

SEDIMENT AND EROSION CONTROL NOTES

- A minimum of 24 hours notice must be given to the Howard County Office of Inspection and Permits prior to the start of any construction. (892-2437)
- All vegetative and structural practices are to be installed according to the provisions of this plan and are to be in conformance with the 1983 MARYLAND STANDARDS AND SPECS. FOR SOIL EROSION AND SEDIMENT CONTROL.
- 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.
- All sediment traps/basins shown must be fenced and warning signs posted around their perimeters in accordance with Vol. I, Chapter 12, of the HOWARD COUNTY DESIGN MANUAL, Storm Drainage.
- All disturbed areas must be stabilized within the time period specified above in accordance with the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for permanent seedings (Sec.51) and temporary seedings (Sec.50) and mulching (Sec.52). Temporary stabilization with mulch alone can only be done when recommended seedings dates do not allow for proper germination and establishment of grasses.
- 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.
- SITE ANALYSIS:
 - Total Area of Site: 1.108 AC.
 - Area Disturbed: 0.66 AC.
 - Area to be roofed or paved: 0.25 AC.
 - Area to be vegetatively stabilized: 0.41 AC.
 - Total Cut: 209 Cu. yds
 - Total Fill: 223 Cu. yds
- Offsite Waste/Borrow Area Location: _____
- Any sediment control practice which is disturbed by grading activity for placement of utilities must be repaired on the same day of disturbance.
- Additional sediment control must be provided, if deemed necessary by the Howard County DPW Sediment Control Inspector, but proceeding with any other earth disturbance or grading. Other building or grading inspection approvals are not to be authorized until this initial approval by the inspection agency is made.
- If houses are to be constructed on an "as sold" basis, at random, Single Family Sediment Control, as shown below shall be implemented.
- The total amount of silt fence is 655 L.F.

CONSTRUCTION SEQUENCE:

	NO. OF DAYS
A. Obtain grading permit	7
B. Install S&E Control Devices and tree protection fences	7
C. Excavate for foundations and Rough Grade if temporarily stabilize	15
D. Construct structures, ditches and drainage	14
E. Final grade and stabilize in accordance with Stds. and Specs.	14
F. Upon approval of the sediment control inspector, remove sediment and erosion control devices and stabilize	7

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, discing or other acceptable means before seeding. If not previously loosened.

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

- Preferred: Apply 2 tons per acre dolomitic limestone (92 lbs./1000 sq ft.) and 600 lbs. per acre 10-10-10 fertilizer (14 lbs./1000 sq ft.) before seeding. Harrow or disc into upper three inches of soil. At the time of seeding, apply 400 lbs. per acre 30-0-0 ureaform fertilizer (9 lbs./1000 sq ft.).
- Acceptable: Apply 2 tons per acre dolomitic limestone (92 lbs./1000 sq 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 50 lbs. 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. Kentucky 31 Tall Fescue per acre and 2 lbs. per acre (0.5 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 well anchored straw mulch and seed as soon as possible in the spring. Option (2) Use seed. Option (3) Seed with 60 lbs./acre Kentucky 31 Tall Fescue and mulch with 2 tons/acre well anchored straw.

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

MAINTENANCE: Inspect all seeded areas and make needed repairs, replacements and reseedings.

