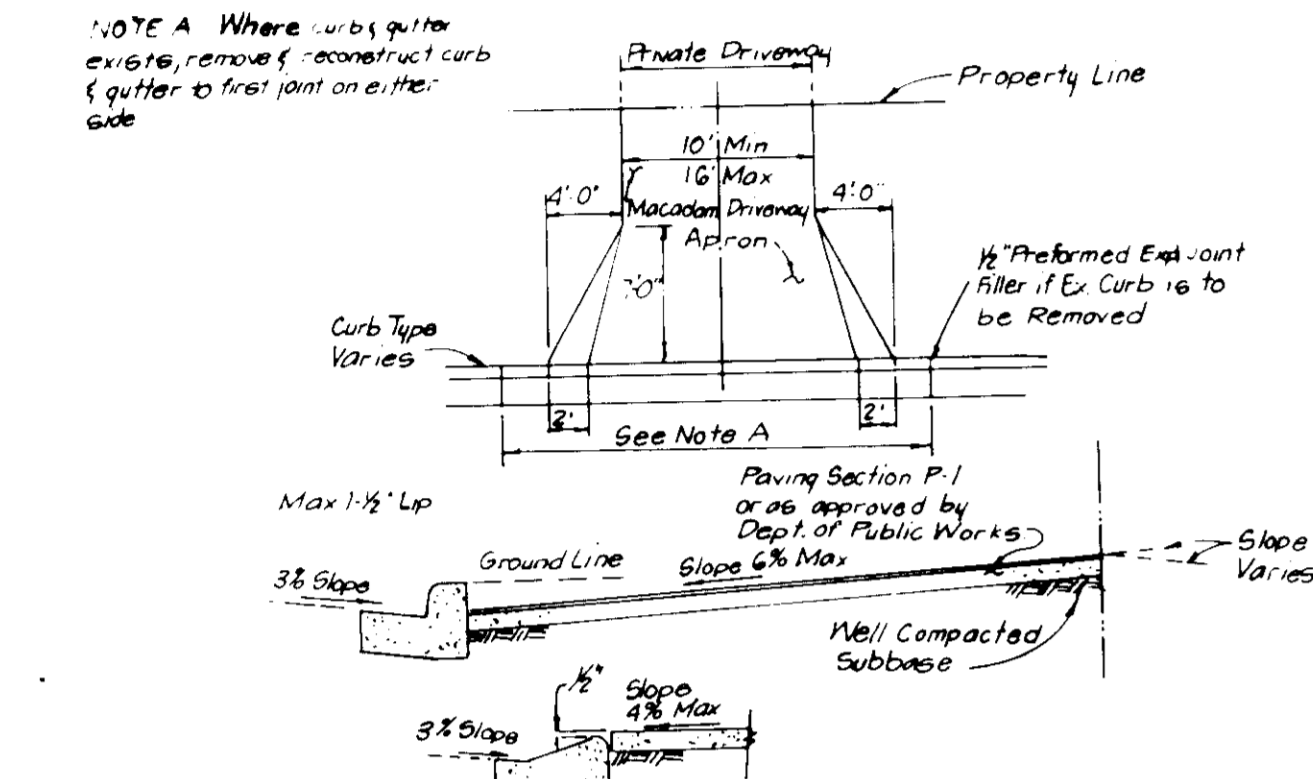
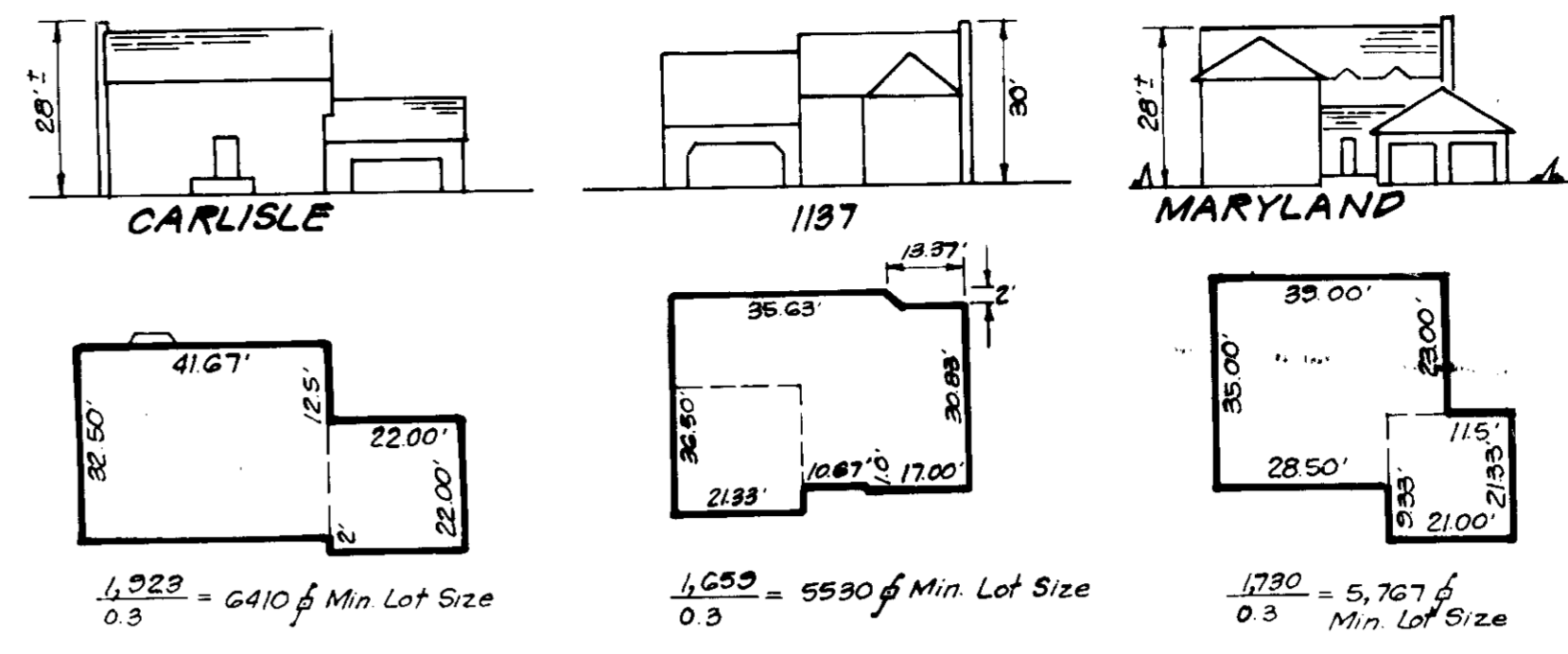


