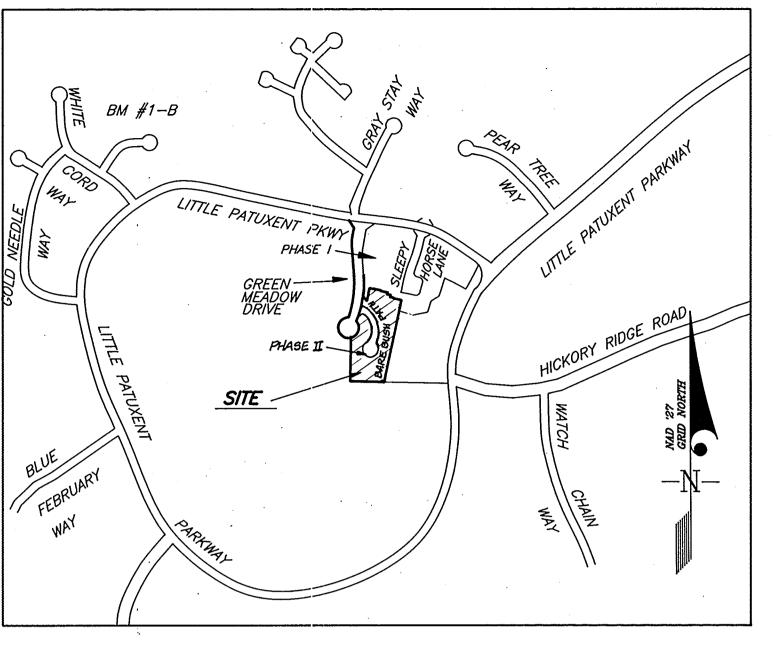
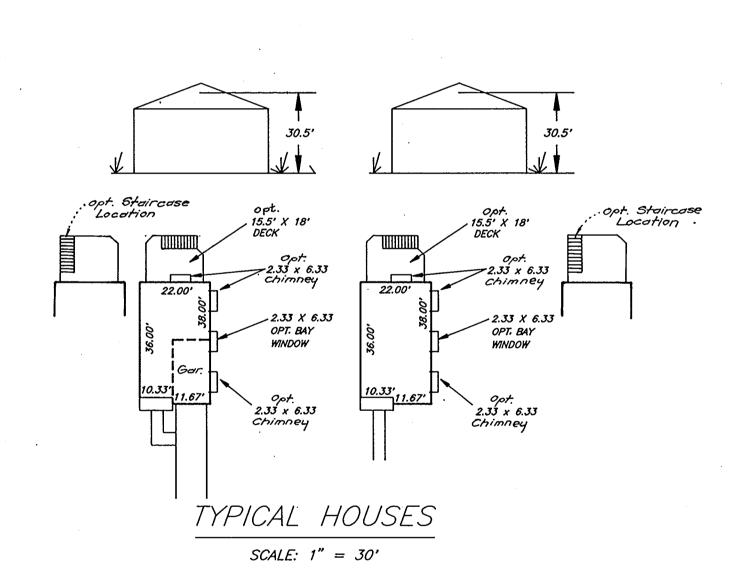


