

**GENERAL NOTES:**

- The land included is zoned: New Town SF.M.D.
- Coordinates are based upon traverse controls for Columbia established by Maps Inc. in 1965 and Purdy & Vlaschke in 1968, which controls were tied to the Maryland Bureau of Control Survey Monuments and to U.S. Coast and Geodetic Survey Monuments in the Columbia Area
- All Roads are Public and Existing
- Any damage to County owned rights of way to be corrected at the Developer's expense
- Total Area included: 1.3837 Acres
- Total Number of Lots: 6

**LEGEND:**

- Contour Interval 2'±
- Existing Contour
- Proposed Contour
- Spot Elevation
- Direction of Drainage
- Existing Trees to be Saved
- Walk out Basement

NOTE: The contractor or developer shall contact the Construction Inspection Division, 24 hours in advance of commencement of work, at 792-7272.

**ADDRESS CHART**

LOT NO.	STREET ADDRESS
47	12102 Blue Flag Way
48	12106
49	12110
50	12114
51	12118
52	12122

SUBDIVISION NAME	COLUMBIA VILLAGE OF HICKORY RIDGE	SECT. / AREA	3 / 3	LOTS	47-52
PLAT #	6242	BLOCK #	4	ZONE	35
WATER CODE	1-15	SEWER CODE	55 85300	TAX / ZONE MAP	5TH
				CENSUS TR.	605301

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS  
HOWARD COUNTY HEALTH DEPARTMENT

*Gregory P. ...* 10-3-85  
DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING  
*...* 10-7-85  
DATE

PLANNING DIRECTOR

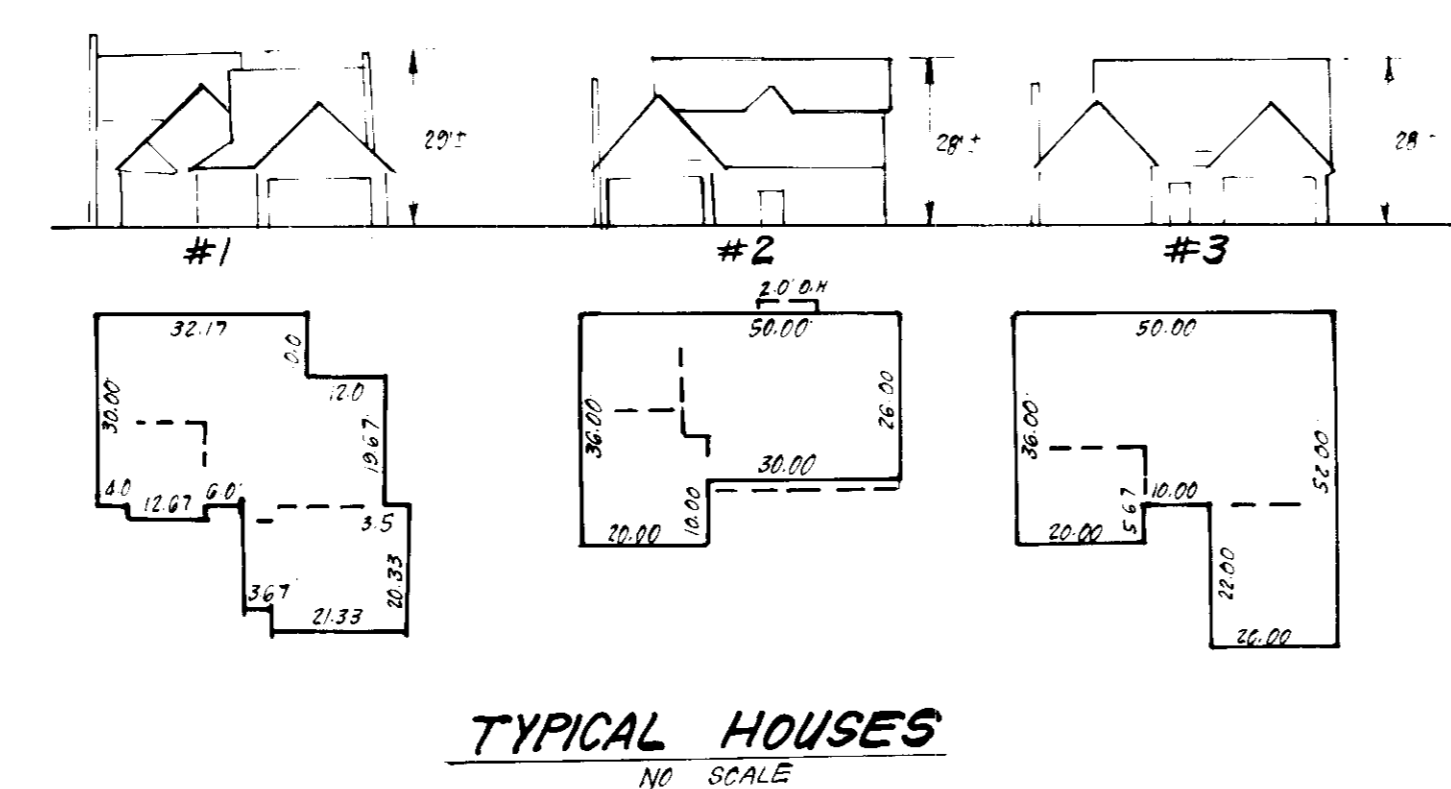
APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS  
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

