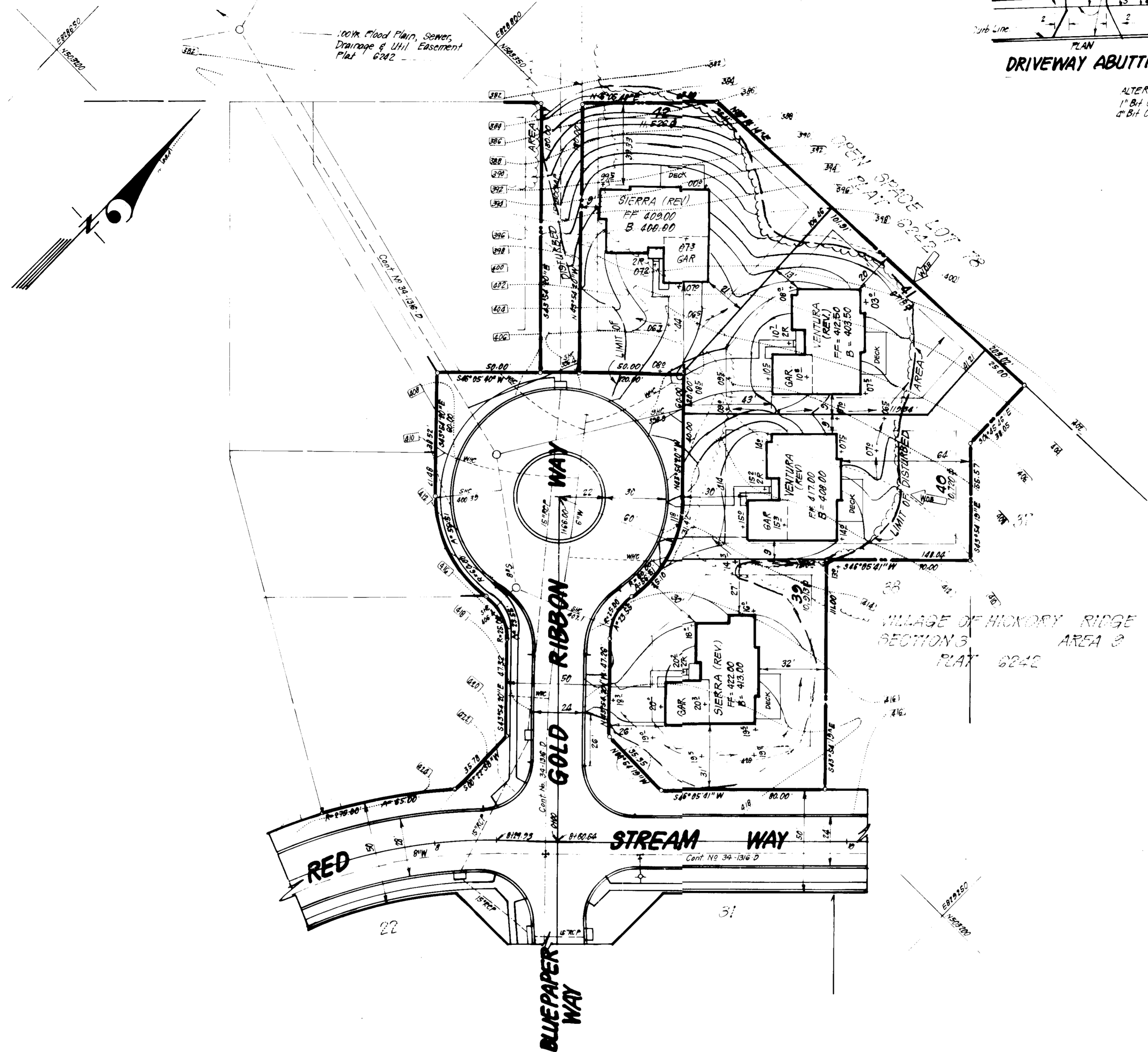
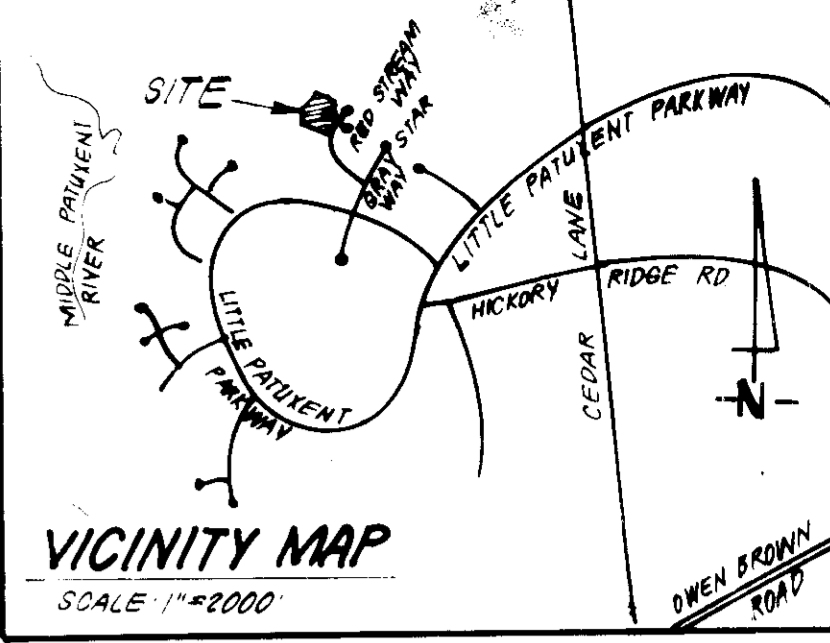


