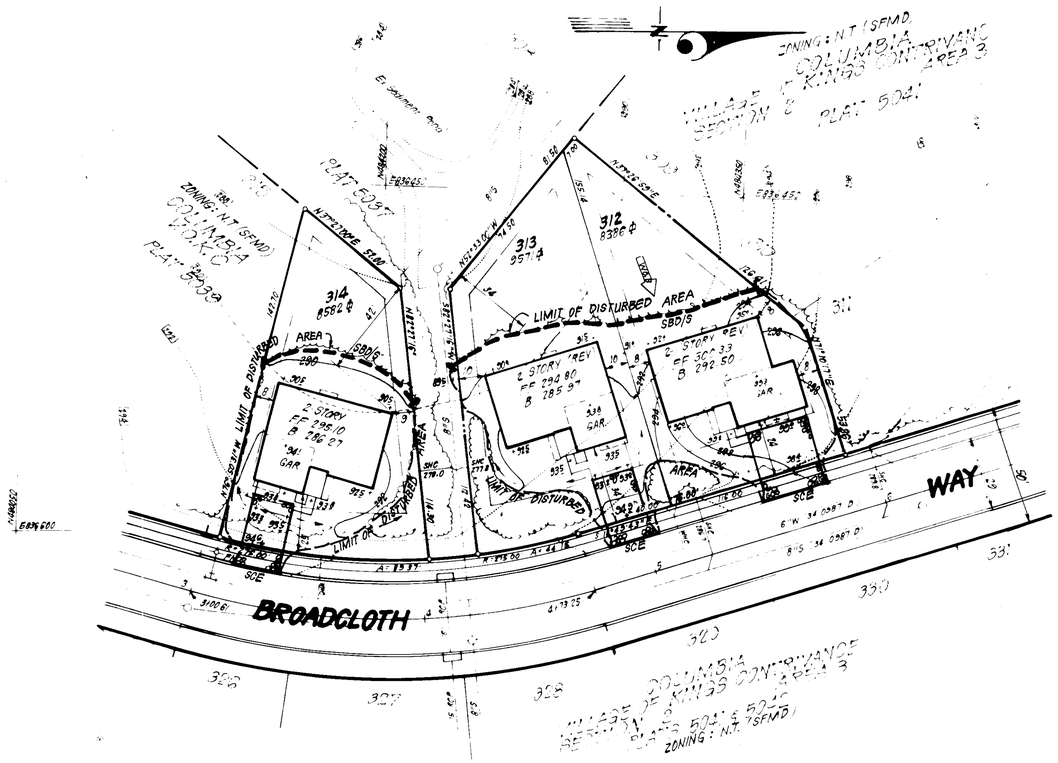
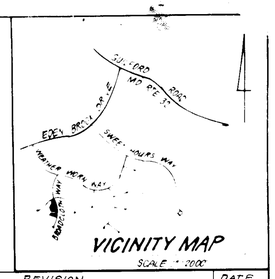




Nº	REVISION	DATE
1	Corrected drafting error on Address Chart - Lot 312	12-27-85

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, 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 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 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 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.

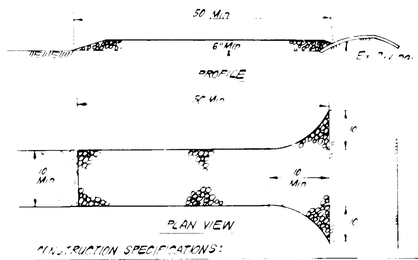
Seedbed Preparation: Loosen upper three inches of soil by raking, disking or other acceptable means before seeding.

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 25 bushel per acre of annual rye (1.2 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.



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' min. length would apply.
3. Thickness - Not less than 6".
4. Width - Ten feet min, but not less than the full width at point where ingress & egress occur.
5. Filter Cloth - To 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.
7. Maintenance - The entrance shall be maintained in a condition which will prevent tracking or flowing of sediment onto public streets or alleys. This may require periodic top dressing with additional stone as conditions demand, repair and/or cleaning of any measures used to trap sediment. All sediment spilled, dropped or washed or tracked onto streets or alleys must be removed immediately.
8. Washing - Wheels shall be cleaned to remove sediment prior to entrance onto public streets or alleys. 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 (S.C.E.)
NO SCALE

SEDIMENT CONTROL NOTES

1) At least seven (7) days prior to the start of any earth disturbance, a pre-construction meeting must be held on the site between the Inspection and Permits Section, Howard County Department of Public Works, the contractor and the developer.

2) Sediment control and erosion control practices are to be in accordance with the specifications in this plan and shall be installed 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: 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, Chapter 15, 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. 50) and (Sec. 54), temporary seeding (Sec. 50) and mulching (Sec. 52.) Temporary stabilization with mulch alone may only be done when recommended seeding dates do not allow for proper permanent 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	0.6093	Acres
Area Disturbed	0.3752	Acres
Area not to be disturbed	0.1711	Acres
Area to be roofed or paved	0.2041	Acres
Total cut	500	Cu. yds.
Total fill	389	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.

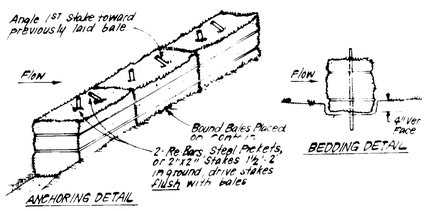
11) If houses are to be constructed on an "As-Sold" basis, at random, Staple Lot Sediment Control as shown below shall be implemented.

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 210 L.F.

