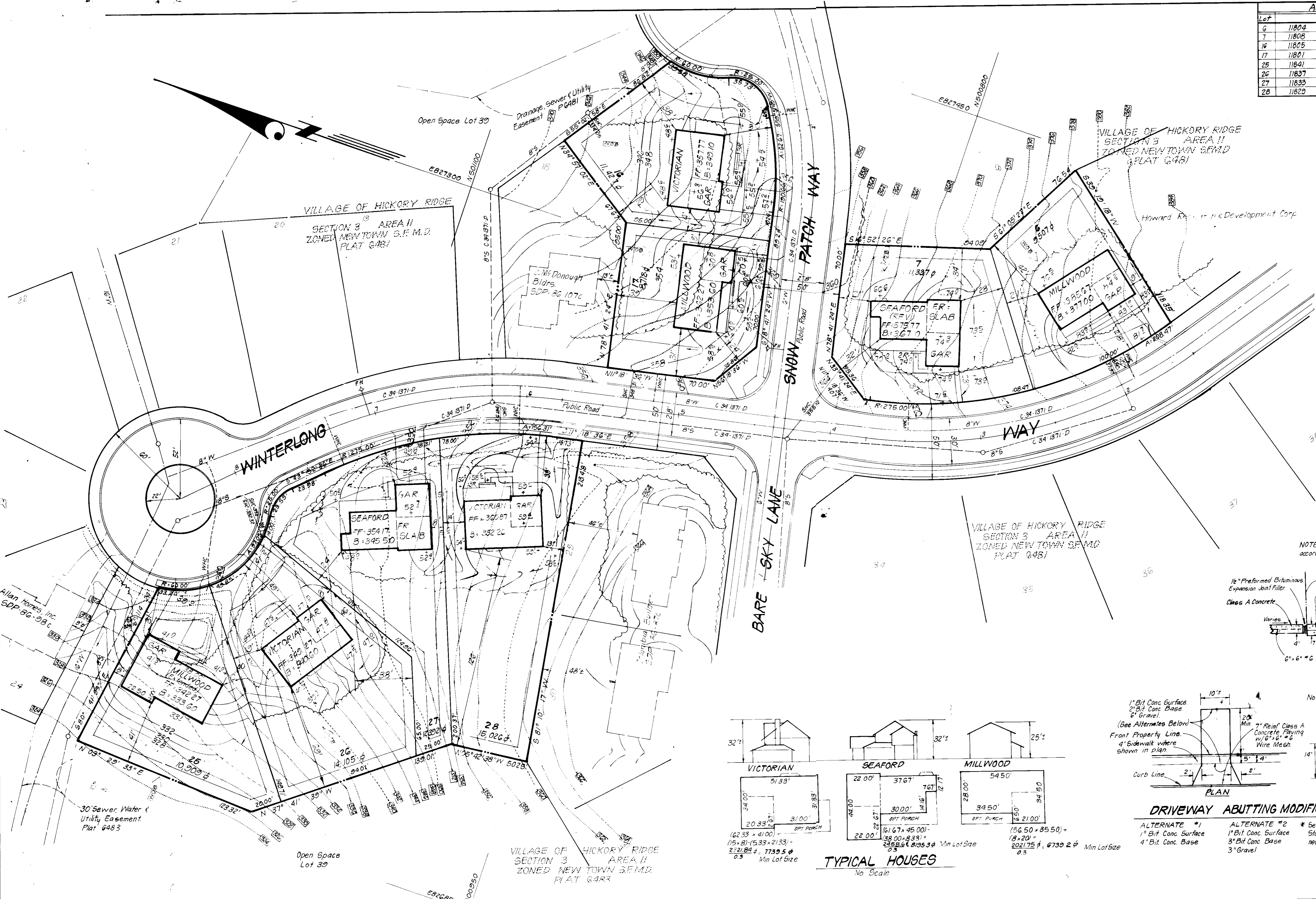
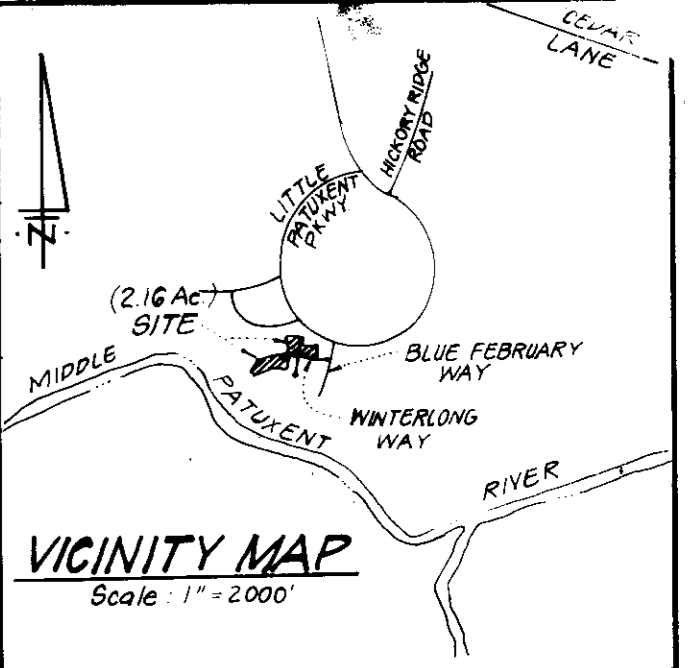


