

PERMANENT SEEDING NOTES

APPLY TO GRAZED OR CLEARED AREAS NOT SUBJECT TO IMMEDIATE FURTHER DISTURBANCE WHERE A PERMANENT LONG-TERM VEGETATIVE COVER IS NEEDED.

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

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

- 1) Preferred - Apply 2 tons per acre dolomitic limestone (92 lbs. 1000 sq ft.) and 600 lbs. per acre 10-10-10 fertilizer (4 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 ureaformaldehyde fertilizer (8 lbs. 1000 sq ft.).
- 2) Acceptable - Apply 2 tons per acre dolomitic limestone (92 lbs. 1000 sq ft.) and apply 100 lbs. per acre 10-10-10 fertilizer (2 lbs. 1000 sq ft.) before seeding. Harrow or disc into upper three inches of soil.

SEEDING: For periods March 1 thru April 30, and August 1 thru October 30, seed with 40 lbs. per acre 10-10-10 fertilizer (2 lbs. 1000 sq ft.) and 600 lbs. per acre 10-10-10 fertilizer (4 lbs. 1000 sq ft.) before seeding. For the period May 1 thru July 31, seed with 80 lbs. Kentucky 31 Tall Fescue per acre and 2 lbs. per acre 30-0-0 ureaformaldehyde fertilizer (8 lbs. 1000 sq ft.). For the period October 1 thru February 28, protect site by applying 2 tons per acre well anchored straw mulch and seed as soon as possible in the spring. Option 2: seed with 40 lbs. per acre 10-10-10 fertilizer (2 lbs. 1000 sq ft.) and 600 lbs. per acre 10-10-10 fertilizer (4 lbs. 1000 sq ft.) before seeding. For the period March 1 thru April 30, and August 1 thru October 30, seed with 40 lbs. per acre 10-10-10 fertilizer (2 lbs. 1000 sq ft.) and 600 lbs. per acre 10-10-10 fertilizer (4 lbs. 1000 sq ft.) before seeding. For the period May 1 thru July 31, seed with 80 lbs. Kentucky 31 Tall Fescue per acre and 2 lbs. per acre 30-0-0 ureaformaldehyde fertilizer (8 lbs. 1000 sq ft.). For the period October 1 thru February 28, protect site by applying 2 tons per acre well anchored straw mulch and seed as soon as possible in the spring. Option 2: seed with 40 lbs. per acre 10-10-10 fertilizer (2 lbs. 1000 sq ft.) and 600 lbs. per acre 10-10-10 fertilizer (4 lbs. 1000 sq ft.) before seeding.

MULCHING: Apply 1, 1/2 to 2 tons per acre (70 to 90 lbs. 1000 sq ft.) of untreated small grain straw immediately after seeding. Anchor mulch immediately after application using anchoring tool of 218 gallons per acre (5 gal./1000 sq ft.) of emulsified asphalt on flat areas. On slopes 8 feet or higher, use 146 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, disking or other acceptable means before seeding, if not previously loosened.

SOIL AMENDMENTS: Apply 600 lbs. per acre 10-10-10 fertilizer (4 lbs. 1000 sq ft.).

SEEDING: For periods March 1 thru April 30, and from August 1 thru November 15, seed with 2 1/2 to 3 bushels per acre of annual ryegrass (2.2 lbs. 1000 sq ft.). For the period May 1 thru August 14, seed with 1 lb. per acre of weeping lovegrass (0.5 lbs. 1000 sq ft.). For the period November 1 thru February 28, protect site by applying 2 tons per acre 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 untreated small grain straw immediately after seeding. Anchor mulch immediately after application using anchoring tool of 218 gallons per acre (5 gal./1000 sq ft.) of emulsified asphalt on flat areas. On slopes 8 feet or higher, use 146 gallons per acre (8 gal./1000 sq ft.) for anchoring.