TEMPORARY SEEDING NOTES

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

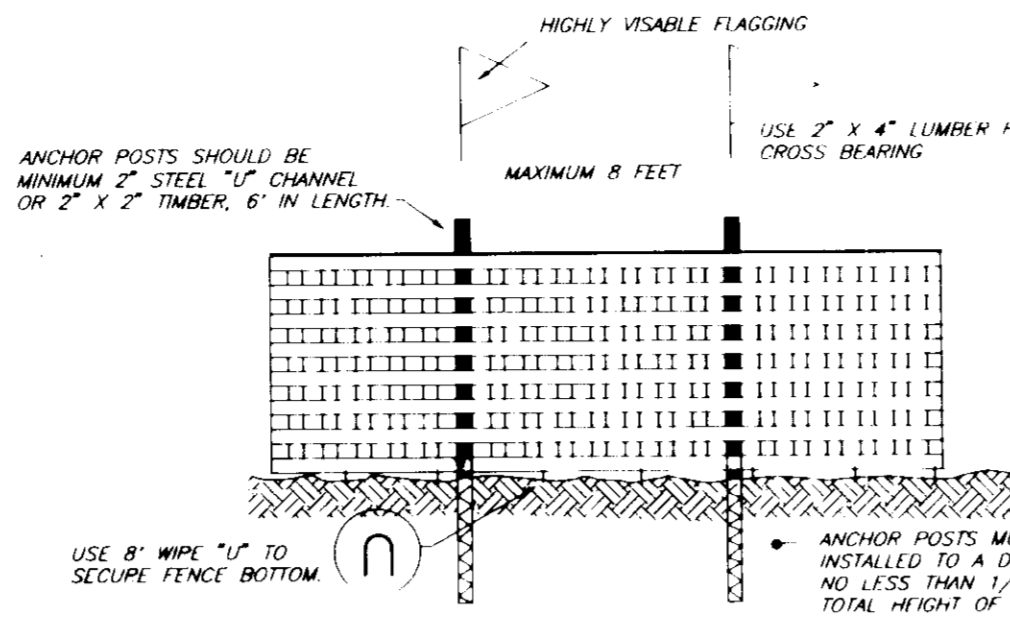
SOIL AMENDMENTS: Apply 600 lbs. per acre 10-10-10 fertilizer (14 lbs./1000 sq ft.).

SEEDING: For periods March 1 thru April 30 and from August 15 thru November 15, seed with 2 1/2 bushels per acre of annual ryegrass (3.2 lbs./1000 sq ft.). For the period May 1 thru August 14, seed with 3 lbs. per acre of weeping lovegrass (0.7 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 loam.

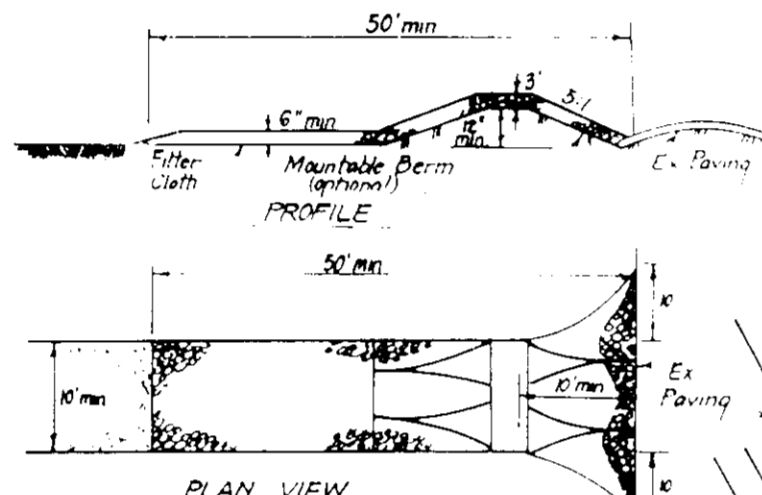
MULCHING: Apply 1 1/2 to 2 tons per acre (70 to 90 lbs./1000 sq ft.) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gallons per acre (5 gal./1000 sq ft.) of emulsified asphalt on flat areas. On slopes 8 feet or higher,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

BLAZE ORANGE PLASTIC MESH TYPICAL TREE PROTECTION FENCE DETAIL



- NOTES:
- Forest protection device only.
 - Retention area will be set as part of the review process.
 - Boundaries of retention area should be staked and flagged prior to installing device.
 - Root damage should be avoided.
 - Protection signage may also be used.
 - Device should be maintained throughout construction.



