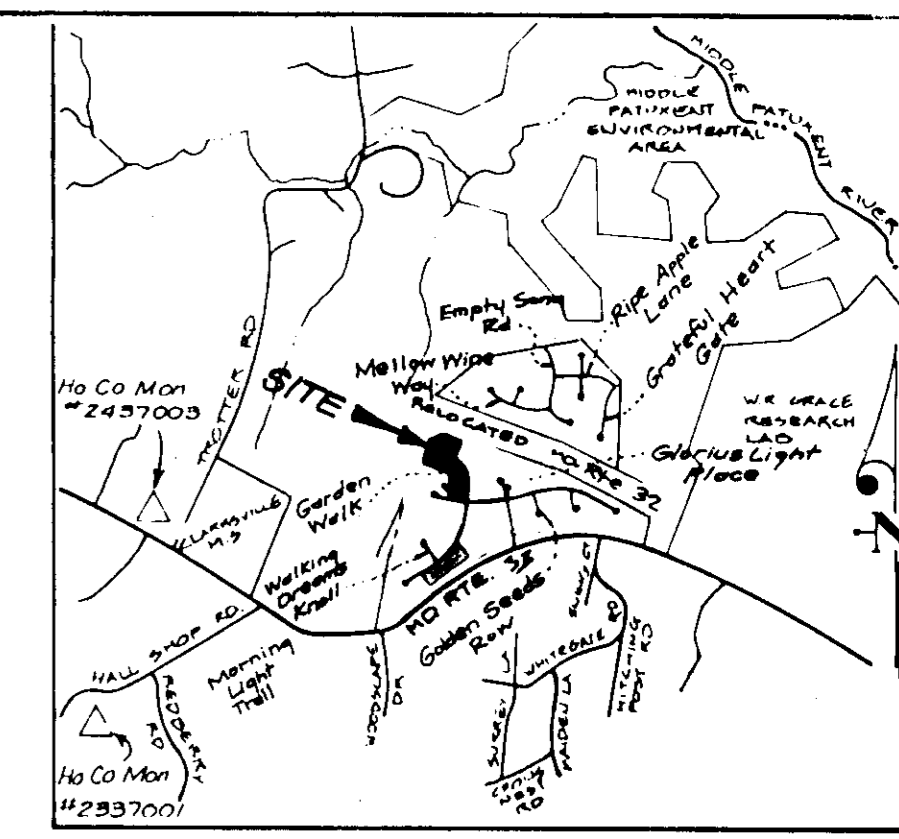
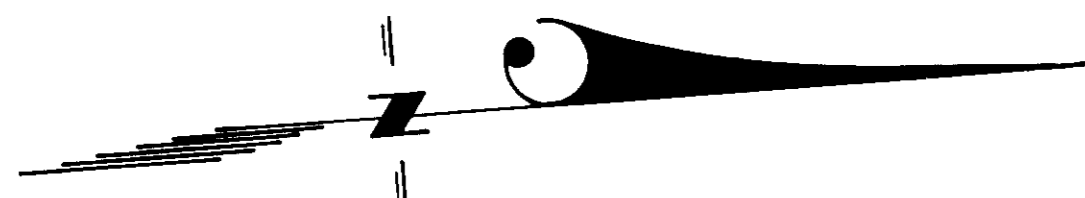


LEGEND

- Contour Interval 2 FT
- Existing Contour
- Proposed Contour
- Spot Elevation
- Direction of Drainage
- Tree Protection Fence
- Existing Trees to Remain



VICINITY MAP

SCALE: 1"=2000'

Howard County Monument No. 233700; Elev. 476.095
 3/4" Reinforcing Rod, 0.6" Below Surface
 North: 491612.385 East: 815527.785
 Howard County Monument No. 2437003; Elev. 472.122
 Concrete Monument, 0.25" Below Surface
 North: 494285.251 East: 815525.345

GENERAL NOTES:

1. Subject property is zoned: NT SFLD per 10-1B-93 Comprehensive Zoning Plan.
2. The total area included in this submission is: 4.44 ac or 193,470 sq ft.
3. The total number of lots included in this submission are: 15.
4. Improvement to property: Single family detached.
5. Per driveway engineering per H.C. Design Manual, Volume III, Chapter 5, Section 5.1.1.
6. Department of Planning and Zoning reference file numbers are: F-93-B1, S-93-08, F-93-18, S-93-12.
7. Utilities shown as existing are taken from approved water and sewer plan Contract # 34-3210-D, approved road construction plans F-93-B1, and actual field survey.
8. Any damage to county owned rights-of-way shall be corrected at the developer's expense.
9. Storm water management is provided per: F-93-B1 See Note 18.
10. All roadways are public and existing.
11. The existing topography shown was field run by Clark Fineprock & Sackett, Inc. on Jan. 24, 1994.
12. The coordinates shown hereon are based upon the Maryland State Plane Coordinate System - Howard County Monument Nos.: 2437003 and 2337001.
13. The contractor shall notify the Department of Public Works/Division of Construction Inspection a 1410/313-1810 at least five (5) working days prior to the start of work.
14. The contractor shall notify "Miss Utility" at 1-800-257-7777 at least 48 hours prior to any excavation work.
15. Under certain conditions, decks and porches may only extend 3 feet into front and rear setbacks areas as shown on Plan 209. The setback lines are shown on the plan. The contractor shall perform subsequent clearing, grading or construction in the buffer area. Maintenance of residences, landscaping and utilities is permitted.
16. The 65 dBA Noise Contour Line represents the approximate location of the 65 dBA (one-third octave) noise exposure level generated by Md. 32 traffic in the year 2015 based upon assumptions about actual conditions at that time. This value represents the average sound level during the single noisiest one-hour period of vehicular traffic during a typical day. This calculation is based on the State's estimate of year 2015 highway traffic volume. The contour line shown on this plan is advisory as required by H.C. Design Manual, Vol. III, Chapter 5, Revised Feb. 1992, and cannot be considered to locate exactly the 65-dBA exposure.
17. Stormwater Management for this development are detention facilities created by road fills, which was designed by Whitman, Reardon & Assoc. Water quality is provided by extended detention basin designed by Fisher, Collins & Carter, Inc.

SHEET INDEX

SUBMISSION NAME	COLUMBIA	SECTION/AREA	2/2 Ph 2	LOTS/PARCELS	13-16 & 52-62
PLAT NO.	1039410035	BLOCK NO.	21	ZONE	NT SFLD
TAX MAP NO.		TAX MAP NO.		ELECTION DIST.	5TH
WATER CODE	B01	SEWER CODE	E153000		

SPECIAL NOTES:

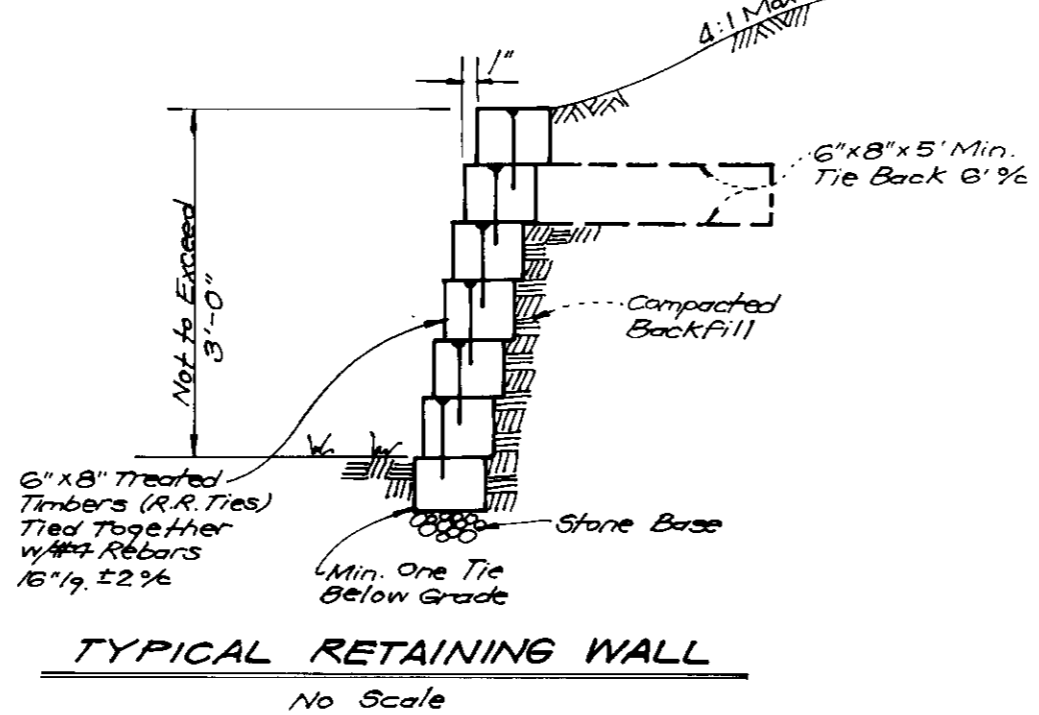
This plan is for house siting and lot grading only. Improvements shown within the rights-of-way on this S.D.P. are not to be used for construction. For construction, see approved Road Construction Plans F-93-B1 and/or approved Water and Sewer Plans Contract # 34-3210-D.

OWNER/DEVELOPER

THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION
 10275 Little Patuxent Pkwy.
 Columbia, Maryland 21044

ADDRESS CHART

LOT No.	STREET ADDRESS
52	TOTE Garden Walk
53	TOCA Best Times Path
54	TOOB
55	TO12
56	TO16
57	TO20
58	TO24
59	TO41
60	TO57
61	TO53
62	TO25



APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING
 DIRECTOR: *[Signature]* DATE: 5/10/94
 CHIEF DIVISION OF LAND DEVELOPMENT AND RESEARCH: *[Signature]* DATE: 5/10/94

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 DIRECTOR: *[Signature]* DATE: 5/3/94
 CHIEF BUREAU OF ENGINEERING: *[Signature]* DATE: 4/29/94

CLARK • FINEPROCK & SACKETT, INC.
 ENGINEERS • PLANNERS • SURVEYORS
 7135 MINTFREL WAY • COLUMBIA, MD. 21045 • (410) 881-7500 • BALTO. • (301) 611-8100 • WASH.

DESIGNED	MUP	SCALE	1"=30'
DRAWN	BAL	DRAWING	10F5
CHECKED	JME	JOB NO.	34-009
DATE	April 15, 1994	FILE NO.	34-009

SITE DEVELOPMENT PLAN
 LOTS 13-16 and 52-62
COLUMBIA
 VILLAGE OF RIVER HILL
 SECTION 2 AREA 2 PHASE 2
 FIFTH ELECTION DISTRICT
 HOWARD COUNTY MARYLAND

For COLUMBIA BUILDERS, INC.
 PO Box 999
 Columbia, Md 21044

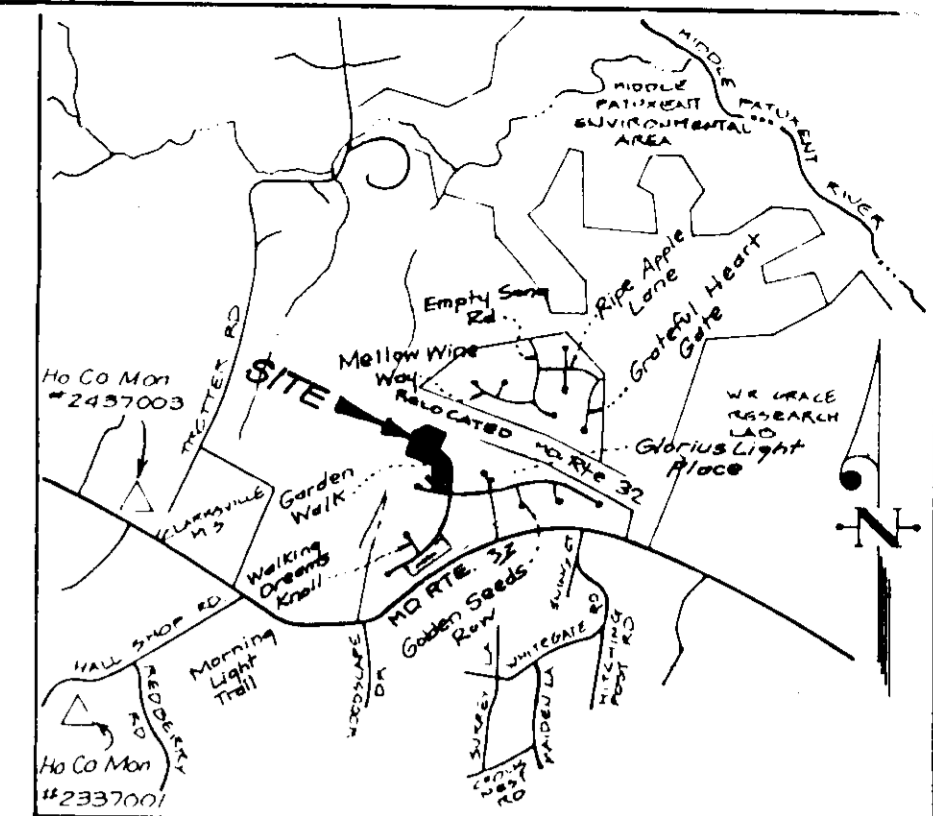
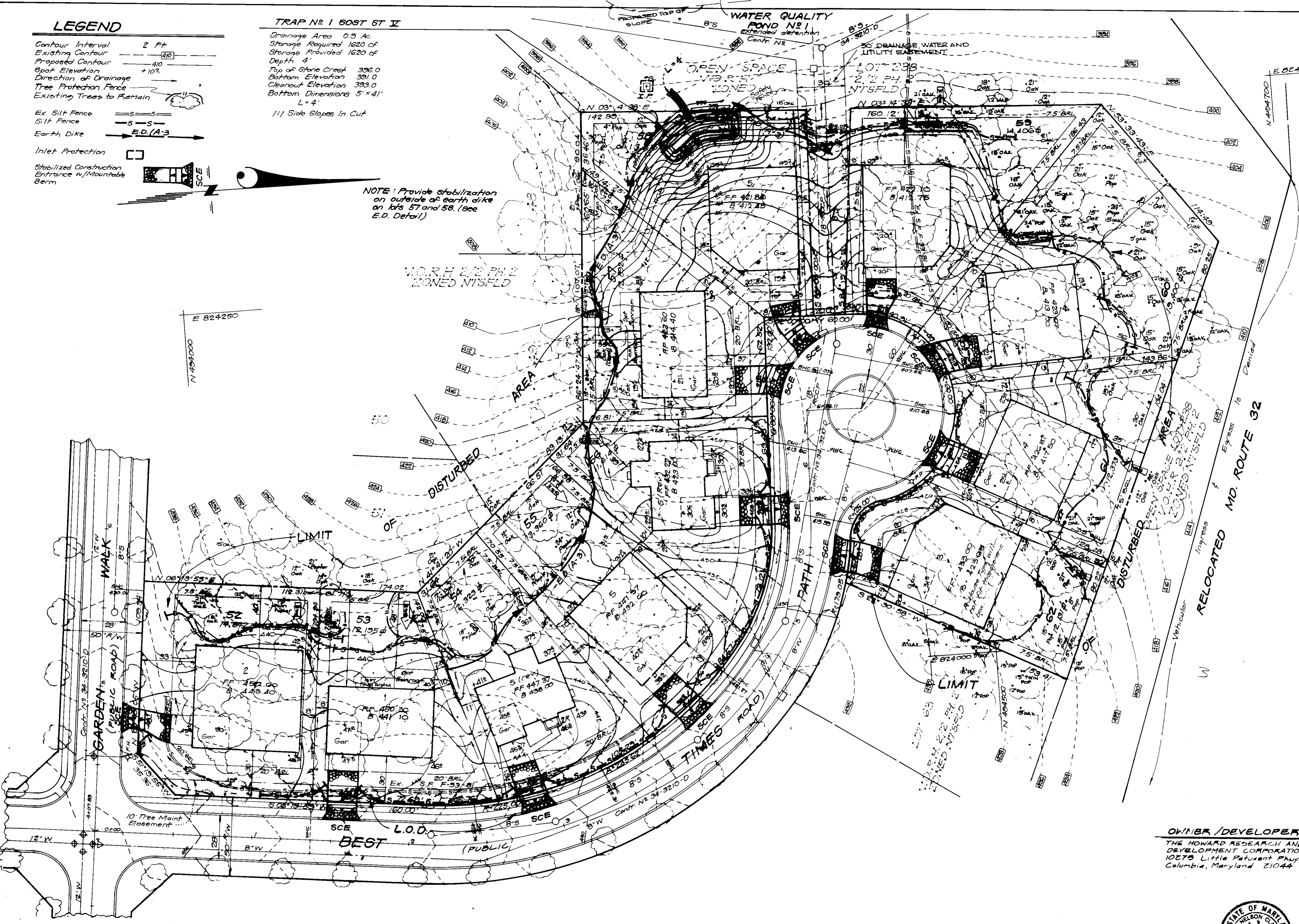
LEGEND