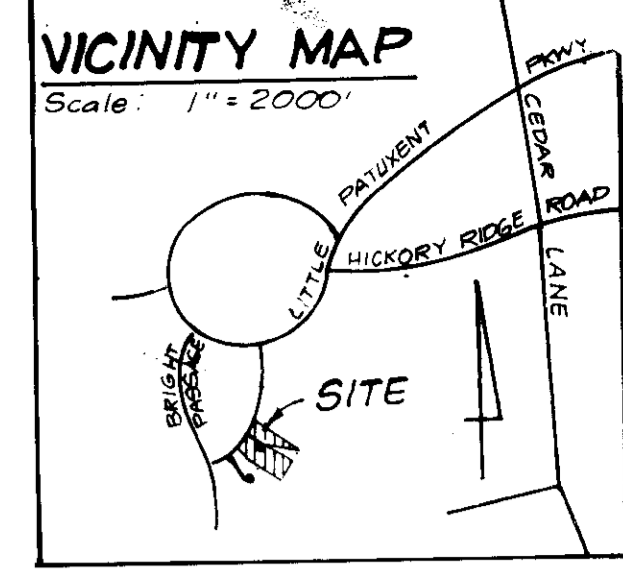
**DRIVEWAY ABUTTING CLOSED SECTION WITH 6\"/>**



**DRIVEWAY ABUTTING CLOSED SECTION WITHOUT CONCRETE SIDEWALK**



**TYPICAL HOUSES**  
SCALE: 1" = 30'  
Note: All Units Have 8" Eaves Front & Rear



- GENERAL NOTES:**
- The land included is zoned: New Town SFMD.
  - Coordinates established by Maps, Inc. in 1965 and Purdum and Jeschke in 1968, which controls were tied to the MD Bureau of Control Surveys monuments and to US 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: 1.85 Acres
  - Total Number of Lots: 6
  - The property shown hereon is zoned New Town SFMD. Maximum building coverage is 50% per lot.
  - Reference Final Development Plan Phase 1B, Part V.
  - The contractor or developer shall contact the construction inspection Survey Division, 24 hours in advance of commencement of work at 792-2630.