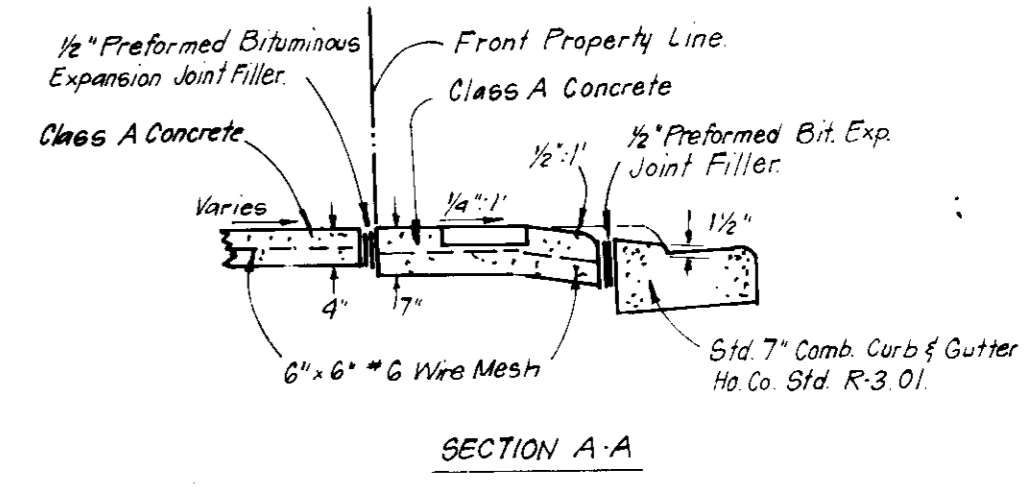
ADDRESS CHART	
Lot	Street Address
6	11804 Winterlong Way
7	11808 " " "
16	11805 Snow Patch Way
17	11801 " " "
25	11841 Winterlong Way
26	11837 " " "
27	11833 " " "
28	11829 " " "



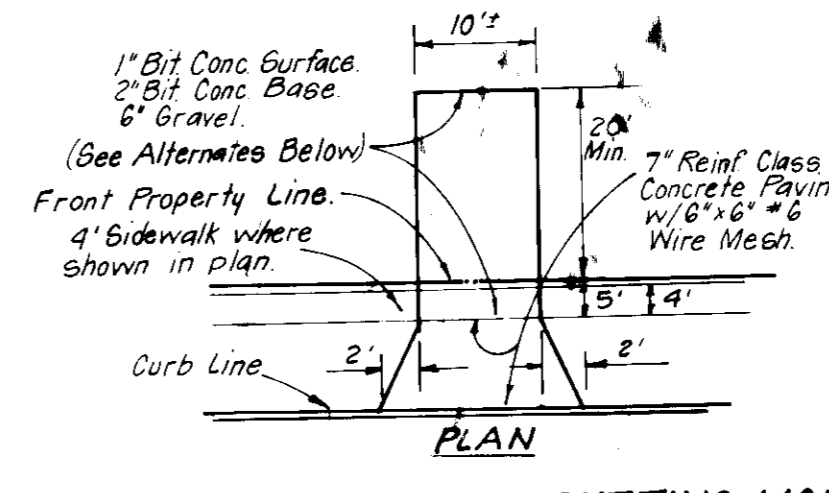
- GENERAL NOTES:**
- The land included in this plan is zoned New Town SFMD. See approved FDP Phase 181 Part III for zoning criteria.
  - Coordinates are based upon traverse controls for Columbia established by Maps, Inc. in 1965 and Purdum & Jeschke in 1968, which controls were tied to the Maryland Bureau of Control 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 included: 2.16 Acres.
  - Total number of lots: 8.
  - Storm Water Management provided for in central facility in Village of Hickory Ridge Sect. 3 Area I, Approved plans F-83-120.

