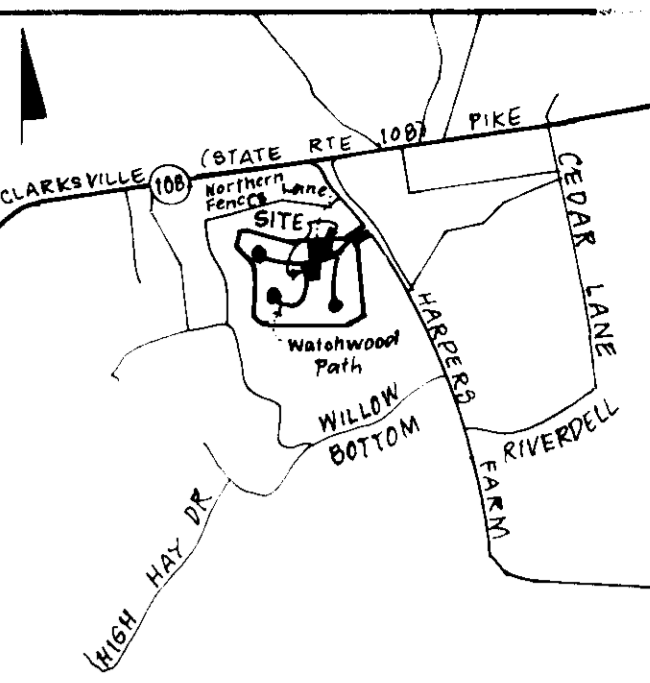


LEGEND

- Contour Interval 2 Ft
- Existing Contour 4.0
- Proposed Contour 4.10
- Spot Elevation +10.0
- Direction of Drainage
- Walk-out Basement



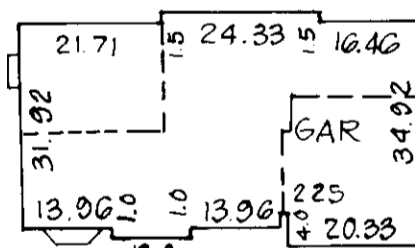
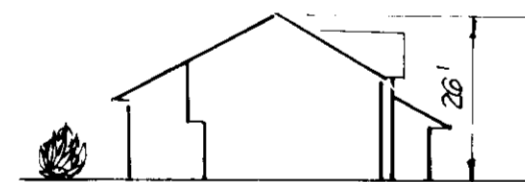
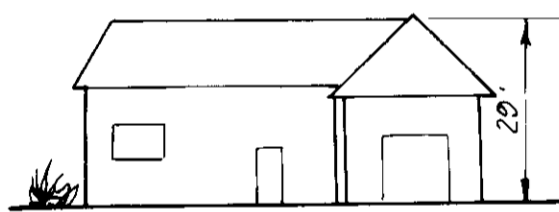
VICINITY MAP
SCALE: 1" = 2000'

DRIVEWAY ABUTTING CLOSED SECTION WITH MODIFIED COMB CURB & GUTTER & SIDEWALK

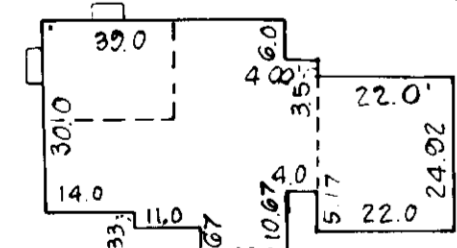
DRIVEWAY ABUTTING CLOSED SECTION WITHOUT CONCRETE SIDEWALK

TYPICAL HOUSES

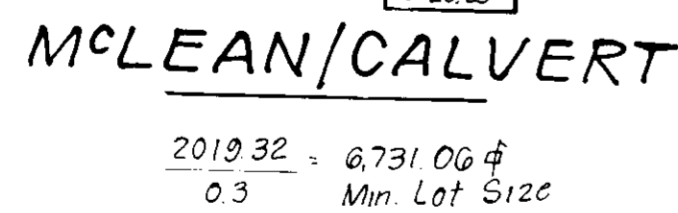
Scale: 1" = 30'
Note: All h.e.s. have 1' roof eaves front & rear



