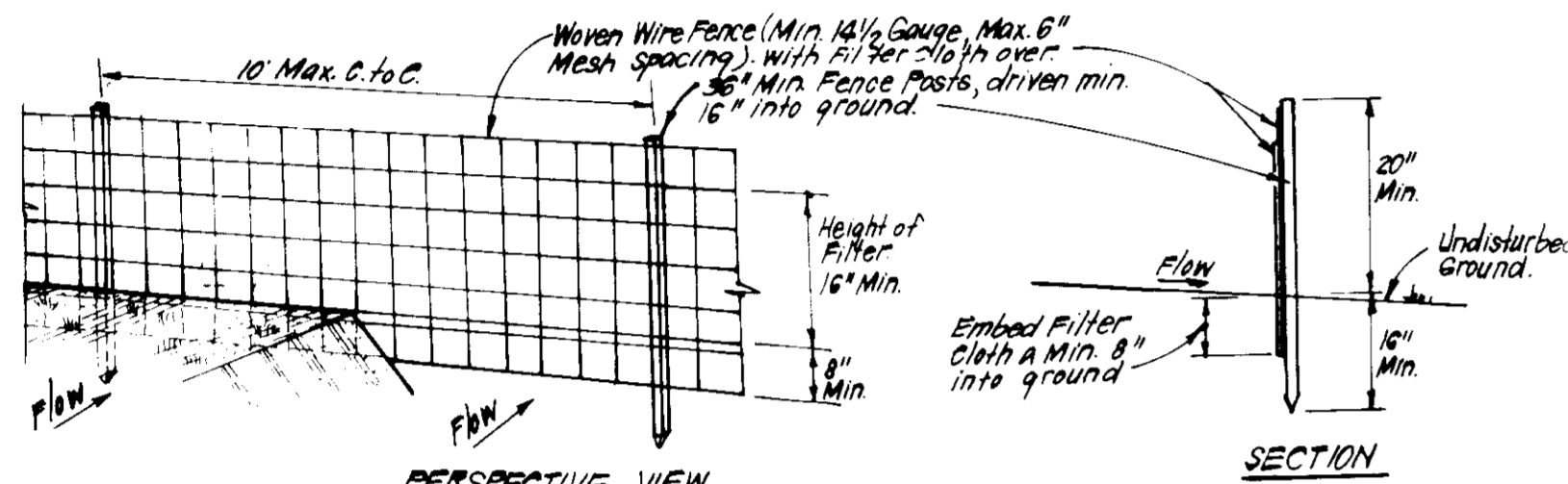


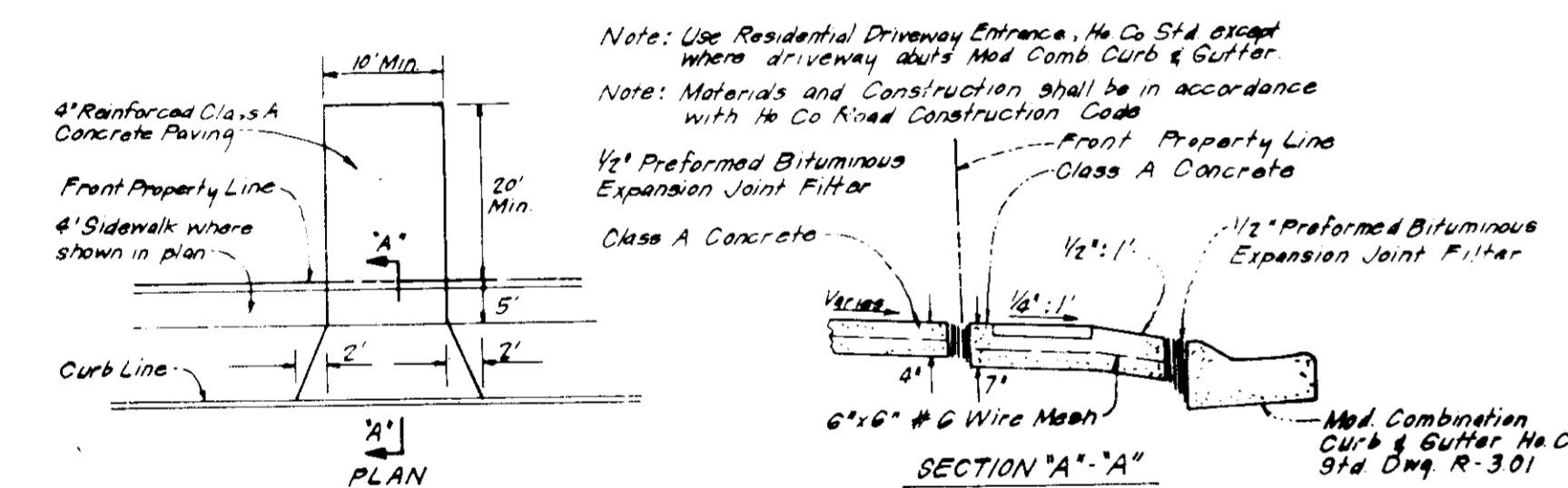
- CONSTRUCTION SPECIFICATIONS:**
- Bales shall be placed at the top of a slope or on the contour and in a row with ends tightly abutting the adjacent bales.
 - Each bale shall be embedded in the soil a min of 4" and placed so the bindings are horizontal.
 - Bales shall be securely anchored in place by either 2 stakes or re-bars driven thru the bale. The 1st stake in each bale shall be driven toward 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 adjoin each other they shall be fastened by 6" and 1/2" staples.
 - 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, 1 1/2 Gauge
MAX. MESH OPENING: 6"
FILTER CLOTH: Filter X, Mirafix 100X, Stabilinks, TIGON or Approv. equ.