	STREET ADDI	RESS CHART
Lot No.	STR	EET ADDRESS
M-60	12201	BARE BUSH PATH
M-61	12203	BARE BUSH PATH
M-62	12205	BARE BUSH PATH
M63	12207	BARE BUSH PATH
M-64	12209	BARE BUSH PATH
M-65	12211	BARE BUSH PATH
М-66	12213	BARE BUSH PATH
M67	12215	BARE BUSH PATH
M-68	12217	BARE BUSH PATH
M-69	12219	BARE BUSH PATH
M70	12221	BARE BUSH PATH
M-71	12223	BARE BUSH PATH
M-72	12225	BARE BUSH PATH
M-73	12227	BARE BUSH PATH
M74	12229	BARE BUSH PATH
M75	12231	BARE BUSH PATH
M-76	12233	BARE BUSH PATH
M-77	12235	BARE BUSH PATH
M78	12237	BARE BUSH PATH
M-79	12239	BARE BUSH PATH
M-80	12241	BARE BUSH PATH
M81	12243	BARE BUSH PATH
M-82	12245	BARE BUSH PATH
M83	12247	BARE BUSH PATH
M-84	12249	BARE BUSH PATH
M-85	12251	BARE BUSH PATH
M-86	12253	BARE BUSH PATH
M-87	12255	BARE BUSH PATH
M-88	12257	BARE BUSH PATH
M-89	12259	BARE BUSH PATH
M-90	12261	BARE BUSH PATH
M-91	12263	BARE BUSH PATH
M-92	12242	BARE BUSH PATH
M-93	12240	BARE BUSH PATH
M-94	12238	BARE BUSH PATH
M-95	12236	BARE BUSH PATH
M-96	12234	BARE BUSH PATH
M-97	12232	BARE BUSH PATH
M-98	12230	BARE BUSH PATH
M-99	12208	BARE BUSH PATH
M-100	12206	BARE BUSH PATH
M-101	12204	BARE BUSH PATH
M-102	12202	BARE BUSH PATH
M-103	12200	BARE BUSH PATH

Lot No.	ISE CONNECTION Inv. @ PL	Min. CEL
M-60	407.0	410.1
M61	407.1	410.3
M-62	407.3	410.5
M-63	407.6	410.8
M64	407.5	410.7
M65	408.0	411.2
M-66	407.8	411.0
M-67	408.1	411.3
M-68	409.7	412.7
M-69	409.6	412.6
M-70	408.0	411.1
M-71	407.7	410.8
M-72	406:3	409.5
M-73	406.1	409.3
M-74	404.9	407.7
M-75	403.4	406.6
M-76	·	406.0
M-77	402.8	405.1
	401.9 401.2	404.3
M-78 M-79	+	
`	400.1 399.0	403.2
M-80		401.5
M-81 M-82	<i>398.3</i> <i>397.8</i>	401.0
M-83	398.0	401.0
M-84	390.9	393.9
M-85	396.9	400.2
M-86	396.6	399.8
M-87	396.0	399.2
M-88	395.7	398.9
M-89	395.2	398.4
M-90	334.0	397.9
M-91	394.3	397.4
M-92 D.H.C.	399.9	402.9
M-93 D.H.C.	401.1	404.2
M-94 D.H.C.	401.3	404.4
M-95 D.H.C.	402.2	405.4
M-96	403.3	406.6
M-97	404.0	407.3
M-98	404.2	407.4
M-99	408.3	411.9
M-100	407.6	411.2
M-101	406.5	410.0
M-102	404.8	408.2
M-103	403.9	407.1

