- LOCATION: TAX MAP 31; BLOCK 1 & 8; PARCEL '10', LOTS 1-5 5TH ELECTION DISTRICT
- EXISTING ZONING: R-20 SUBDIVISION: GLEN MAR METHODIST CHURCH
- DPZ_REFERENCES: BA-02-36C; WP-04-122; SDP-04-042 GROSS AREA OF PROJECT: 21.0966 AC (918,968 SF) AREA OF STEEP SLOPES: 1.04 AC (45229 SF)
- NET AREA OF PROJECT: 21.0966 AC APPROXIMATE LIMIT OF DISTURBANCE: 3.08 AC (134,133 SF±)

GENERAL NOTES

ALL ASPECTS OF THE PROJECT ARE IN CONFORMANCE WITH THE LATEST HOWARD COUNTY STANDARDS UNLESS WAIVERS HAVE BEEN APPROVED. 2. DEED REFERENCES: 5044/333

- 3. THE PROJECT BOUNDARY IS BASED ON A BOUNDARY SURVEY PERFORMED BY FREDERICK WARD ASSOCIATES, INC DATED
- 4. THE TOPOGRAPHY SHOWN HEREON IS BASED ON A FIELD RUN SURVEY PROVIDED BY FREDERICK WARD ASSOCIATES, INC DATED MAY 22, 2001.
- 5. COORDINATE DATUM IS BASED ON THE MARYLAND COORDINATE SYSTEM (NAD '83) AS PROJECTED BY THE FOLLOWING HO.CO. GEODETIC CONTROL STATIONS: 31D4 & 31A3
- 6. WATER AND SEWER FOR THIS PROJECT TO TIE TO A PUBLIC SYSTEM EXISTING WATER: 12 -- W EXISTING SEWER: 20-3339
- STORMWATER MANAGEMENT SERVING THE PROPOSED PUBLIC ROAD WILL BE INCLUDED IN THIS SUBMISSION. CDV IS NOT REQUIRED FOR THIS PROJECT (Q' < 2.0 c.f.s.). WQV AND Rev PROVIDED BY PROPOSED BIORETENTION FACILITY. THE PROPOSED STORMWATER MANAGEMENT FACILITY TO BE PRIVATELY OWNED AND MAINTAINED BY GLEN MAR UNITED METHODIST CHURCH. STORMWATER MANAGEMENT FOR THE BALANCE OF THE DEVELOPMENT TO BE ADDRESSED AT THE SITE DEVELOPMENT PLAN STAGE. STORMWATER MANAGEMENT IS IN ACCORDANCE WITH THE 2000 MARYLAND STORMWATER DESIGN MANUAL.
- PROVIDED BY ENGINEERING CONSULTING SERVICES, INC DATED MAY 15, 2003. 9. WETLANDS DELINEATED BY FREDERICK WARD ASSOCIATES, INC. DATED AUGUST 2003.