- Contour Interval 2 Ft
- Existing Contour
- Proposed Contour
- Spot Elevation +10%
- Direction of Drainage
- Tree Protection Fence
- Existing Trees to Remain
- Ex. Silt Fence
- Silt Fence
- Earth Dike
- Inlet Protection
- Stabilized Construction Entrance w/ Mountable Berm

TRAP NO 1 60ST ST W

Drainage Area 0.9 Ac
 Storage Required 1620 of
 Storage Provided 1620 of
 Depth 4'
 Top of Stone Crest 396.0
 Bottom Elevation 391.0
 Cleanout Elevation 393.0
 Bottom Dimensions 5'x4'
 L=4'
 1:1 Side Slopes In Cut

NOTE: Provide stabilization on outside of earth dike on lots 57 and 58. (see E.D. Detail)



VICINITY MAP
 SCALE: 1"=2000'

OWNER/DEVELOPER
 THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION
 10275 Little Patuxent Pkwy
 Columbia, Maryland 21044

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING
 [Signature] 5/11/94
 [Signature] 5/10/94
 CHIEF DIVISION OF LAND DEVELOPMENT AND RESEARCH
 APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 [Signature] 5/3/94
 [Signature] 4/20/94

Reviewed for HOWARD S.C.D.
 Name: [Signature]
 and meets Technical Requirements
 Signature: [Signature] Date: 5/1/94
 U.S. Soil Conservation Service

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

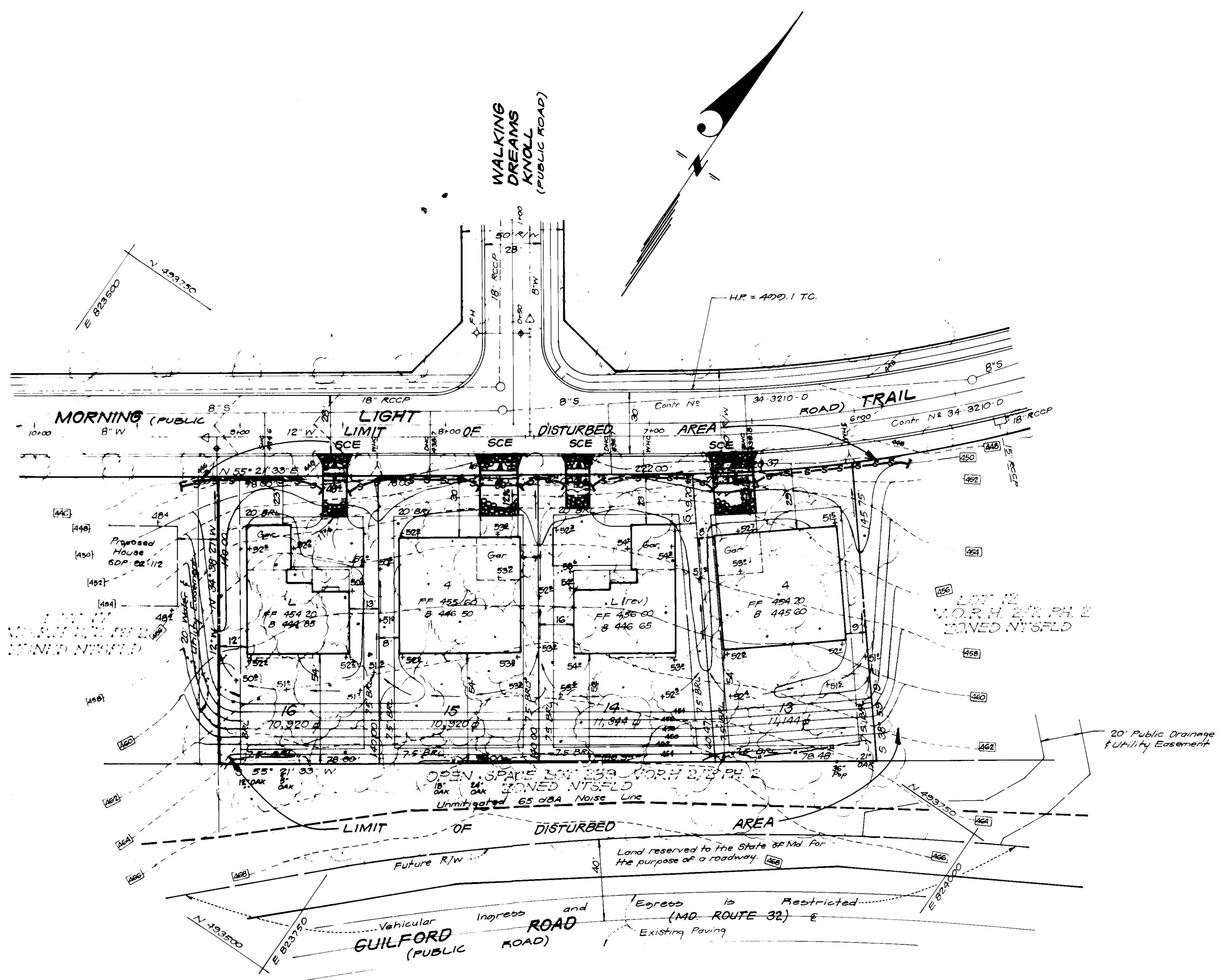
[Signature] 5/2/94
 Approved Date

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 erosion and sediment 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 deemed necessary.
 [Signature] 3-2-94
 Signature of Developer/Builder Date