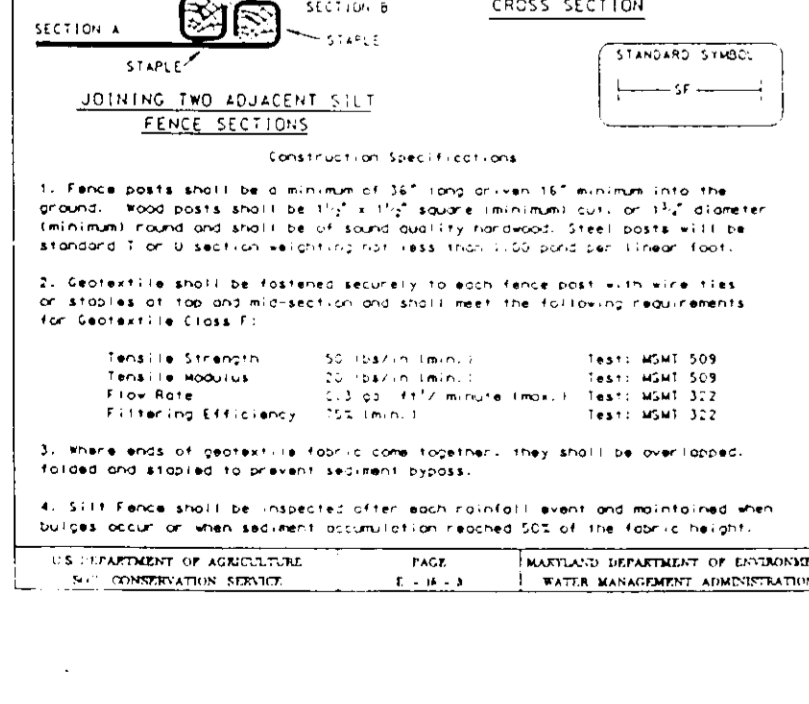
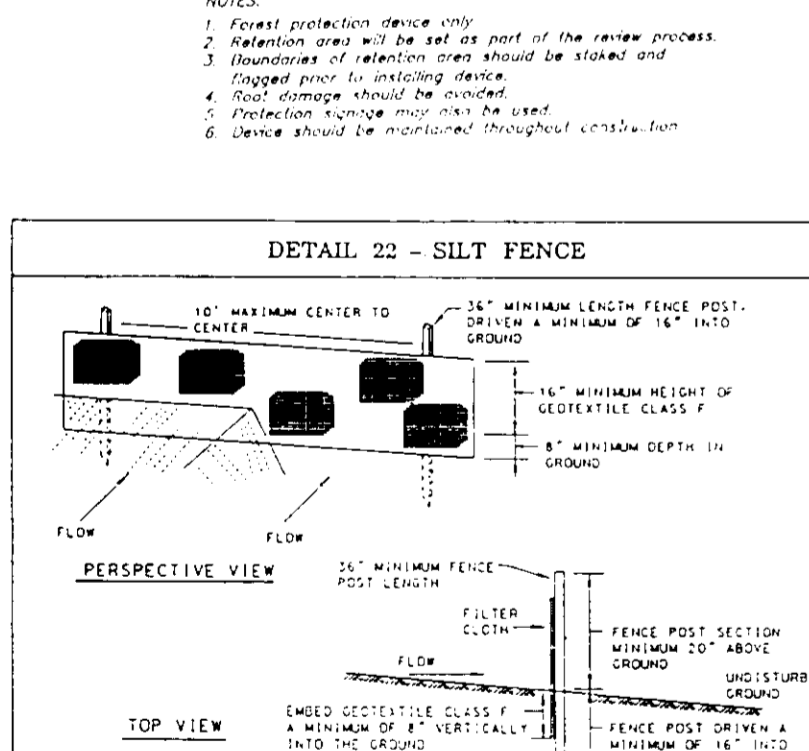
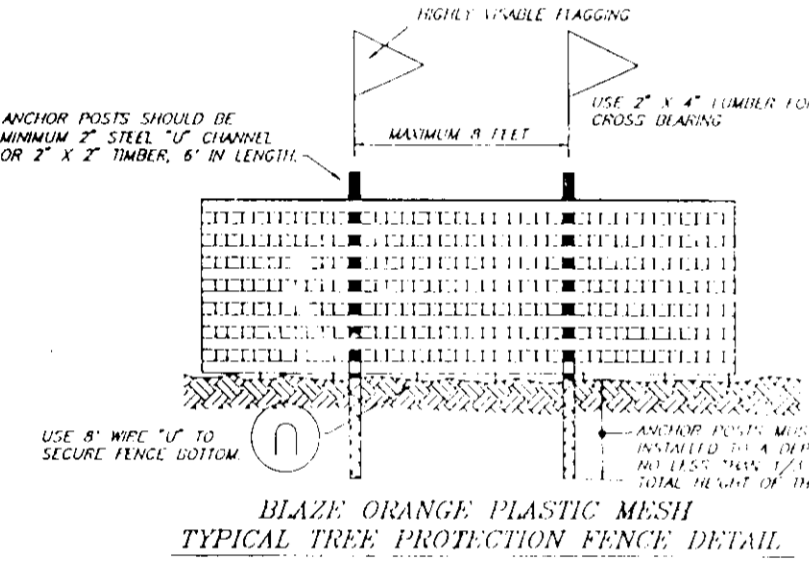
REFER TO THE 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR RATE AND METHODS NOT COVERED.

