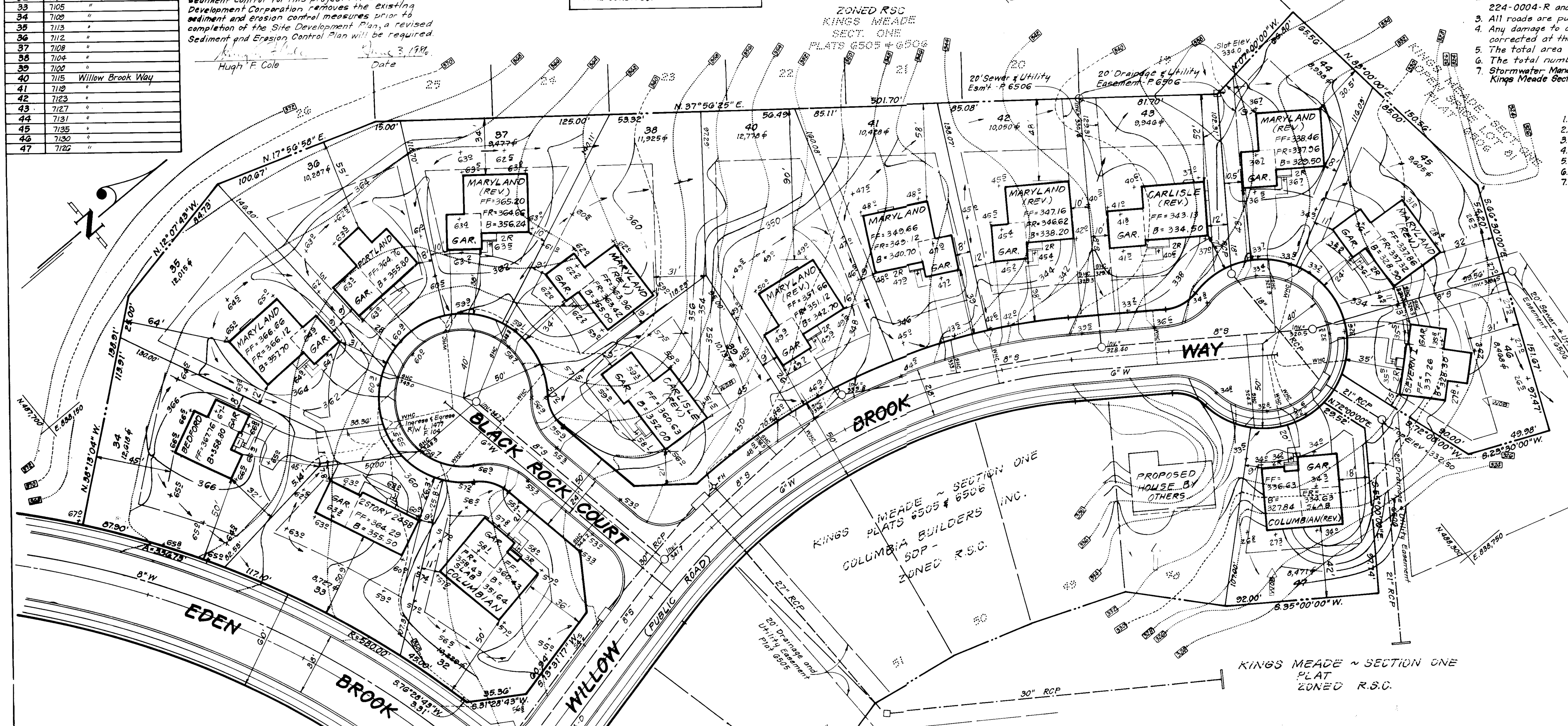
ADDRESS CHART	
LOT No.	**STREET ADDRESS**
32	7101 Black Rock Court
33	7105 "
34	7109 "
35	7113 "
36	7112 "
37	7108 "
38	7104 "
39	7100 "
40	7115 Willow Brook Way
41	7119 "
42	7123 "
43	7127 "
44	7131 "
45	7135 "
46	7130 "
47	7126 "

Brantly Development Corp. hereby authorizes Diversified Housing to utilize the existing sediment control measures shown on plan F-85-103 for sediment control for this project. If Brantly Development Corporation removes the existing sediment and erosion control measures prior to completion of the Site Development Plan, a revised Sediment and Erosion Control Plan will be required.