- LEGEND:**
- Contour Interval: 2 Ft
  - Existing Contour: (dashed line)
  - Proposed Contour: (solid line)
  - Spot Elevation: +20.5
  - Direction of Drainage: (arrow)
  - Existing trees to be saved: (circle with 'X')
  - Walk Out Basement: (shaded area)

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

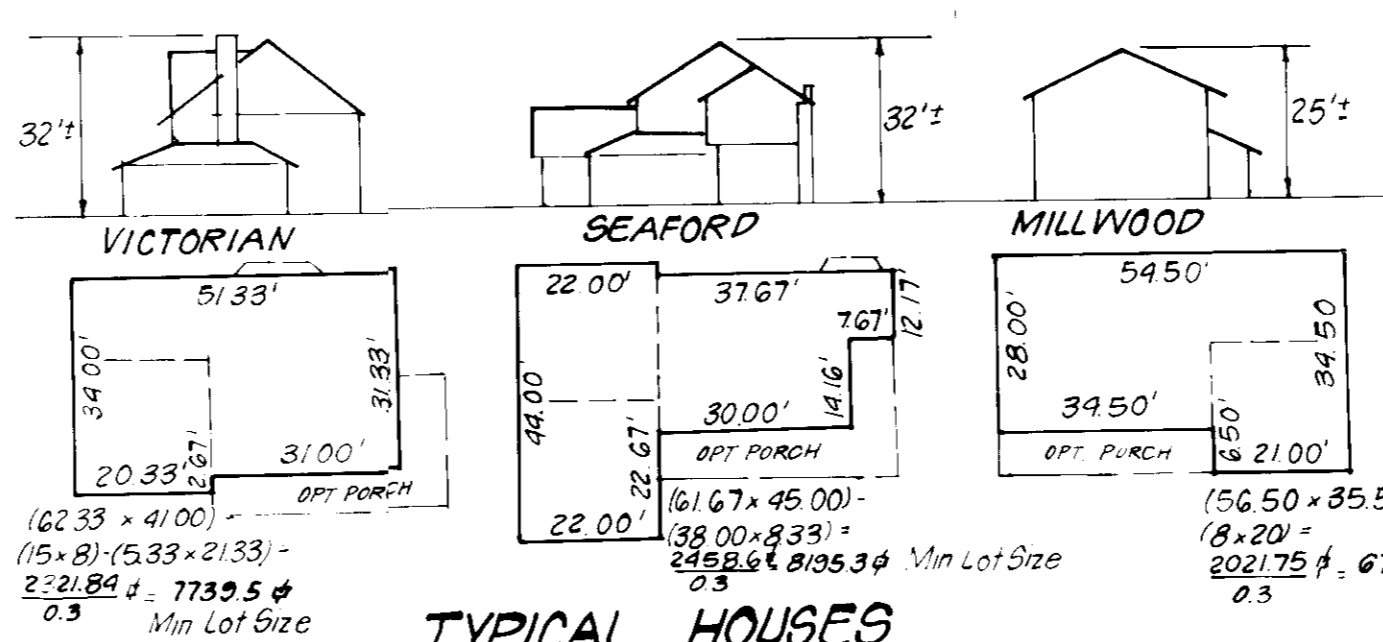


Note: Materials and Construction shall be in accordance with Ho. Co. Road Construction Code.



**DRIVEWAY ABUTTING MODIFIED COMB. CURB & GUTTER\***

- 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 Sid. 7" Comb. Curb & Gutter necessary on the Cul. De. Sac.



**TYPICAL HOUSES**  
No Scale

SUBDIVISION NAME	COLUMBIA	SECT./AREA	6, 7, 16, 17 & 25-28
VILLAGE OF HICKORY RIDGE			
PLAT #	6481	BLOCK #	35
WATER CODE	1-15	SEWER CODE	6700000

**APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT**  
DATE: 5-2-86  
COUNTY HEALTH OFFICER: [Signature]

**APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING**  
DATE: 5-5-86  
PLANNING DIRECTOR: [Signature]

**APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC WORKS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS**  
DATE: 4-30-86  
DIRECTOR: [Signature]