10-1-85  
DATE

DIRECTOR

CHIEF BUREAU OF ENGINEERING

DIVISION OF ZONING ADMINISTRATION  
HOWARD COUNTY  
9-19-85



**CLARK · FINEFROCK & SACKETT**  
ENGINEERS · PLANNERS · SURVEYORS

1131F LOCKWOOD DRIVE · SILVER SPRING, MARYLAND 20904 · (301) 591-3400

DESIGNED: BAF  
DRAWN: KJM  
CHECKED: JME  
DATE: 8-21-85

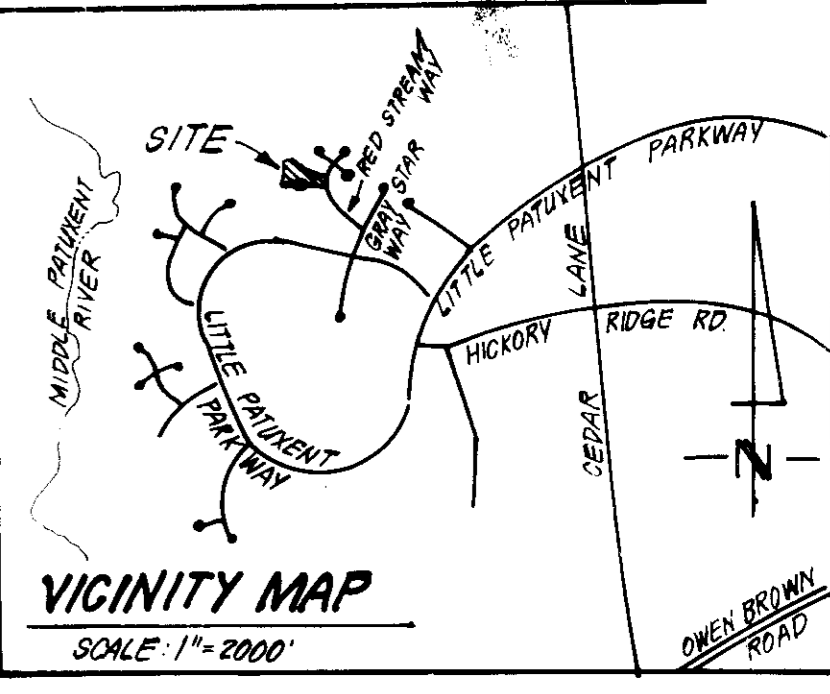
**SITE DEVELOPMENT PLAN**  
LOTS 47 THRU 52