PREFABRICATED UNIT: GeoFab, Envirofence, or Approv. equ.

SILT FENCE DETAIL (S)
NO SCALE



DRIVEWAY ABUTTING MODIFIED COMB CURB & GUTTER
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, 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 10-10-10 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 urea-form 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 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 gal per acre (5 gal/1000 sq ft) of emulsified asphalt on flat areas. On slopes 8 ft or higher, use 348 gal/ton 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.

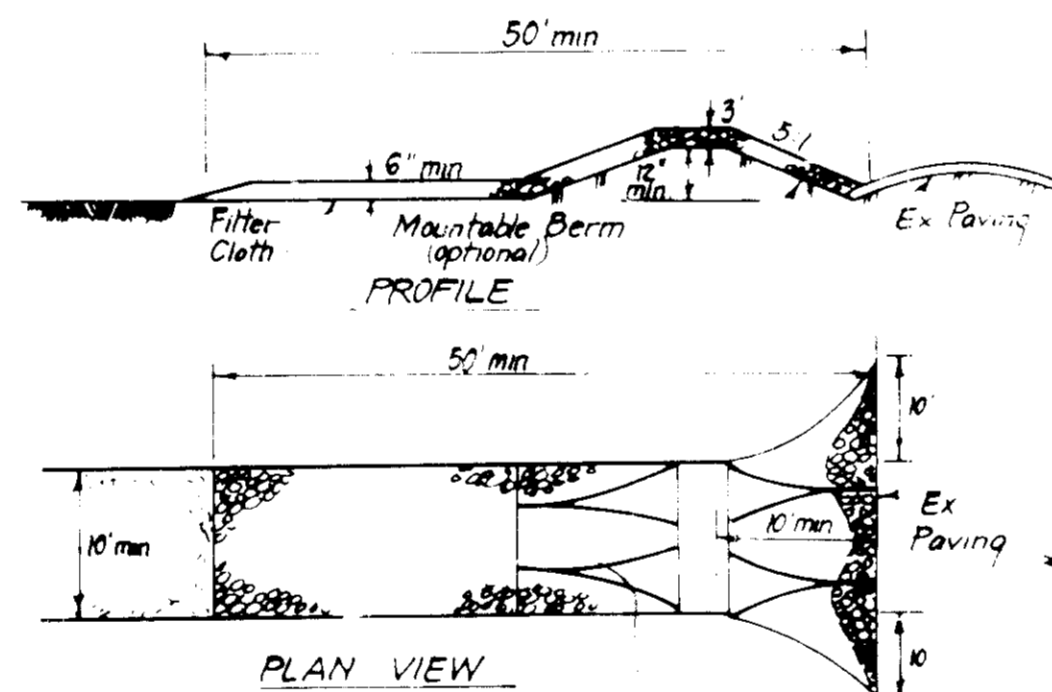
Seedbed Preparation: Loosen upper three inches of soil by raking, disking or other acceptable means before seeding.