**CHIEF BUREAU OF ENGINEERING**  
DATE: 4-18-86  
[Signature]

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

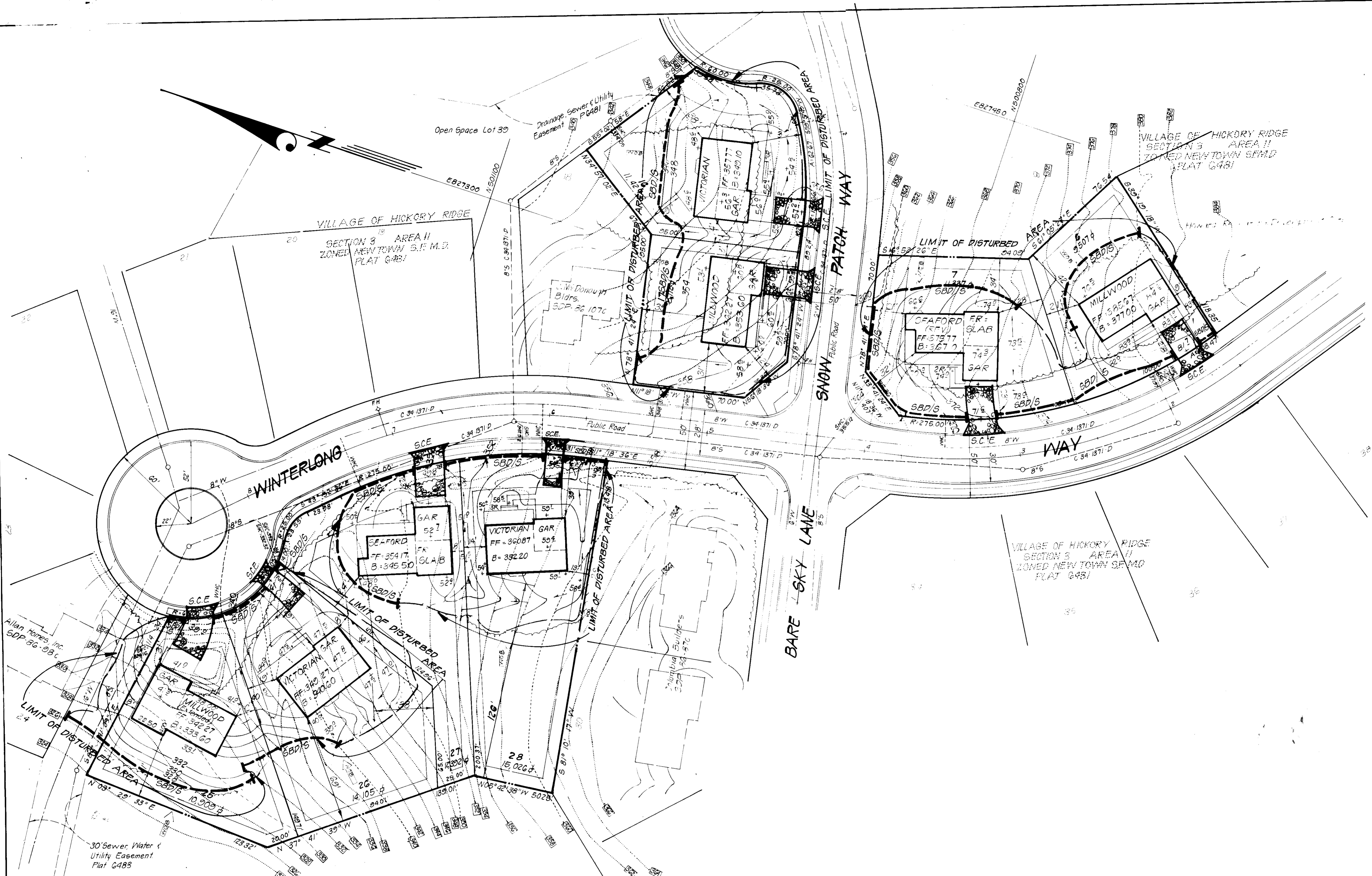
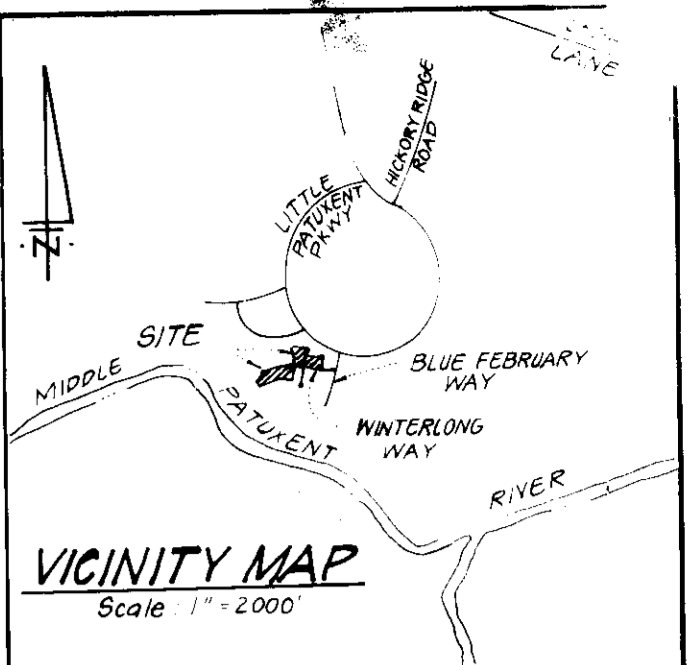
DESIGNED: BAF  
DRAWN: V.H.L.  
CHECKED: BAF, J.M.E.  
DATE: 3-21-86

