

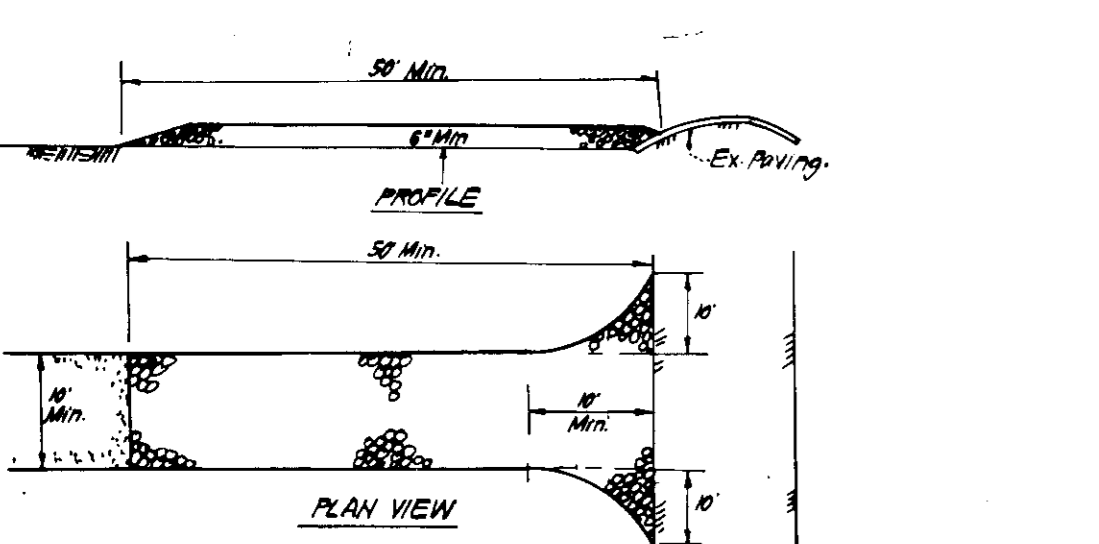
**PERMANENT SEEDING NOTES**

- 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 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 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 permanent seedings (Sec. 31) and temporary seedings (Sec. 50) and mulching (Sec. 52.) Temporary stabilization using mulch alone can only be done when recommended seeding rates 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	0.39 Acres
Area Disturbed	0.19 Acres
Area to be roofed or paved	0.07 Acres
Area to be vegetatively stabilized	0.07 Acres
Total Cut	362 Cu. yds
Total Fill	31 Cu. yds
Offsite waste/borrow area location	N/A
- 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 DPM 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.
- If houses are to be constructed on an "As-Sold" basis, at London, Single Lot Sediment Control as shown below shall be implemented.
- All pipes to be blocked at the end of each day (see detail below).
- The total amount of straw bale dikes/silt fence equals 195 L.F.

**CONSTRUCTION SEQUENCE:**

Activity	No. of Days
A. Obtain Grading Permit and Install Sediment and Erosion Control Devices and Stabilize.	1
B. Excavate for Foundations and Rough Grade & Temporarily Stabilize.	5
C. Construct Structures, Sidewalks and Driveways.	14
D. Final Grade and stabilize in accordance with Stds. & Specs.	1
E. Upon approval of the sediment control inspector, remove sediment and erosion controls and stabilize.	1



**CONSTRUCTION SPECIFICATIONS:**

- Slats Size - Use 2" slats, or reclaimed or recycled concrete equivalent.
- Length - As required, but not less than 50 feet (except on a slope, restructure 10' where a 30' min length would apply).
- Thickness - Not less than 6".
- Width - Top flat width, but not less than the full width at point where ingress is required.
- Filter Cloth - Will be placed over the entire area prior to placing of slats. Filter cloth will be required on a slope, restructure or structure where ingress is required or directed toward construction entrance. Filter cloth shall be placed across the entrance.
- Maintenance - The entrance shall be maintained in a condition which will prevent the slats or filter cloth from being damaged or displaced. This may require periodic inspection with additional slats or filter cloth as required. All sediment spilled across the dike or trapped on the dike shall be removed immediately.
- Warning - Warning signs shall be placed to remove sediment prior to entrance into public right-of-way. Signs shall be placed on an approved sediment trapping device.
- Portable inspection and needed maintenance shall be provided after each rain.

