

TEMPORARY SEEDING NOTES

Apply to graded or cleared areas likely to be redisturbed where a short—term

dbed preparation: Loosen upper three inches of soil by raking, discing, or other acceptable means before seeding, if not previously loosened. Soil Amendments: Apply 600 lbs. per acre 10-10-10 fertilizer (14 lbs./1000

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 period November 16 thru February 28, protect site by applying 2 tons per acre of well-anchored straw mulch, and seed as soon as possible in the spring, or use sod.

Mulching: Apply 1 1/2 to 2 tons per acre (70 to 90 lbs./1000 sq. ft.) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gal. per acre (5 gal./1000 sq. ft.) of emulsified asphalt on flat areas. On slopes 8 feet or higher, use 348 gal. per acre (8 gal./1000 sq. ft.) for anchoring.

Refer to the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for rate and methods not covered.

#### 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 3 inches of soil by raking, discing, or other

acceptable means before seeding, if not previously loosened. Soil Amendments: Use one of the following schedules: 1) Preferred— Apply 2 tons per acre dolomitic limestone (92 lbs./1000 sq. ft)

2) Acceptable— Apply 2 tons per acre dolomitic limestone (92 lbs./1000sq. ft.) and 1000 lbs. per acre 10-10-10 fertilizer (23 lbs./1000 sq. ft.) before seeding. Harrow or disc into upper three inches of soil.

Seeding: For the periods March 1 thru April 30 and August 1 thru October 15, seed with 60lbs. per acre (1.4 lbs./1000 sq. ft.) of Kentucky 31 Tall Fescue. For the period May 1 thru July 31, seed with 60 lbs. of Kentucky 31 Tall Fescue per acre and 2 lbs. per acre (.05 lbs./1000 sq. ft.) of weeping lovegrass. During the period of October 16 thru February 28, protect site by: Option 1- 2 tons per acre of well-anchored straw mulch, and seed as soon as possible in the spring. Option 2- Use sod. Option 3- Seed with 60 lbs. per acre Kentucky 31 Tall Fescue, and mulch with 2 tons per acre well anchored straw.

Mulching: Apply 1 1/2 to 2 tons per acre (70-90 lbs./1000 sq. ft.) of un-rotted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gallons per acre (5 gal./1000 sq. ft.)of emulsified asphalt on flat areas. On slopes 8 feet or higher, use 348

Maintenance: Inspect all seeded areas, and make needed repairs, replacements,

#### SEDIMENT CONTROL NOTES

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 STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.

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

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 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.

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.

Total Area of Site Area Disturbed Area to be roofed or payed Area to be vegetatively stabilized Offsite waste/borrow area location

0.29 acres <u>0.05</u> acres 0.24 acres 127 cu. yds. \_\_\_\_\_ cu. yds. To be determined by of the Sediment Control

8. Any sediment control practice which is disturbed by grading activity for placement of utilities must be repaired on the same day of disturbance.

9. Additional sediment controls must be provided, if deemed necessary by the Howard County Sediment Control Inspector.

10. On all sites with disturbed areas in excess of 2 acres, approval of the inspection agency shall be requested upon completion of installation of perimeter erosion and sediment controls, but before proceeding with any other earth disturbance or grading. Other building or grading inspection approvals may not be authorized until this initial approval by the inspection agency is made.

11. Trenches for the construction of utilities is limited to three pipe lengths or that which shall be back-filled and stabilized within one working day, whichever is shorter.

> **LEGEND** LIMIT OF DISTURBANCE SILT FENCE EX. SEWER

# 21.0 STANDARD AND SPECIFICATIONS FOR TOPSOIL

Placement of topsoil over a prepared subsoil prior to establishment of permanent vegetation.

To provide a suitable soil medium for vegetative growth. Soils of HOWARD COUNTY CONTROL BASED ON NAD83 concern have low moisture content, low nutrient levels, low pH, material toxic to plants, and/or unacceptable soil gradation.

CONCRETE MONUMENT
N. 594529.556, E. 1352722.586

# CONDITION WHERE PRACTICE APPLIES

This practice is limited to areas having 2:1 or flatter 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.
- 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

### CONSTRUCTION AND MATERIAL SPECIFICATIONS

stabilization shown on the plans.

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 Agriculture Experimental Station.

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 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, slag, coarse fragments, gravel, sticks, roots, trash, or other materials larger than 1 1/2 " in diameter.

ii. Topsoil must be free of plants or plant parts such as bermuda arass, augckarass, Johnsonarass, nutsedae. 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

eet) 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. 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 Material. III. For sites having disturbed areas over 5 acres: i. On soil meeting Topsoil specifications, obtain test results dictating fertilizer and lime amendments required

to bring the soil into compliance with the following: 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 shall be prescribed to raise the pH to 6.5 or higher.