- LEGEND:**
- Contour Interval: 2 Ft
  - Existing Contour: (dashed line)
  - Proposed Contour: (solid line)
  - Spot Elevation: (+105)
  - Direction of Drainage: (arrow)
  - Existing Trees to be Saved: (circle with cross)
  - Walk-Out Basement: (square with cross)

- SPECIAL NOTES:**
- Approved road construction plans shall be used for all Public Utilities.
  - Public Water & Sewer shown for reference only. For more detailed information see water and sewer plans Contract NE 34-1492-D.
  - The water & sewer house connections not included in a Developers Agreement shall conform to Howard County Plumbing Code. The on-site WHC shall be 1" copper and the SHC shall be 4" iron.
  - Stormwater Management provided for in the Village of Hickory Ridge, Section 3, Area 1, F-88-120.

- Building Restriction Lines**
- Front: 20' Min. When 50' Right-of-Way
  - Side: 7 1/2' Min.
  - Rear: 7 1/2' Min.

LOT NO.	STREET	ADDRESS
78	DARK FIRE WAY	11645
79	BRIDGEHEAD COURT	11636
80	"	11610
81	"	11609
82	"	11605
83	DARK FIRE WAY	11637

SUBDIVISION NAME	SECTION	AREA	LOTS
COLUMBIA	3/13		78-83
VILLAGE OF HICKORY RIDGE			
PLAT #	BLOCK #	ZONE	TAX. ZONE
7051	10	6.F.M.D.	35
ELEC. DIST.		CENSUS	
5 <sup>TH</sup>		6053.01	
WATER CODE		SEWER CODE	
E 27		6502000	

