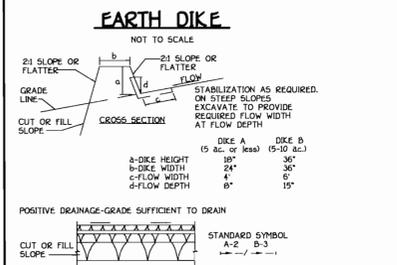


CONSTRUCTION NOTES FOR FABRICATED SILT FENCE

- WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES.
- FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24\"/>



CONSTRUCTION SPECIFICATIONS

- ALL DIKES SHALL BE COMPACTED BY EARTH-MOVING EQUIPMENT.
- ALL DIKES SHALL HAVE POSITIVE DRAINAGE TO AN OUTLET.
- TOP WIDTH MAY BE WIDER AND SIDE SLOPES MAY BE FLATTER IF DESIRED TO FACILITATE CONSTRUCTION TRAFFIC.

FLOW CHANNEL STABILIZATION

TREATMENT	DIKE A	DIKE B
1	5'-3.0\"/>	

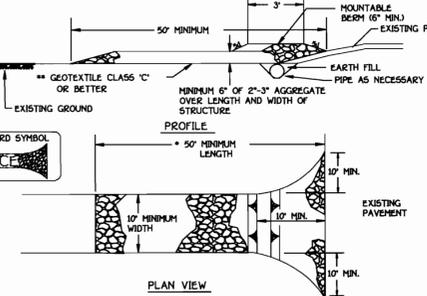
PERMANENT SEEDING NOTES

ALL DISTURBED AREAS SHALL BE STABILIZED AS FOLLOWS:

SEEDING PREPARATION:
LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING.

SOIL AMENDMENTS:
APPLY TWO LBS PER ACRE DIOMITIC LIMESTONE (92 LBS/1,000 SQT.) AND 500 LBS PER ACRE 0-20-20 FERTILIZER (10 LBS/1,000 SQT.) BEFORE SEEDING HARROW OR DISC.

STABILIZED CONSTRUCTION ENTRANCE



Construction Specification

- Length - minimum of 50' (30' for single residence lot).
- Width - 10' minimum, should be flared at the existing road to provide a turning radius.
- Geotextile fabric (filter cloth) shall be placed over the existing ground prior to placing stone.

SEDIMENT CONTROL NOTES

1) A MINIMUM OF 60 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 (10-15-99).

2) ALL VEGETATIVE AND STRUCTURE PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, AND REVISIONS THERE TO.

SEQUENCE OF CONSTRUCTION

- OBTAIN GRADING PERMIT.
- INSTALL SEDIMENT CONTROLS AS SHOWN ON PLAN. (1 DAY)
- CLEAR AND GRUB TO LIMITS OF DISTURBANCE AND MASS GRADE TO SUB-BASE. (2 DAYS)
- INSTALL TEMPORARY SEEDING. (1 DAY)
- CONSTRUCT UTILITIES (WATER, SEWER AND GAS CONNECTIONS). (1 DAY)
- CONSTRUCT BUILDING. (10 DAYS)
- GRADE SIDEWALK AND DRIVEWAY. (1 DAY)
- FINE GRADE SITE AND INSTALL PERMANENT SEEDING. (1 DAY)
- REMOVE SEDIMENT CONTROL DEVICES AS UPLAND AREAS ARE STABILIZED AND PERMISSION IS GRANTED BY EPA CONTROL INSPECTOR.

TEMPORARY SEEDING NOTES

APPLY TO GRADED OR CLEARED AREAS LIKELY TO BE REDISTURBED WHERE A SHORT-TERM VEGETATIVE COVER IS NEEDED.

SEEDING PREPARATION:
LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING, IF NOT PREVIOUSLY LOOSENED.

SOIL AMENDMENTS:
APPLY 500 LBS PER ACRE 10-10-10 FERTILIZER (4 LBS/1,000 SQT.)