**COLUMBIA**  
VILLAGE OF HICKORY RIDGE  
SECTION 3  
5TH ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND

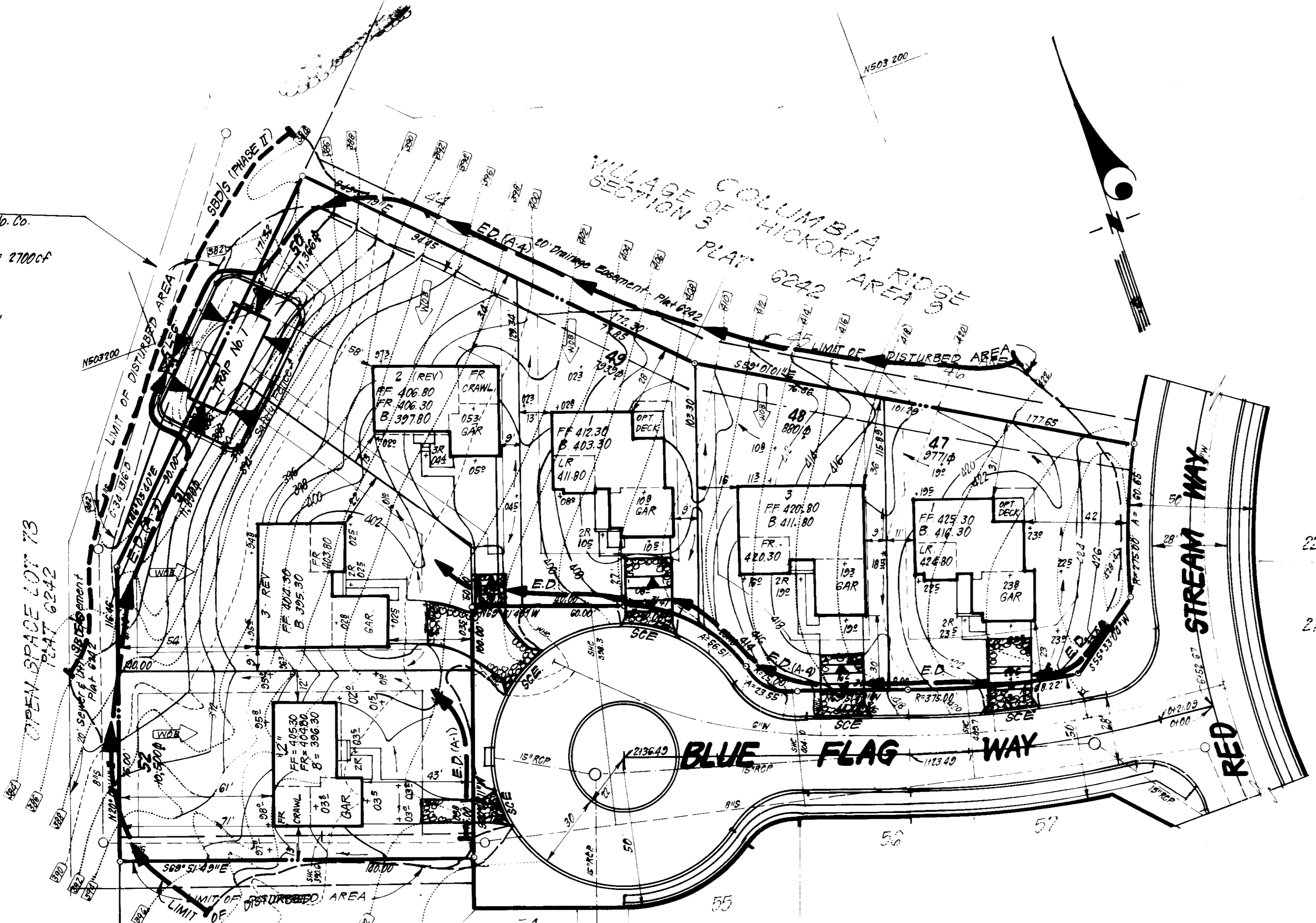
FOR: JOHN MCCONOUGH BUILDERS, INC.  
5829 Banner Rd, Suite 103  
Columbia, Md 21044

SCALE: 1" = 30'  
DRAWING: 10F3  
JOB NO.: 85-080  
FILE NO.: 85-080-1

SDP - 86-45-C



TRAP #1 S.O.S.T. (ST-V)  
 (See previous ly approved Ho. Co.  
 S.C.D. Plan # P-85-68.)  
 P.A. = 1.5 Acres  
 Storage Required = 1.5(1800) = 2700cf  
 Storage Provided = 2700cf  
 Depth = 3'  
 Stone Crest Elev. = 381.0  
 Bottom Elev. = 371.0  
 Bottom Dimensions = 42'x17'  
 Top Embankment = 382.0  
 Clean Out Elev. = 378.5



COLUMBIA  
 VILLAGE OF HICKORY RIDGE  
 SECTION 3  
 AREA 3  
 PLAT 6242

**LEGEND:**

1. Contour Interval 2' F.I.
2. Existing Contour 2' F.I.
3. Proposed Contour 2' F.I.
4. Spot Elevation 1' F.I.
5. Direction of Drainage
6. Existing Trees to be Saved
7. Walk-Out Basement
8. Earth Dike
9. Shaw Bale Dike or Silt Fence
10. Stabilized Construction Entrance

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS.  
 HOWARD COUNTY HEALTH DEPARTMENT  
 DATE 10-3-85  
 APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING  
 DATE 10-7-85  
 APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE,  
 STORM DRAINAGE SYSTEMS AND PUBLIC ROADS  
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
 DATE 10-1-85