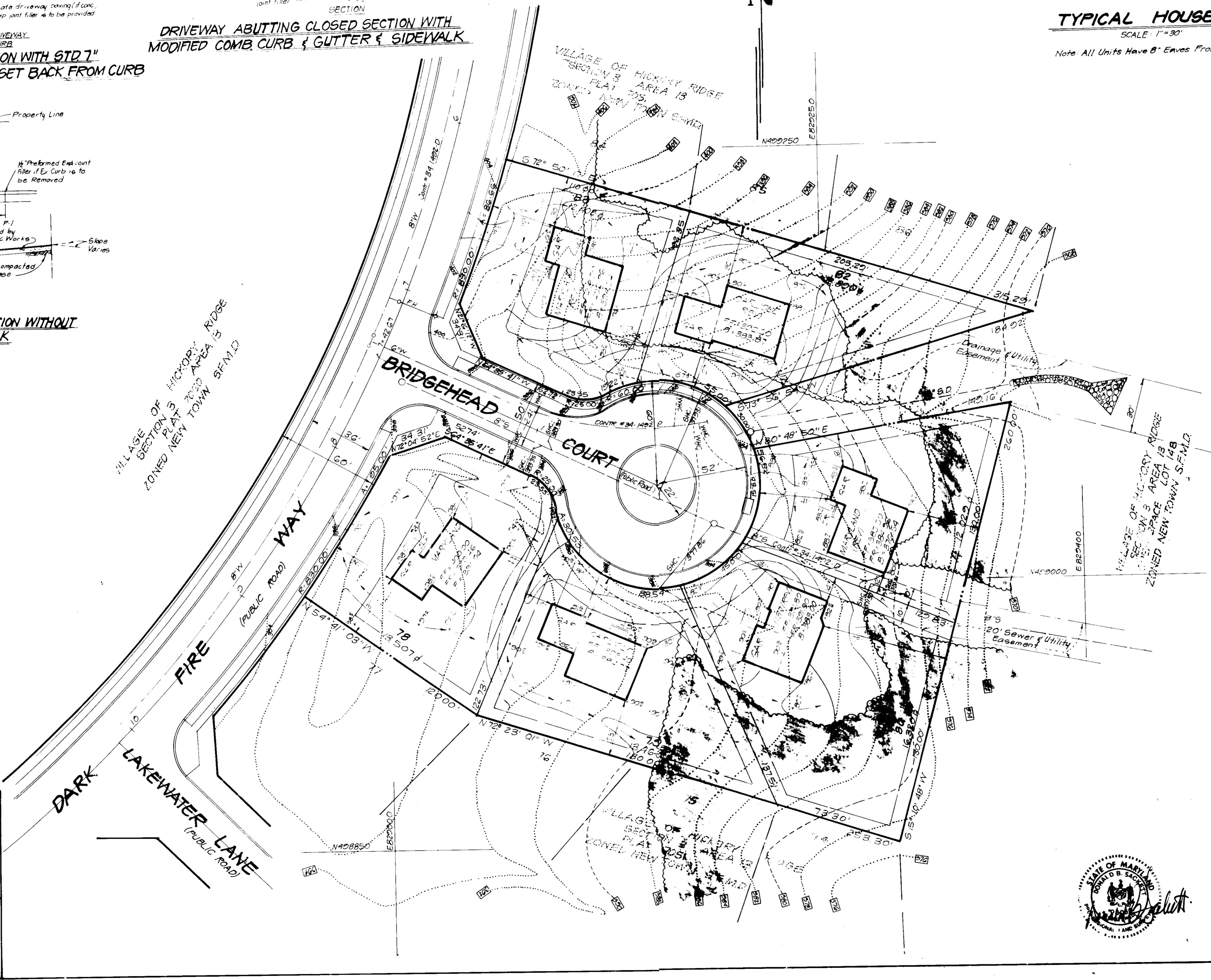
5-7-87  
*[Signature]*

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS.  
HOWARD COUNTY HEALTH DEPARTMENT  
DATE: 6-3-87

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING  
DATE: 6-5-87

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.  
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
DATE: 6-4-87

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.  
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
DATE: 6-1-87



**CLARK · FINEFROCK & SACKETT**  
ENGINEERS · PLANNERS · SURVEYORS

7195 MINISTREL WAY · COLUMBIA, MD 21045 · (301) 381-7500 BALT (301) 621-8100 WASH

DESIGNED: CMS  
DRAWN: VHL  
CHECKED: CMS  
DATE: APRIL 1987

SITE DEVELOPMENT PLAN  
LOTS 78 THRU 83  
**COLUMBIA**  
VILLAGE OF HICKORY RIDGE  
SECTION 3 AREA 13  
5<sup>TH</sup> ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND

FOR CONSOLIDATED HOME BUILDERS INC  
8050 Route 108  
Columbia MD 21045

SCALE: 1" = 30'  
DRAWING: 1 of 2  
JOB NO.: 87-002  
FILE NO.: 87-002

SDP-87-199c



**SEDIMENT CONTROL NOTES**

- 1) 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. (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 redistribution, permanent or temporary stabilization shall be completed within: a) 7 calendar days for all perimeter sediment control structures, dikes, perimeter slopes and all control 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 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 seeding (Sec. 31) and (Sec. 50), temporary seeding (Sec. 50) and mulching (Sec. 51). 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	1.851 Acres
Area Disturbed	1.851 Acres
Area to be roofed or paved	2.844 Acres
Area to be vegetatively stabilized	0.380 Acres
Total Cut	2020 Cu. Yds
Total Fill	2020 Cu. Yds
Off-site 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 DWP approval 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 "hard-hat" basins, 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). N/A
- 13) The total amount of straw bale dikes/silt fence equals 460 L.P.

**PERMANENT SEEDING NOTES**

Apply to graded or cleared areas not subject to immediate further disturbance where a permanent long-lived vegetative cover is needed.

**Seeding 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. 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 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 14 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 straw anchoring tool or 218 gallons per acre (5 gal/1000 sq ft) of emulsified asphalt on flat areas. On slopes, 8 ft 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 redistributed where a short-term vegetative cover is needed.