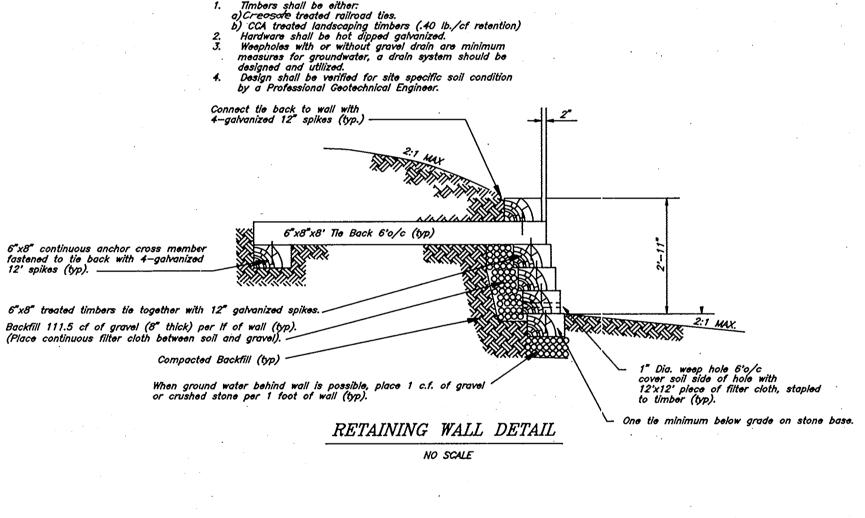


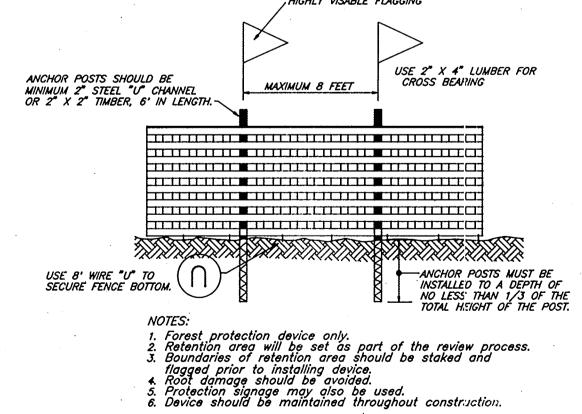
VICINITY MAP SCALE: 1" = 600'



LOT AREA TABLE

LOT NO. AREA





BLAZE ORANGE PLASTIC MESH TYPICAL TREE PROTECTION FENCE DETAIL

OWNER / DEVELOPER: THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION 10275 LITTLE PATUXENT PARKWAY

COLUMBIA, MD 21044

CITE ANIAL VOICE

		SITE ANALYSI.	5.
	1.	Subject property is zoned: NT-SFA per zoning plan, FDP phase 181-A	
1	2.	Unit type proposedS	Single family attached
	3.	Number of units allowed	44
	<i>4</i> .	Number of units provided	44
	<i>5</i> .	Number of parking spaces required	88 (2 per unit)
	<i>6</i> .	Number of parking spaces provided	91 (Tota1)
		Driveways and Garage	40
	<i>7</i> .	Area tabulation: Court_	51
		a) Total area of the parcel	3.76 acres or
		•	163,785 S.F.
		b) Total lot area	1.93 acres or 51 %
		c) Open space & private parking	1.06 acres or 28 %
		d) Public road area	0.77 acres or 21 %
	8.	Building coverage permitted	N/A
	9.	Building coverage proposed	1.03 acres or 27 %

GENERAL NOTES:

- The existing topography shown was taken from approved road construction plan F-93-122 prepared by Clark Finefrock &
- Department of Planning & Zoning reference file numbers: FDP Ph. 181- А-Ш PARTII, SP-93-112, WP93-58, F-83-120 and F-93-110, F-93-122
- 3. All roadways are existing. Bare Bush Path is public and has one private court.
 4. The coordinates shown hereon are based upon plat meridian
- for Village of Hickory Ridge, Section 3 Area 4 Parcels K, I and M as recorded on Plat 5673 and 5674.
- 5. The contractor shall notify the Department of Public Works/Bureau of Construction Inspection at (410) 313-1870 at
- least (5) working days prior to the start of work.