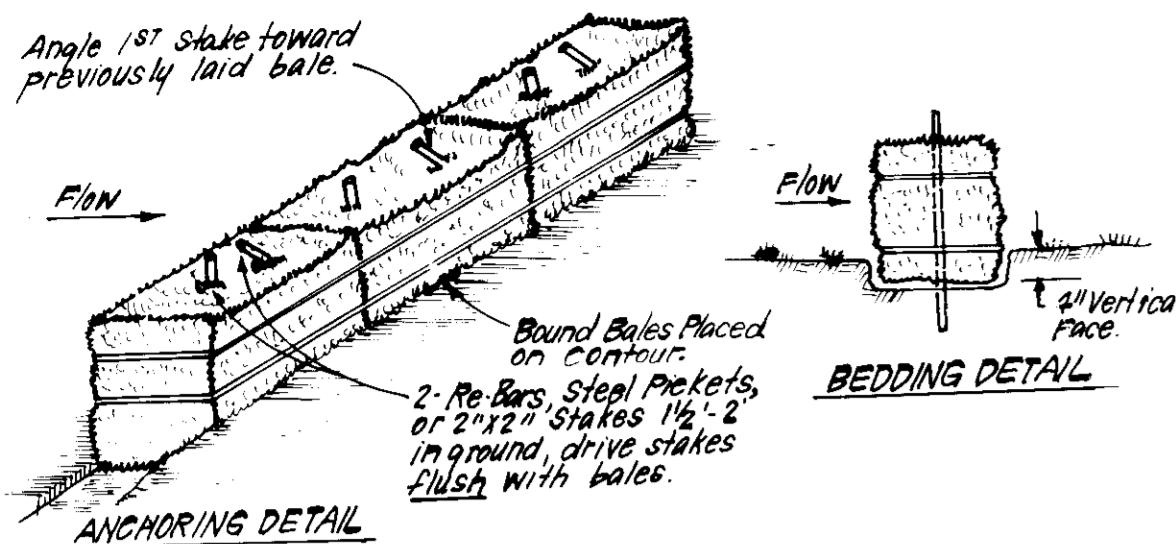
APPROVED:  
 DIVISION OF LAND DEVELOPMENT  
 ZONING ADMINISTRATION  
 HOWARD COUNTY, MARYLAND  
 DATE 9-19-85

reviewed for: Howard  
 and meets Technical Requirements  
 Signature: [Signature]  
 Date: 10-1-85  
 HIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EMISSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.

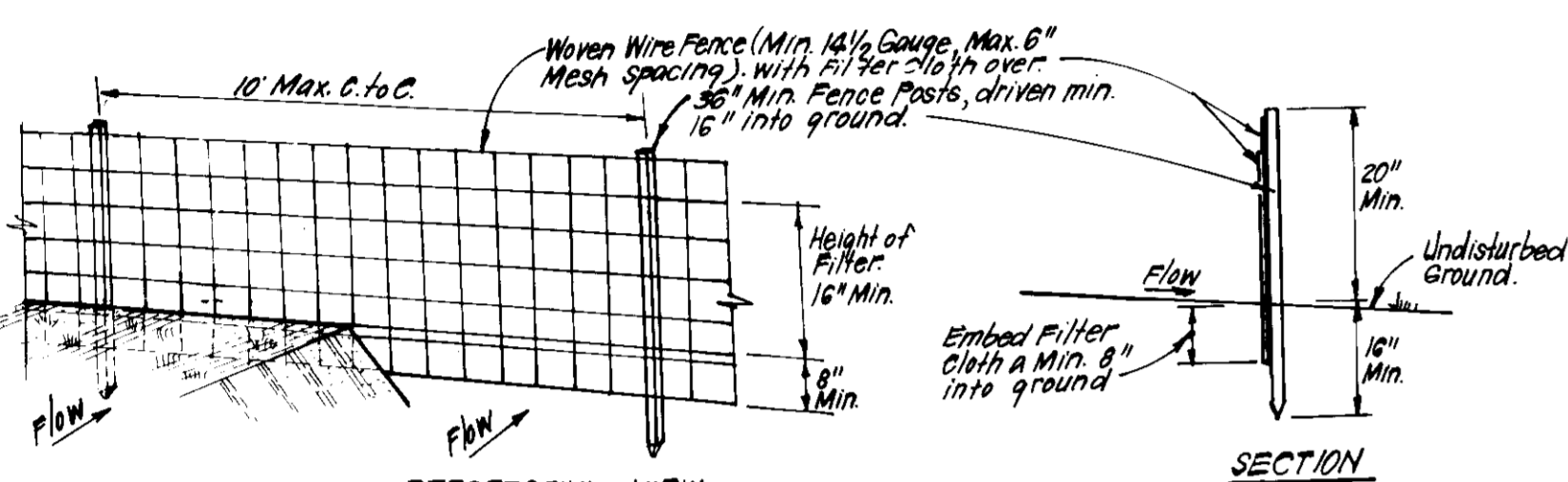
DEVELOPER'S/BUILDER'S CERTIFICATE  
 I/We certify that all development on this site will be done in accordance with this plan of development for erosion and sediment control and that all responsible personnel involved in the construction project will have a Certificate of Attendance at a Dept. of Natural Resources Approved Training Program for the Control of Sediment and Erosion before beginning the project. I/We authorize periodic on-site inspection by the Howard Soil Conservation District or their authorized agents, as are deemed necessary.  
 Signature of Developer/Builder: [Signature]  
 Date: 8/22/85