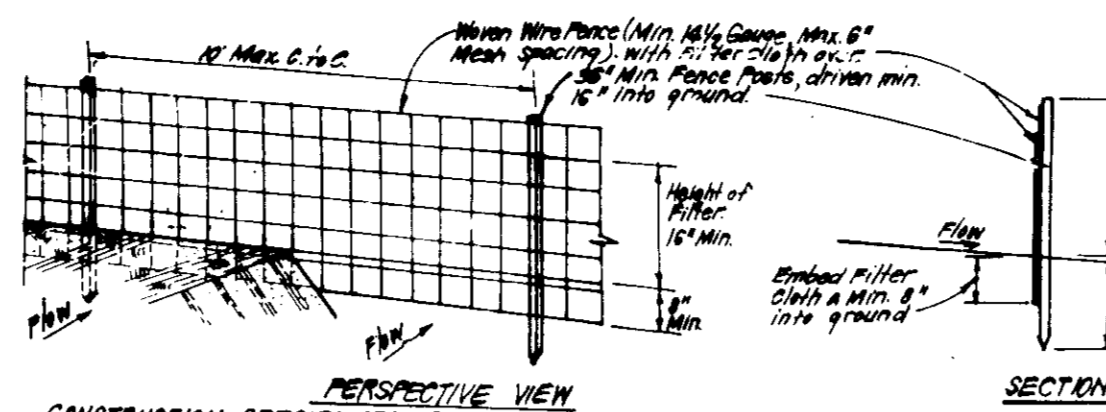
**Seeding Preparation:** Loosen upper three inches of soil by raking, disking or other acceptable means before seeding.

**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 24 bushel per acre of annual ryegrass (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 14 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 straw anchoring tool or 218 gallons per acre (5 gal/1000 sq ft) of emulsified asphalt on flat areas. On slopes, 8 ft or higher, use 348 gallons 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:**

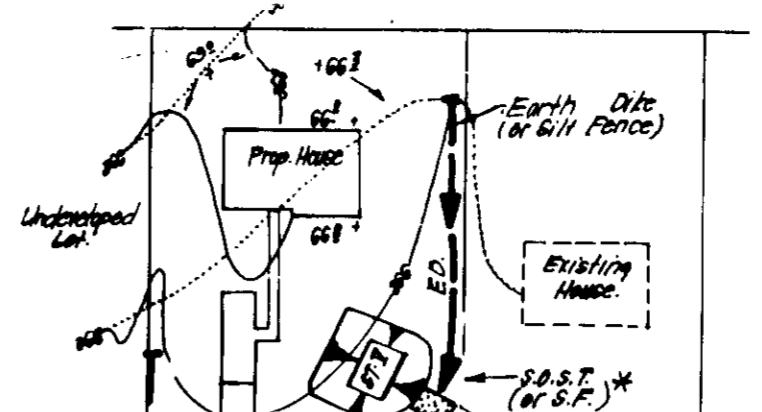
1. Wire fence to be fastened securely to fence posts with wire ties or staples.
2. Fabric filter cloth to be fastened securely to wire fence with ties spaced every 6" or less and sections.
3. When 2 sections of fabric filter cloth are used, they shall be overlapped by 6" and "stapled".
4. Fabric filter cloth to be removed when "mud-cakes" develop in silt fence.

**POSTS:** Steel, either T or U Type or Fence: Heavy Wire, 1/4" Dia. 6" Max. Mesh Opening.

**FILTER CLOTH:** Filter Cloth, 1/2" Dia. Mesh Opening, 1/2" Thick, 1/2" Dia. Mesh Opening.

**PREFABRICATED UNIT:** Galvalume, 6" x 6" x 1/2" Thick.

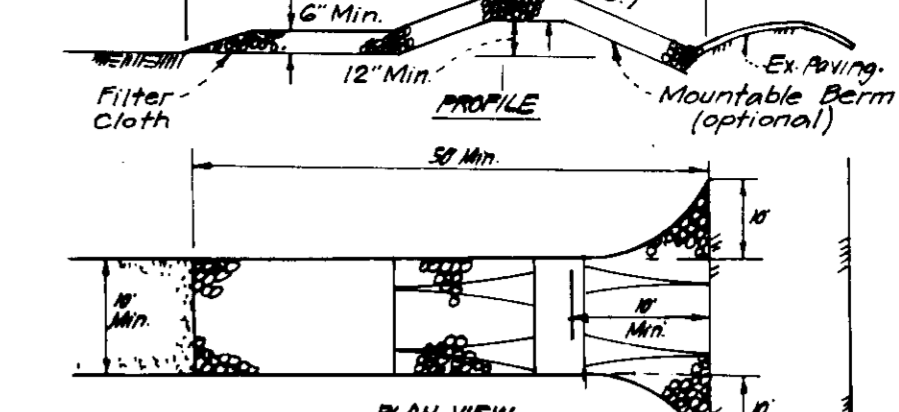
**SILT FENCE DETAIL (S)**  
NO SCALE



**SINGLE LOT SEDIMENT CONTROL PLAN**  
NO SCALE

**TRAP #1 SOST (ST I)**

Drainage Area: 0.6 Ac.  
Storage Req'd: 0.6 x 1000 = 1080 cu ft  
Storage Provided: 1080 cu ft  
Depth: 4'  
Top of Stone Crest: 378.0  
Bottom Elev: 374.0  
Cleanout Elev: 376.0  
Bottom Dim: 5' x 20'  
1:1 Side Slopes in cut