 6. The contractor shall notify "Miss Utility" at 1-800-257-7777
- at least 48 hours prior to any excavation work. Utilities shown as existing are taken from approved water and sewer plan, Contract #34-3269-D, approved road
- construction plans F-93-110. 8. Storm water management is provided off site in a regional storm water management facility as shown on F-83-120, Extended Detention Facility.
- 9. WP-93-58 approved 1-27-93 to waive section 16.129.2 waiving the requirement of sidewalk on both sides of all streets in a S.F.A. project and 16.115 (b)(5) to permit private drives to
- exceed 200 feet in length. 10. No clearing, grading or construction is permitted within
- wetlands and stream buffers. 11. Vehicular ingress & egress into public right of way
- restricted except at locations approved by Howard County Dept of Planning & Zoning.
- 12. Public water and sewer is to be utilized.
- 13. Any damage to county owned right of way to be corrected at the developers expense.
- 14. The area included in this submission is located on Tax Map No. 35, Parcel 394.
- 15. All materials and construction is to be in accordance with the Howard County road construction codes and
- specifications. 16. The minimum building setback restrictions from the property
- lines and the right of ways of any public road to be in Part II recorded 3-8-93.
- 17. Wetland evaluation prepared by Geotechnology Associates, Inc. on May 5, 1992.
- 18. Information concerning underground utilities was obtained from available records, but the contractor must determine the exact location of utilities by digging test pits, by hand at all crossings prior to construction.
- 19. The Contractor or developer agrees to work with the Department Inspections, Licenses & Permits to resolve any problem
- with roof water discharge. 20. Installation of traffic control devices shall be in accordance with the latest edition of the "Manual of Uniform
- Traffic Control*
- 21. Bench marks taken from a toptographic survey prepared by Fisher Collins and Carter, Inc. F-93-67. 22. A traffic study was prepared by the Traffic Group Inc., on
- Jan. 27, 1993.
- Environmental analysis was submitted with previously approved Preliminary Plan Equivalent Sketch Plan SP-93-12. 24. Limit of Submission includes lots M-60 thru M-103.
- Garages cannot be made into living space because the minimum required includes garage parking.
- 26. For Driveway Entrance Details, refer to Howard County Design Manual Volume IX Standard Detail R-G.03.

SHEET INDEX		
ESCRIPTION	SHEET NO.	
TITE DEVELOPMENT COVER SHEET	1	
ITE DEVELOPMENT PLAN	2	
EDIMENT AND EROSION AND CONTROL PLAN	3	
EDIMENT AND EROSION DETAILS SHEET	4	
ANDSCAPE PLAN	5	

SUBDIMISION NAME			3	SECTION/AREA		LOTS/PARCELS	
COLUMBIA VIL	LAGE OF H	IICKORY R	IDG#	3/4		M-60 T	THRU M-104
PLAT NO. 10953 \$10954	BLOCK NO.	ZONE N.T.	TAX 35	MAP NO.		TION DIST.	CENSUS TRACT 6056
WATER CODE	- 1 5		SEV	ER CODE	55 9	3000	



CLARK • FINEFROCK & SACKETT, INC. **ENGINEERS • PLANNERS • SURVEYORS**

ESIGNED	SITE DEVELOPMENT PLAN LOTS M-60 THRU M-104	SCALE As Shown	
RAWN KIWM LAI	COLUMBIA A RESUBDIVISION OF PARCEL M—59 VILLAGE OF HICKORY RIDGE	DRAWING	
MUP	SECTION 3 AREA 4 5TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND	JOB NO. 92-166	
G-93	FOR: COLUMBIA BUILDERS INC. P.O. BOX 999 COLUMBIA, MD 21044	FILE NO. 92-166-X	