Hugh F. Cole — June 3, 1986
Date

Sediment & Erosion Control for this project is provided by the Road Construction Plans F-85-103.



GENERAL NOTES

1. The land included is zoned R.S.C.
2. Horizontal Control based on Howard County Monuments 224-0004-R and 224-0005-R.
3. All roads are public and existing.
4. Any damage to county owned rights-of-way shall be corrected at the developer's expense.
5. The total area included: 3.7672 Acres
6. The total number of lots: 16
7. Stormwater Management provided for in central facility in Kings Meade Section I, approved plans F-85-103.

LEGEND

1. Contour Interval — 2 Ft.
2. Existing Contour — 340
3. Proposed Contour — 340
4. Spot Elevation — +40.5
5. Direction of Drainage — →
6. Walk-Out Basement — WOB
7. Ex. Trees to be Saved

LOT SIZE TABULATION

Min Lot Size

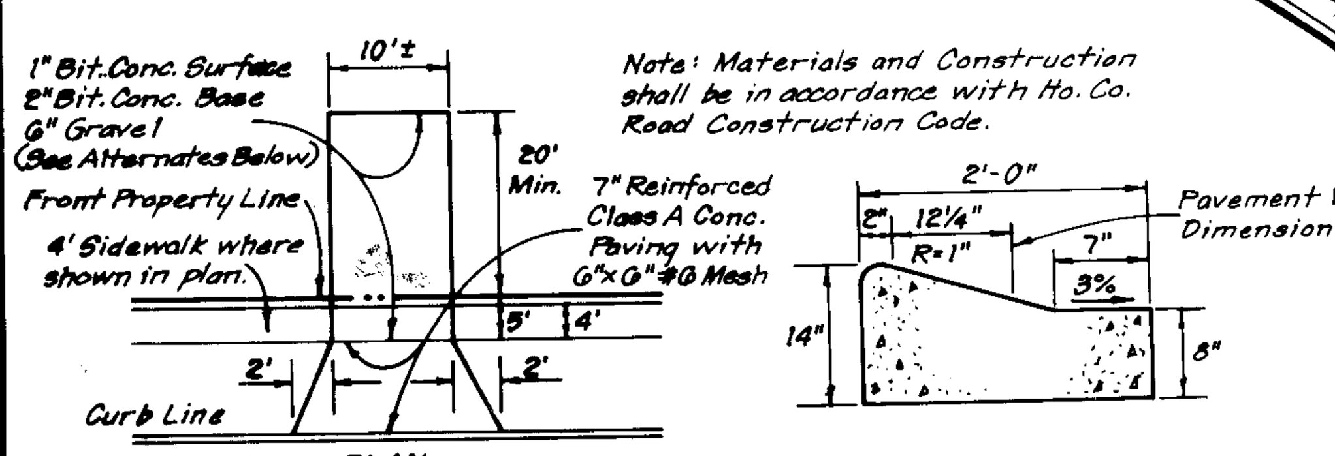
Columbian - $46.67 \times 43 = \frac{2006.81}{.4} = 5017$ ◻

Severn - $(31 \times 28)+(20 \times 22)+(19 \times 12)+(31 \times 1.33) = \frac{1577.23}{.4} = 3943.1$ ◻

Maryland - $(40' \times 24)+(22 \times 22.23)+(4 \times 9.5)+(14 \times 29.5) = \frac{1902.3}{.4} = 4755.7$ ◻

Portland - $(28.33 \times 19)+(12.33 \times 16.33)+(22.67 \times 20.33) = \frac{1200.5}{.4} = 3001.3$ ◻

Bedford - $(16.67 \times 33.33)+(11.33 \times 31.33)+(24 \times 20) = \frac{1490.6}{.4} = 3726.5$ ◻