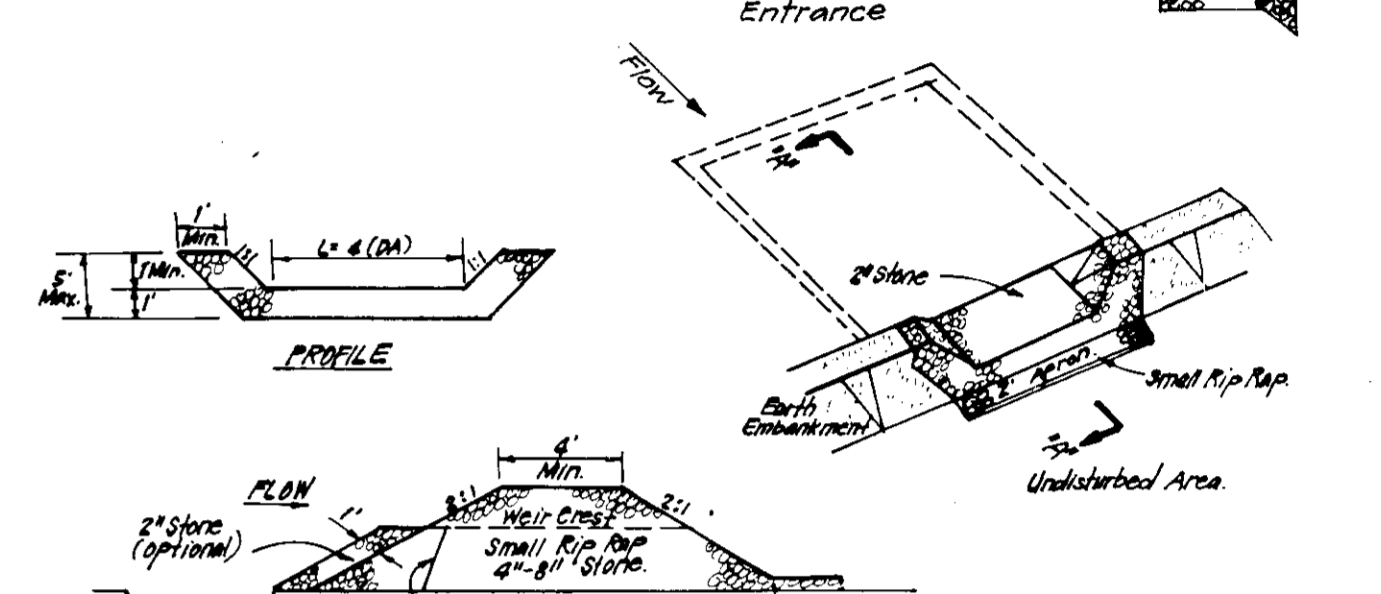
**CONSTRUCTION SPECIFICATIONS:**

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 slight residence lot) where a 1/2" mesh filter cloth is required.
3. Thickness - Not less than 6".
4. Width - Top flat min, but not less than the full width at point where ingress of water occurs.
5. Filter Cloth - Will be placed over the entire area prior to placing of stone. Filter will not be required on a slight residence lot.
6. Surface Water - All surface water flowing or directed toward construction entrances shall be piped across the entrance.
7. Maintenance - The entrance shall be maintained in a condition which will prevent tracking of mud, or other debris, onto the roadway. This may require periodic top dressing with additional stone as conditions demand. Debris, mud, or other debris which has tracked onto the roadway shall be removed immediately.
8. Washdown - Washdown of any material tracked onto the roadway shall be done immediately. Washdown shall be done in a manner which will not cause any material to be tracked onto the roadway.
9. Structure - The structure shall be inspected after each rain and repairs made as needed. Construction entrances shall be carried out in such a manner that erosion and water pollution is minimized as required.
10. The structure shall be removed and the area stabilized when the drainage area has been properly stabilized.