Soil Amendment: 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 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 conditions demand and repair and/or cleanup of any measures 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 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 Permitting prior to the start of any construction. (092-2437)
- All sediment control practices are to be installed according to the provisions of this plan and are to be in accordance 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. 51) sod (Sec. 54), temporary seeding (Sec. 50) and mulching (Sec. 52). Temporary stabilization with 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.

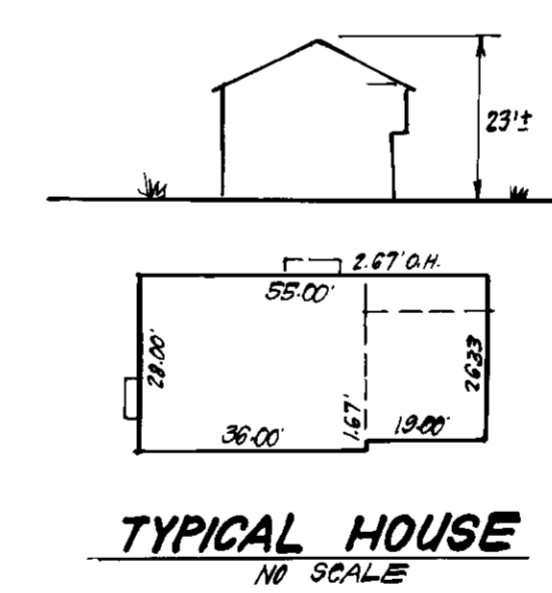
Site Analysis:

Total Area of Site	0.2251 Acres
Area Disturbed	0.1942 Acres
Area to be roofed or paved	0.0531 Acres
Area to be vegetatively stabilized	0.1411 Acres
Total Cut	335 Cu. yds
Total Fill	21 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 DW 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 random, Single lot Sediment Control as shown below shall be implemented. N/A
- 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 140 L.F.

CONSTRUCTION SEQUENCE:

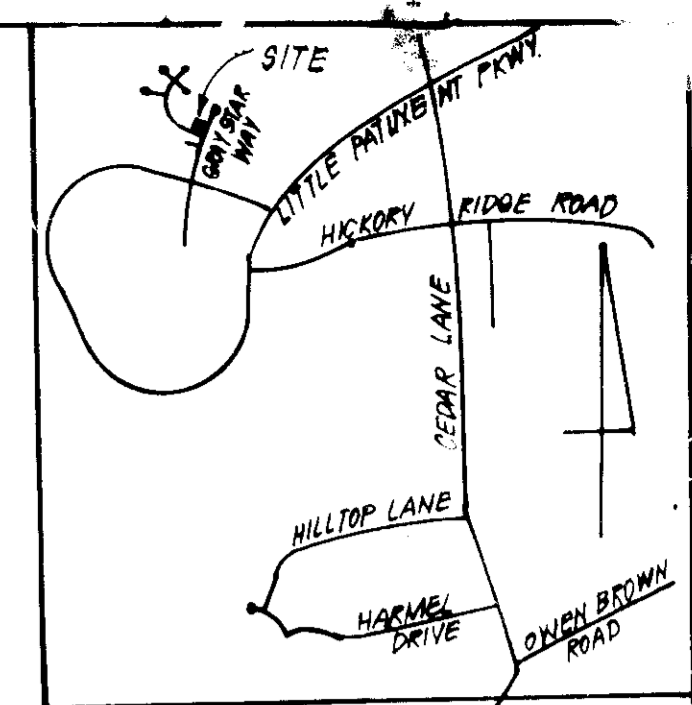
CONSTRUCTION SEQUENCE:	NO. OF DAYS
A. Obtain Grading Permit and Install Sediment and Erosion Control Devices and Stabilize.	5
B. Excavate for Foundations and Rough Grade.	10
C. Construct Structures, Sidewalks and Driveways.	25
D. Final Grade and stabilize in accordance with Stds. & Specs.	10
E. Upon approval of the sediment control inspector, remove sediment and erosion control and stabilize.	5