ENGINEER'S CERTIFICATE
 I hereby 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.
 [Signature] 3-2-94
 G. Nelson Clark Date



CLARK • FINEFROCK & SACKETT, INC. ENGINEERS • PLANNERS • SURVEYORS 7135 MINISTREL WAY • COLUMBIA, MD 21044 • (410) 871-7500 • FAX (410) 871-8000 • WASH.		
DESIGNED ULS	SEDIMENT & EROSION CONTROL PLAN LOTS 13-16 and 52-62 COLUMBIA VILLAGE OF RIVER HILL SECTION 2 AREA 2 PHASE 2 FIFTH ELECTION DISTRICT HOWARD COUNTY MARYLAND For COLUMBIA BUILDERS, INC. P.O. Box 939 Columbia, Md. 21044	SCALE 1"=30'
DRAWN BAL		3 OF 5
CHECKED ULS		JOB NO 94-000
DATE April 15, 1994		FILE NO 94-000



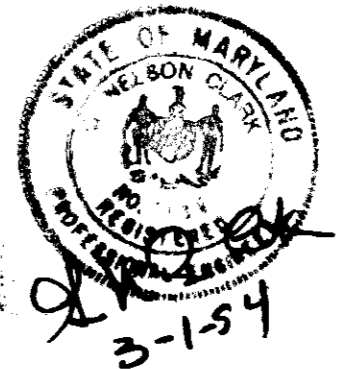
OWNER / DEVELOPER
 THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION
 10275 Little Patuxent Pkwy.
 Columbia, Maryland 21044

Reviewed for HOWARD S.C.D.
 Name
 Signature Richard Blazel Date 5/10/94
 US Soil Conservation Service

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
 Signature [Signature] Date 5/13/94