 Organic content of topsoil shall not be less than 1.5 percent by weight. c. Topsoil having soluble salt content greater than 500 parts per million shall not be used. d. No sod or seed shall be placed on soil which has been

weed control until sufficient time has elapsed (14 days min.) to permit dissipation of phyto-toxic Note: Topsoil substitutes or amendments, as recommended by a qualified agronomist or soil scientist and approved by the

treated with soil sterilants or chemicals used for

appropriate approval authority, may be used in lieu of materials. ii. Place a topsoil (if required) and apply soil amendments as specified in 20.0 Vegetative Stabilization — Section I Vegetative Stabilization Methods and Materials.

natural topsoil. When topsoiling, maintain needed erosion and sediment control practices such as diversions, Grade Stabilization Structures, Earth Dikes, Slope silt Fence and Sediment

V. Topsoil Application ii. Grades on the areas to be topsoiled, which have been previously established, shall be maintained, albeit 4" — 8" higher in elevation. Traps and Basins.

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 or seeding can proceed with a minimum of additional soil preparation and tillage. Any irregularities in 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.

## SEQUENCE OF CONSTRUCTION

Obtain grading permit.
 Notify Howard County Bureau Of Inspections and Permits (313—1880) at least 24 hours

before starting any work.

3. Construct Stabilized Construction Entrance... contractor, with pre-approval 4. Install sediment control devices(silt fence).... 5. Excavate for foundation and rough grade. Contruct bioretention facility..... 6. Install driveway, sidewalk and begin house construction.

The first floor elevation cannot be more than 1' higher or 0.2' lower than the elevations shown on this plan......3 MONTHS 7. Fine grade and install permanent seeding. Final lot grade to be in substantial conformance with the site development

8. During grading and after each rainfall, the contractor shall inspect and provide the necessary maintenance on the sediment and erosion control measures shown

9. Following initial soil disturbance or redisturbance permanent or temporary stabilization shall be complied A. 7 calendar days for all perimeter sediment control

structures, dikes, swales, ditch perimeter slopes

slopes and all slopes greater than 3:1. B. 14 calendar days for all other disturbed areas. 10. Upon stabilization of all disturbed areas and with the approval of the sediment control inspector, remove all sediment control devices.

ADDRESS CHART LOT # STREET ADDRESS 2471 SUNSET FARM ROAD

ROBERT H. VOGEL

HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

ARPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS HOWARD COUNTY HEALTH DEPARTMENT

**COUNTY HEALTH OFFICER** SUBDIVISION NAME PARCEL NUMBER SECTION/AREA SWARTZ SUBDIVISION PLAT NO.s | BLOCK NO. | ZONE | TAX/ZONE | ELECT. DIST. CENSUS TR 9709 R-20

SEWER CODE

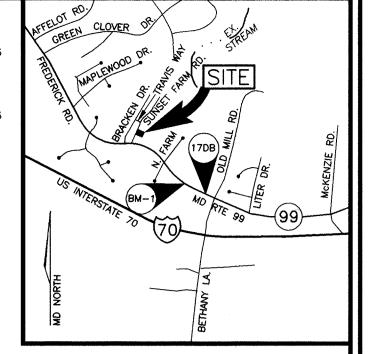
WATER CODE

5758200

BENCHMARKS

ELEVATION 476.022

HOWARD COUNTY CONTROL BASED ON NAD83 CONCRETE MONUMENT N. 595410.845, E. 1351641.146 ELEVATION 482.039



VICINITY MAP SCALE: 1"=2000'

#### GENERAL NOTES

- 1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF HOWARD COUNTY PLUS MSHA STANDARDS AND SPECIFICATIONS, IF APPLICABLE.
- 2. THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION WORK. 3. THE CONTRACTOR IS TO NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST FIVE DAYS
- BEFORE STARTING WORK ON THESE DRAWINGS: BELL ATLANTIC TELEPHONE COMPANY HOWARD COUNTY BUREAU OF UTILITIES: 313 - 2366AT&T CABLE LOCATION DIVISION:

B.G.&E. CO. UNDERGROUND DAMAGE CONTROL: STATE HIGHWAY ADMINISTRATION: 4. SITE ANALYSIS:

AREA OF SITE: 0.41 AC AREA OF SUBMISSION: 0.41 AC PRESENT ZONING: R-20
LIMIT OF DISTURBANCE: 0.29 AC
PROPOSED USE OF SITE: SINGLE FAMILY DWELLINGS

TOTAL NUMBER OF UNITS: PROJECT BACKGROUND: LOCATION: TAX MAP: 17 PARCEL: 21 ZONING: R-20 SUBDIVISION: SWARTZ SUBDIVISION

DPZ REFERENCES: F-91-26 6. 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 START OF WORK.