8. STORMWATER MANAGEMENT SOIL BORINGS FOR THIS SITE ARE BASED ON A GEOTECHNICAL ANALYSIS

- 10. AREA OF SLOPES 25% OR GREATER CONTIGUOUS OF 20,000 SF OR MORE: 42,644.72 SF(0.99 AC.) 11. THERE ARE NO HOODPLAINS ON THIS SITE.
- 12. FOREST STAND DELINEATION PLAN PREPARED BY FREDERICK WARD ASSOCIATES, INC. DATED SEPTEMBER 2003. 13. TRAFFIC STUDY PREPARED BY THE TRAFFIC GROUP, DATED JULY 25, 2003. 14. A NOISE STUDY IS NOT REQUIRED FOR THIS SITE SINCE IT IS NON-RESIDENTIAL.
- 15. THE FOREST CONSERVATION OBLIGATIONS FOR THE DEVELOPMENT OF THESE LOTS WILL BE MET AND PROVIDED WITH THE SITE DEVELOPMENT PLAN FOR GLEN MAR UNITED METHODIST CHURCH, LOTS 1-5, SDP-04-042, OR ANY SUBSEQUENT SITE DEVELOPMENT PLAN FOR THESE LOTS IF SDP-04-042 DOES NOT OBTAIN APPROVAL. 16. SEDIMENT AND EROSION CONTROL WILL BE PROVIDED FOR THIS SITE.
- 17. THIS PROPERTY IS WITHIN THE METROPOLITAN DISTRICT.
- 18. THE PROPOSED STORMWATER MANAGEMENT FACITLITY IS TO BE PRIVATELY OWNED AND MAINTAINED BY GLEN MAR UNITED METHODIST CHURCH..
- 19. REFERENCE WP-04-122, APPROVED MAY 14, 2004; TO WAIVE SECTIONS 16.144(a) & (f) TO NOT REQUIRE THE SUBMISSION AND APPROVAL OF SKETCH AND PRELIMINARY PLANS FOR A MAJOR SUBDIVISION OF PARCEL 10 THAT WILL INVOLVE PUBLIC ROAD IMPROVEMENTS, SUBJECT TO THE FOLLOWING CONDITIONS: 1. DEVELOPER WILL BE REQUIRED TO OBTAIN AND MEET ALL TERMS AND CONDITIONS OF A REQUIRED ACCESS PERMIT PRIOR TO ANY CONSTRUCTION IN THE SHA RIGHT-OF-WAY.
- 20. REFERENCE SDP-04 42 FOR STORMWATER FOR GLEN MAR UNITED METHODIST CHURCH. 21. ONLY THE REQUIRED PUBLIC ROAD STREET TREES AND THE REQUIRED PLANTING OF THE BIORETENTION SWMF ARE PROVIDED ON THE CERITIFIED PLANTING PLAN INCLUDED IN THIS ROAD CONSTRUCTION PLAN SET. ALL OTHER LANDSCAPE/PLANTING OBLIGATIONS FOR THE DEVELOPMENT OF THESE LOTS WILL BE MET AND PRIVIDED WITH THE SITE DEVELOPMENT PLAN FOR GLEN MAR UNITED METHODIST CHURCH, LOTS 1-5, SDP-04-042, OR ANY SUBSEQUENT SITE DEVELOPMENT PLANS FOR THESE LOTS IF SDP-04-042 DOES NOT OBTAIN APPROVAL.
- 2. THIS PLAN IS SUBJECT TO BA-02-36C, APPROVED NOVEMBER 18, 2002, FOR CONDITIONAL USES FOR A STRUCTURE USED PRIMARILY FOR RELIGIOUS ACTIVITIES AND FOR A CHILD DAY CARE AND NURSERY SCHOOL IN AN R-20 ZONING DISTRICT, FILED PURSUANT TO SECTIONS 131,N,38 AND SECTION 131,N,13 OF THE HOWARD COUNTY ZONING REGULATION; PROVIDED, HOWEVER, THAT THE CONDITIONAL USES WILL APPLY ONLY TO THE USES AND STRUCTURES AS DESCRIBED IN THE PETITION AND CONDITUIONAL USE PLAN SUBMITTED, AS AMENDED HEREBY, AND NOT TO ANY OTHER ACTIVITIES, USES, STRUCTURES, OR ADDITIONS ON THE PROPERTY.
- SPECIFIC CRITERIA FOR RELIGIOUS ACTIVITIES, STRUCTURES USED PRIMARILY FOR (SECTION 131.N.38) . THE PROPOSED BUILDING WILL COVER APPROXIMATELY 45,635 SF., WHICH IS NO MORE THAN 5% OF THE LOT SIZE. THE LOT COVERAGE WILL THEREFORE NOT EXCEED THE MAXIMUM OF 25% AS REQUIRED BY SECTION 131.N.38(A).
- 2. THE PROPOSED STRUCTURE WILL BE 43 FEET IN HEIGHT, WHICH IS ABOVE THE MAXIMUM HEIGHT LIMITATION OF 34 FEET IN THE R 20 ZONE. THIS HEIGHT IS PERMITTED UNDER SECTION 131.N.38 OF THE MINIMUM SETBACKS ARE INCREASED BY 9 FEET. THE STRUCTURE IS SET BACK 126 FEET FROM NEW CUT ROAD TO THE EAST AND 49 FEET FROM NEW CUT ROAD TO THE WEST. THESE SETBACKS WELL EXCEED THE MINIMUM OF 59 FEET AND 49 FEET, RESPECTIVELY. THE STRUCTURE WILL
- THEREFORE COMPLY WITH SECTION 131.N.38(B). SPECIFIC CRITERIA FOR CHILD DAY CARE CENTERS AND NURSERY SCHOOLS, DAY TREATMENT AND CARE FACILITIES (SECTION 131.N.13) 1. THE INTERNAL DRIVEWAY LEADS TO TWO DROP-OFF AREAS ADJACENT TO SIDEWALKS LOCATED NEAR THE
- MAIN ENTRANCE AND NEAR THE EDUCATIONAL WING, PROVIDING SAFE CIRCULATION IN ACCORDANCE WITH THE PROPOSED FACILITY IS NOT LOCATED IN A INDUSTRIAL COMMERCIAL DISTRICT; THEREFORE, SECTION 131.N.13.B. DOES NOT APPLY.
- 3. AT 500 GROSS FEET AREA OF LOT PER CHILD, A LOT OF 3.95 ACREAS WOULD BE REQUIRED T ACCOMMODATE THE 344 CHILDREN (184 DAYCARE CHILDREN PLUS 160 NURSERY SCHOOL CHILDREN WHO WILL USE THE SITE. THE 22.36 ACRE SITE IS MORE THAN ADEQUATE TO MEET THE STANDARD OF SECTION 131.N.13.C.
- 4. THE TWO PROPOSED PLAYGROUNDS WILL BE FENCED AND LOCATED TO THE SIDES OF THE PRINCIPAL STRUCTURES. EACH WILL BE LOCATED MORE THAN 230 FEET FROM THE NEAREST DWELLING AND SCREENED BY PERIMETER LANDSCAPING. THE PLAYGROUNDS THEREFORE MEET THE REQUIREMENTS OF SECTION 1.31 N 1.3 D
- 5. THE PARKING AREAS WILL BE LOCATED TOWARD THE CENTER OF THE SITE AND WILL BE WELL SET BACK FROM ADJACENT RESIDENTAL PROPERTIES. THEY ARE ALSO ADEQUATELY BUFFERED BY THE LANDSCAPING, IN ACCORDANCE WITH SECTION 131.N.13.E.
- 6. THE DESIGN AND MASSING OF THE BUILDING, GIVEN THE SIZE OF THE SITE AND THE EXTENSIVE SETBACKS AND LANDSCAPING TO BE PROVIDED, WILL BE GENERALLY COMPATIBLE WITH THE RESIDENTIAL PROPERTIES IN THE VICINITY, IN ACCORDANCE WITH SECTION 131.N.13.F. THE PROPOSED FACILITY WILL BE IN A RESIDENTIAL DISTRICT AND HAVE A CAPACITY OF MORE THAN
- (1) THE PROPERTY FRONTS ON MONTGOMERY ROAD, A MINOR ARTERIAL, AND WILL FRONT ON THE NEW NEW CUT ROAD. A MAJOR COLLECTOR. THIS SITE WILL HAVE DIRECT ACCESS TO NEW CUT ROAD. THE SITE THEREFORE COMPLIES WITH SECTION 131.N.13.G(1). (2) THE PROPOSED BUILDING AND PLAY AREAS ARE LOCATED MORE THAN 50 FEET FROM ADJOINING PROPERTIES, IN COMPLIANCE WITH THE SETBACK REQUIREMENT OF SECTION 131.13.G(2). THE PARKING AREA IN THE SOUTHWEST PORTION OF THE LOT, HOWEVER, IS 29 FEET FROM THE ADJACENT PROPERTIES. I MAY REDUCE THIS SETBACK TO NO LESS THEN 20 FEET IF THE PROPERTY IS PROPERLY BUFFERED IN ACCORDANCE WITH SECTION 131N.13.G(2)(B). I FIND THAT THE TYPE C LANDSCAPE BUFFER PROPOSED FOR THE SOUTH END OF THE LOT, COMBINED WITH THE PROPOSED SETBACK OF 29 FEET, WILL PROVIDE AND EFFECTIVE AND ATTRACTIVE BUFFER FOR NEIGHBORING RESIDENTIAL
- PROPERTIES IN ACCORDANCE WITH THIS SECTION. (3) APPROXIMATELY 5.6 ACRES OF THE 11.51 ACRE BUILDING ENVELOPE, OR 48%, WILL BE GREEN SPACE. THIS EXCEED THE MINIMUM OF 20% GREEN SPACE REQUIRED BY SECTION 131.13.G(3). 23.34. THIS PROJECT IS SUBJECT TO COMPLIANCE WITH THE AMENDED FIFTH EDITION OF THE SUBDIVISION AND .AND DEVELOPMENT REGULATIONS.
- PLANNING AND ZONING FILE NUMBERS: S-02-03; F-99-25; F-86-13; P-03-02, BA-02-036C, SDP-04-042, WP-04-122... 25,34. NON-BUILDABLE OPEN SPACE LOT 5 HAS BEEN SUBDIVIDED TO BE CONVEYED TO HOWARD COUNTY FOR THE PURPOSE OF A PUBLIC ROAD. OT 2 IS NOT BUILDABLE SINCE IT DOES NOT MEET BULK REGULATIONS ON ITS OWN. NON-BUILDABLE OPEN SPACE LOT 2 IS INTENDED TO BE CONVEYED TO THE ADJACENT PROPERTY OWNER.
- 27,36. WETLANDS DELINEATED BY FREDERICK WARD ASSOCIATES, DATED AUGUST 2003. 242. THE FOREST CONSERVATION OBLIGATION OF 3.21 ACRES OF AFFORESTATION FOR SDP-04-042 AND THIS SUBDIVISION SHALL BE SATISFIED BY PROVIDING 2.99 ACRES OF ONSITE AFFORESTATION AND PAYMENT OF \$4,791.60 TO THE HO. CO. FOREST CONSERVATION FUND FOR THE REMAINING 0.22 ACRES OF AFFORESTATION.