**STABILIZED CONSTRUCTION ENTRANCE (S.C.E.)**  
NO SCALE

**APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT**  
 COUNTY HEALTH OFFICER: *[Signature]* 6-16-86  
 DATE: 6-16-86

**APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING**  
 PLANNING DIRECTOR: *[Signature]* 6-17-86  
 DATE: 6-17-86

**APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS**  
 DIRECTOR: *[Signature]* 6-16-86  
 DATE: 6-16-86

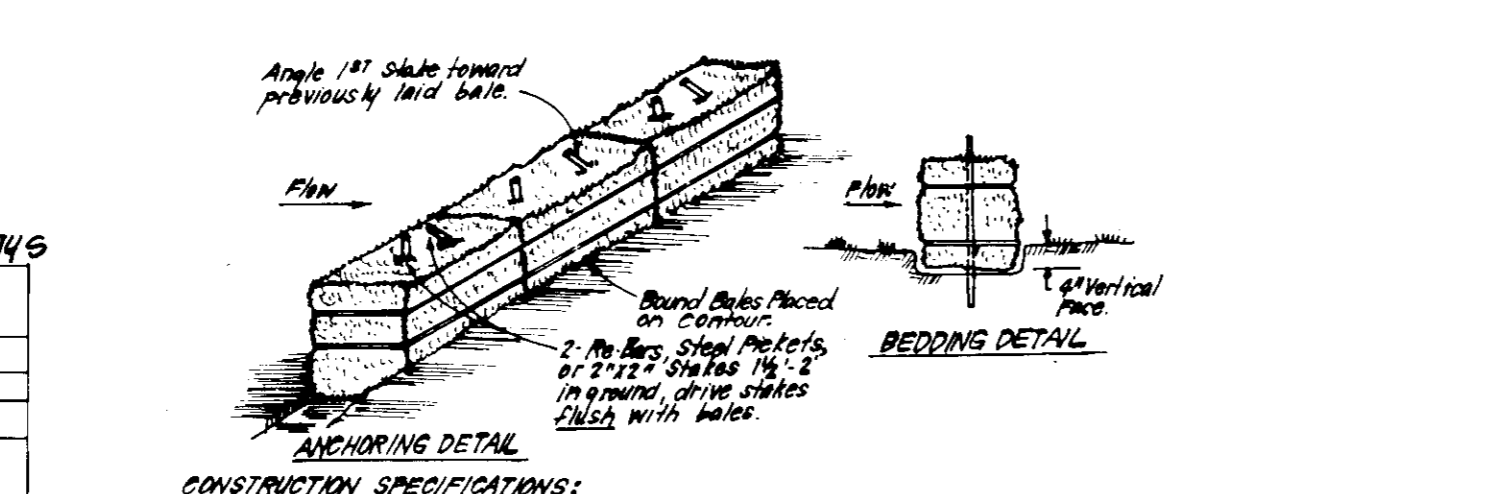
**PERMANENT SEEDING NOTES**

- Apply to graded or cleared areas not subject to immediate further disturbance where a permanent non-erodible vegetative cover is needed.
- Seedbed Preparation:** Loosen upper three inches of soil by raking, discing or other acceptable means before seeding.
- 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 square ft) and 400 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).
  - 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 (.05 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 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 gal 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.

Inspect all seeded areas and make needed repairs, replacements and reseeding.