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

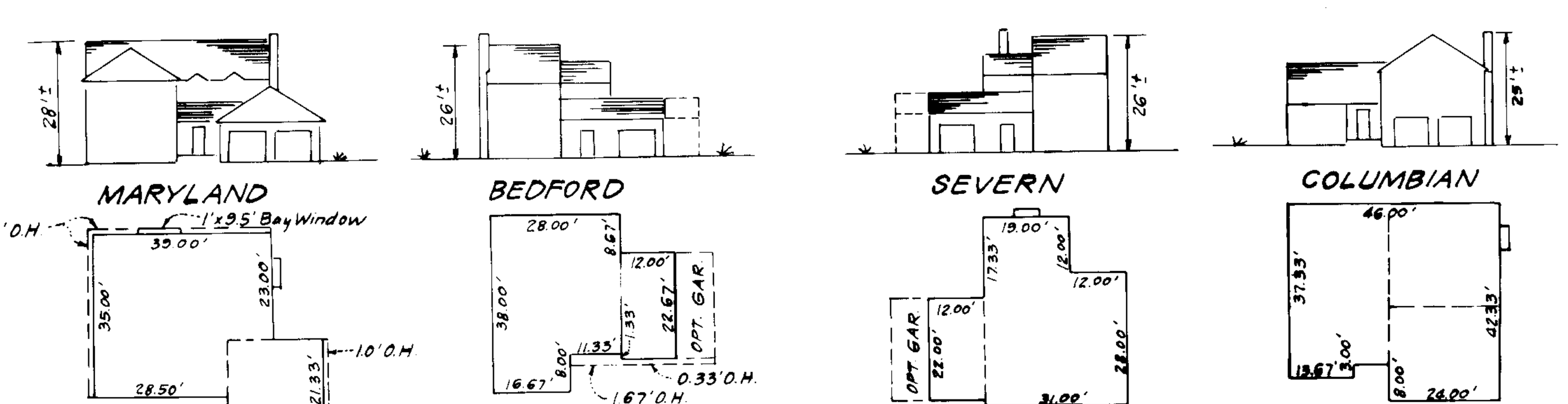
DRIVEWAY ABUTTING MOD. COMB. CURB & GUTTER*

NO SCALE

ALTERNATE #1
1" Bit. Conc. Surface
4" Bit. Conc. Base

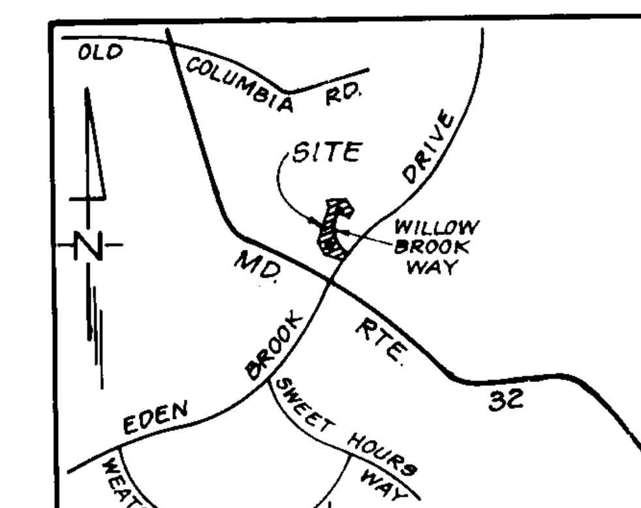
ALTERNATE #2
1" Bit. Conc. Surface
3" Bit. Conc. Base
3" Gravel

* See Ho. Co. Std. R-3.01 for Std. 7" Comb. Curb and Gutter.