SHEET INDEX

SHEET NO. 1 of 8 2 of 8

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DESCRIPTION

ROSION AND SEDIMENT CONTROL NOTES AND DETAILS

STORM DRAIN DRAINAGE AREA MAP AND BIORETENTION PLAN

SITE LAYOUT, GRADING, SEDIMENT AND EROSION CONTROL PLAN

ITE LAYOUT, GRADING, SEDIMENT AND EROSION CONTROL PLAN

ROAD PLANS, PROFILE AND SECTIONS

PLANTING PLAN

TORM DRAIN PROFILE AND SWM DETAILS

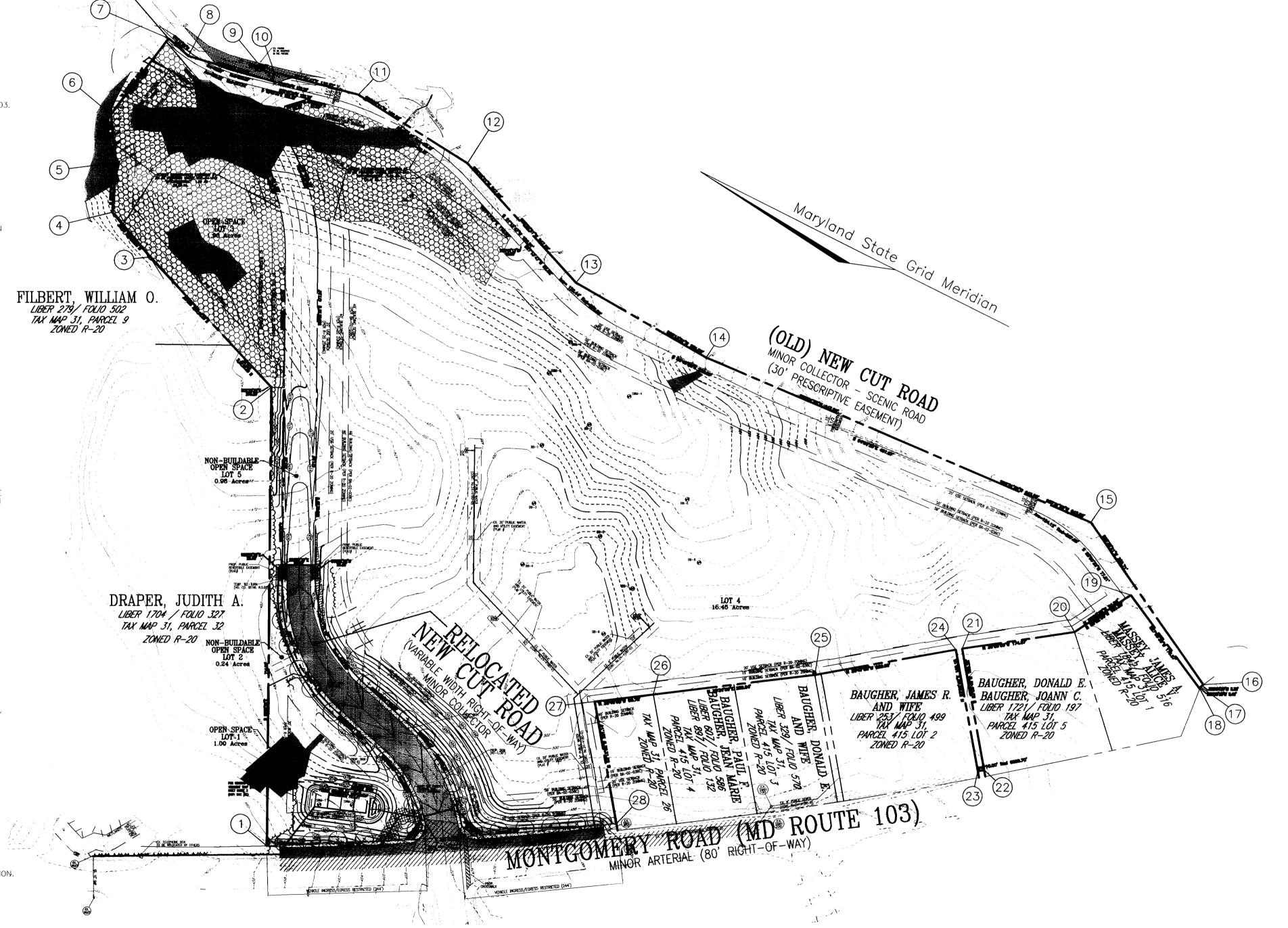
29.26. ANY ADDITIONAL PARKING AREAS THAT ARE ADDED IN FUTURE PHASES WILL RQUIRE A REVISED SWM PLAN.
30.21. NO CLEARING, GRADING OR CONSTRUCTION IS PERMITTED WITHIN THE REQUIRED STREAM(5) OR THEIR BUFFERS, AREAS OF STEEP SLOPES GREATER THAN OR EQUAL TO 20,000 SF, AND FOREST CONSERVATION EASEMENT AREAS.

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

1-26-05 CHIEF, BUREAU OF HIGHWAYS / 43 DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING ENGINEERING DIVISION MA

PARCEL 10, LOTS 1-5

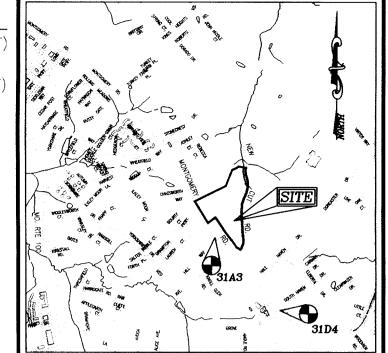


LOCATION MAP

SCALE: 1"=100'

BENCHMARKS

HOWARD COUNTY BENCHMARK 31D4 (CONCRETE MONUMENT N 571700.65900 E 1369606.28100 ELEV. 495.179 HOWARD COUNTY BENCHMARK 31A3 (CONCRETE MONUMENT N 573217.87700 E 1368237.66200 ELEV. 487.641



VICINITY MAP SCALE: 1"=2000'

LEGEND Existing Contour Proposed Contour Existing Spot Elevation +82⁵³ Proposed Spot Elevation Direction of Flow CVVVV) Existing Trees to Remain Light Poles □→♡ Single Overhead ♡→□→♡ Double Overhead

	COORDINATE	
No.	Northing	Easting
1	573989.2467	1367839.3278
2	574299.6737	1368472.2371
3	574555.6409	1368567.8163
4	574638.4166	1368602.8905
5	574667.5027	1368673.5480
6	574708.0745	1368736.7100
7	574681.1118	1368880.6566
8	574641.9987	1368869.9575
9	574509.0639	1368893.4806
10	574512.7597	1368907.1083
1 1	574381.6301	1368934.0565
12	574184.5326	1368915.1736
13	573953.4289	1368826.5885
14	5/3722.7941	1368813.6031
15	573080.5133	1368853.1961
16	572813.8354	1368707.8640
17	572816.2476	1368703.1139
18	572815.9507	1368699.6815
19	572974.8311	1368781.1946
20	573027.1193	1368691.0636
21	573170.1133	1368590.7525
22	573056.3921	1368439.3066
23	573064.3194	1368433.2104
24	573178.1210	1368584.7627
25	573354.2885	1368452.9864
26	573563.0165	1368314.4106

OWNER/DEVELOPER

1368263.9314

1368111.3634

8430 GLENMAR RD FLLICOTT CITY, MD 21043 AL HAMMER (410) 465-4995

573638.4729

573524.3392

REVISION

ROAD CONSTRUCTION PLANS

COVER SHEET

RELOCATED NEW CUT ROAD GLEN MAR UNITED METHODIST CHURCH

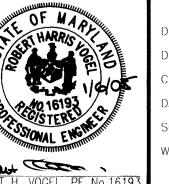
TAX MAP 31 BLOCK 1 & 8 5TH ELECTION DISTRICT

PARCEL '10', LOTS 1-HOWARD COUNTY, MARYLAND



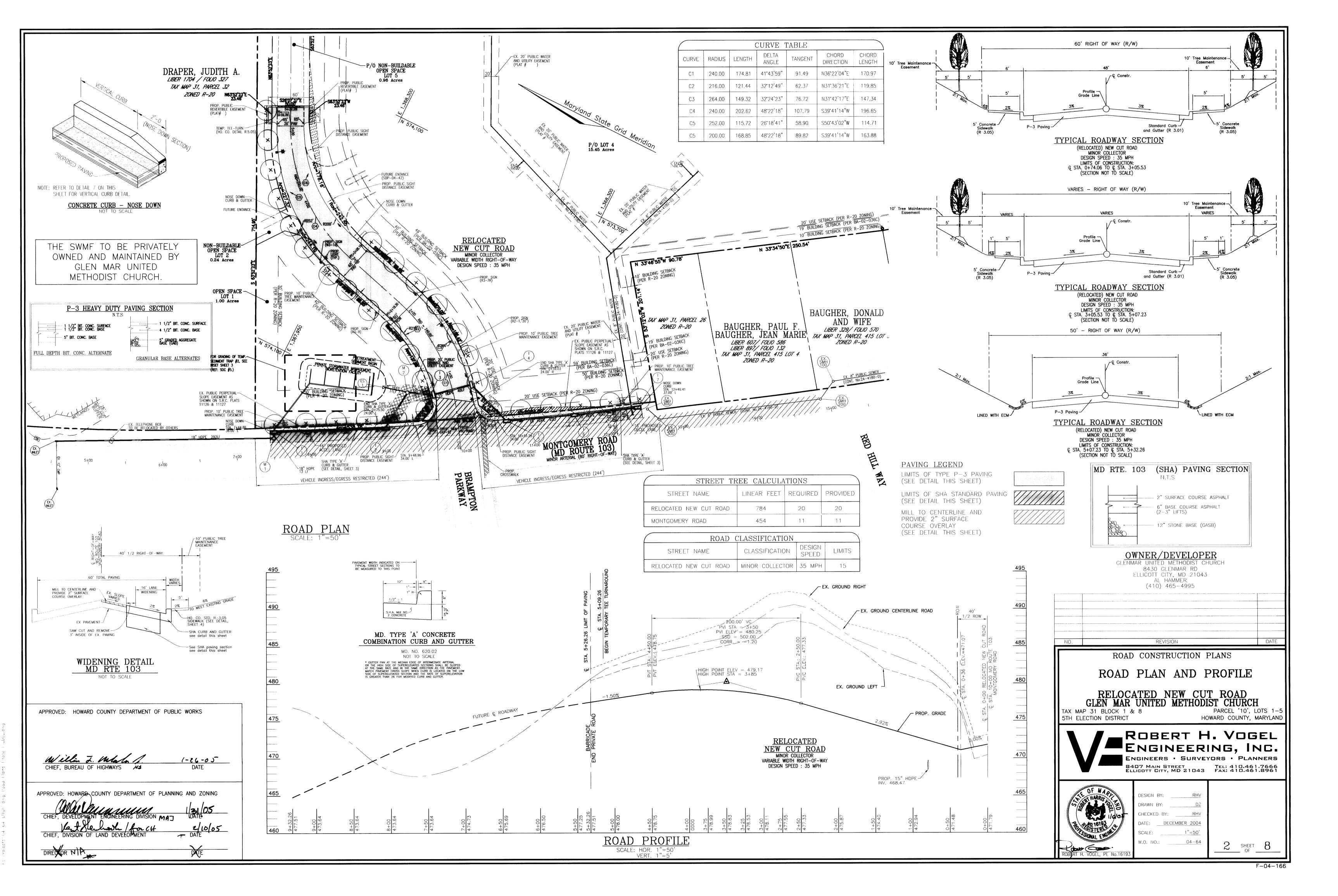
ENGINEERING, INC. ENGINEERS · SURVEYORS · PLANNERS