CONSTRUCTION SPECIFICATIONS

- Stone size: Use 2" stone or equivalent or recycled concrete material.
- Length: As required, but not less than 40 feet except in impassible lot where a 30 foot minimum length would apply.
- Thickness: Not less than six (6) inches.
- Width: Ten (10) feet minimum, but not less than the full width at points where ingress or egress occurs.
- Filter Cloth: Will be placed over the entire area prior to pouring of stone. It will not be required on a single family residence lot.
- Surface Water: All surface water flowing over top of stone entrance shall be piped across the entrance. If possible, install a catch basin with a 5" slope will be permitted.
- Maintenance: The entrance shall be maintained in a condition which will prevent tracking or flowing of sediment onto public rights of way. This may require periodic top dressing with additional stone as material depletes and/or cleaning or flushing of sediment onto public rights of way. Sediment must be removed immediately.
- Workings: When the site is cleared to remove sediment to or from the area shall be stabilized with stone and which shall be approved by the Sediment Inspector.
- Periodic inspection and needed maintenance shall be performed at the discretion of the Sediment Inspector.

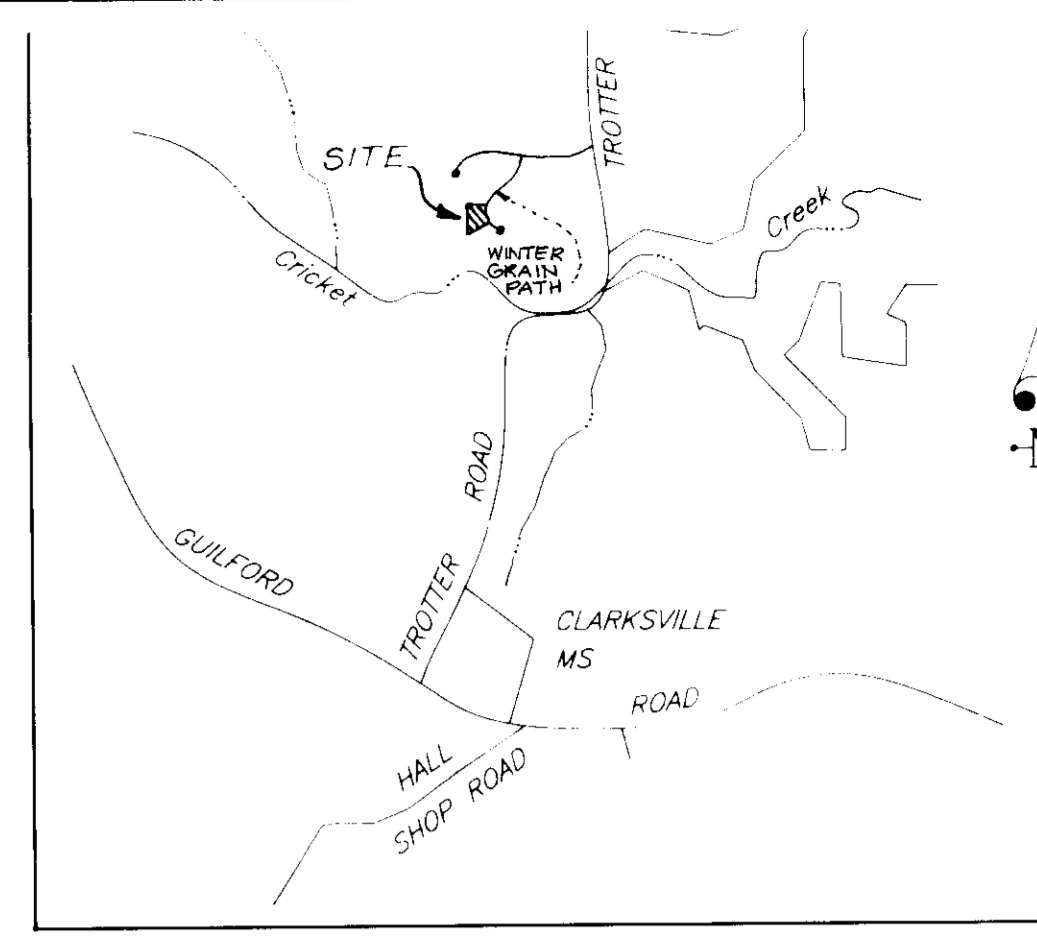
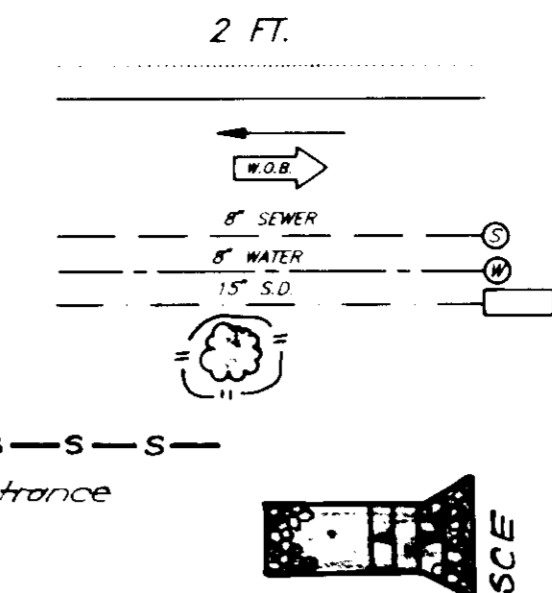
STABILIZED CONSTRUCTION ENTRANCE SEE