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: Richard J. H. Stepp  
 Date: 8-21-85

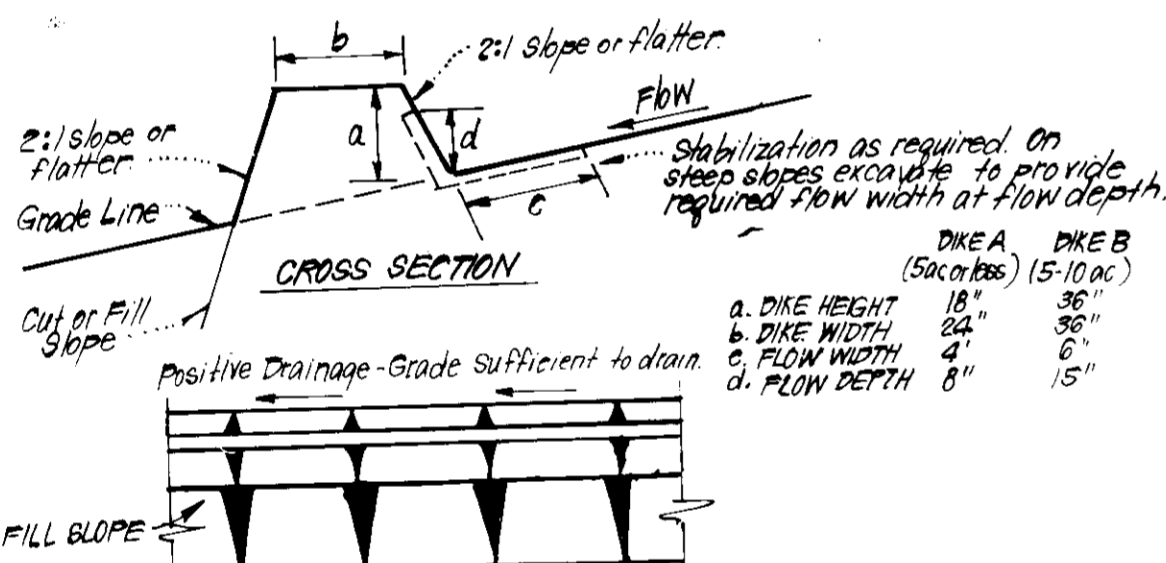
<b>CLARK · FINEFROCK &amp; SACKETT</b> ENGINEERS · PLANNERS · SURVEYORS		(301) 593-3400
1131F LOCKWOOD DRIVE · SILVER SPRING, MARYLAND 20904		
DESIGNED	<b>SEDIMENT &amp; EROSION CONTROL PLAN</b> LOTS 47 THRU 52	
GLB		
DRAWN	<b>COLUMBIA</b>	
KIN		
CHECKED	VILLAGE OF HICKORY RIDGE SECTION 3 AREA 3 5TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND	
GLB		
DATE	FOR: JOHN MCCONOUGH BUILDERS, INC. 5829 Banner Rd. Suite 103 Columbia, Md. 21044	
8-21-85		
		SCALE 1" = 30' DRAWING 2 OF 3 JOB NO. 85-080 FILE NO. 85-080-SE