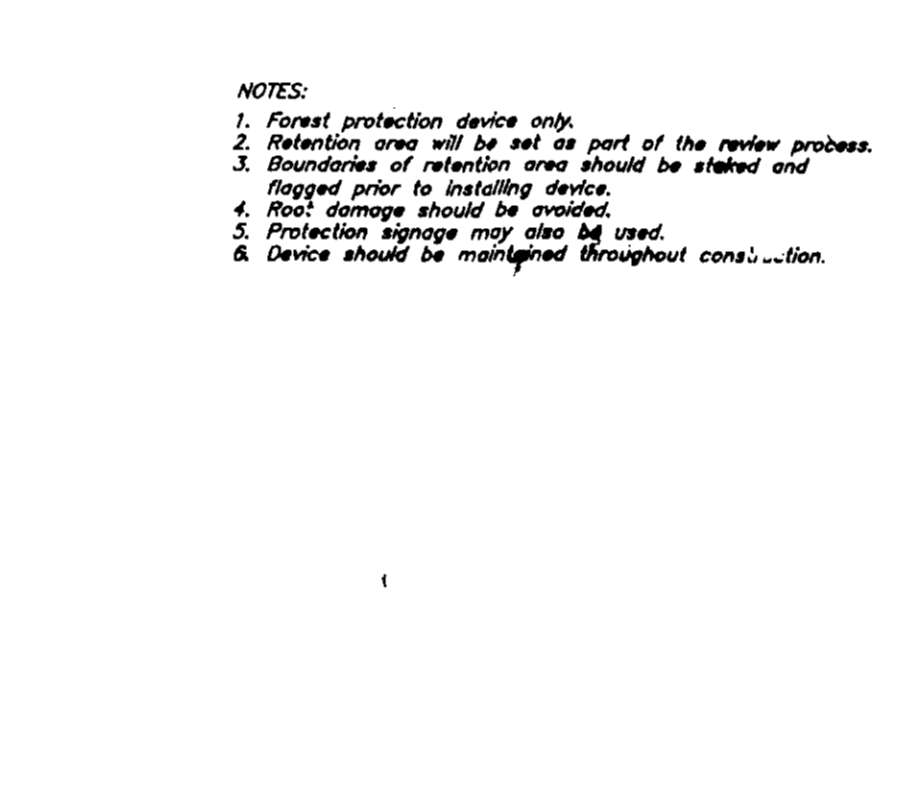
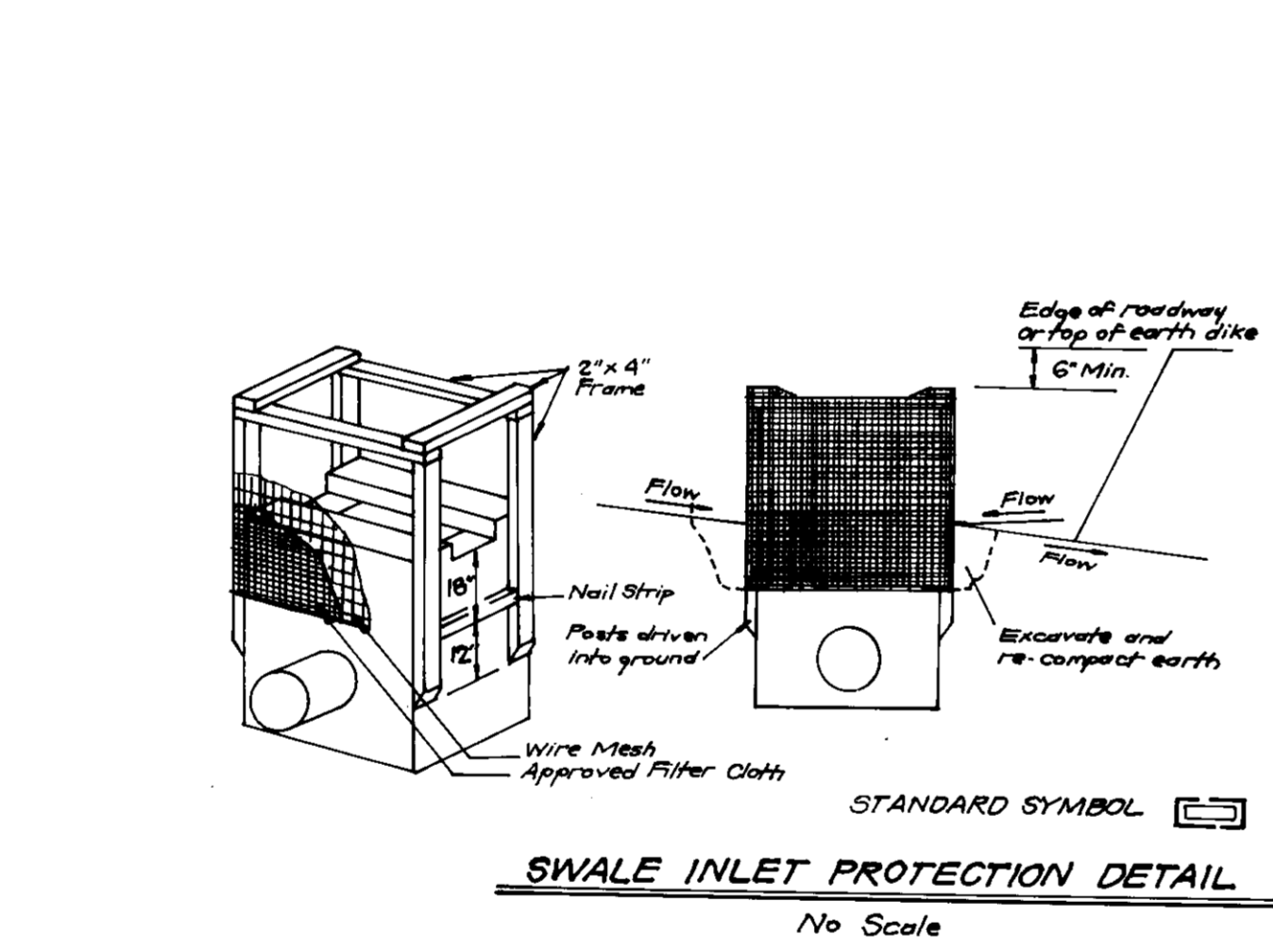
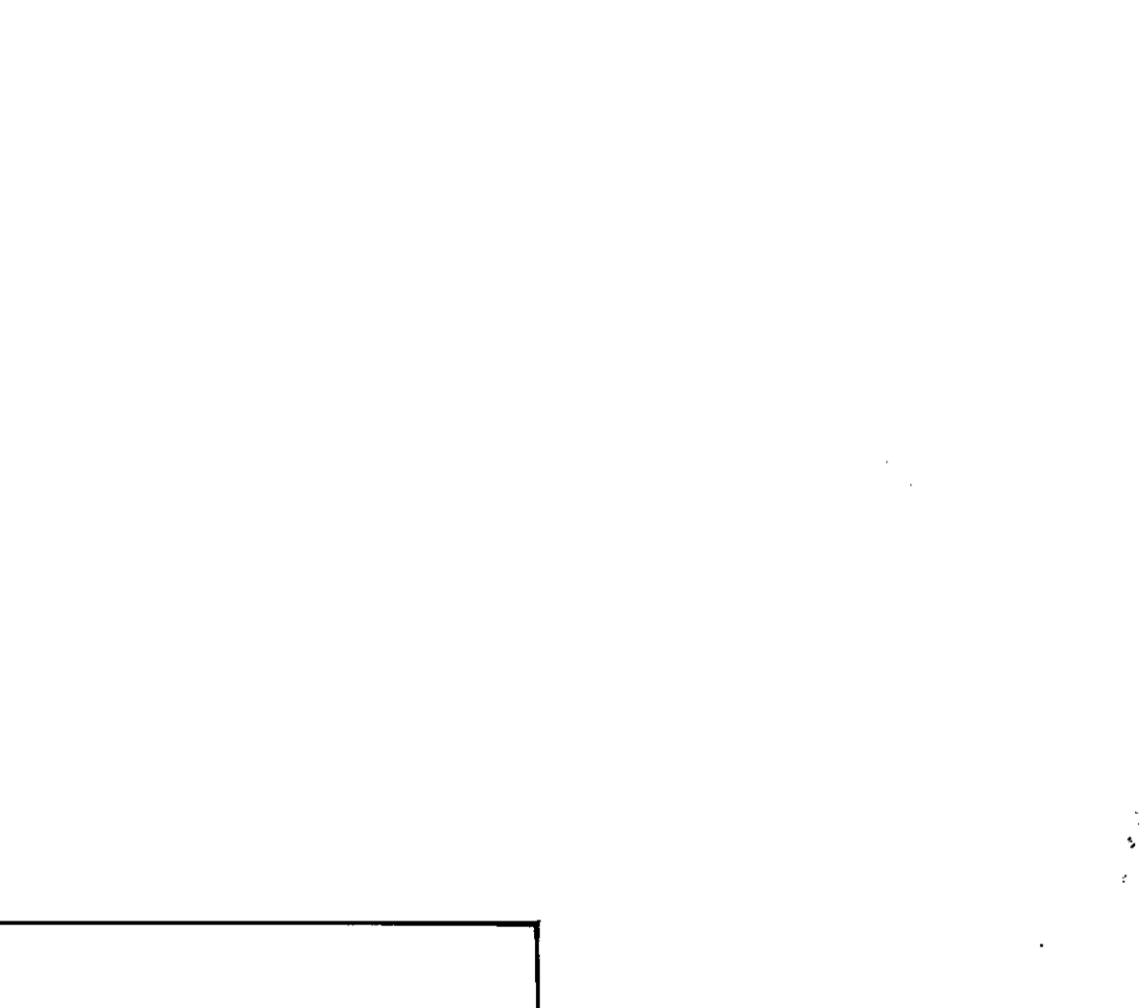
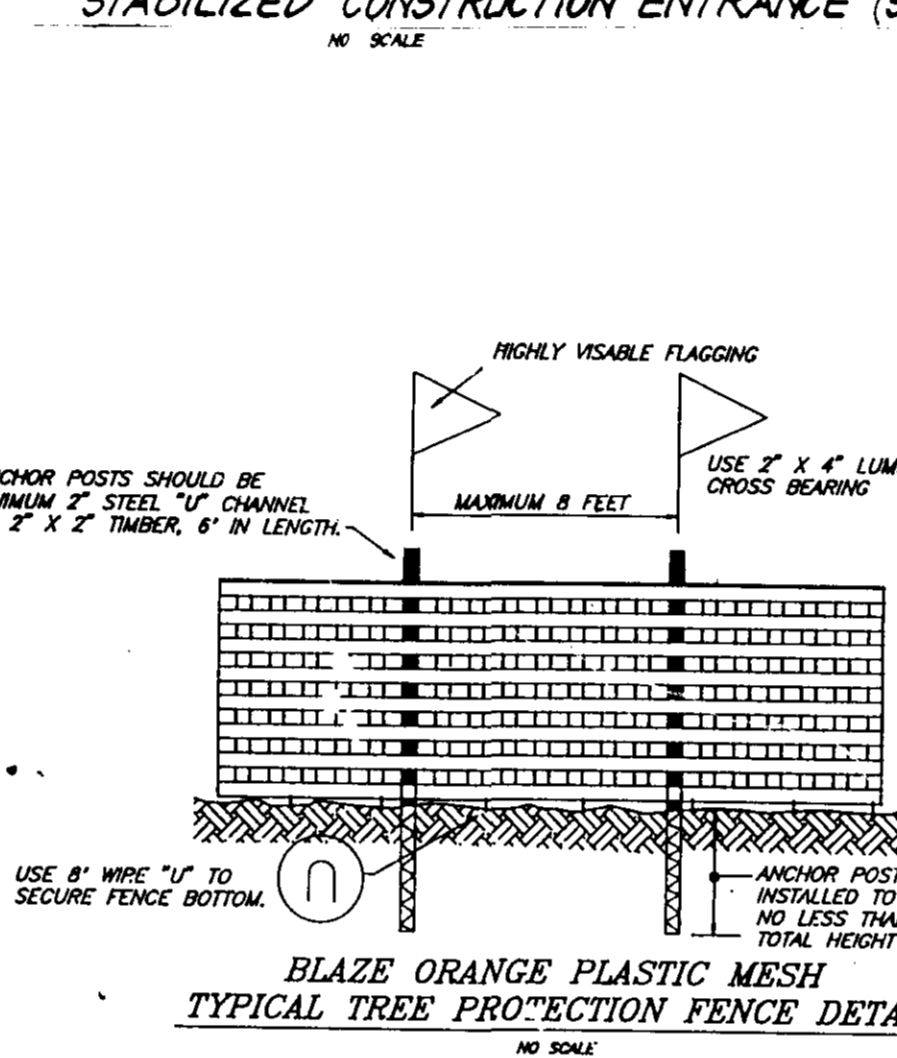
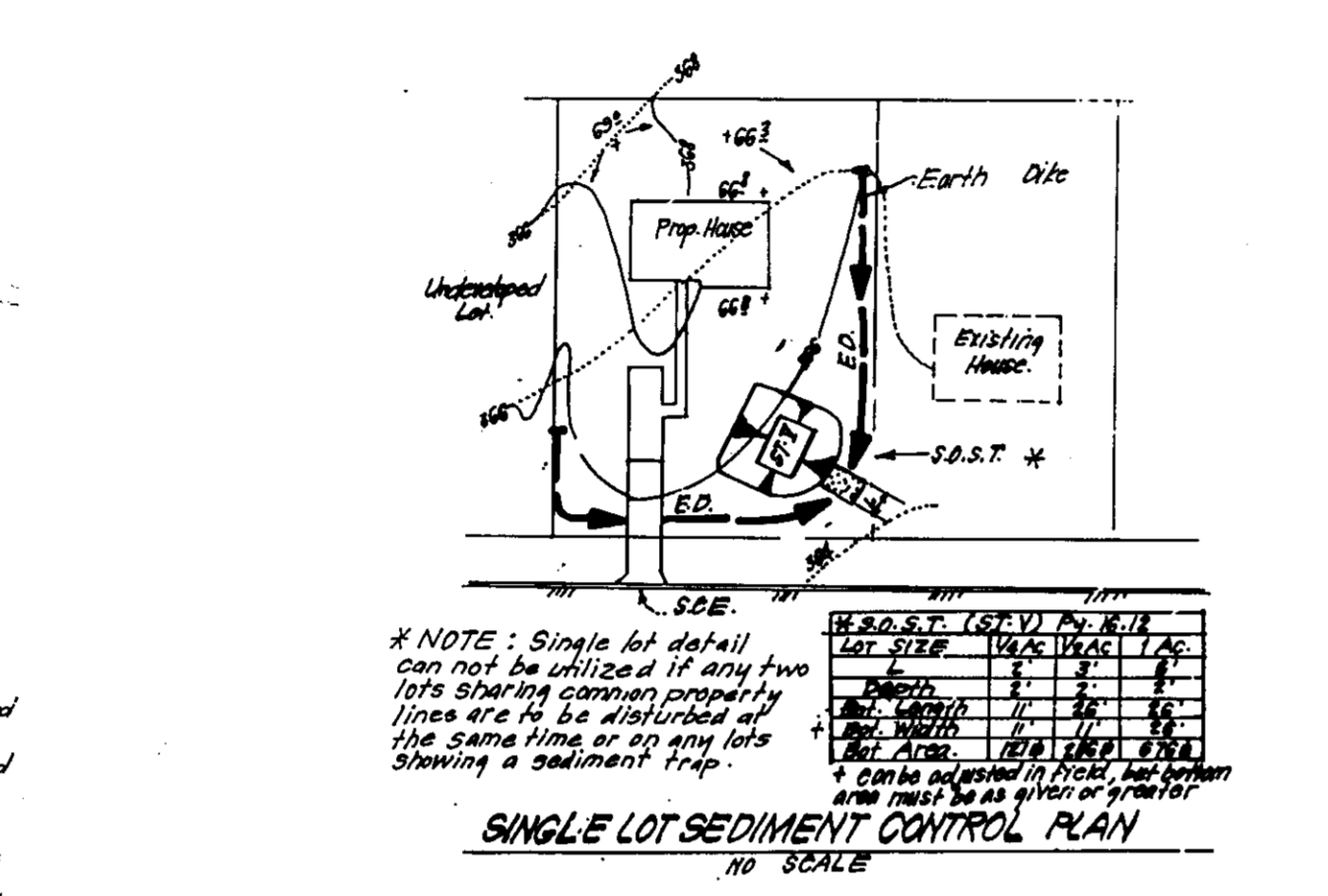
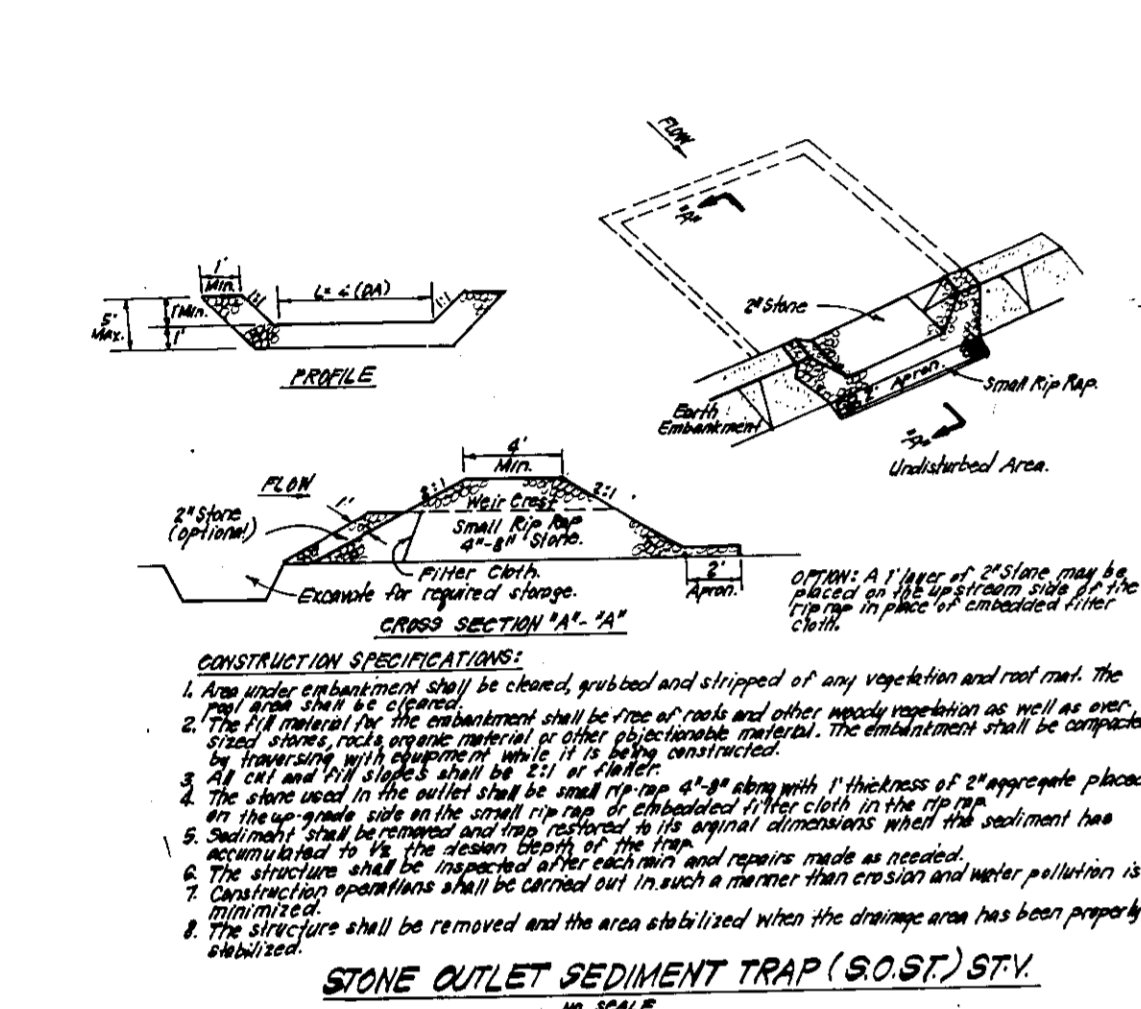