**SITE DEVELOPMENT PLAN**  
LOTS 6, 7, 16, 17 AND 25 THRU 28  
**COLUMBIA**  
VILLAGE OF HICKORY RIDGE  
SECTION 3 AREA II  
5TH ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND

FOR: NIHHOMES, INC.  
8950 Rte 108, Suite 221  
Columbia, MD 21045

SCALE: 1"=30'  
DRAWING: 1 of 3  
JOB NO.: 86-015  
FILE NO.: 86-015-X





- LEGEND:**
- 1 Contour Interval 2 ft
  - 2 Existing Contour 320
  - 3 Proposed Contour 320
  - 4 Spot Elevation +20.5
  - 5 Direction of Drainage
  - 6 Existing trees to be saved
  - 7 Walk Out Basement
  - 8 Stabilized Construction Entrance S.C.E.
  - 9 Straw Bale Dike / Silt Fence S.B.D./S.

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS,  
HOWARD COUNTY HEALTH DEPARTMENT  
*Dean M. Boyle* 5-2-86  
COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING  
*William M. ...* 5-5-86  
PLANNING DIRECTOR DATE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE,  
STORM DRAINAGE SYSTEMS AND PUBLIC ROADS  
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
*Steve F. ...* 4-30-86  
DIRECTOR DATE

CHIEF BUREAU OF ENGINEERING *...* DATE

APPROVED  
DIVISION OF LAND DEVELOPMENT &  
ZONING ADMINISTRATION  
HOWARD COUNTY, MARYLAND  
4-18-86  
*...*

Reviewed by: HOWARD S.C.D.  
*Jack Helms* 4/29/86  
U.S. Soil Conservation Service

THIS DEVELOPMENT PLAN IS APPROVED  
FOR CONSTRUCTION PERMITS  
FOR THE HOWARD COUNTY SOIL  
CONSERVATION DISTRICT.  
*Stephen ...* 4-28-86  
Approved Date

DEVELOPER'S/BUILDER'S STATEMENT  
I hereby certify that the work shown on this plan was done in accordance with the provisions of the Subdivision Control Act and the regulations thereunder and that the same is a true and correct copy of the original as shown to the County Engineer and the County Health Officer.

*Harry A. Bowie, Pres.* 5-21-86  
Signature of developer Date  
HARRY A. BOWIE, President

ENGINEER'S CERTIFICATE  
I hereby certify that the plans for Erosion and Sediment Control are in accordance with the requirements of the Howard Soil Conservation District.

*Jeffrey ...* 3/21/86  
Date

SUBDIVISION NAME	COLUMBIA	SECT. AREA	LOTS 6, 7, 16, 17 & 25 - 28
VILLAGE OF HICKORY RIDGE	3/11		
PLAT #	6481	BLOCK #	5
ZONE	N.F.M.D.	TAXIZONE MAP	35
ELEC. DIST.	5 <sup>TH</sup>		
WATER CODE	1-15	SEWER CODE	6700000

<b>CLARK • FINEFROCK &amp; SACKETT</b> ENGINEERS • PLANNERS • SURVEYORS 11315 LOCKWOOD DRIVE • SILVER SPRING, MARYLAND 20904 • (301) 593-3400		
DESIGNED	<b>SEDIMENT &amp; EROSION CONTROL PLAN</b> LOTS 6, 7, 16, 17 AND 25 THRU 28 <b>COLUMBIA</b> VILLAGE OF HICKORY RIDGE SECTION 3 AREA II 5 <sup>TH</sup> ELECTION DISTRICT HOWARD COUNTY, MARYLAND FOR: NUHOMES, INC. 8950 Rte 108, Suite 221 Columbia, MD 21045 SDP-86-199.	SCALE 1" = 30'
DRAWN	V.H.L.	DRAWING 2 of 3
CHECKED	MCB	JOB NO. 86-0156
DATE	3-20-86	FILE NO. 86-0156



**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 sq ft) before seeding, and 600 lbs per acre 10-10-10 fertilizer (14 lbs/1000 sq ft). 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 plus 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 straw anchoring tool or 218 gallons per acre (5 gal/1000 sq ft) of emulsified asphalt 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.