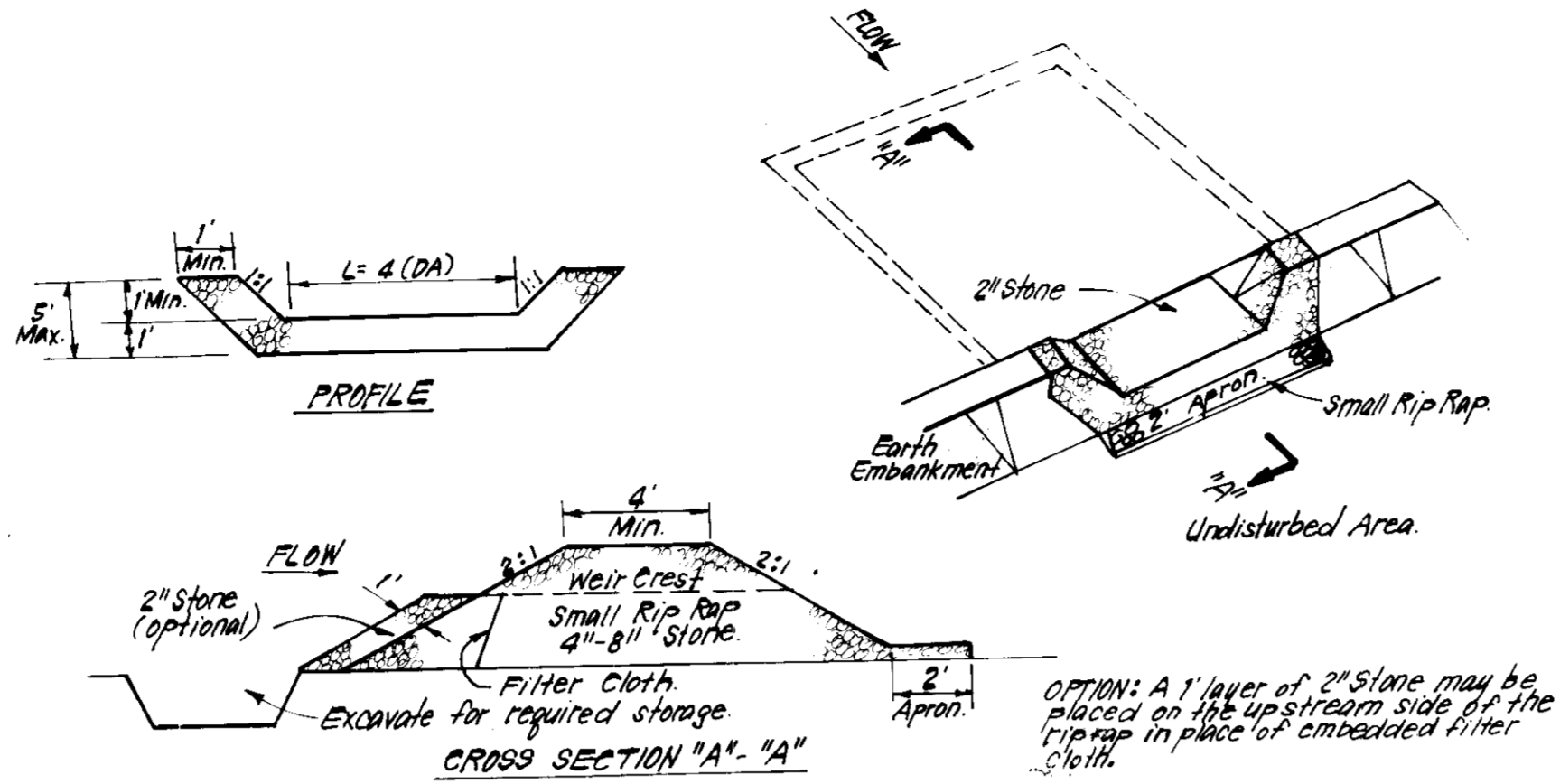
**STRAW BALE DIKE DETAIL (SBD)**  
NO SCALE