**TEMPORARY SEEDING NOTES**

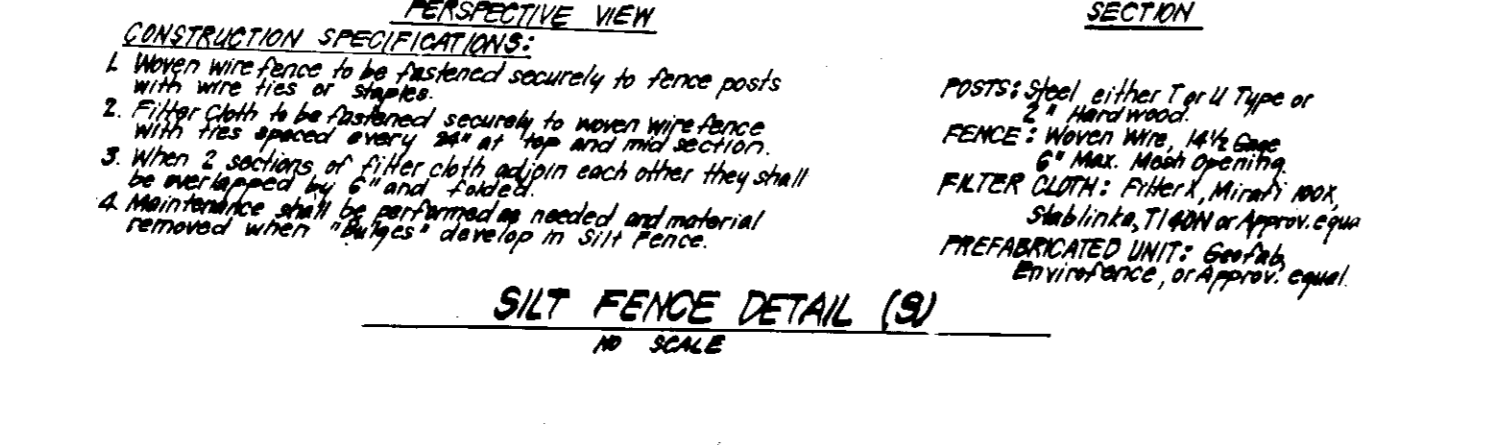
- Apply to graded or cleared areas likely to be redistributed where a short-term vegetative cover is needed.
- Seedbed Preparation:** Loosen upper three inches of soil by raking, discing or other acceptable means before seeding.
- Soil Amendments:** Apply 600 lbs per acre 10-10-10 fertilizer (14 lbs/1000 sq ft)
- Seeding -** For periods March 1 thru April 30 and from August 15 thru November 15, seed with 25 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 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 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 SPECIFICATIONS:**

- Bales shall be placed at the top of a slope or on the contour and in a row with ends tightly abutting the adjacent bales.
- Each bale shall be embedded in the soil a min. of 4" and placed so the bindings are horizontal.
- Bales shall be securely anchored in place by either 2 stakes or rebar driven thru the bale. The 2" slats in each bale shall be driven toward the top of the bale at an angle to force the bales together. Slats shall be driven flush with the soil.
- Inspection shall be frequent and repair replacement shall be made promptly as needed.
- Slats shall be removed when they have served their usefulness as a net to block or impede storm flow or drainage.

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



**CONSTRUCTION SPECIFICATIONS:**

- Warning wire fence to be fastened securely to fence posts with wire ties or staples.
- Filter cloth to be fastened securely to warning wire fence with ties spaced evenly per 1' in top and mid section.
- When 2 sections of filter cloth adjoin each other they shall be overlapped by 6" and stapled.
- Maintenance shall be performed as needed and material removed when slats are damaged or soil force.