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.

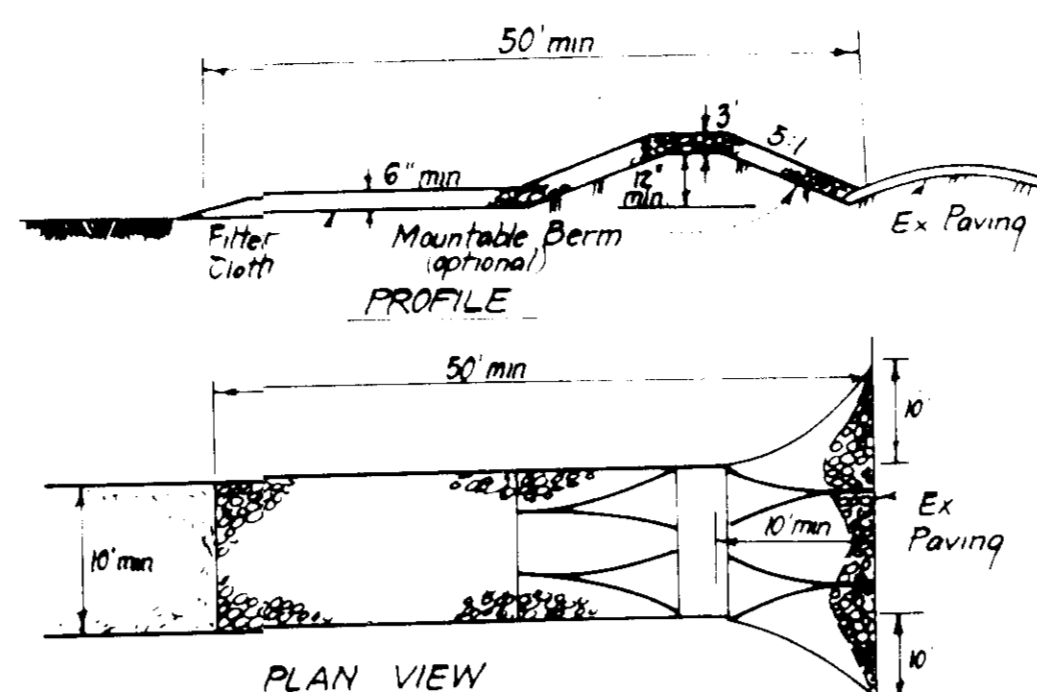
**Seedbed Preparation:** Loosen upper three inches of soil by raking, discing or other acceptable means before seeding.

**Soil 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 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 rates and methods not covered.