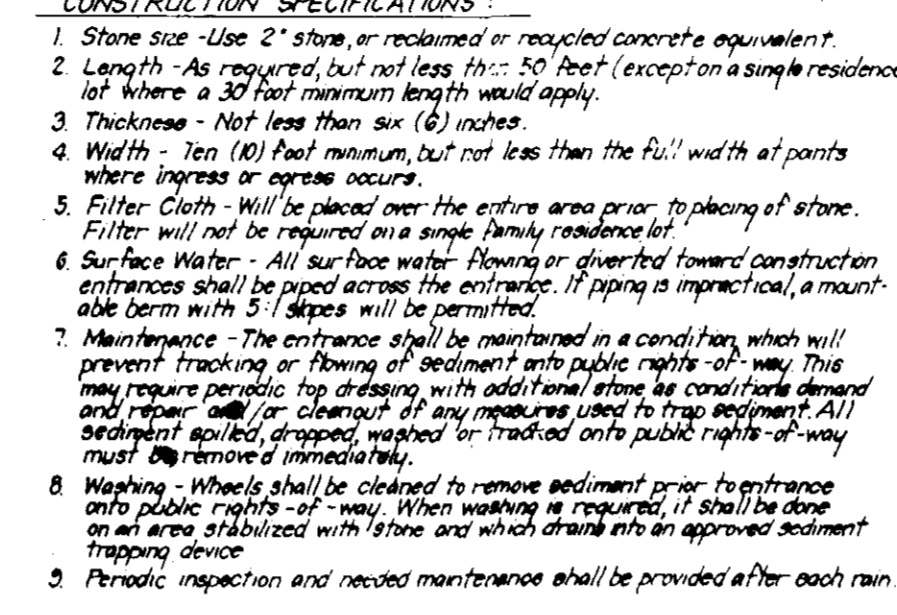
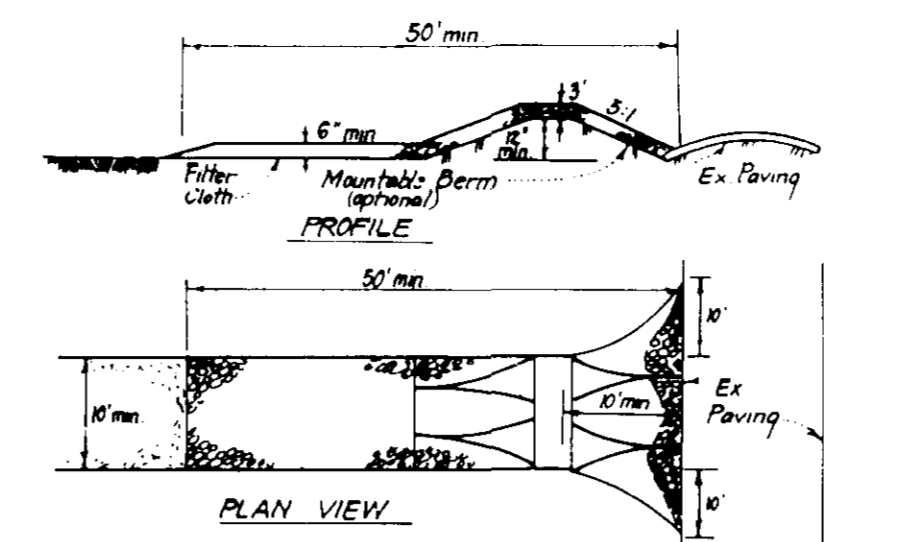
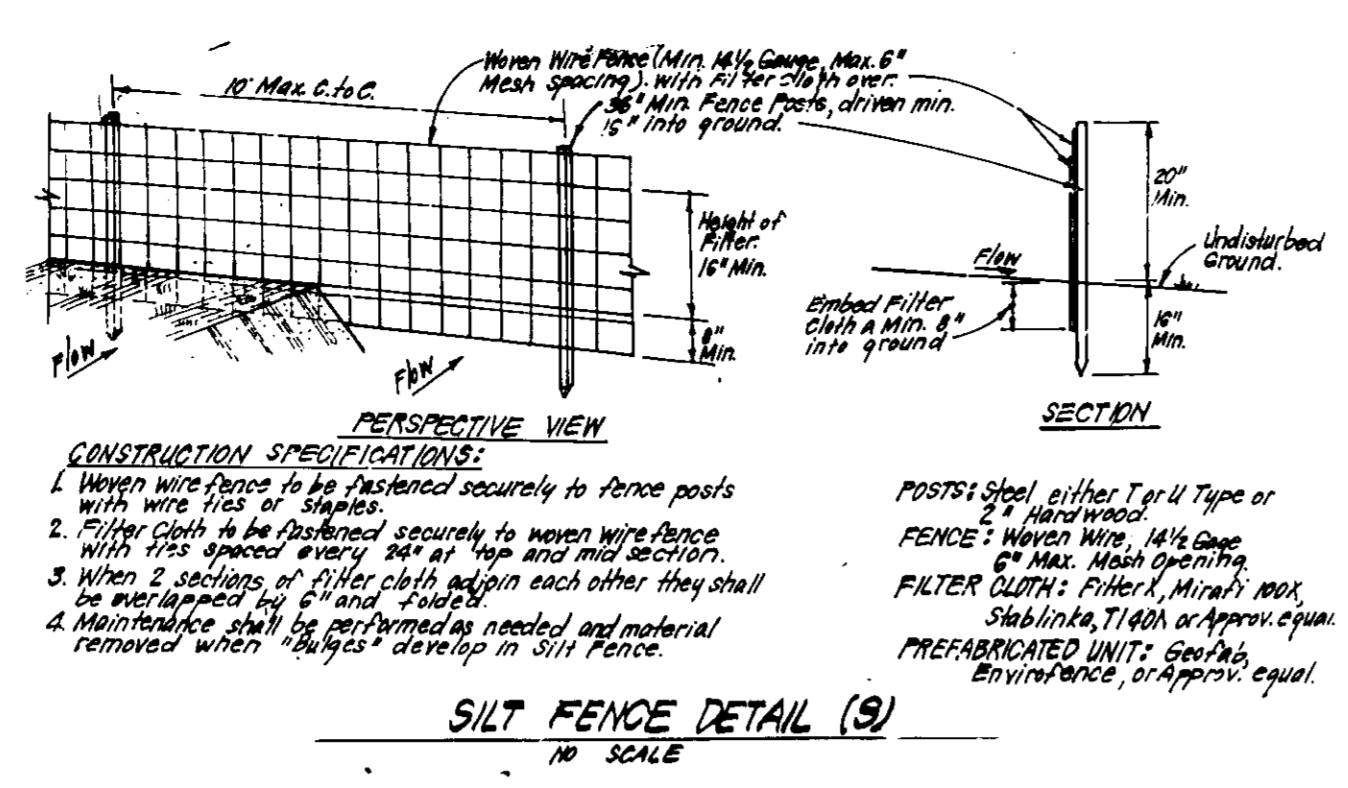
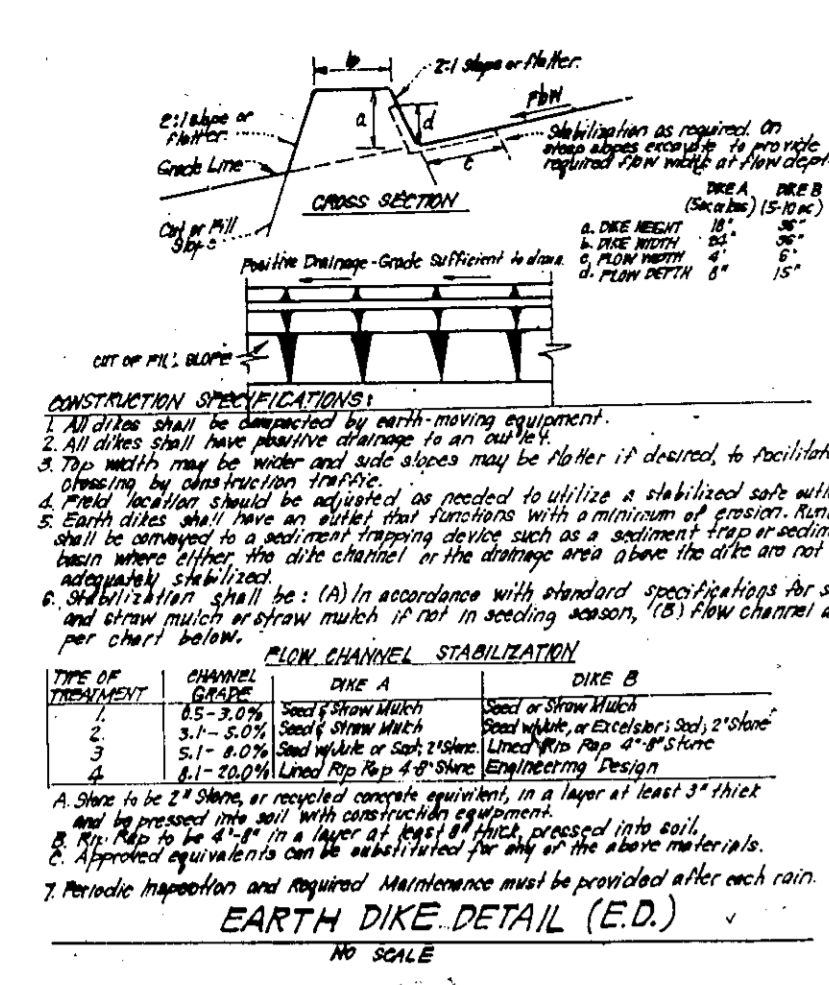
DEVELOPER'S/BUILDER'S CERTIFICATE
 "I/We certify that all development and construction will be done according to this plan of development and plan for sediment and erosion control and that all responsible personnel involved in the construction project will have a Certificate of Attendance at a Department 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 [Signature] Date 3-2-94