DRIVEWAY ABUTTING MODIFIED CURB & GUTTER*

- ALTERNATE #1
1" Bit Conc Surface
2" Bit Conc Base
- ALTERNATE #2
1.5" Bit Conc Surface
3" Bit Conc Base
3" Gravel
- * See Hb Co Std. R-3.01 for Std 7" Comb. Curb & Gutter necessary on the Curb De. Sae



GENERAL NOTES:

- The land included is zoned New Town
- Coordinates are based upon traverse controls for Columbia, established by Maps Inc in 1965 and Purdum & Veschke in 1968; controls were tied to Maryland Bureau of Control Survey Monuments and to U.S. Coast and Geodetic Survey Monuments in the Columbia Area.
- All Roads are Public & Existing.
- Any damage to county owned rights of way to be corrected at the developer's expense.
- Total area to be included = 0.86 Acres.
- Total number of Lot = 4
- Storm Water Management provided by central Facility in VQHR, Sect 3 Area 1, F. 83-120.

LEGEND:

- Contour Interval 2'
- Existing Contour 1/16"
- Proposed Contour 1/16"
- Spot Elevation +10.5
- Direction of Drainage
- Walk-Out Basement
- Existing Trees to be Saved

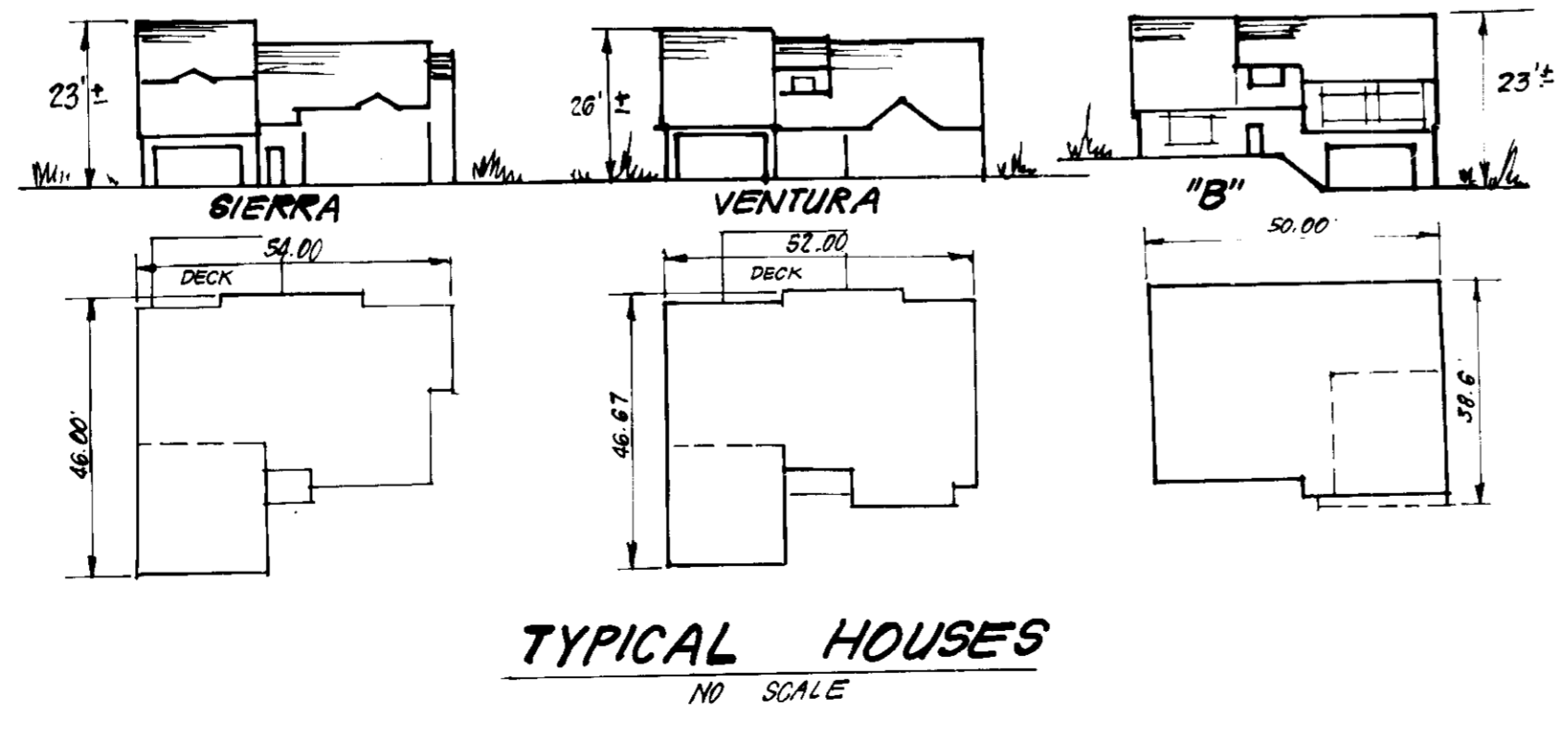
ADDRESS CHART	
LOT NO.	STREET ADDRESS
39	12102 Gold Ribbon Way
40	12106
41	12110
42	12114

SUBDIVISION NAME	COLUMBIA	SECT./AREA	3/9	LOTS	39-42
PLAT #	2242	BLOCK #	4	BLK. DIST	6083.01
WATER CODE	1-15	SEWER CODE	5585.300		

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT
 [Signature] 11-1-85
 HEALTH OFFICER DATE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 [Signature] 11-4-85
 DIRECTOR DATE

APPROVED: DIVISION OF LAND DEVELOPMENT, ZONING ADMINISTRATION, HOWARD COUNTY, MARYLAND
 [Signature] 10-18-85
 DATE



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

DESIGNED BY BAF
 DRAWN BY K/W
 CHECKED BY D/S
 JME
 DATE 9-10-85

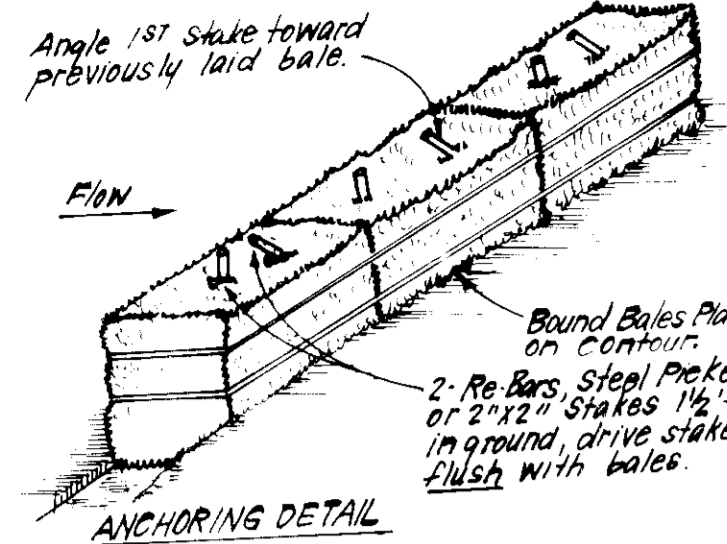
SITE DEVELOPMENT PLAN
 LOTS 39 THRU 42
COLUMBIA
 VILLAGE OF HICKORY RIDGE SECTION 3 AREA 3
 5TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND

FOR: ALLAN HOMES, INC
 P.O. BOX 1059
 COLUMBIA, MD. 21044

SCALE 1"=30'
 DRAWING 10-2
 JOB NO. 85-078
 FILE NO. 85-078-X

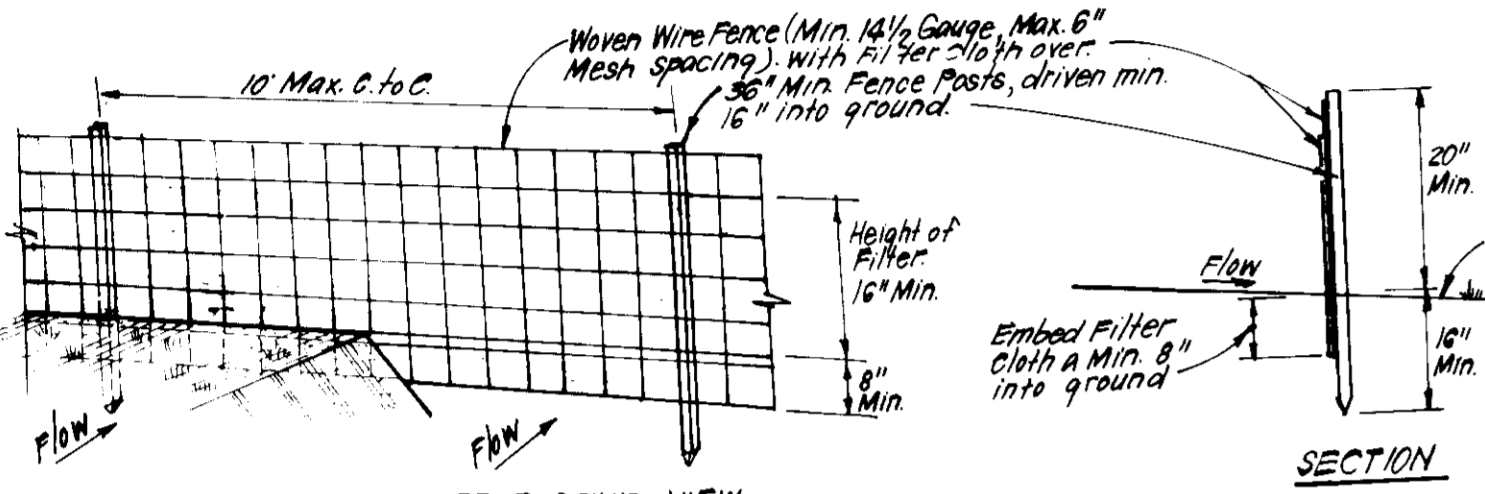
SDP 86-71c





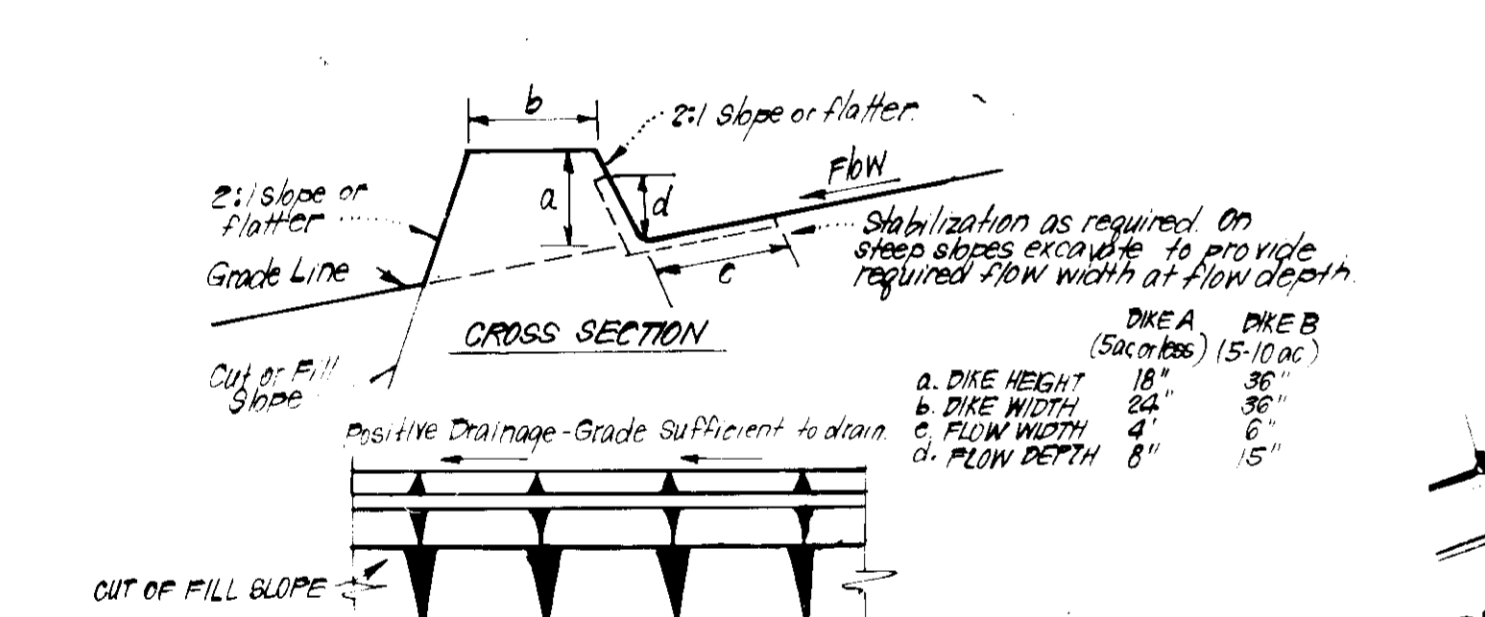
- CONSTRUCTION SPECIFICATIONS:**
- Bales shall be placed at the top of a slope or on the contour and in a row with ends tightly abutting the adjacent bales.
 - Each bale shall be embedded in the soil a min. of 4" and placed so the bindings are horizontal.
 - Bales shall be securely anchored in place by either 2 stakes or re bars driven thru the bale. The 1st stake in each bale shall be driven forward the previously laid bale at an angle to force the bales together. Stakes shall be driven flush with the bale.
 - Inspection shall be frequent and repair replacement shall be made promptly as needed.
 - 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



- CONSTRUCTION SPECIFICATIONS:**
- Woven wire fence to be fastened securely to fence posts with wire ties or staples.
 - Filter cloth to be fastened securely to woven wire fence with ties spaced every 24" at top and mid section.
 - When 2 sections of filter cloth join each other they shall be overlapped by 6" and folded.