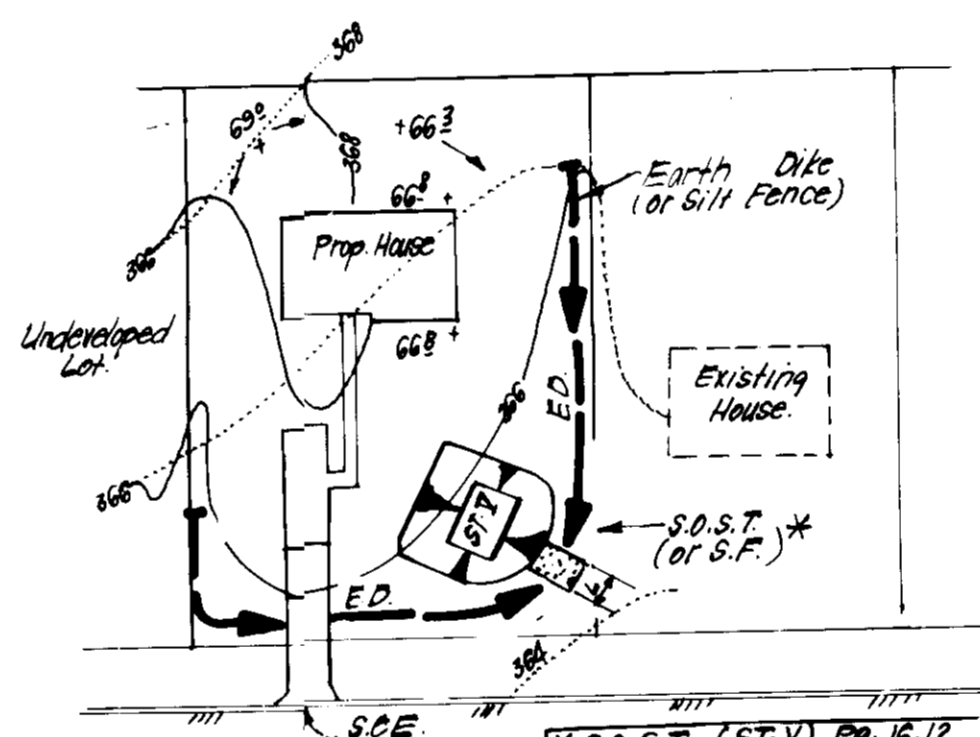


**CONSTRUCTION SPECIFICATIONS:**

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 foot minimum length would apply.
3. Thickness - Not less than six (6) inches.
4. Width - Ten (10) foot minimum, but not less than the full width at points where ingress or egress occurs.
5. 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.
6. 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.
7. 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 cleanout of any measures used to trap sediment. All sediment spilled, dropped, washed or tracked onto public rights-of-way must be removed immediately.
8. 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.
9. Periodic inspection and needed maintenance shall be provided after each rain.

**STABILIZED CONSTRUCTION ENTRANCE (SCE)**

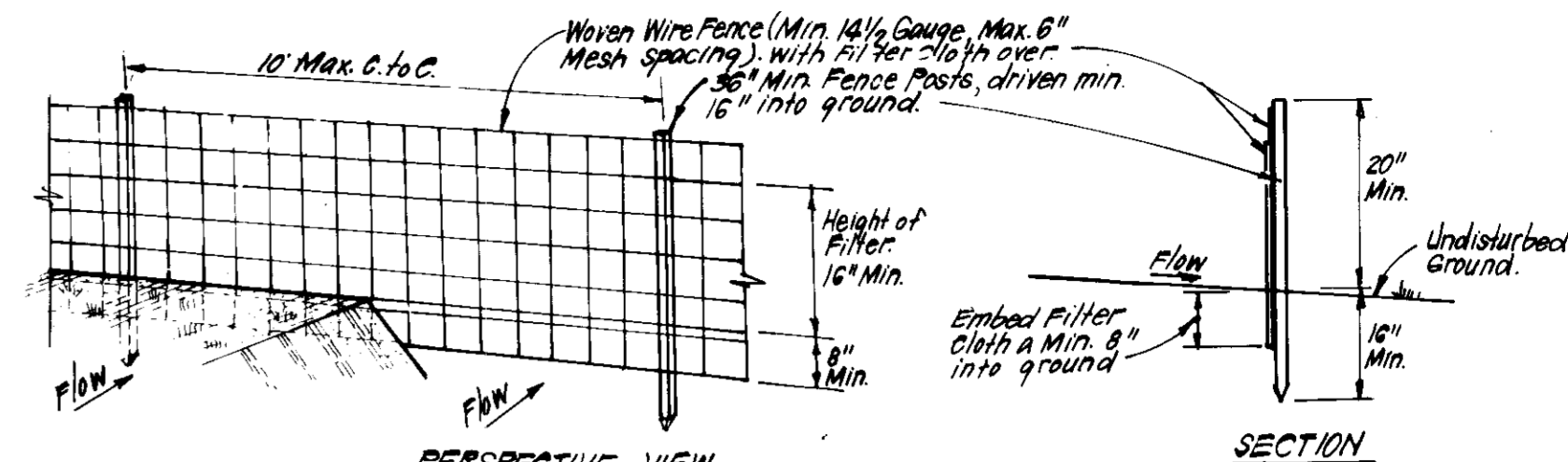
NO SCALE



\* 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 in any lots showing a sediment trap