TYPICAL HOUSE
NO SCALE

GENERAL NOTES

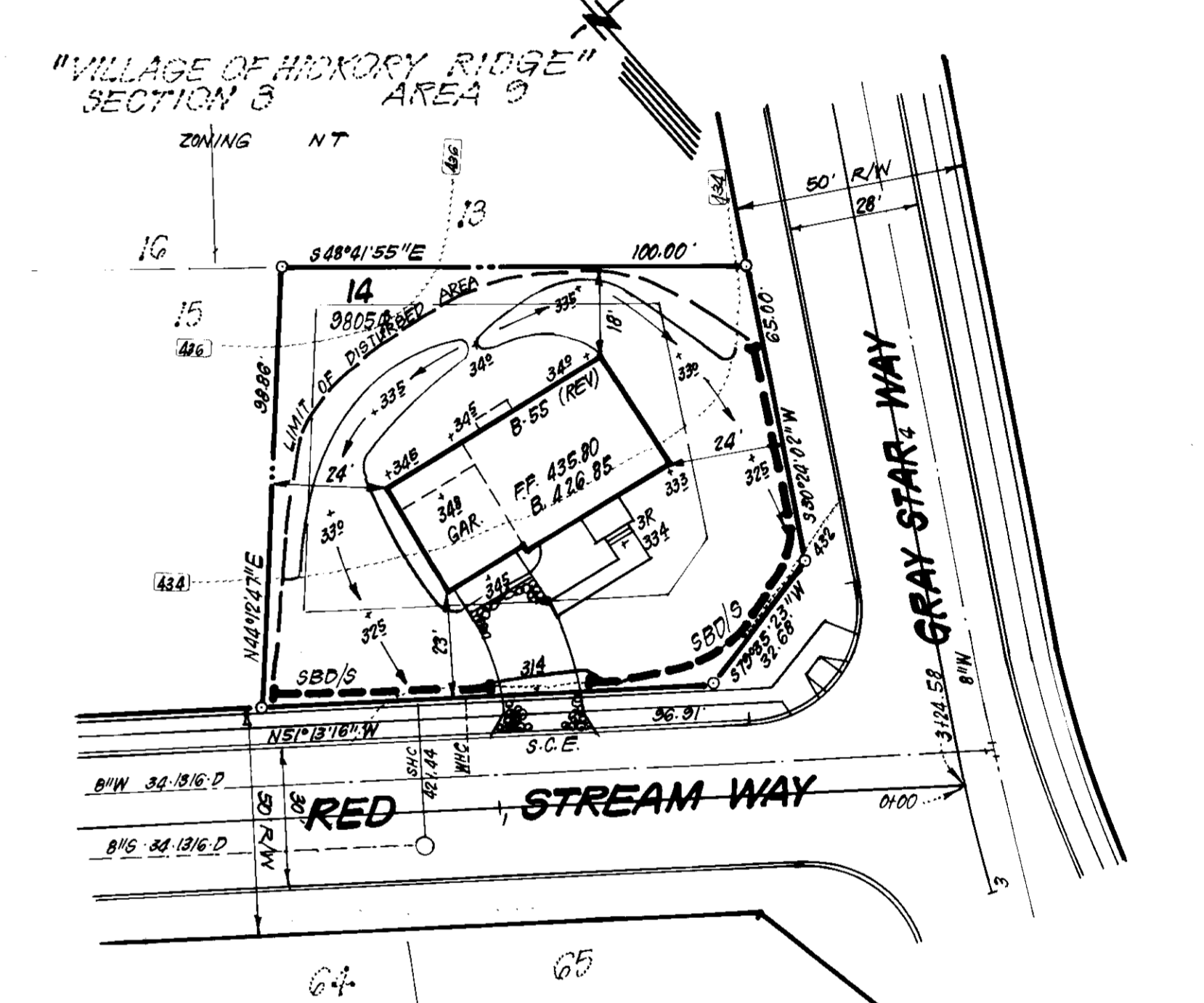
- The land included is zoned's New Town SFMD.
- The lots shown are covered by Final Development Plan Phase 1B, Part II.
- All coordinates shown are based upon traverse controls for Columbia, established by Maps Inc. in 1965 and by Purdon and Schaefer, in 1968. Controls were tied to Md. Bureau of Central Surveys Monuments and to U.S. Coast and Geodetic Boundary Survey Monuments in the Columbia Area.
- The area covered is located on Tax Map #35.
- The total area of this plan is 0.2251 Acres.
- All roadways are public & existing.
- Any damage to county owned rights of way shall be corrected at the Developer's expense.
- Total number of lots: 1
- Storm Water Management provided in Central Facility in Village of Hickory Ridge, Sect. 3 Area 1, F-89-120.