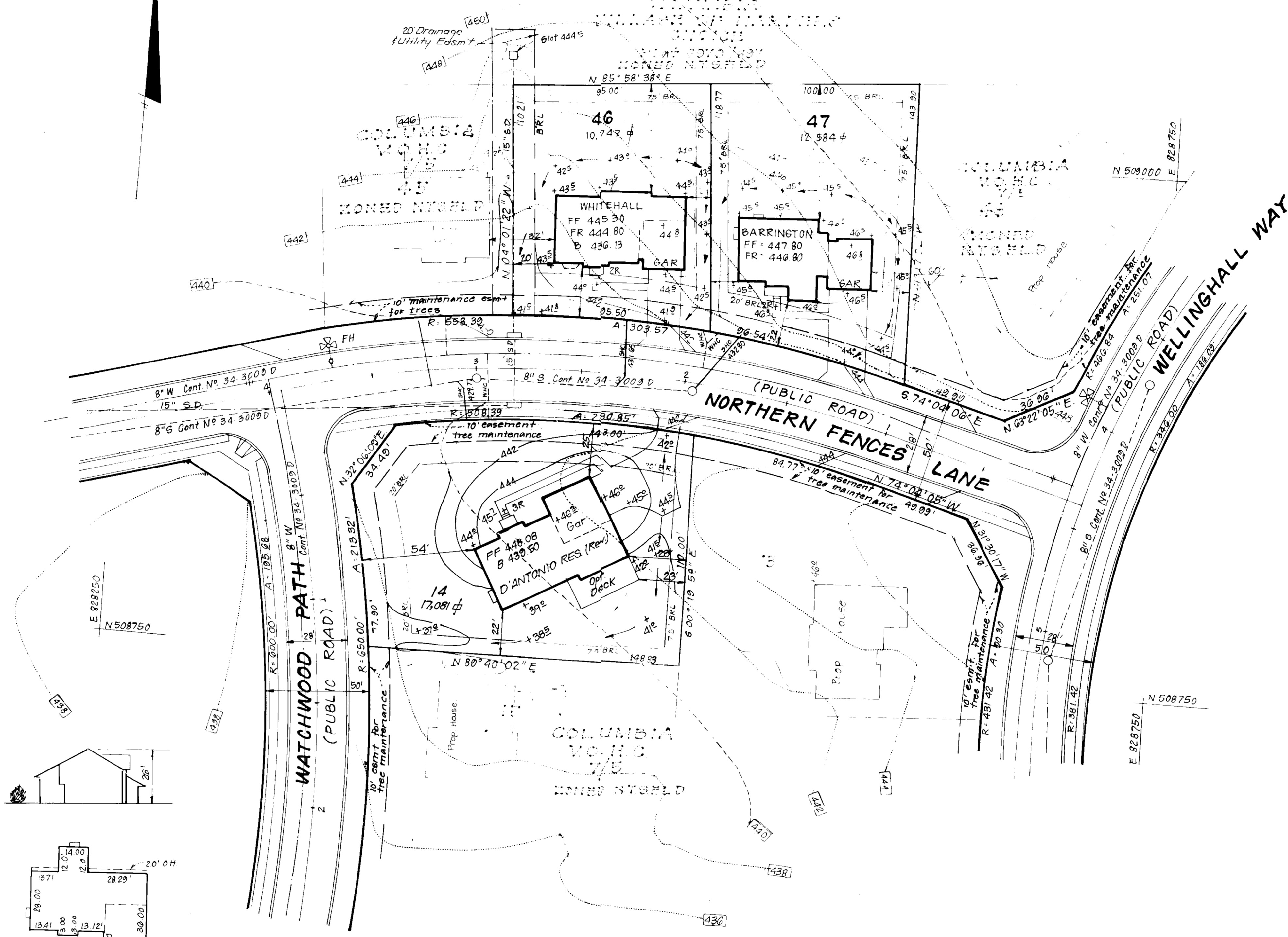
WHITEHALL
2,199.19 = 7,330.6
0.3 Min Lot Size