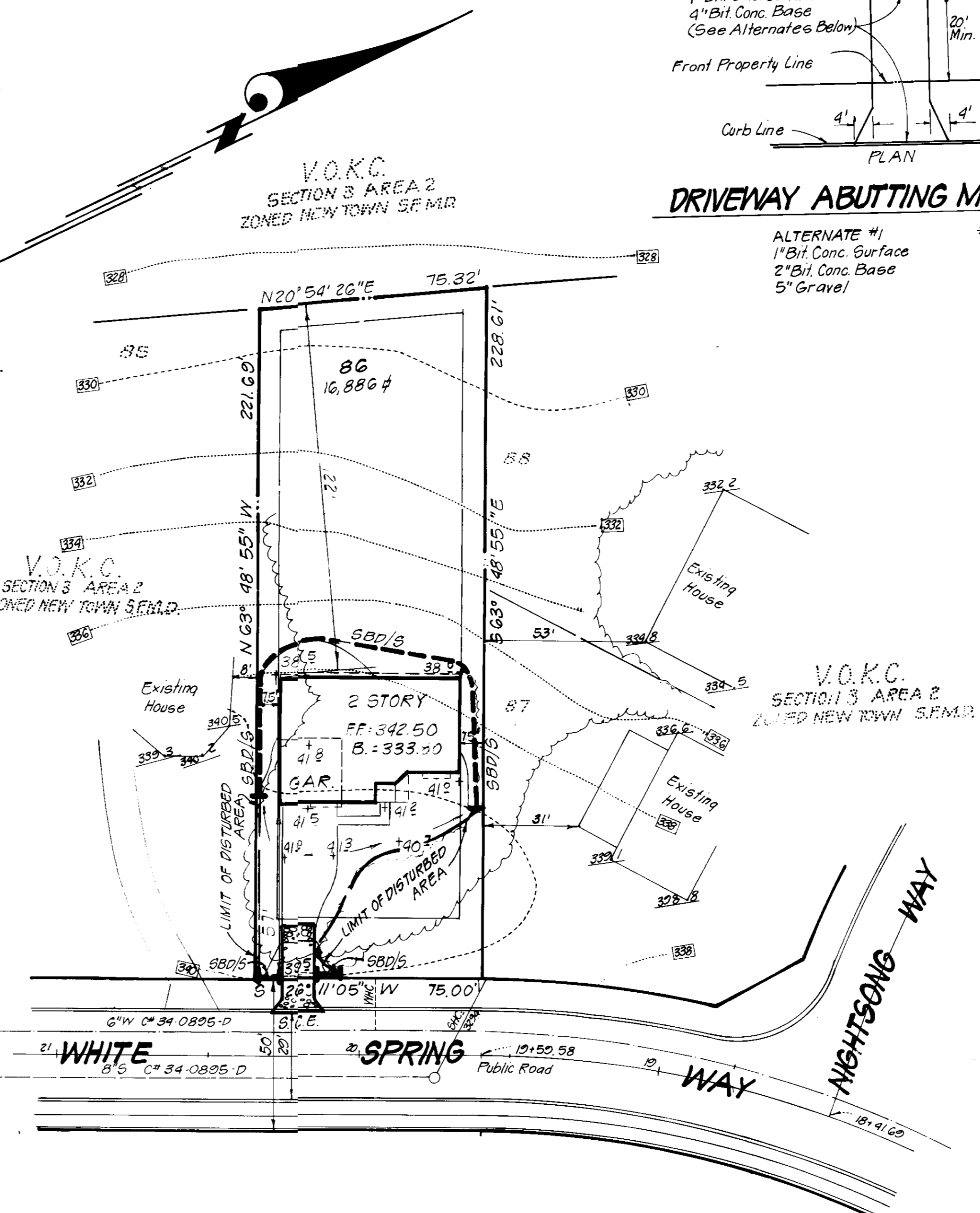
**SILT FENCE DETAIL (S)**  
NO SCALE

**APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS AND PUBLIC ROADS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS**  
 DIRECTOR: *[Signature]* 5-27-86  
 DATE: 5-27-86

**APPROVED: LAND DEVELOPMENT & ZONING**  
 PLANNING DIRECTOR: *[Signature]* 5-27-86  
 DATE: 5-27-86

**Reviewed for HOWARD COUNTY S.C.D.**  
 Name: *[Signature]* 6-9-86  
 Signature: *[Signature]* 6-9-86  
 U.S. Soil Conservation Service

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD COUNTY DISTRICT.  
 Stephen L. Kuhn 6/9/86  
 Approved Date



**LEVEL CHILDREN'S CERTIFICATE**  
 I hereby certify that all children's playground equipment will be done according to the requirements of the American Society for Testing and Materials (ASTM) and the American National Standards Institute (ANSI) and that it was prepared in accordance with the requirements of the Howard County Department of Public Works.