SEDIMENT AND EROSION CONTROL NOTES

1. 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 (313-1855).
2. All vegetative and structural practices are to be installed according to the provisions of this plan and are to be in performance with the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
3. Following initial soil disturbance or re-disturbance, 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 1:1.
 - 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 perimeters in accordance with Chapter 12 of the HOWARD COUNTY DESIGN MANUAL, Storm Drainage.
5. 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. 13.1) and (Sec. 14) temporary seedings (Sec. 50) and mulching (Sec. 52). Temporary stabilization with mulch alone can only 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 of Site: 1.24 AC
 - Area Disturbed: 0.78 AC
 - Area to be roofed or paved: 0.24 AC
 - Area to be vegetatively stabilized: 0.55 AC
 - Total Cut: 2850 CY
 - Total Fill: 2850 CY
 - Missile Waste: Barrow 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.
9. Appropriate sediment control must be provided, if deemed necessary by the Howard County Sediment Control Inspector.
10. In 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 than building of grading inspection approvals may not be authorized until this approval is received from the inspection agency's representative.
11. The total amount of silt fence is 355 LF.

CONSTRUCTION SEQUENCE

NO.	DESCRIPTION	NO. OF DAYS
1	Obtain grading permit	7
2	Install tree protection fence	7
3	Install sediment and erosion control devices and stabilize	7
4	Excavate for foundation, rough grade and temporarily stabilize	30
5	Construct structures, sidewalks and driveways	30
6	Final grade and stabilize in accordance with lifts and specs	12
7	Open approval of the sediment control inspector, remove sediment and erosion control devices and stabilize	7