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

**LEGEND**

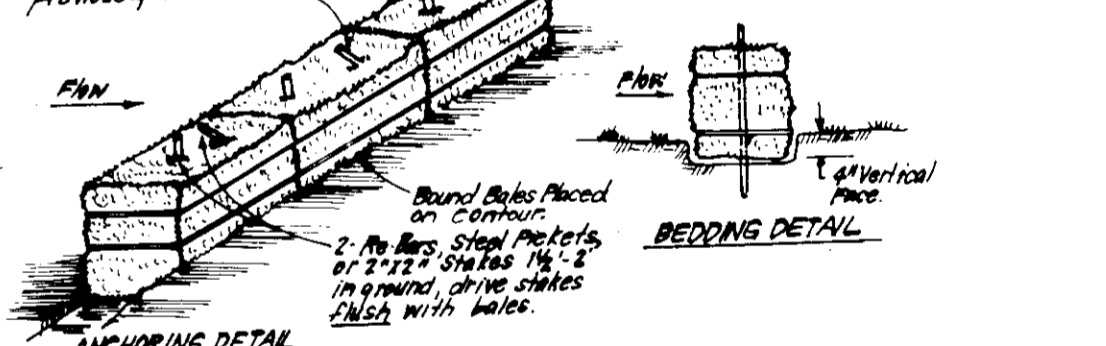
Contour Interval	2 FT
Existing Contour	---
Proposed Contour	---
Spot Elevation	+10.5
Direction of Drainage	---
Existing Trees to be Saved	---
Walk-Out Basement	---
Straw Bale Dike/Silt Fence	---
Earth Dike	---
Stabilized Construction Entrance	---



**CONSTRUCTION SPECIFICATIONS:**

1. Area under embankment shall be cleared, grubbed and stripped of any vegetation and root mass. The area shall be compacted.
2. The fill material for the embankment shall be free of rocks and other heavy vegetation as well as over-sized debris, rocks, organic material or other objectionable material. The embankment shall be compacted by the contractor with vibratory or other pneumatic rollers.
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" x 4" along with 1" thickness of 2" aggregate placed on the up-slope 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 the top of the trap.
6. The structure shall be inspected after each rain and repairs made as needed.
7. Construction entrances shall be carried out in such a manner that erosion and water pollution is minimized as required.
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. Bales shall be placed on a 4" 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 minimum of 4" and placed so the bindings are horizontal.
3. Bales shall be securely anchored in place with either 2 stakes or 2 rebar driven thru the bale. The 1/2" 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. Structure 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 SEQUENCE:**