BARRINGTON
1,949.25 = 6,497.5
0.3 Min Lot Size



MCLEAN/CALVERT
2,019.32 = 6,731.06
0.3 Min Lot Size



GENERAL NOTES

- 1 Horizontal & Vertical control shown hereon is based upon Howard County Geodetic Control Stations 2739002 & 2739003
- 2 Subject property zoned N.T.S.F.L.D per 8-2-85 Comprehensive zoning plan
- 3 The SWM requirements for the subject property have been waived as per DPW action dated Sept 6, 1988
- 4 OPZ File Nos approved Sept 29 1988 are S-88-10 P89-45, WP89-14, F90-06
- 5 Total number of lots 3
- 6 Total area of lots 40,412 sq
- 7 Single-family detached
- 8 Topography taken from Road Construction drawings F-90-06 prepared by Kiddle Consultants
- 9 Any damage done to county owned rights-of-way to be corrected at Developer's Expense
- 10 The contractor or developer shall contact the Construction Inspection Division 24 hours in advance of commencement of work @ 792-2630
- 11 The minimum setback restrictions from property lines and the right-of-way of any public road or street to be in accordance with recorded F.D.P. criteria phase 2.04 recorded as plat 3054A, 1066 thru 1071

SPECIAL NOTES

- 1 All Road Construction, Storm Drainage facilities and Public Water and Sewer are shown for reference only
- 2 Use approved HoCo plans for all phases of construction

ADDRESS CHART

Lot	Street Address
14	5107 Northern Fences Lane
46	5110
47	5106 Northern Fences La

Subdivision Name: COLUMBIA Village of Harpers Choice	Sect/Area: 7/5	Lots: 14/46-47
Plat No: 9317	Block No: 15-17	Zone: B.F.L.D
Water Code: I03	Tax/Map No: 29	Elec Distr: 5th
	Sewer Code: 6740000	Census Tr: 6053.01

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS
HOWARD COUNTY HEALTH DEPARTMENT
County Health Officer: *Jocelyn J. [Signature]* DATE: 4-17-90

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING
Director: *[Signature]* DATE: 4/24/90
Chief of Division: *[Signature]* DATE: 4/16/90

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
Director: *[Signature]* DATE: 4/16/90
Chief Bureau of Engineering: *[Signature]* DATE: 4/16/90



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

DESIGNED: VLP
DRAWN: GES
CHECKED: JME
DATE: March 1990

SITE DEVELOPMENT PLAN
LOTS 14, 46 & 47
COLUMBIA
VILLAGE OF HARPERS CHOICE
SECTION 7 AREA 5
5th ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

For: The Ruland Group, Inc.
7130 Minstreet Way
Columbia, Md. 21044

SCALE: 1" = 30'
DRAWING: 1 of 2
JOB NO: 90-061
FILE NO: 90-081-X

No	Rev. Use & Date	Date
1	Rev. Use & grad. lot 14 from McLean/Calvert to D'Antonio	5.10.91
	REVISION	

STP 20 172

Apply to wooded or cleared areas not subject to immediate further disturbance where a permanent long-lived vegetative cover is needed.

Seeded 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:

- 1) 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. Narrow or disc into upper three inches of soil. At time of seeding, apply 400 lbs per acre 30-0-0 ureaform fertilizer (9 lbs/1000 sq ft).
- 2) 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. Narrow 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 lb/1000 sq ft) of Kentucky 31 Tall Fescue. For the period May 1 thru July 31, seed with 50 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 15 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 80 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 untreated 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 gal per acre (8 gal/1000 sq ft) for anchoring.

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

TEMPORARY SEEDING NOTES

Apply to graded or cleared areas likely to be redisturbed where a short-term vegetative cover is needed.