SDP 93-130

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

10/13/93

10-4-93

AT- DATE

DATE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS

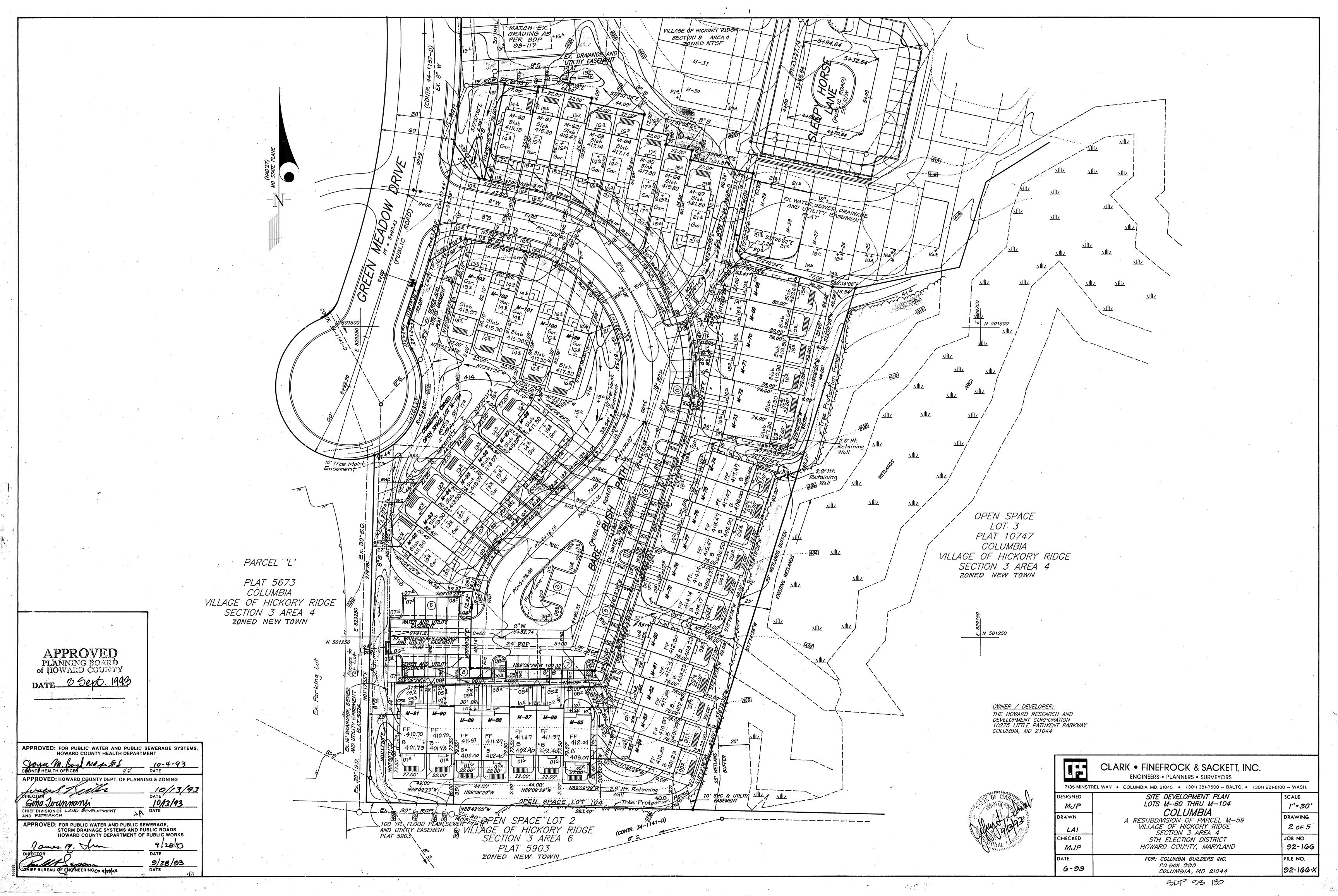
HOWARD COUNTY HEALTH DEPARTMENT

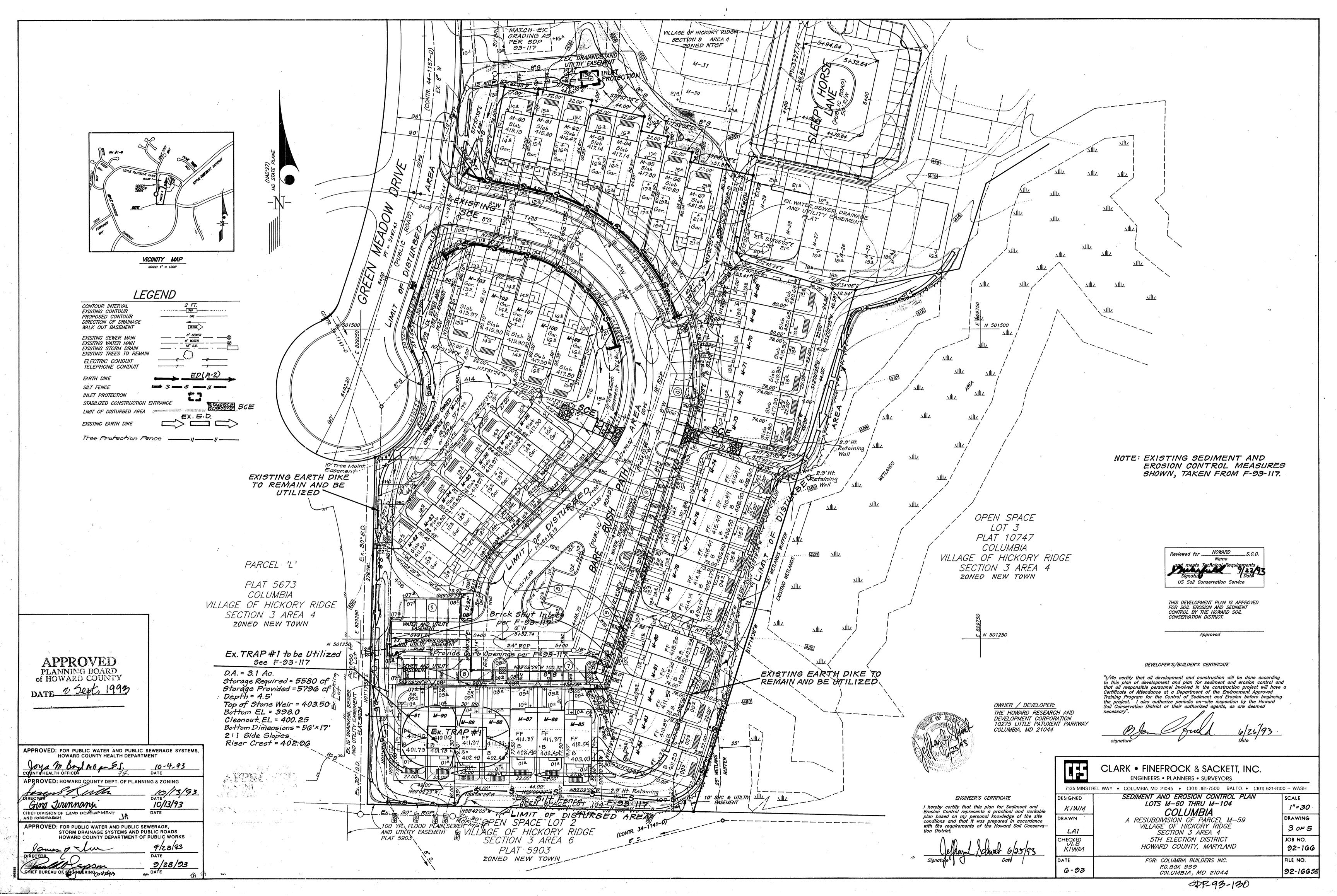
APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING

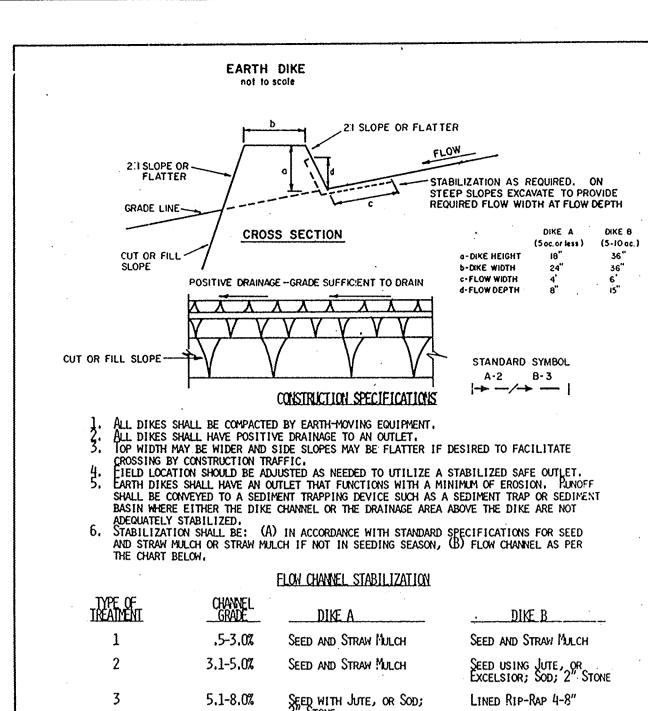
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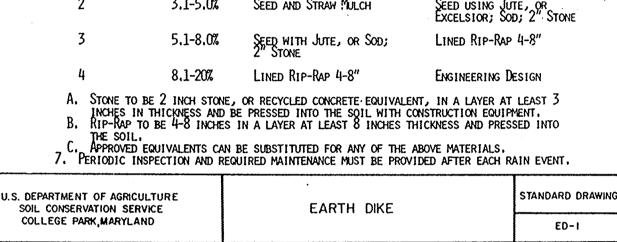
PLANNING BOARD

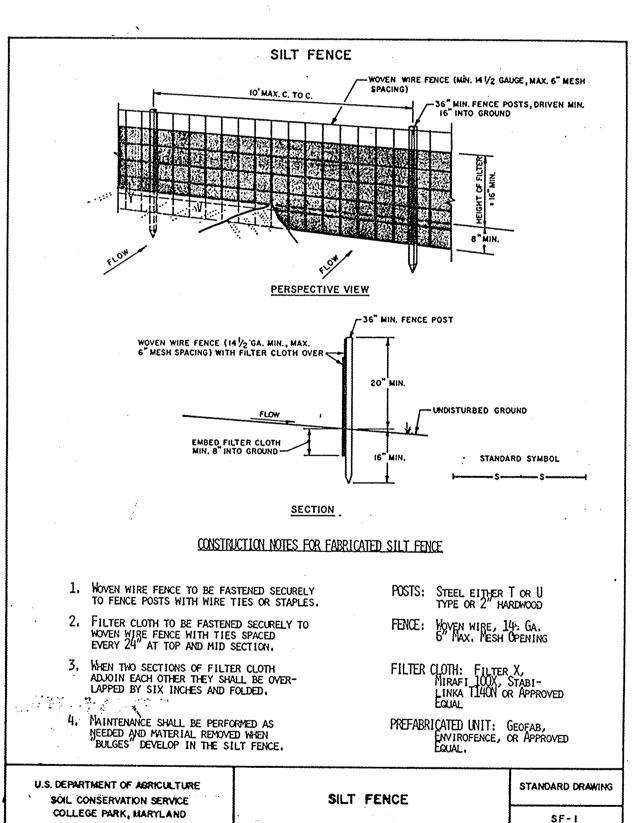
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APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS HOWARD COUNTY HEALTH DEPARTMENT

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE.

STORM DRAINAGE SYSTEMS AND PUBLIC ROADS

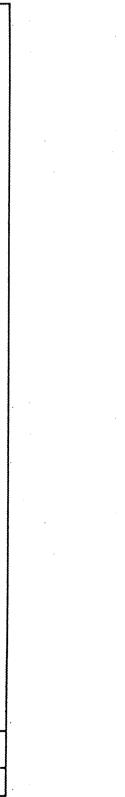
HOWARD COUNTY DEPARTMENT OF RUBLIC WORKS