APPROVED: DEPARTMENT OF PLANNING AND ZONING

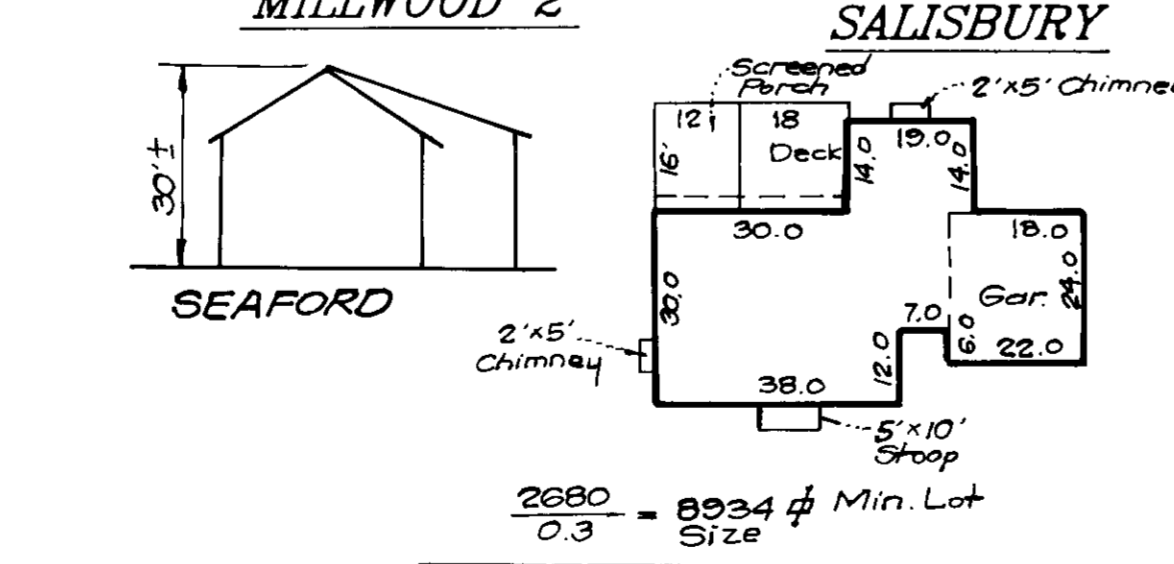
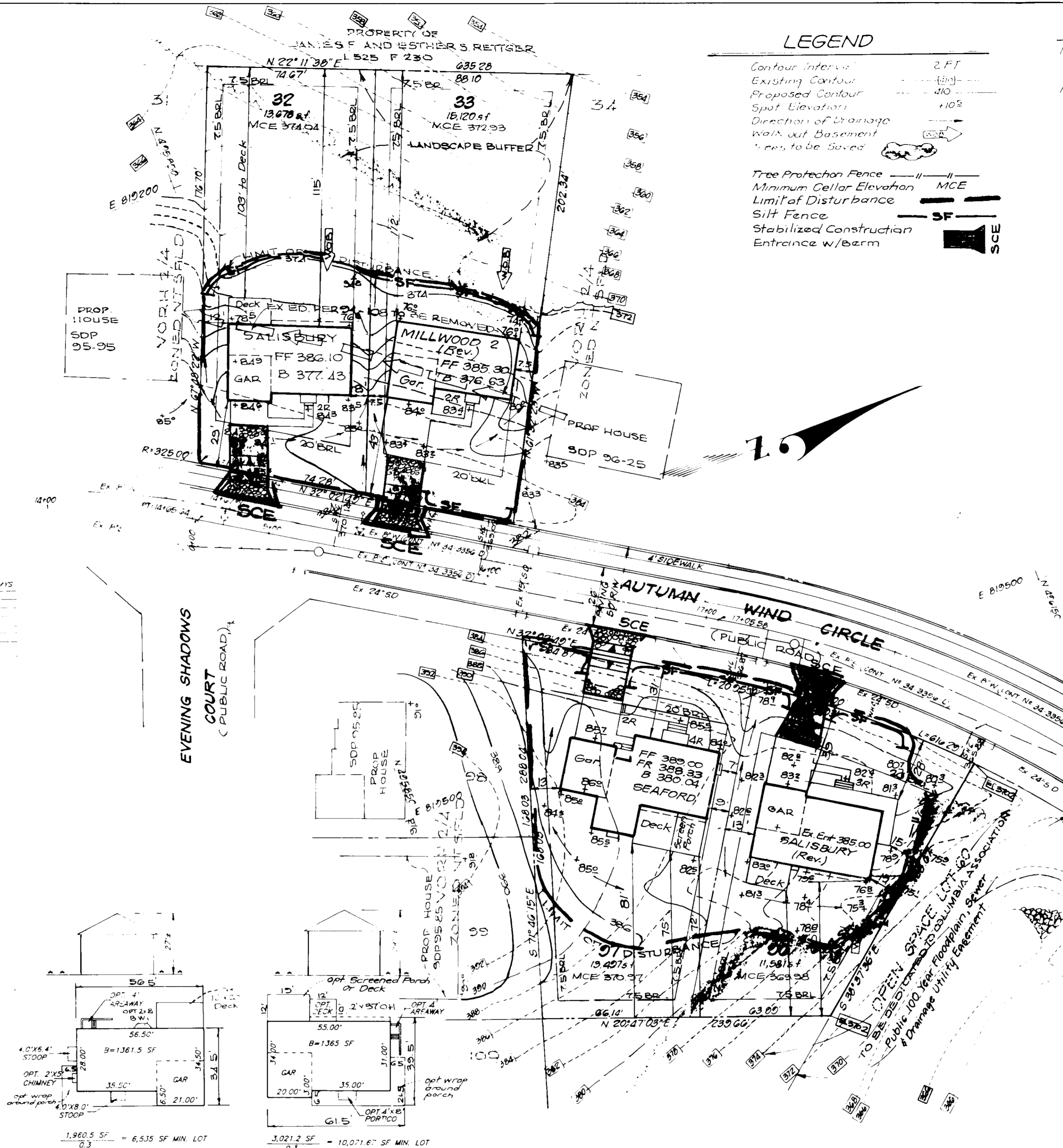
Chief, Development Engineering Division: *[Signature]* 12/14/95 Date