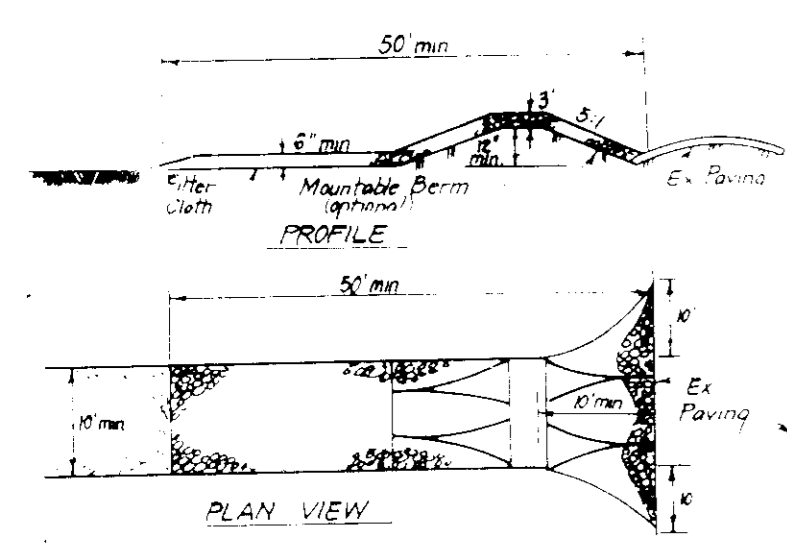
Seeded Preparation: Loosen upper three inches of soil by raking, discing or other acceptable means before seeding, if not previously loosened.

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 25 bushel per acre of annual ryegrass (2.2 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 15 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 untreated 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 ft 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.



CONSTRUCTION SPECIFICATIONS

1. Stone size: Use 2" stone or equivalent in rounded concrete equivalent.
2. Length: As required, but not less than 50 feet, except on simple curves or where a 30 foot minimum length would apply.
3. Thickness: Not less than 6" in places.
4. Width: Ten (10) feet minimum, but not less than the width at points where ingress or egress occurs.
5. Filter Cloth: Will be placed over the entire area over the facing of stone. Filter cloth will not be required on simple curve roadways.
6. Surface Water: All surface water flowing or diverted toward construction entrances shall be kept across the entrance. If a ditch is located, a minimum side berm with 5' slopes will be constructed.
7. Maintenance: The entrance shall be maintained in a condition when no current tracking or flowing of sediment into public rights-of-way. This may require periodic fire cleaning in the area before stone is covered, and repair and or cleanup of any measures used to trap sediment. All sediment trapped, drained, washed or tracked onto public rights-of-way must be removed immediately.
8. Washing: When it is desired to remove sediment from the entrance into public rights-of-way, when washing is required, it shall be done on an area stabilized with stone and which drains into an approved sediment trapping device.
9. Periodic inspection and needed maintenance shall be provided after each rain.

STABILIZED CONSTRUCTION ENTRANCE (SCE)
NO SCALE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT
Signature: [Signature] DATE: 4-17-90