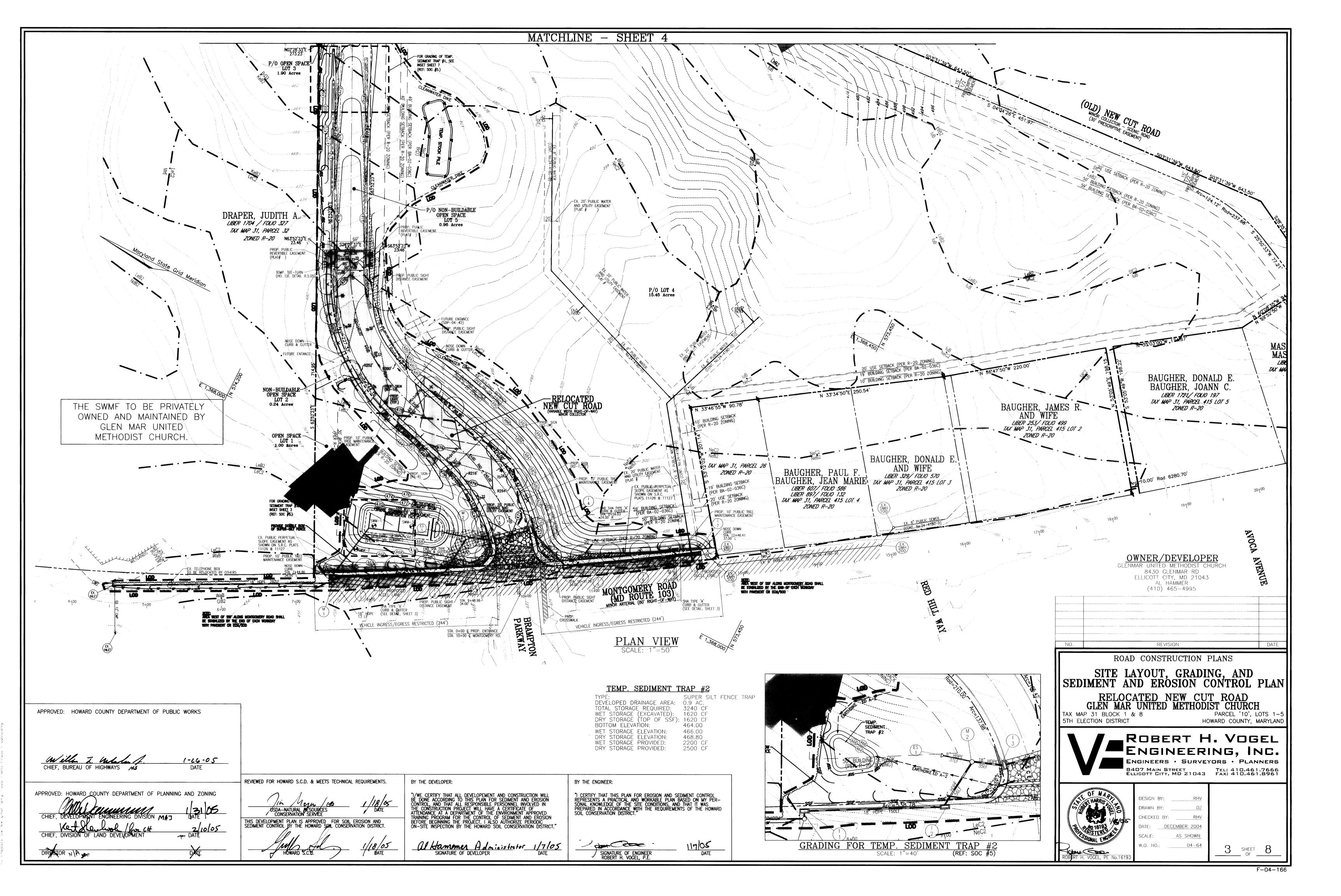
8407 MAIN STREET Tel: 410.461.7666 ELLICOTT CITY, MD 21043 FAX: 410.461.8961