TYPICAL HOUSES

NO SCALE



VICINITY MAP
SCALE: 1" = 2000'

SUBDIVISION NAME			SECT. / AREA		LOTS
KINGS MEADE			1		32-47
PLAT	BLOCK #	ZONE	TAX/ZONE MAP	ELEC. DIST.	CENSUS TR
6505 & 6506	7	R.S.C.	42 P.303	6th	6062
WATER CODE			SEWER CODE		
E16			5290000		

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS. HOWARD COUNTY HEALTH DEPARTMENT
COUNTY HEALTH OFFICER — DATE 6-16-86

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING
PLANNING DIRECTOR — DATE 6-17-86
CHIEF DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION — DATE 6-17-86

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DIRECTOR — DATE 6-10-86
CHIEF BUREAU OF ENGINEERING — DATE 6-10-86

5-26-86

DEVELOPER'S/BUILDER'S CERTIFICATE

"I/We certify that all development and construction will be done according to this plan ... for erosion and sediment control and that all ... the construction project will have ... of Natural Resources ... of Sediment and Erosion before ... periodic on-site inspection by the ... Soil Conservation District or their authorized agents, as are deemed necessary."

Signature of Developer/Builder — 6/3/86 Date
DREW SIKORSKI

Reviewed for Howard S.C.D.
Name
and meets Technical Requirements
Signature — 6-9-86 Date
U.S. Soil Conservation Service

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

Approved — 6/9/86 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.

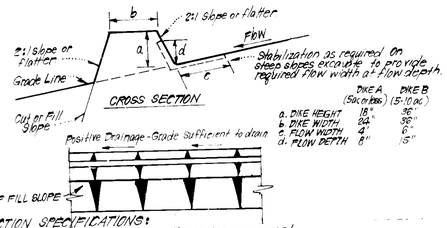
G. Nelson Clark — 6-3-86 Date

DEVELOPER:
BRANTLY DEVELOPMENT CORP.
9030 Red Branch Road # 210
Columbia, Maryland 21045

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

DESIGNED BAF	SITE DEVELOPMENT PLAN LOTS 32 THRU 47	SCALE 1" = 30'
DRAWN VLM LAI	**KINGS MEADE** SECTION ONE	DRAWING 1 of 2
CHECKED BAF	6th ELECTION DISTRICT HOWARD COUNTY, MARYLAND	JOB NO. 86-007
DATE 4-22-86	FOR: CONSOLIDATED HOMES 8950 Route 108 Columbia, Maryland 21044	FILE NO. 86-007

SDP 86-236



	DIKE A (Silt or less)	DIKE B (Silt or Clay)
a. DIKE HEIGHT	18"	36"
b. DIKE WIDTH	84"	96"
c. FLOW WIDTH	4'	6"
d. FLOW DEPTH	8"	15"

CONSTRUCTION SPECIFICATIONS:
1. All dikes shall be compacted by earth-moving equipment
2. All dikes shall have positive drainage to an outlet.
3. Top width may be wider and side slopes may be flatter if desired, to facilitate crossing by construction traffic.
4. Flow channel should be adjusted as needed to utilize a stabilized site outlet.
5. Earth dikes shall have an outlet that functions with a minimum of erosion. Runoff shall be conveyed to a sediment trapping device such as a sediment trap or sediment basin where either the dike channel or the drainage area above the dike are not adequately stabilized.
6. Stabilization shall be: (A) In accordance with standard specifications for seed and straw mulch or straw mulch if not in seeding season, (B) flow channel as per chart below.

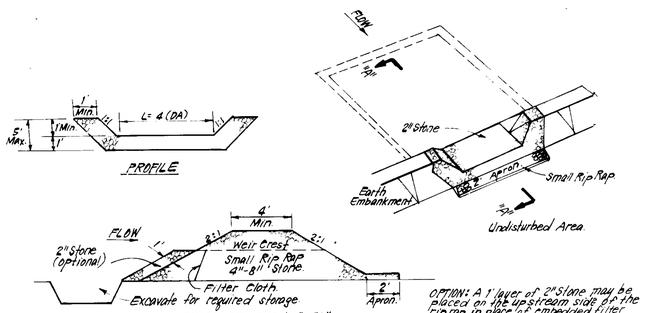
FLOW CHANNEL STABILIZATION

TYPE OF TREATMENT	CHANNEL GRADE	DIKE A	DIKE B
1	0.5 - 3.0%	Seed & Straw Mulch	Seed or Straw Mulch
2	3.1 - 5.0%	Seed & Straw Mulch	Seed w/Jute, or Excelsitor; Sod, 2" Stone
3	5.1 - 8.0%	Seed w/Jute or Sod; 2" Stone	Lined Rip Rap 4"-8" Stone
4	8.1 - 20.0%	Lined Rip Rap 4"-8" Stone	Engineering Design