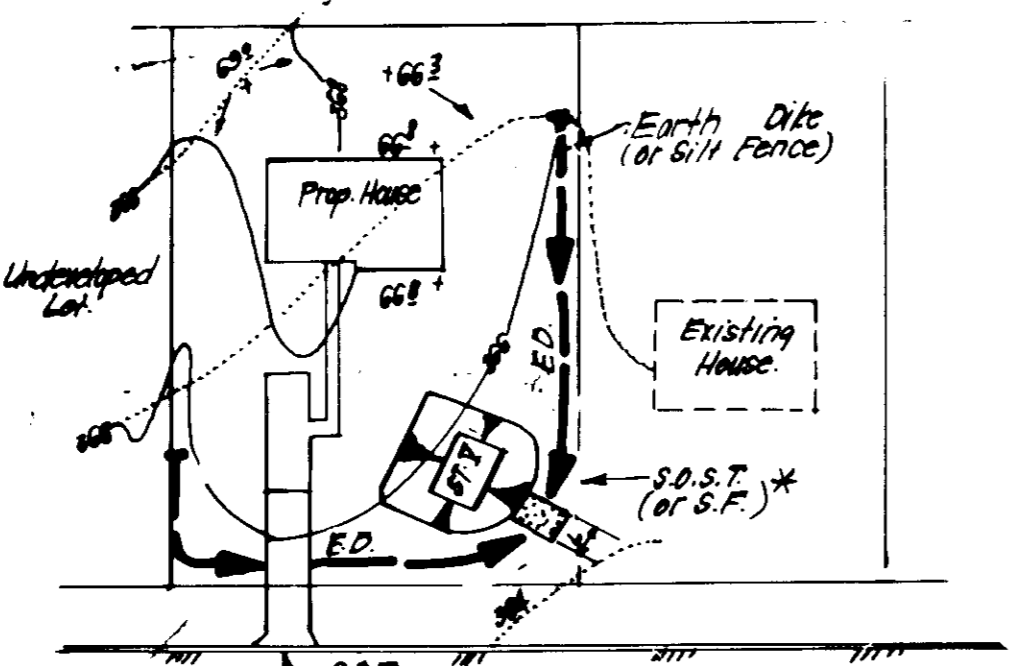
APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING
Signature: [Signature] DATE: 4/24/90

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
Signature: [Signature] DATE: 4/12/91

Reviewed for... **HOWARD COUNTY** S.C.D.
Name: [Name] DATE: 4/9/90
Signature: [Signature]
U.S. Soil Conservation Service