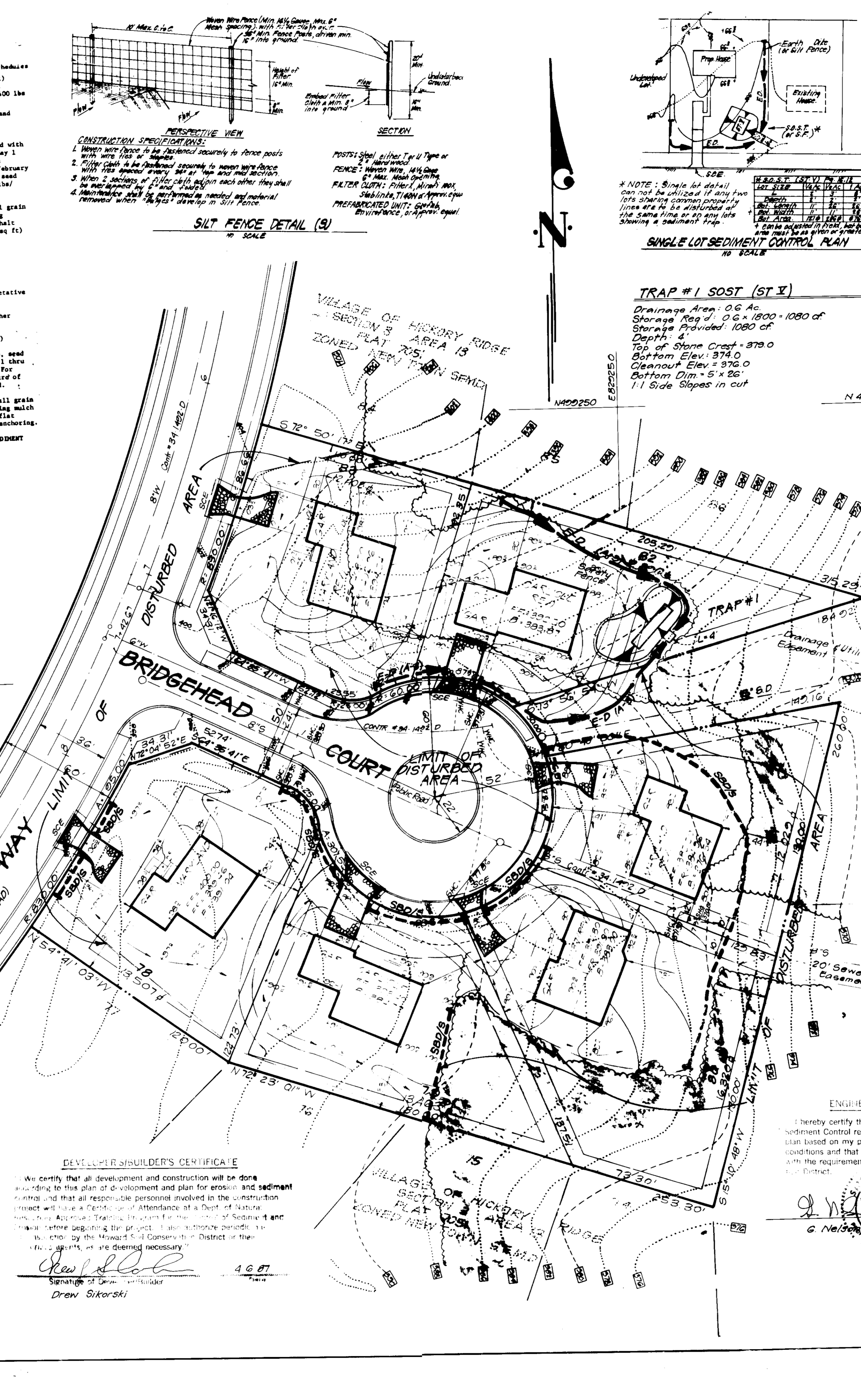
A. Obtain Grading permit and Install Sediment and Erosion Control Devices and Stabilize.	2
B. Excavate for Foundations and Rough Grade of Temporarily Stabilize.	30
C. Construct Structures, Sidewalks and Driveways.	120
D. Final Grade and stabilize in accordance with Stds. & Specs.	30
E. Upon approval of the sediment control inspector, remove sediment and erosion controls and stabilize.	14

Reviewed for: **HOWARD** S.C.D.  
Name: **James M. Lulu** 5-28-87  
Signature: *James M. Lulu* Date: *5-28-87*  
U.S. Soil Conservation Service

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

*Stephen L. Lulu* 9/23/87  
Approved Date

VILLAGE OF HICKORY RIDGE SECTION 3 AREA 13 ZONED NEW TOWN S.F.M.D.



**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* 4-6-87  
Date

**DESIGNER'S CERTIFICATE**

We certify that all development and construction will be done in accordance with this plan of development and plan for erosion and sediment control and that all responsible personnel involved in the construction project will have a Certificate of Attendance at a District of Habitat Construction Approved Training Program for the District of Sediment and Erosion Control before beginning the project. This certificate periodic training shall be provided by the Howard Soil Conservation District at their discretion, as it is deemed necessary.

*Drew Sikorski* 4-6-87  
Signature of Designer Date

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

*James M. Lulu* 6-3-87  
DATE

**APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING**

*James M. Lulu* 6-5-87  
DATE

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

*James M. Lulu* 6-1-87  
DATE

**CLARK · FINEFROCK & SACKETT**  
ENGINEERS · PLANNERS · SURVEYORS  
7185 MINSTREL WAY · COLUMBIA, MD 21045 · (301) 981-7500 BALTIMORE, MD (301) 621-0100 WASH.

DESIGNED	JLS	SCALE	1" = 30'
DRAWN	VHL	DRAWING	2 of 2
CHECKED	JLS	JOB NO.	87-002
DATE	APRIL 1987	FILE NO.	87.002.52

**SEDIMENT & EROSION CONTROL PLAN**  
LOTS 7B THRU B3  
**COLUMBIA**  
VILLAGE OF HICKORY RIDGE  
SECTION 3 AREA 13  
5TH ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND

FOR CONSOLIDATED HOME BUILDERS INC  
3050 Route 108  
Columbia, MD 21045

**SDP-87-199**