CONSTRUCTION SEQUENCE:

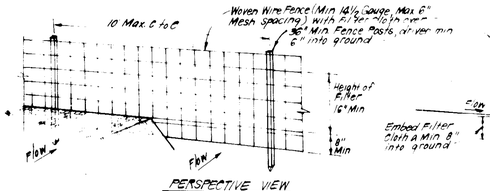
A. Obtain Grading Permit and Install Sediment and Erosion Control Devices and Stabilize.
B. Excavate for foundations and Rough Grade.
C. Construct Structures, Sidewalks and Driveways.
D. Final Grade and stabilize in accordance with Stds. & Specs.
E. Upon approval of the Sediment Control Inspector, remove sediment and erosion control and stabilize.



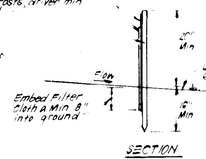
CONSTRUCTION SPECIFICATIONS:

1. Bales shall be placed at the Top of a Slope or on the contour and in a row with tightly abutting the adjacent bales.
2. Each bale shall be embedded in the soil a min of 4" and placed so the bindings are not broken when the bales are set.
3. Bales shall be securely anchored in place by either 2 stakes or re bars driven through the first stake in each bale shall be driven toward the previously laid bale at the bales together. Stakes shall be driven flush with the bale.
4. Inspection shall be frequent and repair replacement shall be made promptly.
5. Bales shall be removed when they have served their usefulness so as not to block storm flow or drainage.

STRAW BALE DIKE DETAIL (SBD)
NO SCALE



PERSPECTIVE VIEW

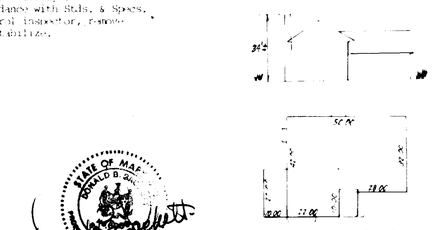


CONSTRUCTION SPECIFICATIONS:

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. To be overlapped by 6" and folded.
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"x2" Hardwood
FENCE: Woven Wire, 14½ Gage, 6" Max. Mesh Opening
FILTER CLOTH: Filter X, Mirafi 100X, Stabinka, T140N or Approv. equal.
PREFABRICATED UNIT: Geofab, Enviofence or Approv. equal

SILT FENCE DETAIL (9)
NO SCALE



TYPICAL HOUSE
NO SCALE

LEGEND:

1. Property Boundary
2. Existing Contour — 370
3. Proposed Contour — 370
4. Spot Elevation — +75
5. Direction of Drainage
6. Existing Trees to be Saved
7. Walk Out Basement
8. Stabilized Construction Entrance
9. Straw Bale Dike/Silt Fence — SBD/S

GENERAL NOTES:

1. The tract boundary and topography is based on Howard County Geodetic Control Network and is based upon the NAD 1983 State Plane Coordinate System.
2. The area covered is located on Tax Map 42
3. The total area of this plan is: 0.6093 acres
4. All roadways are public and existing.
5. Any damage to county owned items of value or devices shall be corrected at the developer's expense.
6. The number of lots: 3
7. Storm Water Management Provided in central facility in VOKC 2/3 Phase II, F-80-36c.

DEVELOPER'S/BUILDER'S CERTIFICATE

"I/We certify that all development on this plan will be done according to this plan of development and that all 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 in 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: 4-8-85
CHRIS STUBBS

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: 4-8-85
STATE OF MARYLAND — G. NELSON CLARK — No. 7130 — REGISTERED PROFESSIONAL ENGINEER

SC	ADDRESS CHART
312	7524 Broadcloth Way
313	7528 " "
314	7534 " "

SUBDIVISION NAME			SECT/AREA	LOT/PARCEL
COL. VOKC - PHASE III			2.3	312, 313, 314
PLAT	BLOCK	ZONE	TAX ZONE MAP	ELEC DIST	CENSUS #
5083 & 5084	13	NEW TOWN SFMD & SFLD	42	6TH	6062
WATER CODE	E-6	SEWER CODE	W-35		

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

COUNTY HEALTH OFFICER — DATE 6-3-85

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING

PLANNING DIRECTOR — DATE 6-4-85

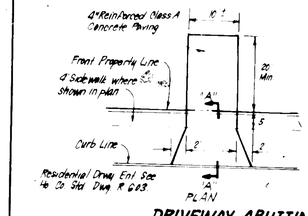
CHIEF DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION — DATE 6-4-85

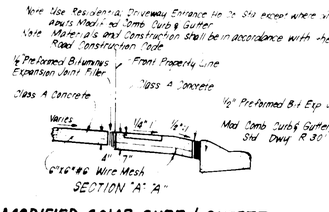
APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

DIRECTOR — DATE 5-28-85

CHIEF BUREAU OF ENGINEERING — DATE 5-28-85

5-6-85





DRIVEWAY ABUTTING MODIFIED COMB. CURB & GUTTER.
No Scale

Reviewed for Howard S.C.D. — Name
and meets Technical Requirements
Signature — Date 5-21-85
U.S. Soil Conservation Service

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

Approved — Date

CLARK · FINEFROCK & SACKETT
ENGINEERS · PLANNERS · SURVEYORS
1131" LOCKWOOD DRIVE · SILVER SPRING, MARYLAND 20904 · (301) 593 3400

DESIGNED	JME
DRAWN	K.W.
CHECKED	JME.
DATE	4-5-85

SITE DEVELOPMENT PLAN & SEDIMENT & EROSION CONTROL PLAN
LOT 312, 313 & 314
COLUMBIA
VILLAGE OF KINGS CONTRIVANCE
SECTION 2 AREA 3 PHASE III
6TH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

PREPARED FOR: DEVELOPMENT CORP. P.O. Box 2068 Columbia, MD 21045

SCALE	1" = 30'
DRAWING	1 of 1
JOB NO	85-043
FILE NO	85043X

SDP 85-174c