 - Maintenance shall be performed as needed and material removed when "bulges" develop in silt fence.
- POSTS:** Steel either Top U Type or 2" Hardwood
FENCE: Woven Wire, 14 1/2 Gauge
MAX. MESH OPENING: 6"
FILTER CLOTH: Filter Cloth, Muzak's 100X, Stabilink, T140N or Appro. equal
PREFABRICATED UNIT: Geotex, Envirofence, or Appro. equal

SILT FENCE DETAIL (S)
NO SCALE



- CONSTRUCTION SPECIFICATIONS:**
- All dikes shall be compacted by earth-moving equipment.
 - All dikes shall have positive drainage to an outlet.
 - Top width may be wider and side slopes may be flatter if desired, to facilitate crossing by construction traffic.
 - Field location should be adjusted, as needed, to utilize a stabilized safe outlet.
 - 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.
 - 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.

TYPE OF TREATMENT	PERCENT GRAZE	FLOW CHANNEL STABILIZATION	
		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/straw or Excelsior, Sod, 2" Stone
3	5.1 - 8.0%	Seed w/straw or Sod, 2" Stone	Lined Rip Rap or 4"-8" Stone
4	8.1 - 20.0%	Lined Rip Rap or 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" in a layer at least 8" thick, pressed into soil.
 C. Approved equivalents can be substituted for any of the above materials.