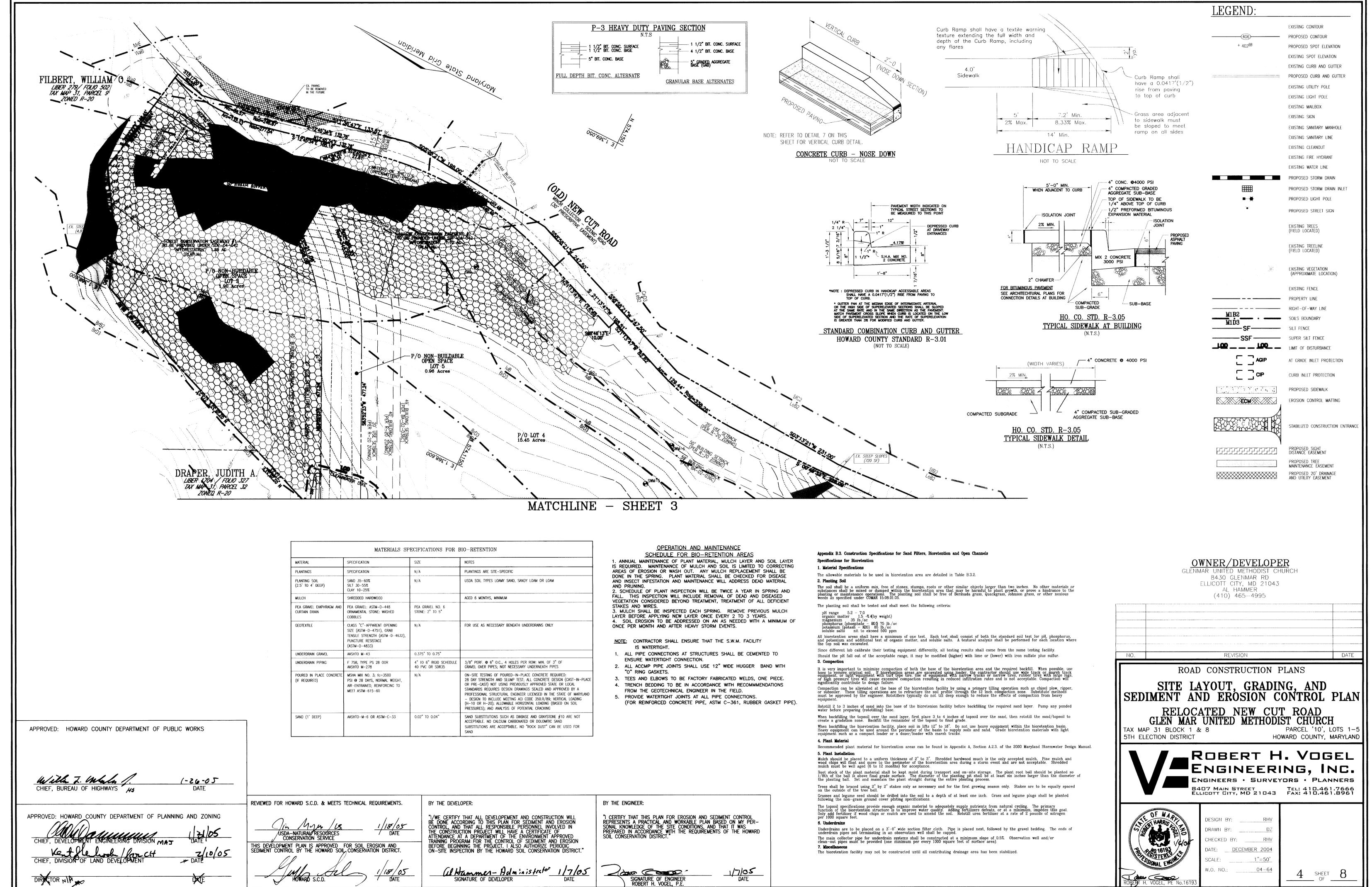


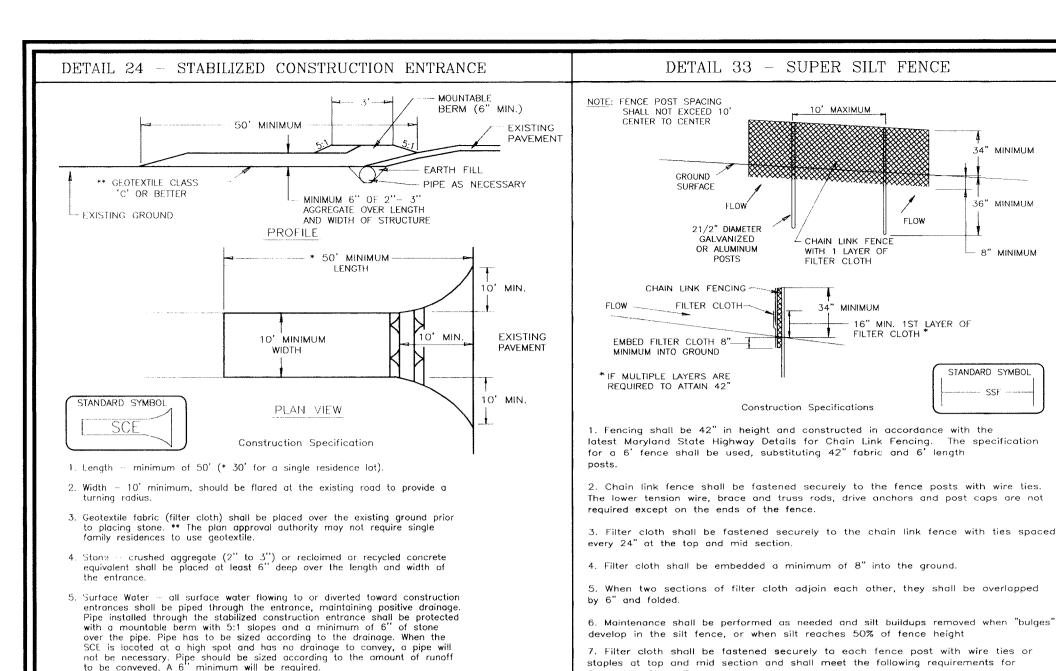
DESIGN BY: CHECKED BY: DECEMBER 2004 SCALE: AS SHOWN 04-64 W.O. NO.:

SHEET









MARYLAND DEPARTMENT OF ENVIRONMENT

WATER MANAGEMENT ADMINISTRATION

21.0 STANDARDS AND SPECIFICATIONS

FOR TOPSOIL

20 lbs/in (min.)

0.3 gal/ft ²/minute (max.)

Test: MSMT 509

Test: MSMT 509

Test: MSMT 322

Test: MSMT 322

MARYLAND DEPARTMENT OF ENVIRONMENT

Definition Placement of topsoil over a prepared subsoil prior to SEEDBED PREPARATION: Loosen upper three inches of soil by raking, establishment of permanent vegetation.

Geotextile Class F:

Tensile Strength

Tensile Modulus

Filtering Efficiency 75% (min.)

Flow Rate

U.S. DEPARTMENT OF AGRICULTURE

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 1. 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 Experimental Station.

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

Topsoil shall be a loam, sandy loam, clay loam, silt loam, sandy clay loam, loamy sand. Other soils may be used if recommended by an agronomist or a soil scientist and or water pockets. 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, slag, coarse fragments, gravel, sticks, roots, trash, or other materials larger that 1 and 1/2" in

ii. Topsoil must be free of plants or plant parts such as Bermuda arass, quackarass, Johnsongrass, nutsedge, poison ivy, thistle, or others as specified.

iii. Where the subsoil is either highly acidic or composed of heavy clays, ground limestone shall be spread at the rate of 4-8 tons/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.

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

II. 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.

SEDIMENT CONTROL NOTES

DETAIL 23B - AT GRADE INLET PROTECTION

PLAN/CUT AWAY VIEW

CROSS SECTION

Construction Specifications

1. Lift grate and wrap with Geotextile Class E to completely cover all openings,

2. Place 3/4" to 11/2" stone, 4"-6" thick on the grate to secure the fabric and

GEOTEXTILE CLASS E

STANDARD SYMBOL

iii. For sites having disturbed areas over 5 acres:

to bring the soil into compliance with the following:

the pH to 6.5 or higher.

1.5 percent by weight.

phyto-toxic materials.

Stabilization Methods and Materials.

Sediment Traps and Basins.

- 8" higher in elevation.

natural topsoil.

i. On soil meeting topsoil specifications, obtain test

the tested soil demonstrates a pH of less than

6.0. sufficient lime shall be prescribed to raise

b. Organic content of topsoil shall be not less than

d. No sod or seed shall be placed on soil 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

NOTE: Topsoil substitutes or amendments, as recommended

by a auglified agronomist or soil scientist and approved by

the appropriate approval authority, may be used in lieu of

ii. Place topsoil (if required) and apply soil ammendments

sediment control practices such as diversions, Grade

Stabilization Structures, Earth Dikes, Slope Silt Fence and

been previously established, shall be maintained, albeit 4"

specified in 20.0 Vegetative Stabilization—Section I—Vegetative

When topsoiling, maintain needed erosion and

ii. Grades on the areas to be topsoiled, which have

iii. Topsoil shall be uniformly distributed in a 4" —

8" layer and lightly compacted to a minimum thickness of 4".

Spreading shall be performed in such a manner that sodding

iv. Topsoil shall not be place while the topsoil or

subsoil is in a frozen or muddy condition, when the subsoil

CARE OF WATER DURING CONSTRUCTION

temporary dikes, levees, cofferdams, drainage channels, and

by the permanent works. The contractor shall also furnish.

All work on permanent structures shall be carried out in areas

install, operate, and maintain all necessary pumping and other

the work and for maintaining the excavations, foundation, and

other parts of the work free from water as required or directed

having served their purpose, all temporary protective works shall

prevent obstruction in any degree whatsoever of the flow of water

to the spillway or outlet works and so as not to interfere in any

way with the operation or maintenance of the structure. Stream

required excavation and the foundation shall be accomplished in a

diversions shall be maintained until the full flow can be passed

through the permanent works. The removal of water from the

manner and to the extent that will maintain stability of the

excavated slopes and bottom of required excavations and will

shall be maintained below the bottom of the excavation at such

locations which may require draining the water to sumps from

allow satisfactory performance of all construction operations.

