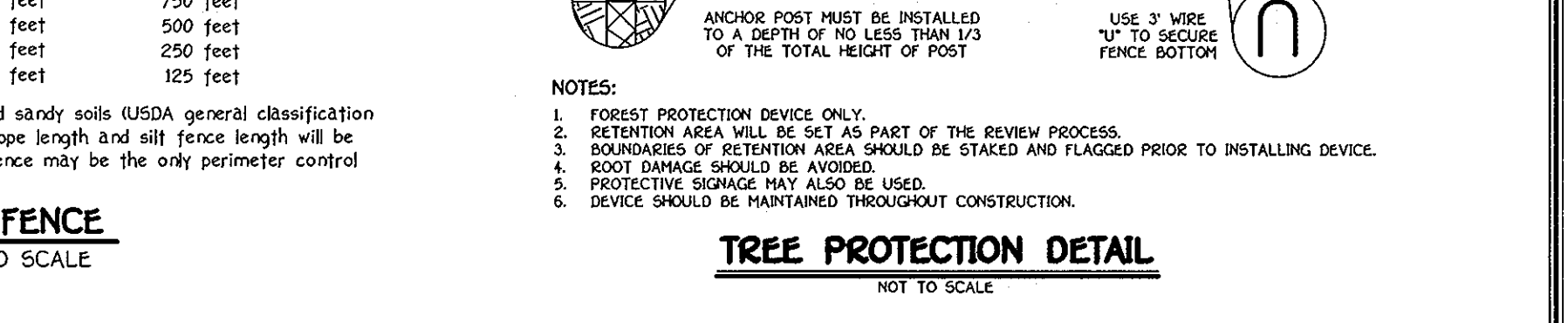
CONSTRUCTION SPECIFICATION
1. LENGTH - MINIMUM OF 50' LONG FOR SINGLE RESIDENCE, LONGER FOR MULTIPLE RESIDENCES.
2. WIDTH - 10' MINIMUM, SHOULD BE FLAGGED AT THE EXISTING ROAD TO PROVIDE A TURNING RADIUS.

STABILIZED CONSTRUCTION ENTRANCE 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 (48-1855).



CONSTRUCTION SPECIFICATIONS
1. KEY-IN THE MATTING BY PLACING THE TOP ENDS OF THE MATTING IN A NARROW TRENCH 6" IN DEPTH. BACKFILL THE TRENCH AND TAMP FIRMLY TO CONFORM TO THE CHANNEL CROSS-SECTION.

Table with 4 columns: Slope Steepness, Slope Length (Maximum), and Silt Fence Length (Maximum). It lists specifications for slopes from 0-10% to 21%+.



CONSTRUCTION SPECIFICATIONS
1. Fence posts shall be a minimum of 36" long driven 15" minimum into the ground.
2. Seed and cover with Erosion Control Matting or line with sod.

Table for Silt Fence Design Criteria with columns for Slope Steepness, Slope Length (Maximum), and Silt Fence Length (Maximum).

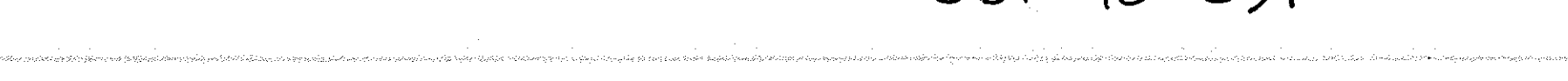


Table with 2 columns: DATE and DESCRIPTION/REVISION. It contains a list of revisions for the drawing.

ENGINEER'S CERTIFICATE and OWNER'S/BUILDER'S CERTIFICATE sections. Includes signatures and dates for the engineer (John K. Robert), owner (Theodore and Judith Milbach), and builder (Stevens Builders).

APPROVED: DEPARTMENT OF PLANNING AND ZONING. Includes signatures and dates for the Director (Thomas & Buller) and the Chief of the Development Engineering Division.

SUBDIVISION AVOCA AVENUE. Table with columns for PLAT BOOK, PARCEL NO., ZONE, TAX MAP, ELEC. DIST., and CENSUS TR.

SITE DEVELOPMENT PLAN SEDIMENT AND EROSION CONTROL NOTES & DETAILS. AVOCA AVENUE (PAUL T McHENRY). Includes project details, scale, and sheet information.