A. Stone to be 2" Stone, or recycled concrete equivalent, in a layer at least 3" thick and be pressed into soil with construction equipment
B. Rip Rap to be 4"-8" in a layer at least 8" thick, pressed into soil.
C. Approved equivalents can be substituted for any of the above materials.
7. Periodic Inspection and Required Maintenance must be provided after each rain.

EARTH DIKE DETAIL (E.D.)

NO SCALE

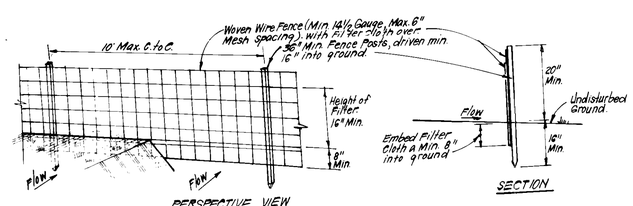


OPTION: A 1' layer of 2" Stone may be placed on the upstream side of the rip rap in place of embedded filter cloth.

CONSTRUCTION SPECIFICATIONS:
1. Area under embankment shall be cleared, grubbed and stripped of any vegetation and root mat. The pool area shall be cleared.
2. The fill material for the embankment shall be free of roots and other woody vegetation as well as over sized stones, rocks, organic material or other objectionable material. The embankment shall be compacted by traversing with equipment while it is being constructed.
3. All cut and fill slopes shall be 2:1 or flatter.
4. The stone used in the outlet shall be small rip rap 4"-8" along with 1' thickness of 2" aggregate placed on the up-grade side on the small rip rap, or embedded filter cloth in the rip rap.
5. Sediment shall be removed and trap restored to its original dimensions when the sediment has accumulated to ½ the design depth of the trap.
6. The structure shall be inspected after each rain and repairs made as needed.
7. Construction operations shall be carried out in such a manner than erosion and water pollution is minimized.
8. The structure shall be removed and the area stabilized when the drainage area has been properly stabilized.

STONE OUTLET SEDIMENT TRAP (S.O.S.T.) ST.V.

NO SCALE

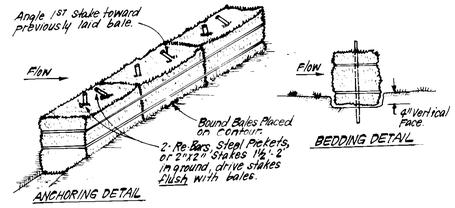


CONSTRUCTION SPECIFICATIONS:
1. Woven wire fence to be fastened securely to fence posts with wire ties or staples.
2. Filter Cloth to be fastened securely to woven wire fence with ties spaced every 24" at top and mid section.
3. When 2 sections of filter cloth adjoin each other they shall be overlapped by 6" and folded.
4. Maintenance shall be performed as needed and material removed when "bulges" develop in Silt Fence.

POSTS: Steel, either T or U Type or 2" Hardwood
FENCE: Woven Wire, 14½ Gage, 6" Max. Mesh Opening
FILTER CLOTH: Filter-X, Mirafi 100X, Stabilinka, T140N or Approv. equal
PREFABRICATED UNIT: GeoFab, Envirofence, or Approv. equal

SILT FENCE DETAIL (SI)

NO SCALE



CONSTRUCTION SPECIFICATIONS:
1. 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.
2. Each bale shall be embedded in the soil a min. of 4" and placed so the bindings are horizontal.
3. Bales shall be securely anchored in place by either 2 stakes or re bars driven thru the bale. The 1st stake in each bale shall be driven toward the previously laid bale at an angle to force the bales together. Stakes shall be driven flush with the bale.
4. Inspection shall be frequent and repair replacement shall be made promptly as needed.
5. Bales shall be removed when they have served their usefulness so as not to block or impede storm flow or drainage

STRAW BALE DIKE DETAIL (SBD)

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.