VICINITY MAP
SCALE: 1"=200'

LEGEND

- Contour Interval 2'
- Existing Contour 430'
- Proposed Contour 430'
- Spot Elevation +305'
- Direction of Drainage
- Existing Trees to be retained
- Straw Bale Dike or SBD/SF
- Silt Fence
- Stabilized Construction Entrance



APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT
 COUNTY HEALTH OFFICER
 DATE 8-1-85

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING
 PLANNING DIRECTOR
 DATE 8-2-85

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 DIRECTOR
 DATE 7-21-85

DEVELOPER'S/BUILDER'S CERTIFICATE

"I/We certify that all development and construction will be done according to this plan of development and that for erosion and sediment control and that all required measures will be followed in the construction project will have a Certificate of Approval from a 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: HARRY LI LUNDY
 Date: 6-26-85

Reviewed for Name: S.C.E.
 and meets Technical Requirements
 Signature: Date: 7/29/85
 U.S. Soil Conservation Service

HIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SFMD CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT

Signature: Date: 7/29/85

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: Date: 6-25-85



Lot No.	14	STREET ADDRESS	Red Stream Way
SUBDIVISION NAME	12102	SECTION	3/3
COL. 104R		AREA	14
PLAT NO.	6241	BLDG. AREA	6.95
		5TH	6053.01
WATER CODE	7-15	SEWER CODE	5885300

CLARK · FINEFROCK & SACKETT
 ENGINEERS · PLANNERS · SURVEYORS

11315 LOCKWOOD DRIVE SILVER SPRING, MARYLAND 20904 (301) 583-3400

DESIGNED: JME
 DRAWN: R/W
 CHECKED: JME
 DATE: JUNE 85

SITE DEVELOPMENT PLAN & SEDIMENT & EROSION CONTROL PLAN
 LOT 14
COLUMBIA
 VILLAGE OF HICKORY RIDGE
 SECTION 3 AREA 3
 5TH ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

FOR WILLIAMSBURG BUILDERS
 P.O. Box 1018
 Columbia, Md. 21044

SCALE: 1"=30'
 DRAWING: 10F1
 JOB NO.: 85-072
 FILE NO.: 85-072-X

SDP. 85-236c