7. ANY DAMAGE TO PUBLIC RIGHT-OF-WAYS, PAVING, OR EXISTING UTILITIES WILL BE CORRECTED AT THE CONTRACTOR'S EXPENSE.

8. EXISTING UTILITIES LOCATED FROM ROAD CONSTRUCTION PLANS AND AVAILABLE RECORD DRAWINGS. APPROXIMATE LOCATION OF EXISTING UTILITIES ARE SHOWN FOR THE CONTRACTORS INFORMATION. CONTRACTOR SHALL LOCATE EXISTING UTILITIES WELL IN ADVANCE OF CONSTRUCTION ACTIVITIES AND TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES AND TO MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED DUE TO CONTRACTOR'S OPERATION SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSI

9. ALL DRIVEWAY APRONS SHALL BE PER HOWARD COUNTY STANDARD DETAIL R-6.06. 10. TRAFFIC CONTROL DEVICES, MARKINGS AND SIGNING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). ALL STREET AND REGULATORY SIGNS SHALL BE IN PLACE PRIOR TO THE PLACEMENT OF ANY ASPHALT.

11. ESTIMATES OF EARTHWORK QUANTITIES ARE PROVIDED SOLEY FOR THE PURPOSE OF CALCULATING

12. SOIL COMPACTION SPECIFICATIONS, REQUIREMENTS, METHODS AND MATERIALS ARE TO BE IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE PROJECT GEOTECHNICAL ENGINEER. GEOTECHNICAL ENGINEER TO CONFIRM ACCEPTABILITY OF PROPOSED PAVING SECTION, BASED

13. THERE ARE NO WETLANDS ON THIS SITE. 14. COORDINATES AND ELEVATIONS ARE BASED ON HOWARD COUNTY MONUMENTS 17DA AND 17DB

15. EXISTING TOPOGRAPHY IS BASED ON PLANS PREPARED BY VOGEL & ASSOCIATES DATED 5-19-98

16. SEWER AND WATER CONTRACT NO. 24-1826-D. SHC TO BE 1.0% BEYOND R/W. 17. STORMWATER MANAGEMENT FOR THIS SITE IS PROVIDED BY A PRIVATE BIORETENTION FACILITY.

# BIORETENTION PLANTING SCHEDULE

KEY	QTY	BOTANICAL NAME/ COMMON NAME	SIZE	ROOT
AR	1	ACER RUBRUM/ RED MAPLE	1 1/2"-2" CAL	B & B
IC	9	ILEX GLABRA "COMPACTA" DWARF INKBERRY	18"-24" HEIGHT	CONT
IV	3	ILEX VERTICILLATA 1 MALE WINTERBERRY 2 FEMALE	3'-4' HEIGHT	B & B OR CONT
VD	3	VIBURNUM DENTATUM ARROW WOOD	3'-4' HEIGHT	B & B OR CONT
••	125	LIROPE SPICATA CREEPING LILY TURF	2" РОТ	18" O/C

# <u>OWNER</u>

NANCY SWARTZ 2463 SUNSET FARM RD. ELLICOTT CITY, MARYLAND 21042 410-465-8570

**DEVELOPER** DICK JAMISON RJJ CARDINAL 8948 BLADE GREEN COLUMBIA, MARYLAND 21045 301-952-1203

REVISE DRIVEWAY LOCATION REVISE GRADING FOR A WALKOUT 4/14/00 DATE NO. **REVISION** 

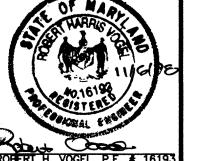
> SWARTZ SUBDIVISION LOT NO. 1

SITE DEVELOPMENT PLAN

REFERENCE: F-91-26 TAX MAP #17 BLOCK #8

VOGEL & ASSOCIATES, INC. ENGINEERS - SURVEYORS - PLANNERS

3691 PARK AVENUE, SUITE 101 ELLICOTT CITY, MARYLAND 21043



2ND ELECTION DISTRICT

DESIGN BY: P.K.P. DRAWN BY: P.K.P. CHECKED BY: R.H.V. DATE: JUNE, 1998 SCALE: 1"=30" W.O. NO.: 98-48

SHEET

PARCEL 21

HOWARD COUNTY, MARYLAND

TELEPHONE: (410) 461-5828 FAX: (410) 465-3966