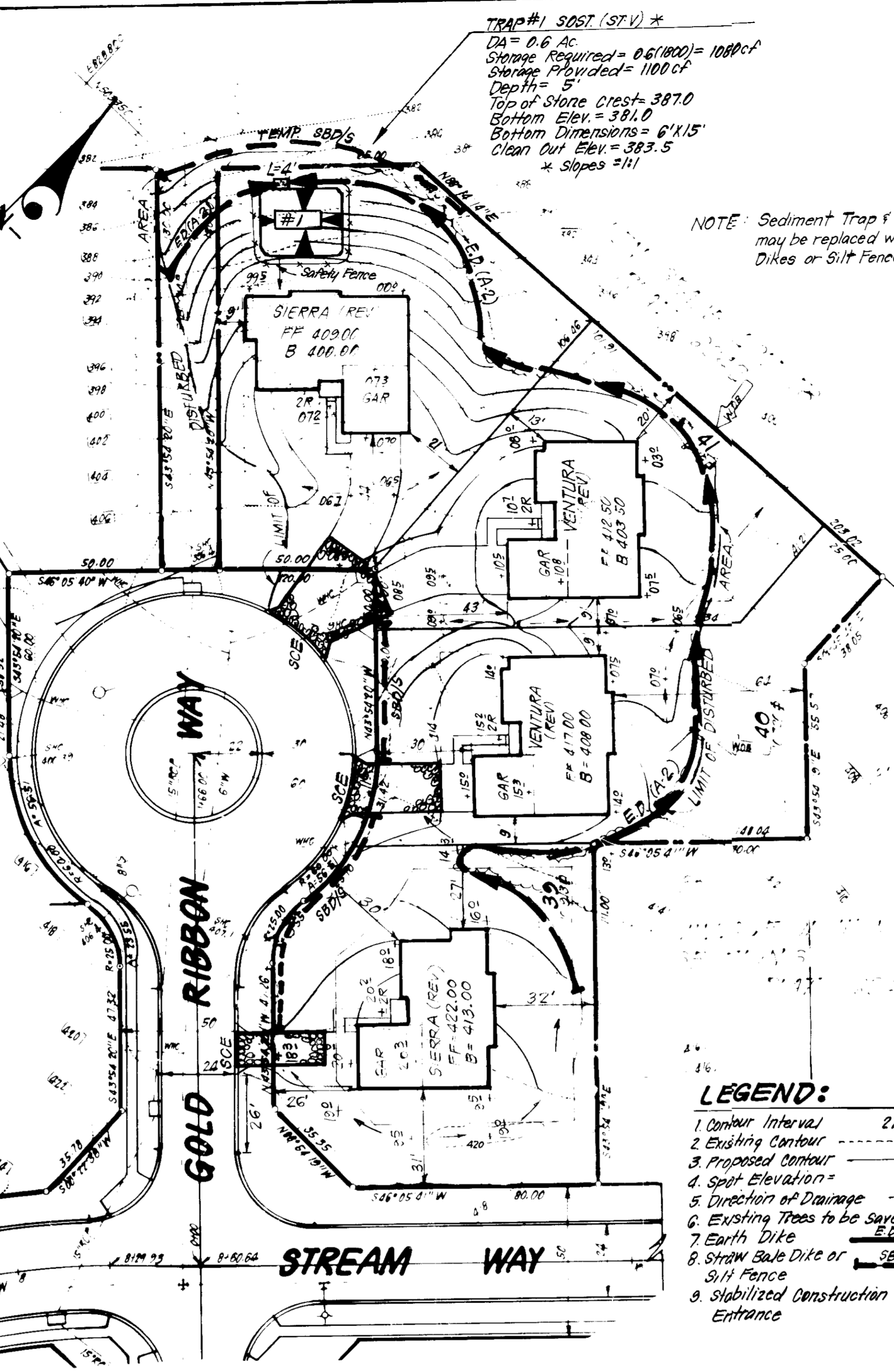
EARTH DIKE DETAIL (E.D.)
NO SCALE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS,
 HOWARD COUNTY HEALTH DEPARTMENT
 Director: *[Signature]* 11-1-85
 DATE: 11-1-85

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING
 DIVISION OF LAND DEVELOPMENT
 ZONING ADMINISTRATOR: *[Signature]*
 DATE: 10-18-85

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE,
 STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 Director: *[Signature]* 10-21-85
 DATE: 10-21-85

APPROVED:
 DIVISION OF LAND DEVELOPMENT
 ZONING ADMINISTRATOR
 HOWARD COUNTY MARYLAND
 DATE: 10-18-85
[Signature]



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:

- Preferred - Apply 2 tons per acre dolomitic limestone (92 lbs/1000 sq ft) and 600 lbs per acre 10-3-10 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).
- 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 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 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 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 reseeds.