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

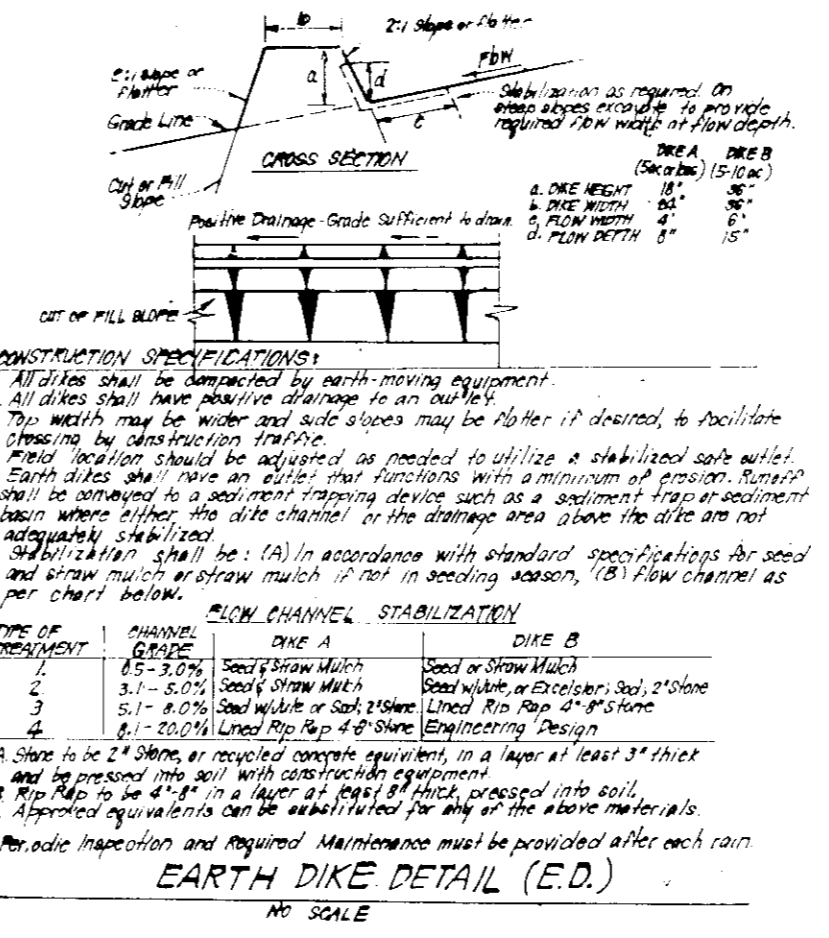
Approved: [Signature] DATE: 4/9/90



SINGLE LOT SEDIMENT CONTROL PLAN
NO SCALE

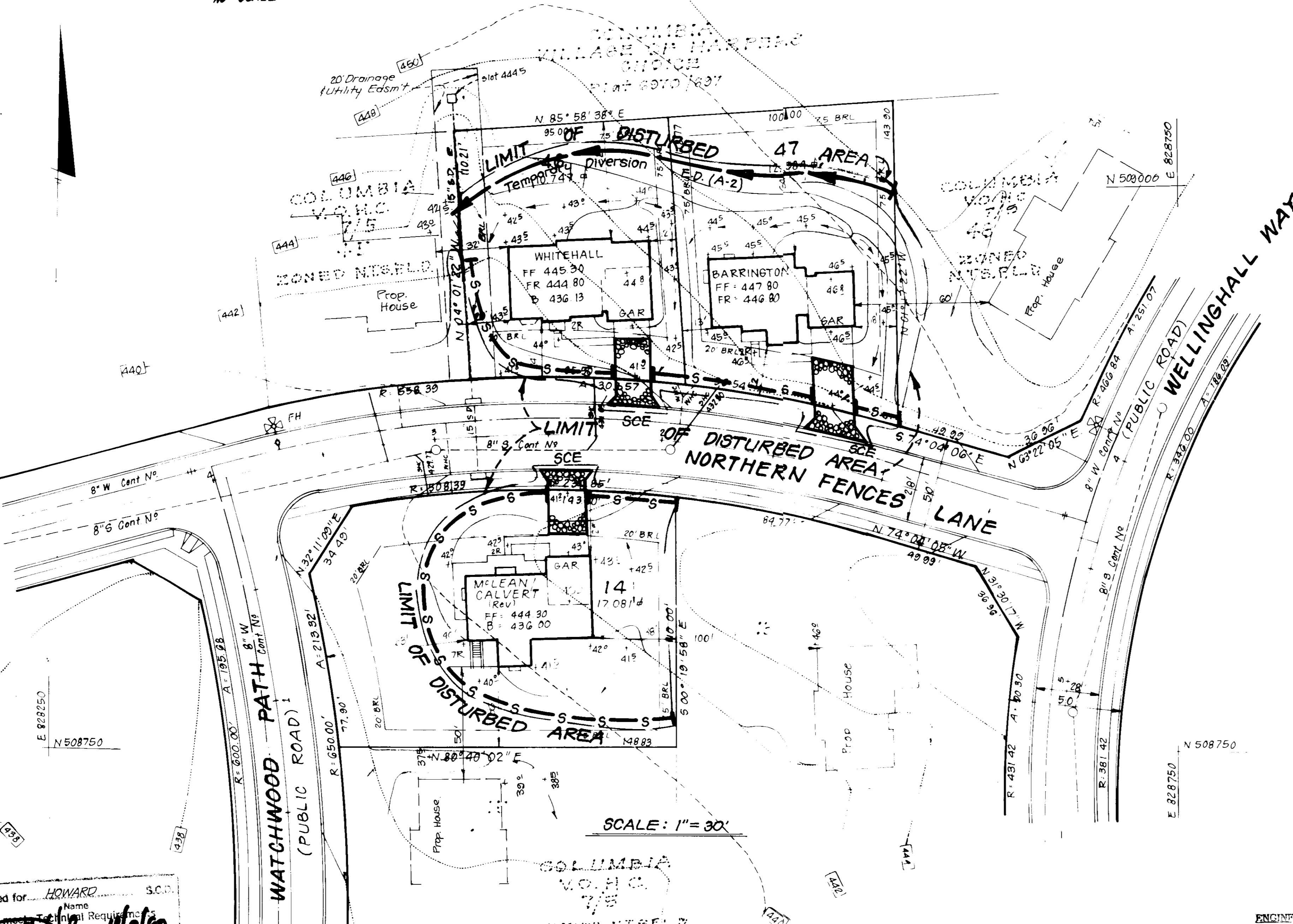