During the placing and compacting of material in required

excavations, the water level at the locations being refilled

which the water shall be pumped.

by the engineer for constructing each part of the work. After

be removed or leveled and graded to the extent required or

free from water. The Contractor shall construct and maintain all

stream diversions necessary to protect the areas to be occupied

equipment required for removal of water from the various parts of

is excessively wet or in a condition that may otherwise be

detrimental to proper grading and seedbed preparation.

or seeding can proceed with a minimum of additional soil

preparation and tillage. Any irregularities in the surface

corrected in order to prevent the formation of depressions

resulting from topsoiling or other operations shall be

c. Topsoil having soluble salt content greater than

500 parts per million shall not be used.

results dictating fertilizer and lime amendments required

a. pH for topsoil shall be between 6.0 and 7.5. If

then set grate back in place.

provide additional filtration

1. 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) 2. 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

DETAIL 23C - CURB INLET PROTECTION

(COG OR COS INLETS)

" X 4" SPACER

Construction Specifications

4') to the 2" x 4" weir (measuring throat length plus 2') as shown on the standard

2. Place a continuous piece of Geotextile Class E the same dimensions as the wire

3. Securely nail the 2" X 4" weir to a 9" long vertical spacer to be located between

4. Place the assembly against the inlet throat and nail (minimum 2' lengths of

2" x 4" to the top of the weir at spacer locations). These 2" x 4" anchors shall

5. The assembly shall be placed so that the end spacers are a minimum 1' beyond

stone over the wire mesh and geotextile in such a manner to prevent water from

7. This type of protection must be inspected frequently and the filter cloth

8. Assure that storm flow does not bypass the inlet by installing a temporary

6. Form the 1/2 " x 1/2 " wire mesh and the geotextile fabric to the concrete gutter and

against the face of the curb on both sides of the inlet. Place clean 3/4 " \times 1 1/2

extend across the inlet top and be held in place by sandbags or alternate weight.

1. Attach a continuous piece of wire mesh (30" minimum width by throat length plus

X 4" WEIR

MAX. DRAINAGE AREA = 1/4 ACRE

the weir and the inlet face (max. 4' apart

entering the inlet under or ground the geotextile.

and stone replaced when clogged with sediment.

earth or asphalt dike to direct the flow to the inlet.

both ends of the throat opening.

___ 3/4" - 11/2" STONE

- GEOTEXTILE CLASS E

MAX. DRAINAGE AREA = 1/4 ACRE

- WIRE TIES

- 6" OVERLAP

OF 2" X 4"

2" X 4" WEIR

STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL. and revisions thereto. 3. Following initial soil disturbance or redisturbance, 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. 4. 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.

5. All disturbed greas 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.

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 Area Disturbed 3.08 Acres Area to be roofed or paved 0.75 Acres Area to be vegetatively stabilized

Total Fill Offsite 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.

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

Additional sediment controls must be provided, if deemed necessary by the

until this initial approval by the inspection agency is made.

Trenches for the construction of utilities is limited to three pipe lengths or that which shall be back-filled and stabilized within one working day, whichever is shorter. * To be determined by contractor, with pre-approval of the Sediment Control Inspector with an approved and active grading permit

SEQUENCE OF CONSTRUCTION <u>DURATION</u> Obtain grading permit after final stabilizatin of SDP-04-42. Notify Howard County Bureau Of Inspections and Permits (313-1880) at least 24 hours before starting any work.

3. Construct Stabilized Construction Entrance and install tree protection devices. 4. Install perimeter silt and super silt fences. Clear and grub for sediment control devices only. 5. Install sediment traps. 1 WEEK 6. Contractor to first grade area to establish positive flow to traps by installing diversion dikes. As grading continues, th contractor is to maintain positive flow to the traps at all 7. With Inspector's approvals, clear and grub remainder 8. Begin mass grading. 3 WEEKS 9. Grade road to sub-base. 1 WEEK 10. Install storm drain systems, block pipe and install inlet 2 WEEKS 11. With road araded to sub-base and inlets in place begin 2 WEEKS installation of curb and gutter 2 WEEKS 12. With curb and gutter in place, pave road and install 13. With inspector's approval and road paving complete, remove sediment traps and stabilize. Construct Bio-Retention facility 14. With inspector's approval and bio-retention facility completed, remove blocking in storm drain system, and install bioretention 16. During grading and after each rainfall, the contractor shall inspect and provide the necessary maintenance on the sediment and erosion control measures shown

> During grading and after each rainfall, contractor will inspect and provide necessary maintenance to the Sediment Control measures on this plan. Following initial soil disturbances or redisturbance permanent of temporary stabilization shall be completed within: A. 7 calendar days for all perimeter Sediment Control Structures, Dikes. Swales and all slopes areater than 3: B. 14 calendar days for all other disturbed areas.

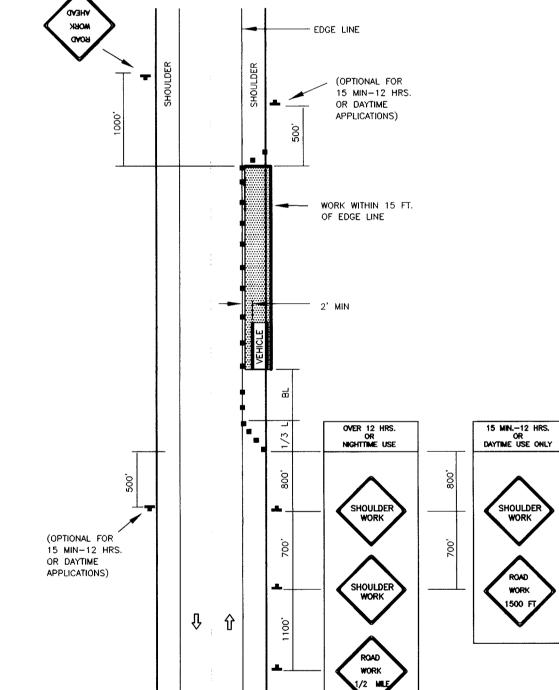
U.S. DEPARTMENT OF AGRICULTURE

CROSS-SECTION

STAPLE OUTSIDE EDGE OF MATTING ON 2' CENTERS

TO STORM

MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION



DETAIL 30 - EROSION CONTROL MATTING

Construction Specifications

. 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. Secure with a row of staples about 4" down slope from the trench. Spacing between staples is 6".

2. Staple the 4" overlap in the channel center using an 18" spacing

3. Before stapling the outer edges of the matting, make sure the

4. Staples shall be placed 2' apart with 4 rows for each strip, 2

5. Where one roll of matting ends and another begins, the end of

6. The discharge end of the matting liner should be similarly

the top strip shall overlap the upper end of the lower strip by 4", shiplap fashion. Reinforce the overlap with a double row of staples

Note: If flow will enter from the edge of the matting then the area

matting is smooth and in firm contact with the so

spaced 6" apart in a staggered pattern on either side.

effected by the flow must be keyed-in.

TEMPORARY TRAFFIC CONTROL TYPICAL APPLICATION

TYPICAL STAPLES NO. 11 GAUGE WIRE

SHOULDER WORK / 2-LANE, 2-WAY GREATER THAN 40 MPH

Maryland Department of Transportation STATE HIGHWAY ADMINISTRATION STANDARDS FOR HIGHWAYS AND INCIDENTAL STRUCTURES STANDARD NO. MD 104.02-01

> THIS DRAWING SHALL BE USED IN COMBINATION WITH THE GENERAL NOTES MD 104.00-01 - MD 104.00-18 AND STANDARD DETAILS MD 104.01-01 -

SHOULDER CLOSED SIGNS ARE REQUIRED IN PLACE OF SHOULDER WORK SIGNS WHEN THE SHOULDER IS CLOSED BY A PHYSICAL BARRIER REFER TO STANDARD NO.

MD 104.06-14.