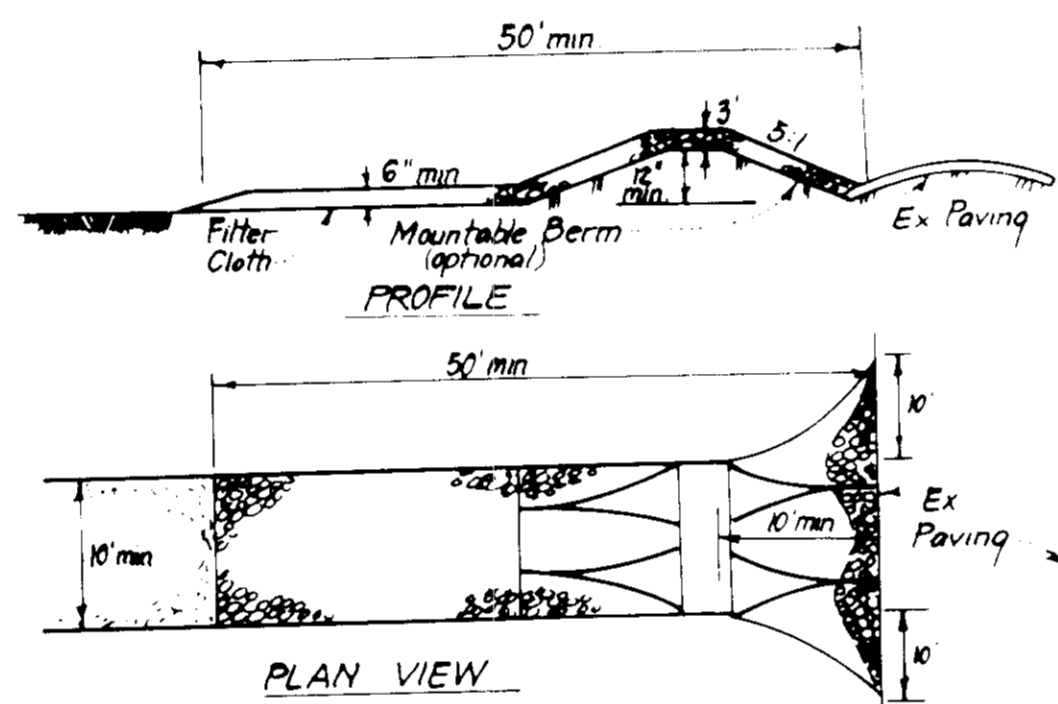
**SILT FENCE DETAIL (S)**  
NO SCALE



**EARTH DIKE DETAIL (E.D.)**  
NO SCALE



**STONE OUTLET SEDIMENT TRAP (S.O.S.T.) ST.V.**  
NO SCALE

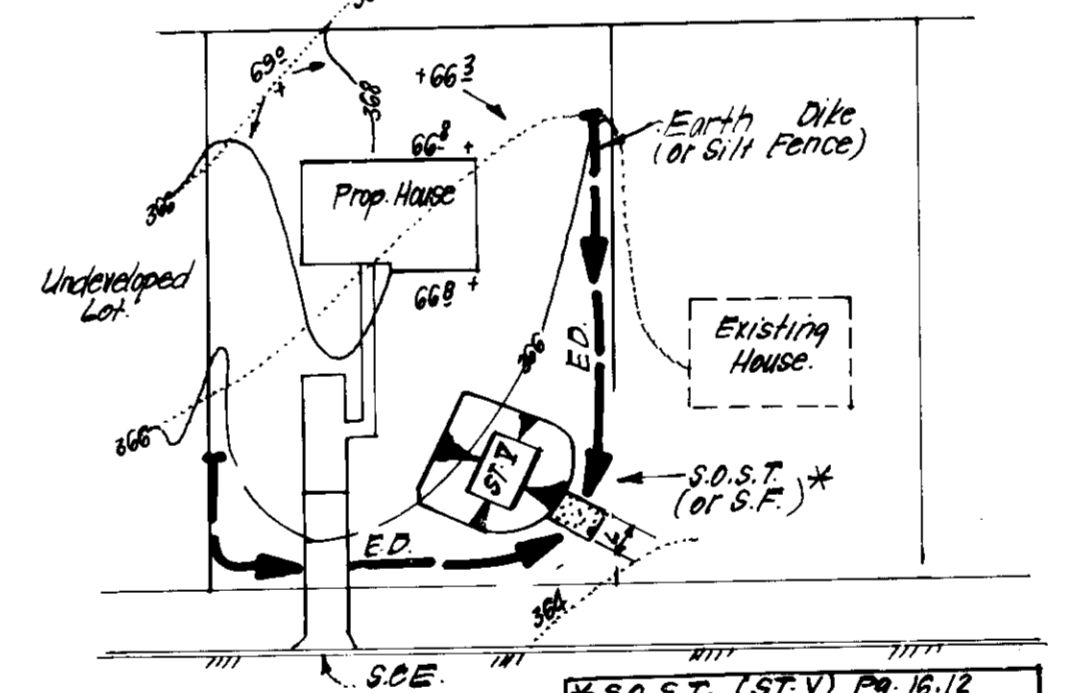


**CONSTRUCTION SPECIFICATIONS:**  
1. Stone size - Use 2" stone or reclaimed or recycled concrete equivalent.  
2. Length - As required, but not less than 50 feet, except on a single residence lot where a 30 foot minimum length would apply.  
3. Thickness - Not less than six (6) inches.  
4. Width - Ten (10) feet minimum, but not less than the full width at points where ingress or egress occurs.  
5. Filter Cloth - Will be placed over the entire area prior to placing of stone. Filter will not be required on a single family residence lot.  
6. Surface Water - All surface water flowing or diverted toward construction entrances shall be piped across the entrance. If piping is impractical, a movable berm with 5:1 slopes will be permitted.  
7. 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 conditions demand and repair and/or cleanout of any measures used to trap sediment. All sediment spilled, dropped, washed or tracked onto public rights-of-way must be removed immediately.  
8. Washing - Wheels shall be cleaned to remove sediment prior to entrance onto 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.  
3. Periodic inspection and needed maintenance shall be provided after each rain.

**STABILIZED CONSTRUCTION ENTRANCE (SCE)**  
NO SCALE

**SEDIMENT 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. (992-2437)
- 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 SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
- Following initial soil disturbance or redisturbance, 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 perimeter in accordance with Vol. 1, 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 soil erosion and sediment control (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.
- 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: 1.384 Acres  
Area Disturbed: 1.384 Acres  
Area to be roofed or paved: 0.255 Acres  
Area to be vegetatively stabilized: 1.029 Acres  
Total Cut: Cu. yds.  
Total Fill: Cu. yds.  
Offsite waste/borrow area location: N/A
- 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.
- If houses are to be constructed on an "As-Sold" basis, at random, Single Lot Sediment Control as shown below shall be implemented.
- All pipes to be blocked at the end of each day (see detail below). N/A
- The total amount of straw bale dikes/silt fence equals 235 L.F.



**SINGLE LOT SEDIMENT CONTROL PLAN**  
NO SCALE

**PERMANENT SEEDING NOTES**

Apply to graded 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, disking or other acceptable means before seeding.