STANDARDS AND SPECIFICATIONS FOR VEGETATIVE STABILIZATION

Using vegetation as cover for barren soil to protect it from erosion that cause erosion. Vegetative stabilization practices are used to promote the establishment of vegetation on exposed soil. When soil is stabilized with vegetation, the soil is less likely to erode and more likely to allow infiltration of rainfall, thereby reducing sediment loads and runoff to downstream areas, and preserving wildlife habitat and visual resources.

EFFECTS ON WATER QUALITY AND QUANTITY
Vegetation will have an effect on the water budget, especially on volumes and rates of runoff, infiltration, evaporation, transpiration, percolation, and groundwater recharge. Vegetation, over time, will increase organic matter content and improve the water holding capacity of the soil and subsequent runoff.

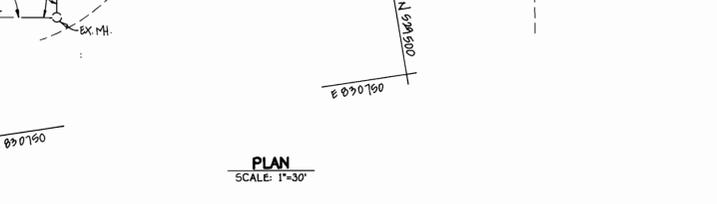
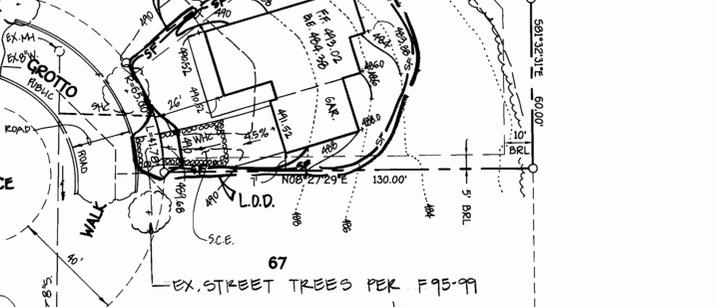
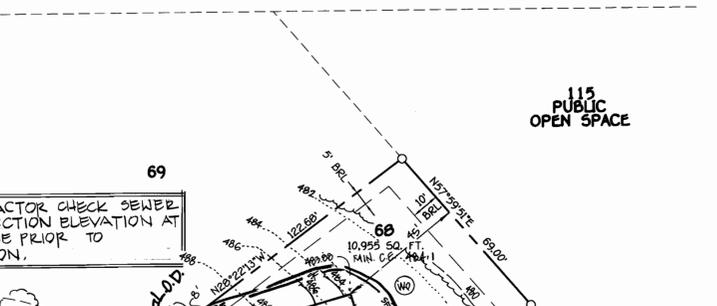
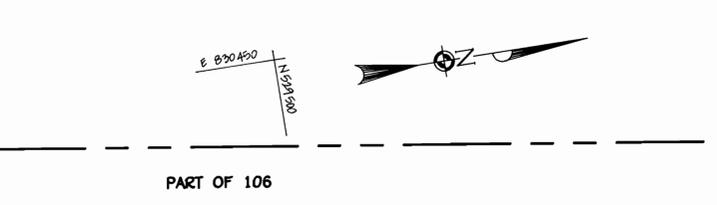
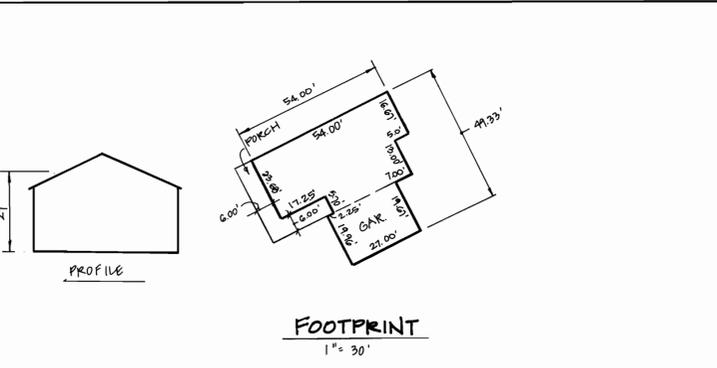
- A. Site Preparation**
- Install erosion and sediment control structures (either temporary or permanent) such as diversions, grade stabilization structures, berms, wattles, or sediment control basins.
 - Perform all grading operations at right angles to the slope. Final grading and shaping is not usually necessary for temporary seeding.
 - Schedule required soil tests to determine soil amendment composition and application rates for sites having disturbed areas over 5 acres.