**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 County Department of Public Works.

*[Signature]* 5-1-86  
 Christopher O. Stubbs  
 Date

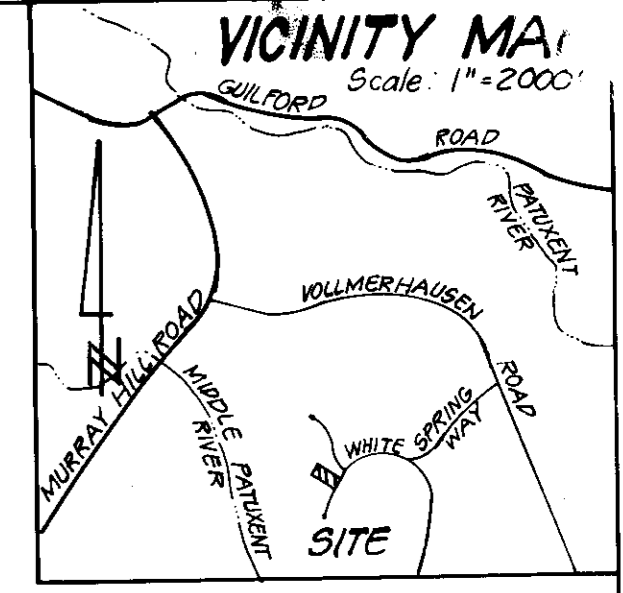
*[Signature]* 5-1-86  
 G. Nelson Clark  
 Date

**APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT**  
 COUNTY HEALTH OFFICER: *[Signature]* 6-16-86  
 DATE: 6-16-86

**APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING**  
 PLANNING DIRECTOR: *[Signature]* 6-17-86  
 DATE: 6-17-86

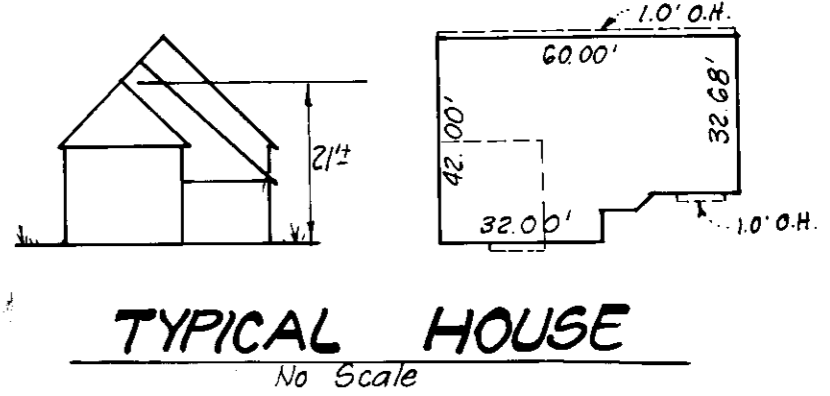
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 DIRECTOR: *[Signature]* 6-16-86  
 DATE: 6-16-86

NOTE: Materials and Construction shall be done in accordance with Ho Co. Road Construction Code.



- 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 Purdom & Jeschke 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: 0.39 Ac.
  - Total Number of Lots: 1
  - Storm Water Management for this site has been provided in V.O.K.C. 3/2 F-80-87
  - Reference Final Development Plan Criteria Phase 163 Pt. 2.

- LEGEND:**
- Contour Interval 2' Ft
  - Existing Contour 330
  - Proposed Contour 330
  - Spot Elevation 41.2
  - Direction of Drainage
  - Existing Trees to be saved
  - Straw Bale Dike/Silt Fence SBD/S
  - Stabilized Construction Entrance S.C.E.



**ADDRESS CHART**

LOT #	STREET	ADDRESS
86	9508	WHITE SPRING WAY

SUBDIVISION NAME: COLUMBIA VILLAGE OF HICKORY RIDGE  
 SECTION: 3/2  
 LOT: 86  
 PLAT: 4814  
 BLOCK: 21  
 ZONE: SF.M.D.  
 WATER CODE: E-15  
 SEWER CODE: G20000

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

**DESIGNED:** JME, MBC  
**DRAWN:** VHL  
**CHECKED:** JME  
**DATE:** 4-30-86

**SITE DEVELOPMENT & SEDIMENT & EROSION CONTROL PLAN**  
 LOT 86  
**COLUMBIA VILLAGE OF KINGS CONTRIVANCE**  
 SECTION 3 AREA 2  
 5TH ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND

FOR: CHRIS STUBBS, INC.  
 8250 Route 108 #114  
 Columbia, MD 21045

SCALE: 1"=30'  
 DRAWING: 1 of 1  
 JOB NO.: 86-055  
 FILE NO.: 86-055-X

S.D.P. 86-243 C