**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. Harrow 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. 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 60 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 (.05 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 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**

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, disking or other acceptable means before seeding.

**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 bushel per acre of annual rye (3.2 lbs/1000 sq ft). For the period May 1 thru August 14, seed with 3 lbs per acre of weeping lovegrass (.07 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 unrotted 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 SEQUENCE**

CONSTRUCTION SEQUENCE	# DAYS
1. Obtain Grading Permit.	2
2. Install Sediment and Erosion Control Measures (Downsize existing sediment trap to dimensions shown on plan).	5
3. Clear and Rough Grade Site *	15
4. Construct Houses and Driveways	100
5. Fine grade and stabilize all disturbed areas in accordance with stds. and specs. **	15
6. Remove Sediment and Erosion Control Measures and stabilize remaining disturbed areas in accordance with stds. and specs.	5

\* Slopes on backs of Lots 50 & 51 to be rough graded at 1:1 to existing sediment trap.  
\*\* Backs of Lots 50 & 51 follow special sequence:  
A) Upon removal of sediment trap, install Phase II SBD/S as shown.  
B) Fine grade backs of lots & stabilize in accordance with stds. & specs.  
C) Upon stabilization remove silt fence and stabilize any remaining disturbed area.

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS. HOWARD COUNTY HEALTH DEPARTMENT. DATE: 10-3-85.

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING. DATE: 10-7-85.

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS. HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS. DATE: 10-1-85.

APPROVED: DIVISION OF LAND DEVELOPMENT & ZONING. HOWARD COUNTY MARYLAND. DATE: 9-19-85.

ENGINEER'S CERTIFICATE

CLARK · FINEFROCK & SACKETT  
ENGINEERS · PLANNERS · SURVEYORS  
11315 LOCKWOOD DRIVE · SILVER SPRING, MARYLAND 20904 · (301) 593-3400

DESIGNED: GLB  
DRAWN: KTW  
CHECKED: GLB  
DATE: 8-21-85

SCALE: 1"=30'  
DRAWING: 3 OF 3  
JOB NO: 85-080  
FILE NO: 85-080 SE

SDP - 86-45-c

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 of Developer/Builder: [Signature] Date: 8/22/85

Signature of Engineer: [Signature] Date: 8-21-85

SE-EL PERMITS/BUILDERS CERTIFICATE

I/We certify that the work shown on this plan was done in accordance with the requirements of the Howard Soil Conservation District and that the construction project will be in accordance with the requirements of the Howard Soil Conservation District.

Signature of Developer/Builder: [Signature] Date: 8/22/85

Signature of Engineer: [Signature] Date: 8-21-85