- B. Soil Amendment (Fertilizer and Lime Specifications)**
- Soil tests must be performed to determine the exact ratios and application rates for both lime and fertilizer on sites having disturbed areas over 5 acres.
 - Fertilizers shall be uniform in composition, free flowing and suitable for accurate application by approved equipment.

- C. Seeded Preparation**
- Seeded preparation shall consist of loosening soil to a depth of 3\"/>

- D. Seed Specifications**
- All seed must meet the requirements of the Maryland State Seed Law. All seed shall be subject to germination and purity testing by a certified seed laboratory.
 - Incumbent - The incumbent for treating bare soil in the seed mixtures shall be a pure culture of the seed.

- E. Method of Seeding**
- Apply seed uniformly with hydroseeder (slurry includes seed and fertilizer), broadcast or drop seeding or a combination of the time of seeding, the application rates amounts will not exceed the following nitrogen maximum of 100 lbs. per acre total of soluble nitrogen.



LEGEND

Symbol	Description
---	Existing Contour 2' Interval
---	Existing Contour 10' Interval
---	Proposed Contour 2' Interval
---	Proposed Contour 10' Interval
• 624	Spot Elevation
-S/-S-	Silt Fence
FF	First Floor Elevation
BE	Basement Elevation
⊙	Proposed Walkout
---	Earth Dike
-X-X-	Tree Protection
---	Existing Tree Line
L.O.D.	Limit of Disturbance
(S)	Existing Street Tree

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTRAL SQUARE OFFICE PARK - 10275 BALTIMORE NATIONAL PIKE
ELLETTT CITY, MARYLAND 21042
410-430-2999

APPROVED PLANNING BOARD OF HOWARD COUNTY

DATE: 1-13-00

ENGINEER'S CERTIFICATE

"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."

Earl D. Collins EARL D. COLLINS 11-10-99
Signature of Engineer (Print name below signature) Date

DEVELOPER'S CERTIFICATE

"We certify that all development and construction will be done according to this plan, and that any responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of the Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project. I also authorize periodic on-site inspection by the Howard Soil Conservation District."

John Cooke John Cooke 11-10-99
Signature of Developer (Print name below signature) Date

ADDRESS CHART

LOT #	STREET ADDRESS
68	3037 GROTTO WALK

APPROVED: DEPARTMENT OF PLANNING AND ZONING

John L. Robertson 2/3/00
Chief, Division of Land Development Date

John L. Robertson 2/8/00
Chief, Development Engineering Division Date

Sandy Hamilton 2/5/00
Director - Department of Planning and Zoning Date

PROJECT: TERRA MARIA SECTION/AREA: 68 LOT NO.: 68

PLAT	BLOCK NO.	ZONE	TAX/ZONE	ELEC. DIST.	CENSUS TR.
11996	23	R-ED	16	2ND	6023.01

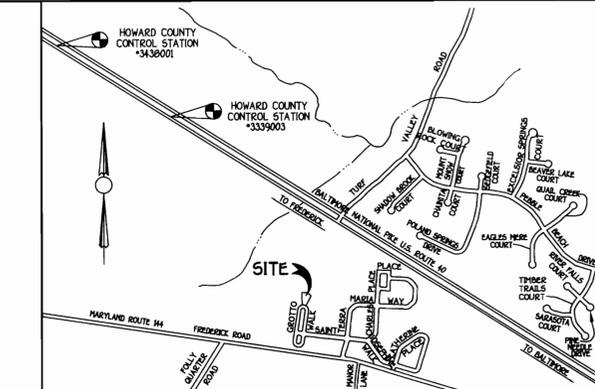
WATER CODE: J 01, H 07 SEWER CODE: 599.2000