WHEN WORK INVOLVES A PAVEMENT EDGE DROP-OFF, REFER TO STANDARD NOS. MD 104.06-11 TO MD 104.06-15

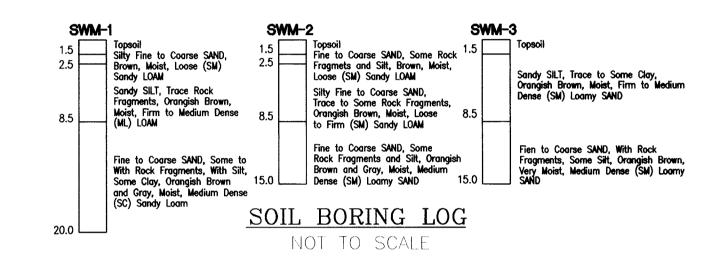
CHANNELIZING DEVICES ----- SIGN SUPPORT FACE OF SIGN DIRECTION OF TRAFFIC

CONCRETE SIDEWALK HOWARD COUNTY STANDARD DETAIL R3.05 5'-0" Minimum
When adjacent to curb Top of Sidewalk to be 1/4" above top of curb when they abut one another Construction Specifications Sidewalk to be scribed in 5'-0" maximum squares.
Expansion joints across the sidewalk not to be more than 15' apart.

1/2" Preformed Bituminous Expansion material in expansion joints to be kept 1/4" below surface of sidewalk.
Concrete to be mix number :

Sidewalk width adjacent to curb shall be 5'-0" minimum except sidewalk adjacent to curb in cul-de-sac bulbs may be 4'-0" wide.

Sidewalk located 2' or more from curb may be 4'-0" in width with a 5'x5' paved section placed 200 mart.



SYMBOL	SOILS LEGEND NAME / DESCRIPTION	HYDRIC	DEPTH TO WATER TABLE
BrB2	BRANDYWINE LOAM, 3 TO 8 PERCENT SLOPES, MODERATELY ERODED		30+
BrD3	BRANDYWINE LOAM, 15 TO 25 PERCENT SLOPES, SEVERELY ERODED	-	30+'
luB	IUKA LOAM, LOCAL ALLUVIUM, 1-5 PERCENT SLOPES	ı	1.5'-3
KeB2	KELLY SILT LOAM, 3 TO 8 PERCENT SLOPES, MODERATELY ERODED	l	1'-3
LeB2	LEGORE SILT LOAM, 3 TO 8 PERCENT SLOPES, MODERATELY ERODED		20+
LeC2	LEGORE SILT LOAM, 8 TO 15 PERCENT SLOPES, MODERATELY ERODED		20+
MrE	MONTALTO AND RELAY SOILS, 15 TO 45 PERCENT SLOPES		20+
NeB2	NESHAMINY SILT LOAM, 3 TO 8 PERCENT SLOPES, MODERATELY ERODED	Ang. Strike	20+
NeC2	NESHAMINY SILT LOAM, 8 TO 15 PERCENT SLOPES, MODERATELY ERODED	-	20+
SfC2	SASSAFRAS GRAVELLY SANDY LOAM, 5-10% SLOPES, MODERATELY ERODED		5+'
WaB	WATCHUNG SILT LOAM, 3 TO 8 PERCENT SLOPES	X	0-1

OWNER/DEVELOPER

8430 GLENMAR RD ELLICOTT CITY, MD 21043 AL HAMMER (410) 465-4995

,		
NO.	REVISION	DA

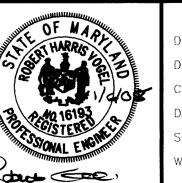
ROAD CONSTRUCTION PLANS

SEDIMENT AND EROSION CONTROL NOTES AND DETAILS

RELOCATED NEW CUT ROAD GLEN MAR UNITED METHODIST CHURCH

TAX MAP 31 BLOCK 1 & 8 PARCEL '10', LOTS 1-5TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND





DESIGN BY: CHECKED BY: DECEMBER 2004 SCALE: AS SHOWN

SHEET ___OF __

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

6. Location - A stabilized construction entrance shall be located at every poin

leaving the site must travel over the entire length of the stabilized con-

PERMANENT SEEDING NOTES

APPLY TO GRADED OR CLEARED AREAS NOT SUBJECT TO IMMEDIATE

FURTHER DISTURBANCE WHERE A PERMANENT LONG-LIVED VEGETATIVE

discing or other acceptable means before seeding, if not previously

SOIL AMENDMENTS: In lieu of soil test recommendations, use one of

1) Preferred-Apply 2 tons per acre dolomitic limestone (92 lbs/

30-0-0 ureaform fertilizer (9 lbs/1000 sq.ft.)

100 sq.ft.) and 600 lbs per acre 10-10-10 fertilizer (14 lbs./

inches of soil. At the time of seeding, apply 400 lbs. per acre

1000 sq.ft.) and apply 1000 lbs. per acre 10-10-10- fertilizer

(23 lbs./1000 sq.ft.) before seeding. Harrow or disc into upper

1000 sq.ft.) before seeding. Harrow or disc into upper three

2) Acceptable-Apply 2 tons per acre dolomatic limestone (92 lbs/

SEEDING: For the periods March 1 thru April 30, and August 1 thru

October 15, seed with 60 lbs. per acre (1.4 lbs/1000 sq.ft.) of

Kentucky 31 Tall Fescue. For the period May 1 thru July 31, seed

(.05 lbs./1000 sq.ft.) of weeping lovegrass. During the period of

October 16 thru February 28, protect site by: Option (1) 2 tons

with 60 lbs. Kentucky 31 Tall Fescue per acre and 2 lbs. per acre

per acre well anchored straw mulch and seed as soon as possible

Kentucky 31 Tall Fescue and mulch with 2 tons/acre well anchored

MULCHING: Apply 1 1/2 to 2 tons per acre (70 to 90 lbs/1000

Anchor mulch immediately after application using mulch anchoring

asphalt on flat areas. On slopes 8 feet or higher, use 348 gallons

MAINTENANCE: Inspect all seeded areas and make needed repairs,

SEEDBED PREPARATION: Loosen upper three inches of soil by raking.

SEEDING: For periods March 1 thru April 30 and from August 15 thru

November 15, seed with 2 1/2 bushel per acre of annual rye (3.2)

lbs./1000 sq.ft.) For the period May 1 thru August 14, seed with 3

lbs. per acre of weeping lovegrass (.07 lbs./1000 sq.ft.). For the

MULCHING: Apply 1 1/2 to 2 tons per acre (70 to 90 lbs./1000

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

REFER TO THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR

SOIL EROSION AND SEDIMENT CONTROL FOR RATE AND METHODS NOT

EROSION AND SEDIMENT CONTROL

State and local laws concerning pollution abatement will be

control measures to be employed during the construction process.

Construction operations will be carried out in such a manner that

erosion will be controlled and water and air pollution minimized.

followed. Construction plans shall detail erosion and sediment

period November 1 thru February 28, protect site by applying 2 tons

per acre of well anchored straw mulch and seed as soon as possible

sq.ft.) of unrotted small grain straw immediately after seeding. Anchor

discing or other acceptable means before seeding, if not previously

SOIL AMENDMENTS: Apply 600 lbs. per acre 10-10-10 fertilizer

TEMPORARY SEEDING NOTES

sq. ft.) of unrotted small grain straw immediately after seeding.

tool or 218 gallons per acre (5 gal/1000 sg.ft.) of emulsified

per acre (8 gal/1000 sq.ft.) for anchorina.

replacements and reseedings.

(14 lbs./1000 sq.ft)

n the spring, or use sod.

(8 gal/1000 sq.ft.) for anchoring.

n the spring. Option (2) Use sod. Option (3) Seed with 60 lbs/acre

where construction traffic enters or leaves a construction site. Vehicles

SOIL CONSERVATION SERVICE

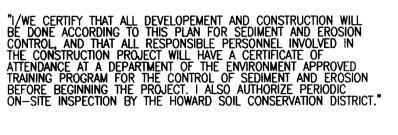
the following schedules:

three inches of soil.