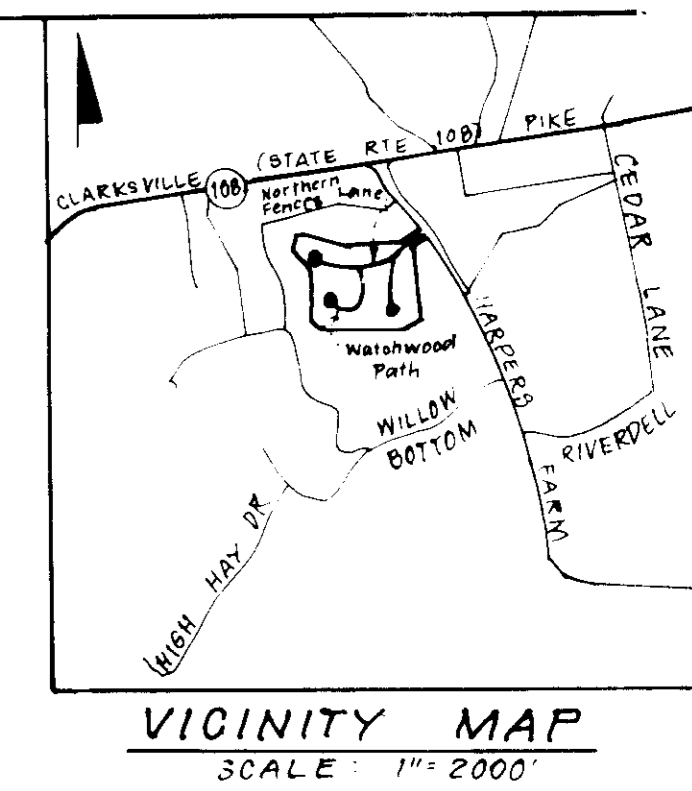
NO.	S.D.S.T. (S.V.)	NO. R/L	LOT SIZE	AREA	AC.
1	1	1	1	1	1
2	2	2	2	2	2
3	3	3	3	3	3
4	4	4	4	4	4
5	5	5	5	5	5
6	6	6	6	6	6
7	7	7	7	7	7
8	8	8	8	8	8
9	9	9	9	9	9
10	10	10	10	10	10