TEMPORARY SEEDING NOTES

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

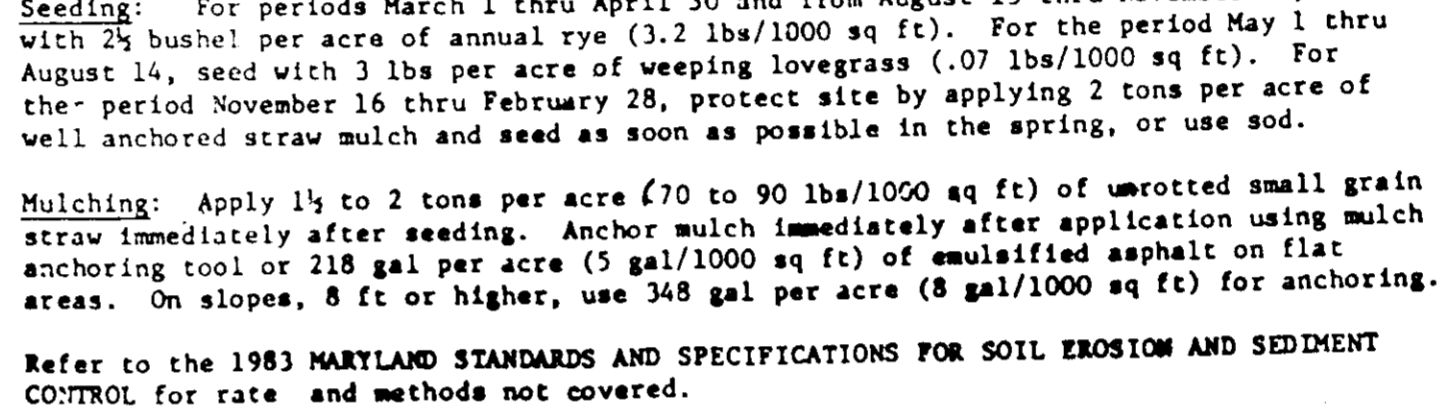
Seedbed Preparation: Loosen upper three inches of soil by raking, disking or other acceptable means before seeding.

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 2 1/2 bushels 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.