LEGEND

CONTOUR INTERVAL
EXISTING CONTOUR
PROPOSED CONTOUR
DIRECTION OF DRAINAGE
WALK OUT BASEMENT

EXISTING SEWER MAIN
EXISTING WATER MAIN
EXISTING STORM DRAIN
EXISTING TREES TO REMAIN
Tree Detection Fence

Silt Fence
Stabilized Construction Entrance w/ Mountable Berm



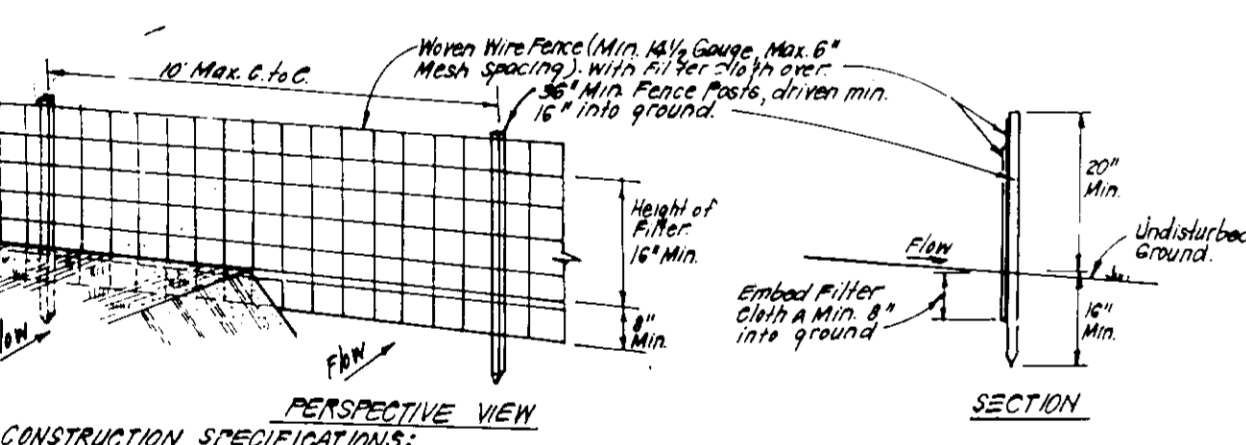
VICINITY MAP
SCALE: 1"=2000'

GENERAL NOTES:

- The contractor shall notify the Department of Public Works/ Bureau of Construction Inspection at (301) 792-7272 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.
- The existing topography shown was taken from F-92-87 that was prepared by John R. Hendricks, P.E.
- The coordinates shown herein are based upon the Howard County Geodetic Control which is based upon the NAD 27, Maryland Coordinate System - Control Stations No. s 2437001, 2337002, and 2330033.
- Storm water management is provided per: F-92-87.
- Any damage to county owned rights-of-way shall be corrected at the developer's expense.
- Utilities shown as existing are taken from approved water and sewer plan Contract #34-3178-D, approved road construction plans F-92-87, and actual field survey.
- Department of Planning and Zoning reference file numbers are: S 92 02, RB Case 274, WP-92-22, F-92-87, FDP-214.
- All roadways are public and existing.
- Subject property is zoned: New Town per B-2-85 Comprehensive Zoning Plan.
- The total area included in this submission is 1.108 Ac.
- The total number of lots included in this submission are 3.
- No clearing, grading, or construction is permitted within the wetland or stream buffers, except as approved by the Dept. of Planning and Zoning.
- The maximum lot coverage is: 30%
- Improvement to property - Single Family Detached WP-92-22 to exempt the submission of a preliminary plan, exempt developer from making road improvements along Trotter Road, to permit cut-off-sac length to exceed 1200 Ft. to permit grading disturbance for Red Clover Ln. within wetlands. For driveway entrance details, refer to Howard County Design Manual Volume IV, 8th Details R-G-OI.

SPECIAL NOTES:

This plan is for house siting and grading only. Improvements shown within the rights-of-way on this S.U.P. are not to be used for construction. For construction, see approved Road Construction Plans F-92-87 and approved Water and Sewer Plans Contract #34-3178-D.



CONSTRUCTION SPECIFICATIONS:

- When wire fence is to be fastened securely to fence posts with wire ties or staples.
- Filter Cloth is to be fastened securely to mesh wire fence with ties spaced at 6" intervals.
- When 2 sections of filter cloth are used, they shall be overlapped by 6" and stapled.
- Staples shall be applied in a staggered pattern and removed when staples develop in silt fence.

SILT FENCE DETAIL (3)

NO SCALE

NO.	REVISIONS	DATE
1	Rev. hse f'rd. lot 35	2-19-93
2	Rev. hse f'rd. lot 33, Add hse typical	7-30-93

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS
HOWARD COUNTY HEALTH DEPARTMENT
James R. Brown 11-19-92
COUNTY HEALTH OFFICER DATE

APPROVED HOWARD COUNTY DEPT. OF PLANNING AND ZONING
John F. Johnson 11/30/92
DATE

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE
STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
James R. Brown 11-31-92
DIRECTOR DATE

CHIEF BUREAU OF ENGINEERING
John F. Johnson 11-30-92
DATE

SINGLE LOT SEDIMENT CONTROL PLAN

NO SCALE

Reviewed for HOWARD COUNTY
I do hereby 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.

John F. Johnson 11/16/92
Signature Date
US Soil Conservation Service

DEVELOPER'S/BUILDER'S CERTIFICATE

"I, the undersigned, 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."

John F. Johnson 11/16/92
Signature Date

ENGINEER'S CERTIFICATE

I hereby 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.

G. Nelson Clark 9-15-92
Signature Date

CLARK • FINEFROCK & SACKETT, INC.
ENGINEERS • PLANNERS • SURVEYORS
7135 MINSTREL WAY • COLUMBIA, MD 21045 • (301) 381-7500

DESIGNED	VLP	SCALE	1"=30'
DRAWN	BAL	DRAWING	1 OF 1
CHECKED	UAE	JOB NO.	92-147
DATE	FOR	FILE NO.	92-147X

OWNER/DEVELOPER:
HOWARD RESEARCH AND DEVELOPMENT CORPORATION
10275 Little Patuxent Parkway
Columbia, Maryland 21046

SDP 93-22