* NOTE: Single lot detail can not be utilized if any two lots sharing common property lines are to be disturbed at the same time or on any lots showing a sediment trap.



LEGEND

Contour Interval: 2 Ft
Existing Contour: (Symbol)
Proposed Contour: (Symbol)
Spot Elevation: (Symbol)
Direction of Drainage: (Symbol)
Walk-out Basement: (Symbol)
Silt Fence: S-S-S
Earth Dike: E.D. (A-2)
Stabilized Construction Entrance: SCE

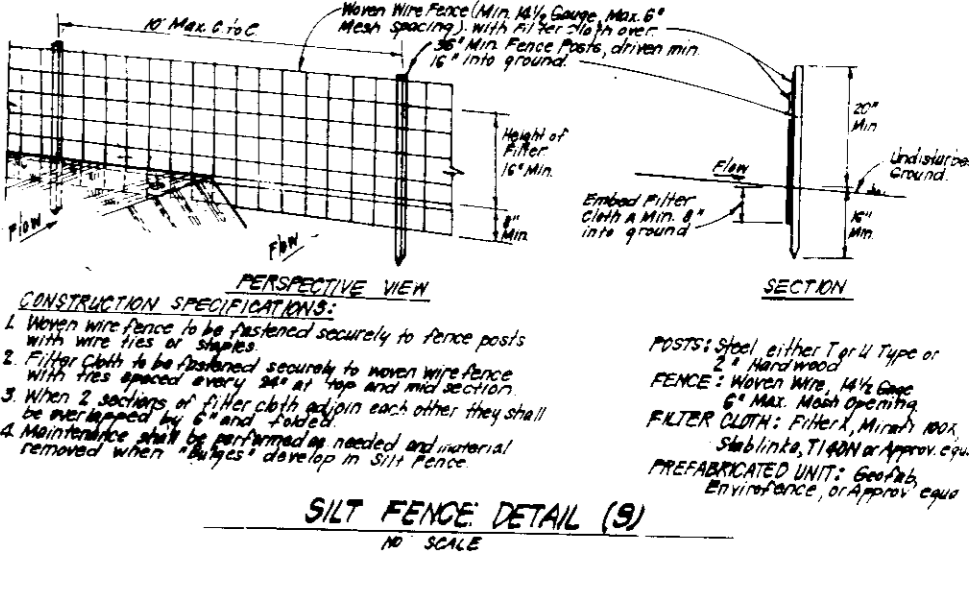


- PERMIT CONDITIONS**
- 1) A minimum of 24 hours notice must be given to the Howard County Office of Inspection and Permitting prior to the start of any construction. (192-2317)
 - 2) All vegetative and structural practices are to be installed according to the provisions of this plan and are to be in accordance with the 1983 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 37 calendar days for all permanent sediment control structures, dikes, perimeter slopes and all slopes greater than 3:1. It is days as to all other disturbed or graded areas on the project area.
 - 4) All sediment traps/basins must be fenced and warning signs posted around their perimeter in accordance with Vol. 1, Chapter 11, 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. 31) and (Sec. 34), temporary seedings (Sec. 30) and mulching (Sec. 32). 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	0.977 Acres
Area Disturbed	0.70 Acres
Area to be seeded or paved	0.25 Acres
Area to be vegetatively stabilized	0.98 Acres
Total Filt	178' (See Job)
Offsite waste/borrow area location	Undetermined
 - 8) Any sediment control practice which is disturbed by grading activity for placement of utilities must be replaced on the same day of disturbance.
 - 9) All sediment control 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. The inspection agency's written inspection approval may not be authorized until this final approval by the inspection agency is made.
 - 11) If houses are to be constructed on an "As-Built" basis, at random, single lot sediment control as shown below shall be implemented.
 - 12) All pipes to be blocked at the end of each day (see detail below).
 - 13) The total amount of straw bale dikes/silt fence equals 450' L.F.

CONSTRUCTION SCHEDULE:

Activity	No. of Days
A. Obtain Grading Permit and Install Sediment and Erosion Control Devices and Stabilize.	7
B. Excavate for foundations and Rough Grade & Temporary Stabilize.	14
C. Construct Structures, Sidewalks and Driveways.	120
D. Final Grade and stabilize in accordance with Stds. & Specs.	30
E. Upon approval of the sediment control inspector, remove sediment and erosion controls and stabilize.	7



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 Dept of Natural Resources 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: 3-1-90

ENGINEER'S CERTIFICATE

I hereby certify that this plan for Erosion and Sediment Control meets the practical and portable standards of any professional engineer of the site conditions. This is in compliance with the requirements of the Howard Soil Conservation District.

Signature: [Signature] DATE: 3/1/90

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

7130 MINSTREL WAY • COLUMBIA, MD 21045 • (301) 381-2500 • BALTO • (410) 486-1000 • WASH DC

DESIGNED KIWM	SEDIMENT & EROSION CONTROL PLAN LOTS 14, 46 & 47 COLUMBIA VILLAGE OF HARPER'S CHOICE SECTION 7 AREA 5 5TH ELECTION DISTRICT HOWARD COUNTY MARYLAND	SCALE As Shown
DRAWN BAL		DRAWING 2 of 2
CHECKED KIWM		SHEET NO 30-081
DATE March 1990		FILE NO 30-081a
		FOR: THE RYLAND GROUP, INC. 7130 Minstrel Way Columbia, Maryland 21045

SDP 40172