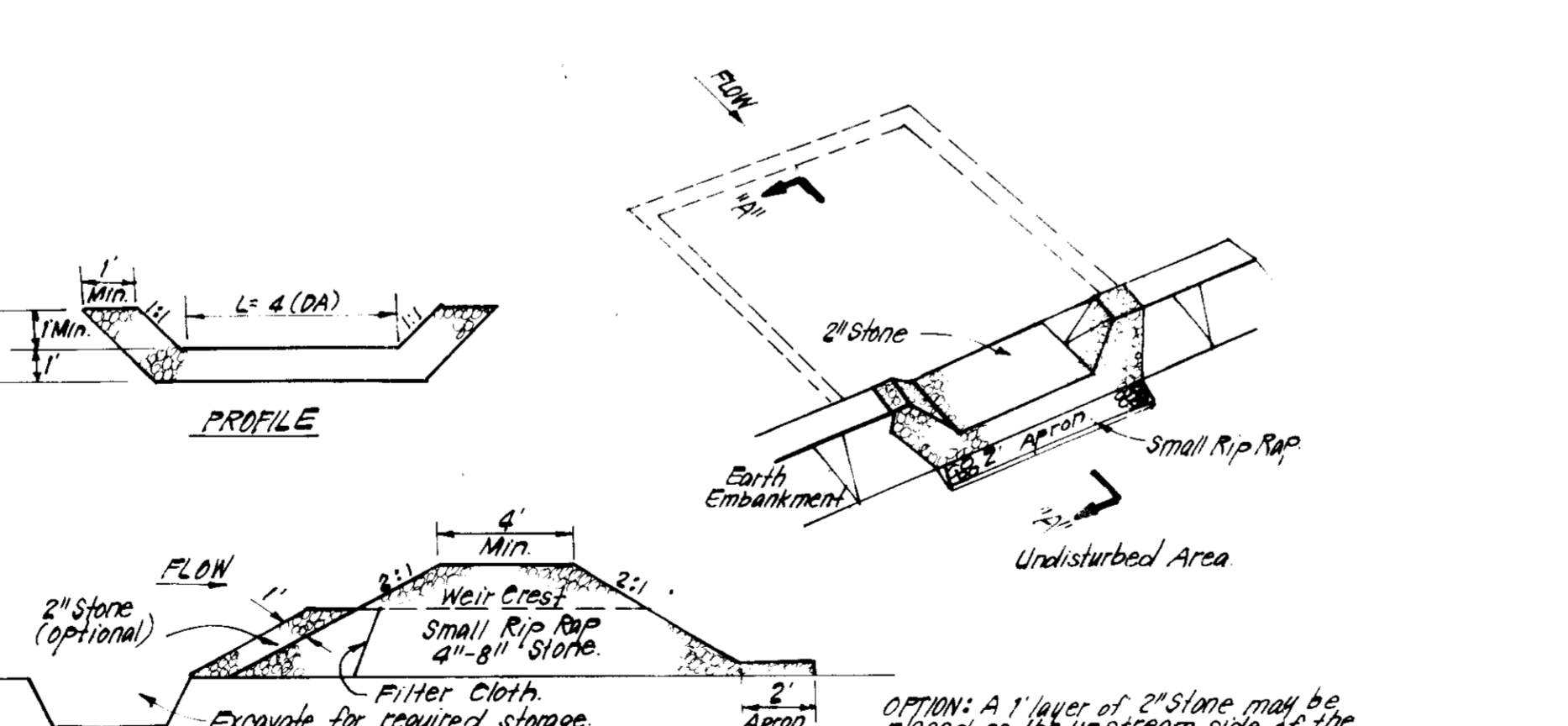
Mulching: Apply 1 1/2 to 2 tons per acre (70 to 90 lbs/1000 sq ft) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gal per acre (5 gal/1000 sq ft) of emulsified asphalt on flat areas. On slopes, 8 ft or higher, use 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:**
- Stone size - Use 2" stone, or reclaimed or recycled concrete equivalent.
 - Length - As required, but not less than 50 feet, except on a single residence lot where a 30 foot minimum length would apply.
 - Thickness - Not less than six (6) inches.
 - Width - Ten (10) foot minimum, but not less than the full width at points where ingress or egress occurs.
 - 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.
 - Surface Water - All surface water flowing or diverted toward construction entrances shall be piped across the entrance. If piping is impractical, a mountable berm with 5:1 slopes will be permitted.
 - 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 construction demand and repair and/or cleanout of any impediments used to trap sediment. All sediment spilled, dropped, washed or tracked onto public rights-of-way must be removed immediately.
 - 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.
 - Periodic inspection and needed maintenance shall be provided after each run.

STABILIZED CONSTRUCTION ENTRANCE (SCE)
NO SCALE



- CONSTRUCTION SPECIFICATIONS:**
- Area under embankment shall be cleared, grubbed and stripped of any vegetation and root mat. The pool area shall be cleared.
 - 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.
 - All cut and fill slopes shall be 2:1 or flatter.
 - The stone used in the outlet shall be small rip rap 4" along with 1" thickness of 2" aggregate placed on the 4:1 slope side on the small rip rap or embedded filter cloth in the rip rap.
 - Sediment shall be removed and area restored to its original dimensions when the sediment has accumulated to 1/2 the design depth of the trap.
 - The structure shall be inspected after each rain and repairs made as needed.
 - Construction operations shall be carried out in such a manner that erosion and water pollution is minimized.
 - 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.) STV.
NO SCALE

LEGEND:

- Contour Interval
- Existing Contour
- Proposed Contour
- Spot Elevation
- Direction of Drainage
- Existing Trees to be Saved
- Earth Dike
- Straw Bale Dike or Silt Fence
- Stabilized Construction Entrance

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: *[Signature]* Date: 10-20-85
 G. Nelson Clark

CLARK • FINEFROCK & SACKETT
 ENGINEERS • PLANNERS • SURVEYORS
 11315 LOCKWOOD DRIVE • SILVER SPRING, MARYLAND 20904 • (301) 593-3500

DESIGNED: CLB
DRAWN: CLB
CHECKED: JME
DATE: 9-18-85

SCALE: 1" = 30'
DRAWING: 2 - 2
JOB NO: 85-078
FILE NO: 85-078-9E

SEDIMENT & EROSION CONTROL PLAN
 LOTS 39 THRU 42
COLUMBIA
 VILLAGE OF HICKORY RIDGE
 SECTION 3 AREA 3
 5TH ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

FOR: ALLAN HOMES, INC
 P.O. BOX 1058
 Columbia, Md. 21044
SDP-86-71.

DATE: 9-18-85