Chief, Division of Land Development and Research: *[Signature]* 12/15/95 Date

Director: *[Signature]* 12/15/95 Date

REVISIONS

NO.	REVISIONS	Date
3	Rev. hse. & grd. lot 33	7-26-95
2	Rev. hse. & grd. lot 27. Add hse. typical	4-12-95
1	Rev. grd. to show As-Built Conditions lot 36	4-9-95



OWNER/DEVELOPER
THE HOWARD RESEARCH AND DEVELOPMENT CORP.
10275 LITTLE PATUXENT PARKWAY
COLUMBIA, MARYLAND, 21044

DEVELOPER'S/BUILDER'S CERTIFICATE

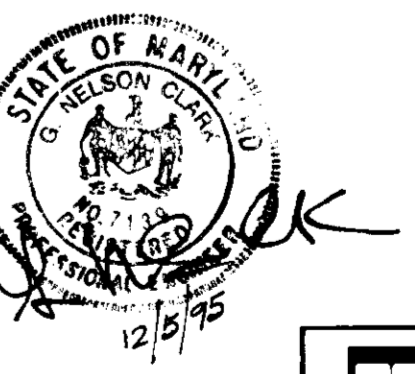
I/We certify that all development and construction will be done according to this plan of development and plan for sediment and erosion control and that all responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of the Environment Approved Training 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 or their authorized agents, as are deemed necessary.

[Signature] 12/5/95 DATE
HARRY A. BOWIE PRESIDENT

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.

[Signature] 12-5-95 DATE
C. NELSON CLARK



SPECIAL NOTES:

This plan is for house siting and lot grading only. Improvements shown within the rights-of-way on this S.D.P. are not to be used for construction. For construction, see approved Road Construction Plans F24-102 and/or approved Water and Sewer Plans Contract #34-3356-D.

SHEET INDEX

SITE DEVELOPMENT, SEDIMENT AND EROSION CONTROL PLAN 1 OF 1

NOTE:

THIS PLAN IS IN ACCORDANCE WITH THE ALTERNATIVE COMPLIANCE LANDSCAPE PROVISION FOR RETENTION OF EXISTING TREES ALONG LOTS 32 & 33 ON THE PROJECT BOUNDARY, PER SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE LANDSCAPE MANUAL.

SUBDIVISION NAME	COLUMBIA VILLAGE OF RIVER HILL	SECTION/AREA	2/4	LOTS/PARCELS	32, 33, 36 & 37
PLAT NO.	11266-11473	BLOCK NO.	13	ZONE	NT 5FLO
TAX MAP NO.	35	ELECTION DIST.	35	CENSUS TRACT	6055
WATER CODE	I 11	SEWER CODE	GG5000		

CLARK • FINEPROCK & SACKETT, INC.
ENGINEERS • PLANNERS • SURVEYORS

7135 MINISTRE WAY • COLUMBIA, MD 21046 • 410-997-7600 • FAX: 410-997-7601

DESIGNED	R.M.T.	SITE DEVELOPMENT, SEDIMENT AND EROSION CONTROL PLAN COLUMBIA VILLAGE OF RIVER HILL SECTION 2 AREA 4 FIFTH (5TH) ELECTION DISTRICT HOWARD COUNTY, MARYLAND	SCALE	1"=30'
DRAWN	Z.H. BMT		DRAWING	1 OF 1
CHECKED	jme		JOB NO.	05-012
DATE	12-5-95		FILE NO.	25-012X
			FOR: NU-HOMES INC.	

FOR: NU-HOMES INC. 9801 BROKEN LAND PARKWAY SUITE 401 COLUMBIA, MARYLAND 21046-1165

SDP-96-50