Wills T. Wals /. 1-26-05 CHIEF. BUREAU OF HIGHWAYS

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

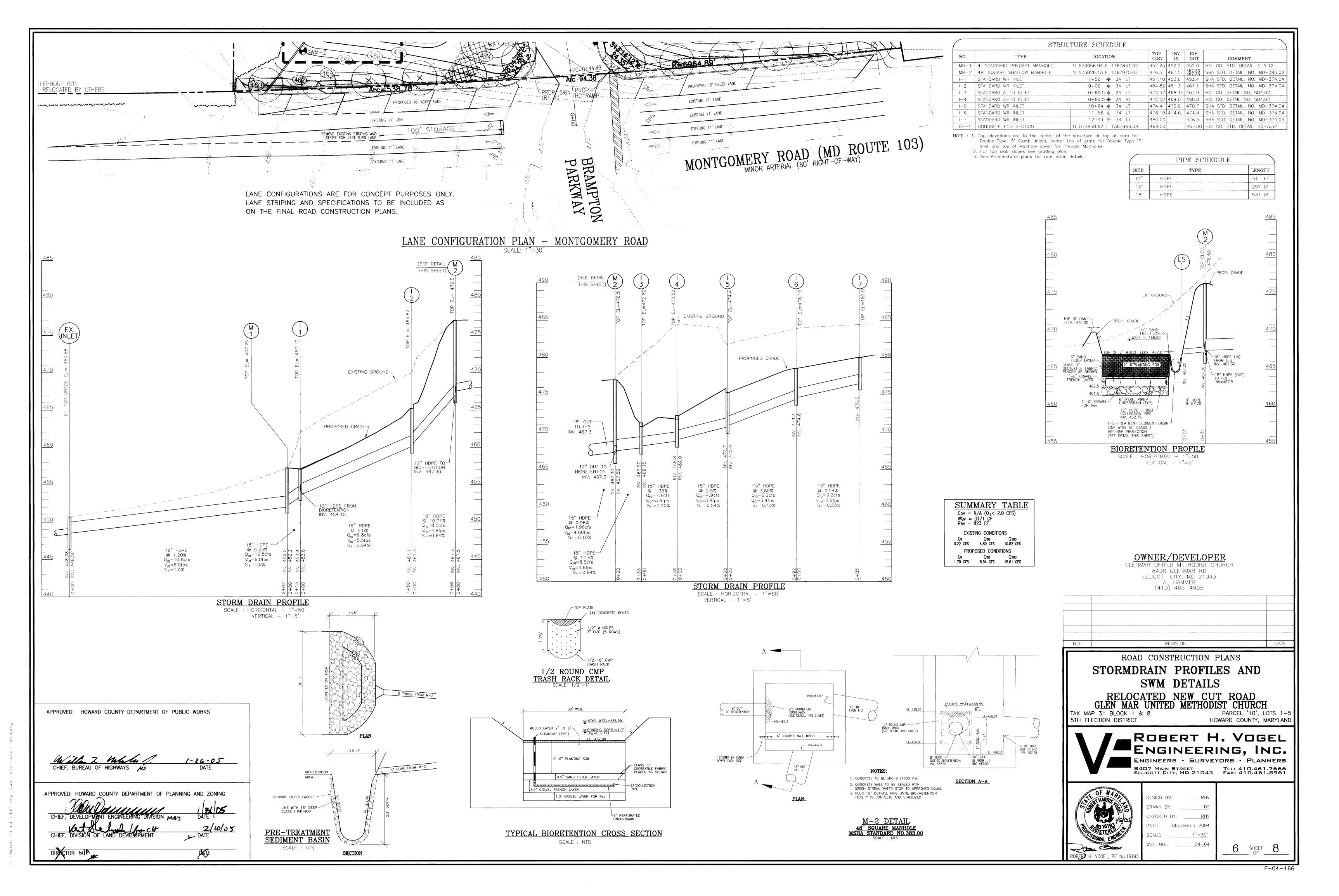
BY THE DEVELOPER: REVIEWED FOR HOWARD S.C.D. & MEETS TECHNICAL REQUIREMENTS.

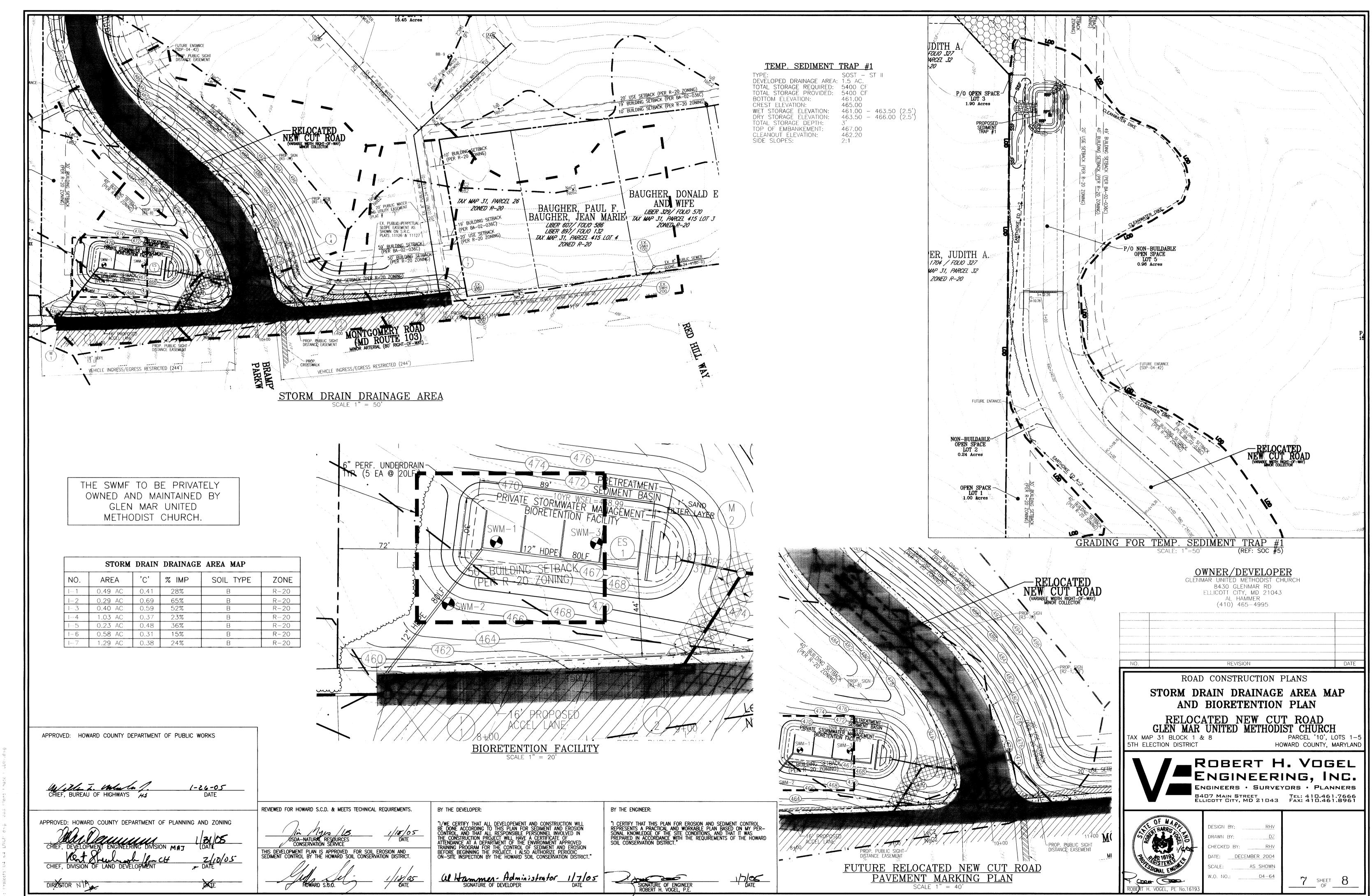


al Hammer - Administrator 1/7/05

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

100000





F-04-166