SITE DEVELOPMENT PLAN

LOT 68
TERRA MARIA

TAX MAP No: 16 PARCEL: 416 GRID: 23
SECOND ELECTION DISTRICT, HOWARD COUNTY, MARYLAND
SCALE: 1"=30' DATE: OCTOBER, 1999
SHEET 1 OF 1

SDP 00-59



VICINITY MAP
SCALE: 1"=2000'

GENERAL NOTES

- THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION INSPECTION DIVISION AT (410) 313-1800 AT LEAST (5) FIVE 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.

- BOUNDARY AND TOPOGRAPHIC SURVEY PERFORMED BY: FISHER COLLINS AND CARTER INC. ON OR ABOUT OCTOBER 26, 1999.
- HORIZONTAL AND VERTICAL CONTROL DATUM IS BASED ON HOWARD COUNTY GEODETIC CONTROL STATION: HOWARD COUNTY MONUMENT 343001 N 532502.146 E 827774.234 N 531655.159 E 829105.468
- ANY DAMAGE TO THE COUNTY'S RIGHT-OF-WAY SHALL BE CORRECTED AT THE DEVELOPER'S EXPENSE.
- THIS PLAN IS FOR HOUSE SITING AND LOT GRADING ONLY. IMPROVEMENTS SHOWN WITHIN THE RIGHT-OF-WAYS OF THIS S.D.P. ARE NOT USED FOR CONSTRUCTION. FOR CONSTRUCTION USE APPROVED ROAD CONSTRUCTION PLANS F-95-99 AND/OR APPROVED WATER AND SEWER PLANS CONTRACT NO. 24-3407-D.
- CONTRACTOR WILL CHECK SEWER HOUSE CONNECTION ELEVATION AT EASEMENT LINE PRIOR TO CONSTRUCTION.
- STORMWATER MANAGEMENT OBLIGATIONS ARE FULFILLED UNDER F-95-99.
- THIS PLAN IS SUBJECT TO WAIVER PETITION NO. WP 92-114. THE SUBDIVISION AND LAND DEVELOPMENT REGULATIONS, WHICH RESTRICTS GRADING AND REMOVAL OF VEGETATIVE COVER FROM WETLANDS AND STREAM BUFFER.

- SITE ANALYSIS DATA:**
- TOTAL PLANNED AREA: 0.25 AC.
 - AREA OF PLAN SUBMISSION: 0.25 AC.
 - LIMIT OF DISTURBED AREA: 0.14 AC.
 - PRESENT ZONING: R-ED
 - PROPOSED USE FOR SITE AND STRUCTURES: SINGLE FAMILY ATTACHED D.U.
 - TOTAL NUMBER OF UNITS ALLOWED: 1
 - TOTAL NUMBER OF UNITS PROPOSED: 1
 - NUMBER OF PARKING SPACES REQUIRED: 2
 - SPACES PER DWELLING UNIT: 2
 - NUMBER OF PARKING SPACES PROVIDED: 2
 - OPEN SPACE REQUIREMENTS ARE PROVIDED UNDER F-95-99.
- NO WETLANDS EXIST ON SITE.
 - THIS SITE WILL UTILIZE EX. PUBLIC WATER & SEWER.
 - GARAGES SHALL BE USED FOR PARKING PURPOSES IN ACCORDANCE WITH SECTION 193.2.2. OF THE ZONING REGULATIONS.
 - CONTRACTOR TO CHECK SEWER HOUSE CONNECTION ELEVATION AT PROPERTY LINE PRIOR TO CONSTRUCTION.
 - FOREST CONSERVATION REQUIREMENTS HAVE BEEN COMPLETED BY F-95-99.

SHEET INDEX

Sheet No.	Description
1	Plan View - Notes and Details