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 [Signature] Date 3-1-94



CLARK • FINEFROCK & SACKETT, INC. ENGINEERS • PLANNERS • SURVEYORS 7135 MINSTREL WAY • COLUMBIA, MD. 21046 • (410) 381-7500 - BALTO. • (301) 621-8400 - WASH.		
DESIGNED ULS	SEDIMENT & EROSION CONTROL PLAN LOTS 13-16 and 52-62 COLUMBIA VILLAGE OF RIVER HILL SECTION 2 AREA 2 PHASE 2 FIFTH ELECTION DISTRICT HOWARD COUNTY MARYLAND	SCALE 1" = 30'
DRAWN BAL		DRAWING 4 OF 5
CHECKED ULS		JOB NO. 94-00
DATE APRIL 15, 1994	For: COLUMBIA BUILDERS, INC. P.O. Box 999 Columbia, Md. 21044	FILE NO. 94-008

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING
 Signature [Signature] Date 5/11/94
 DIRECTOR
 Signature [Signature] Date 5/10/94
 CHIEF DIVISION OF LAND DEVELOPMENT AND RESEARCH
 APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 Signature [Signature] Date 5/3/94
 DIRECTOR
 Signature [Signature] Date 4/29/94
 CHIEF BUREAU OF ENGINEERING



SEDIMENT AND EROSION CONTROL NOTES

1. A minimum of 24 hours notice must be given to the Howard County Office of Inspection and Permit prior to the start of any construction. (913-1855).
2. 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.
3. 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.
4. All sediment traps/basins shown must be fenced and warning signs posted around their perimeters in accordance with Vol. 1, 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 SPECS. FOR SOIL EROSION AND SEDIMENT CONTROL for permanent seeding (Sec. 51) sod (Sec. 54), temporary seeding (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: 193.475 ± ac or 4.44 ac.
Area to be roofed or paved: 4.28 ac.
Area to be vegetatively stabilized: 2.95 ac.
Total Cut: 14.225 cu yd.
Total Fill: 9927 cu yd.
8. 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. 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.
9. All pipes to be blocked at the end of each day (see detail this sheet).
10. The total amount of silt fence = 1020 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	14
4.	Excavate for foundations, rough grade and temporarily stabilize	30
5.	Construct structures, sidewalks and driveways	60
6.	Final grade and stabilize in accordance with Specs. and Specs.	30
7.	Upon approval of the sediment control inspector, remove sediment and erosion control devices and stabilize.	30

OWNER / DEVELOPER
THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION
10675 Little Patuxent Pkwy.
Columbia, Maryland 21044

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING

Director: *[Signature]* DATE: 5/10/94

CHIEF DIVISION OF LAND DEVELOPMENT AND RESEARCH

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS

HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

Director: *[Signature]* DATE: 5/13/94

CHIEF BUREAU OF ENGINEERING

Director: *[Signature]* DATE: 4/20/94

Reviewed for HOWARD S.C.D. Name: *[Signature]*

meets Technical Requirements

US Soil Conservation Service

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

[Signature]

DEVELOPER'S/BUILDER'S CERTIFICATE

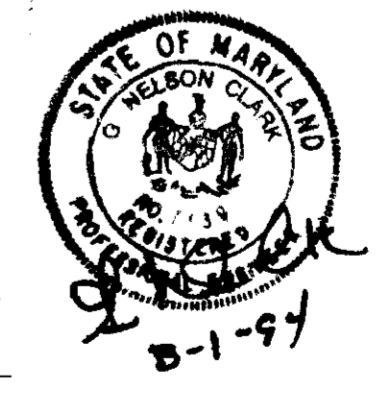
"I/We certify that all development and construction will be done according to this plan of development and plan for sediment and erosion control and that all responsible personnel involved in the construction project will have a Certificate of Attendance of a Department of the Environment Approved Training 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] DATE: 3-2-94

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] DATE: 3-19-94



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

7135 MINSTREL WAY • COLUMBIA, MD 21045 • (410) 381-7500 • BALTO. • (301) 621-8100 • WASH.

DESIGNED	SCALE
ULS	As Shown
DRAWN	DRAWING
BAL	50' = 5'
CHECKED	JOB NO.
ULS	94-009
DATE	FILE NO.
April 15, 1994	94-009

For: COLUMBIA BUILDERS, INC.
P.O. Box 999
Columbia, Md. 21044

SDP 94-91