**SINGLE LOT SEDIMENT CONTROL PLAN**

NO SCALE



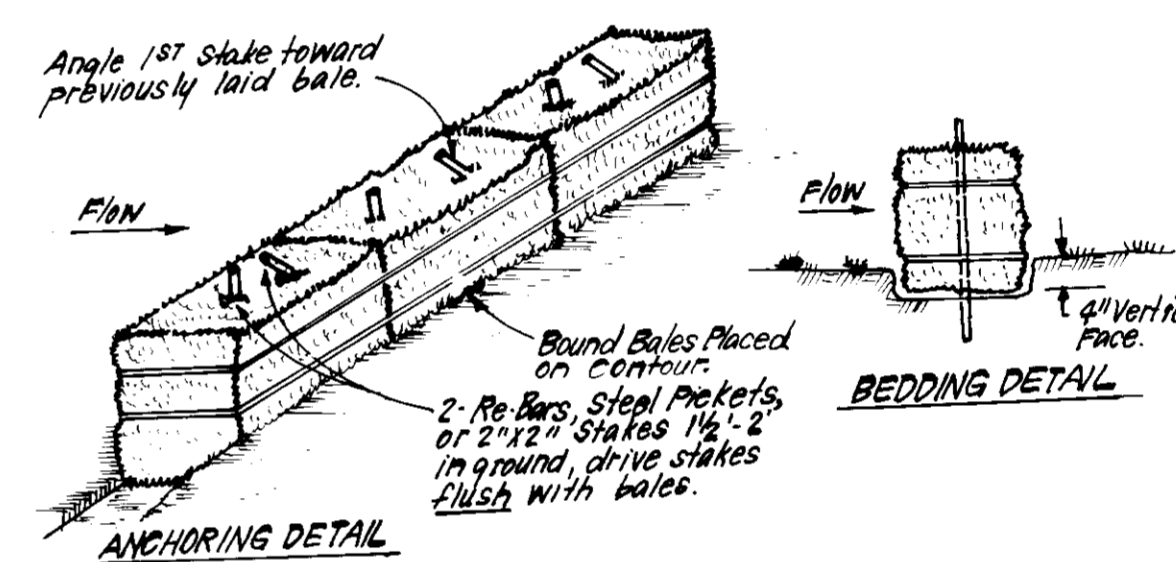
**CONSTRUCTION SPECIFICATIONS:**

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, 14 1/2 Gauge, 6" Max. Mesh Opening  
FILTER CLOTH: Filter X, Miraflo, 100X, Stabilink, T140N or Approx. equal  
PREFABRICATED UNIT: Geofab, Envirofence, or Approx. equal

**SILT FENCE DETAIL (S)**

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 rebar 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

**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, 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 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	2.16 Acres	
Area Disturbed	1.46 Acres	
Area to be roofed or paved	0.48 Acres	
Area to be vegetatively stabilized	0.98 Acres	
Total Cut	1075 Cu. yds	
Total Fill	3020 Cu. yds	N/A
Offsite waste/borrow area location		
- 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 DEW 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-Built" 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 1,155 L.F.

**CONSTRUCTION SEQUENCE:**

- A. Obtain Grading Permit and Install Sediment and Erosion Control Devices and Stabilize. 14
- B. Excavate for Foundations and Rough Grade & Temporarily Stabilize. 7
- C. Construct Structures, Sidewalks and Driveways. 90
- D. Final Grade and stabilize in accordance with Stds. & Specs. 7
- E. Upon approval of the sediment control inspector, remove sediment and erosion controls and stabilize. 2

NUMBER OF DAYS
14
7
90
7
2

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT  
 COUNTY HEALTH OFFICE  
 APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING  
 PLANNING DIRECTOR  
 APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
 CHIEF BUREAU OF ENGINEERING

APPROVED  
 DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION  
 HOWARD COUNTY, MARYLAND  
 DATE 4-18-86

Reviewed for HOWARD S.C.D.  
 Name  
 and meets Technical Requirements  
 Signature Date  
 U.S. Soil Conservation Service

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

Approved Date

DEVELOPER'S/BUILDER'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  
 HARRY A. BONIE, President

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  
 Jeffrey L. Schrab

CLARK · FINEFROCK & SACKETT  
 ENGINEERS · PLANNERS · SURVEYORS  
 11315 LOCKWOOD DRIVE SILVER SPRING, MARYLAND 20904 (301) 593-3400  
 DESIGNED MCB  
 DRAWN VHL  
 CHECKED MCB  
 DATE 3-20-86  
 SEDIMENT & EROSION CONTROL PLAN  
 LOTS 6, 7, 16, 17 AND 25 THRU 28  
 COLUMBIA  
 SECTION 3 AREA II  
 5TH ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND  
 FOR: NUHOMES, INC.  
 8950 Rte. 108, Suite 221  
 Columbia, MD 21045  
 SCALE As Shown  
 DRAWING 3 of 3  
 JOB NO. 86-015  
 FILE NO. 86 015 SE

SDP-86-199.