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:
1) Preferred - Apply 2 tons per acre dolomitic limestone (92 lbs/1000 square 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 thre 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 1½ 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 flac 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 reseedings.

TEMPORARY SEEDING NOTES

Apply to graded or cleared areas likely to be redisturbed 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 2½ 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 1½ 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.

SEDIMENT CONTROL NOTES

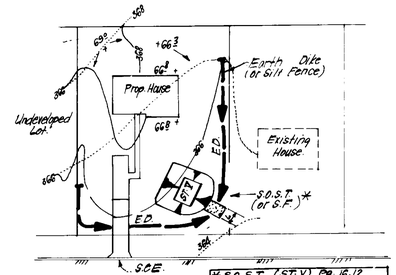
1) A minimum of 24 hours notice must be given to the Howard County Office of Inspection and Permits prior to the start of any construction. (992-2437)
2) All vegetative and structural practices are to be installed according to the provisions of this plan and are to be in conformance with the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
3) 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.
4) All sediment traps/basins shown must be fenced and warning signs posted around their perimeter in accordance with Vol. 1, Chaper 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. 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	3.77 Acres
Area Disturbed	3.56 Acres
Area to be roofed or paved	.084 Acres
Area to be vegetatively stabilized	2.72 Acres
Total Cut	4872 Cu. yds
Total Fill	1811 Cu. yds
Offsite waste/borrow area location	N/A

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) Additional sediment control must be provided, if deemed necessary by the Howard County DPW 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. Other building or grading inspection approvals may not be authorized until this initial approval by the inspection agency is made.
11) If houses are to be constructed on an "As-Sold" 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 _____ L.F.

CONSTRUCTION SEQUENCE:

	No. OF DAYS
A. Obtain Grading Permit and Install Sediment and Erosion Control Devices and Stabilize.	2
B. Excavate for foundations and Rough Grade & Temporarily Stabilize	30
C. Construct Structures, Sidewalks and Driveways.	250
D. Final Grade and scabilize in accordance with Stds. & Specs.	15
E. Upon approval of the sediment control inspector remove sediment and erosion controls and stabilize.	0



* 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.

W.S.O.S.T. (ST.V) Pg 16.12			
LOT SIZE	¼ AC	½ AC	1 AC
L	½	3	6
Depth	2'	2'	2'
Bot. Length	11	26	26
Bot. Width	11	11	26
Bot. Area	121 sf	286 sf	676 sf

+ can be adjusted in field, but bottom area must be as given or greater

SINGLE LOT SEDIMENT CONTROL PLAN

NO SCALE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT
COUNTY HEALTH OFFICER — DATE 6-16-86

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING
PLANNING DIRECTOR — DATE 6-17-86
CHIEF DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DIRECTOR — DATE 6-16-86
CHIEF BUREAU OF ENGINEERING — DATE

APPROVED
DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION
HOWARD COUNTY MARYLAND
DATE 5-26-86

DEVELOPER'S CERTIFICATE

"I/We certify that all development and construction will be done according to this approved plan and plan for erosion and sediment control and that all responsible personnel involved in the construction project will have a certificate of attendance at 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 of Developer/Builder — Date 4/24/86

Reviewed for: Howard S.C.D.
Name
and meets Technical Requirements
Signature — Date 6-9-86
U.S. Soil Conservation Service

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

Approved — Date 6/9/86

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.

G. Nelson Clark — Date 4-25-86

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

DESIGNED BAF	SITE DEVELOPMENT PLAN SEDIMENT & EROSION CONTROL PLAN LOTS 32 THRU 47
DRAWN VLM LAI	KINGS MEADE SECTION ONE
CHECKED BAF	6th ELECTION DISTRICT HOWARD COUNTY, MARYLAND
DATE 4-22-86	FOR: CONSOLIDATED HOMES 8950 Route 108 Columbia, Maryland 21044

SCALE	1" = 30'
DRAWING	2 of 2
JOB NO.	86-007
FILE NO	86-007-SE

SDP-86-236