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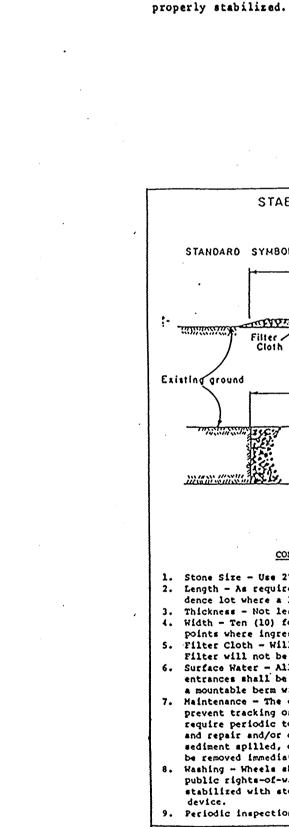
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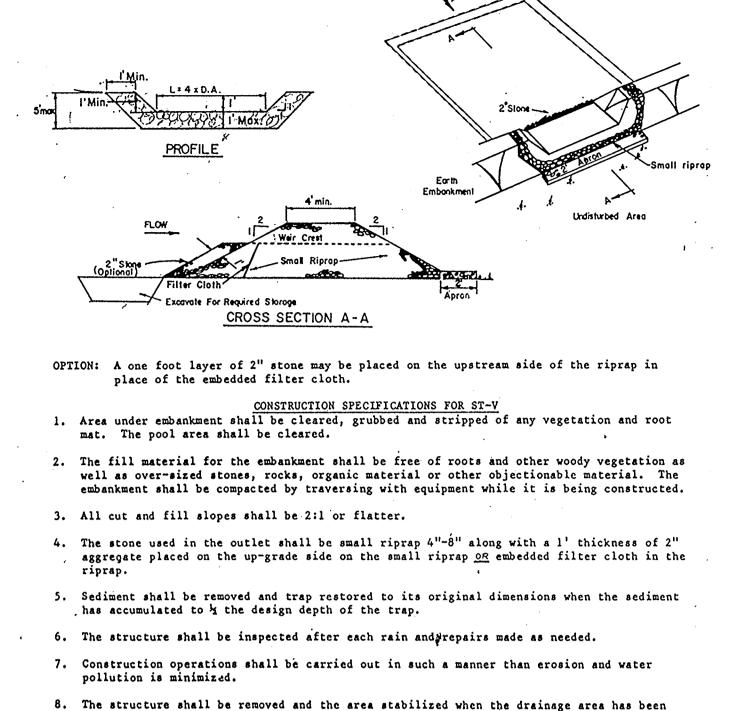
COUNTY HEALTH OFFICER

CHIEF DIVISION OF LAND DEVELOPMENT

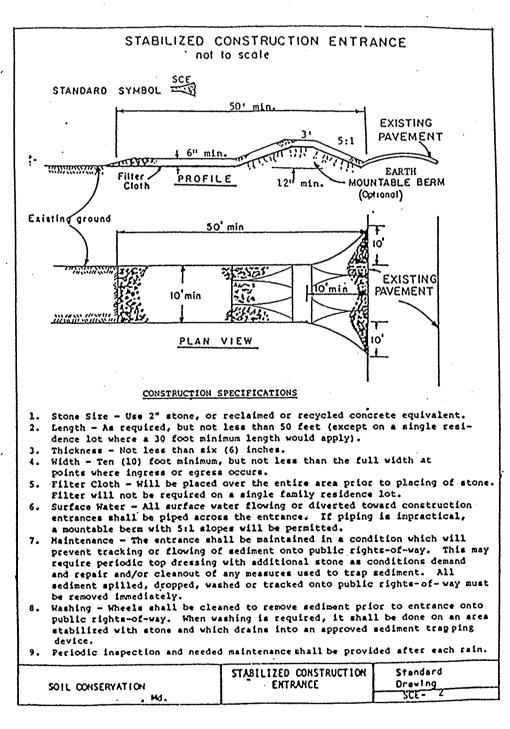


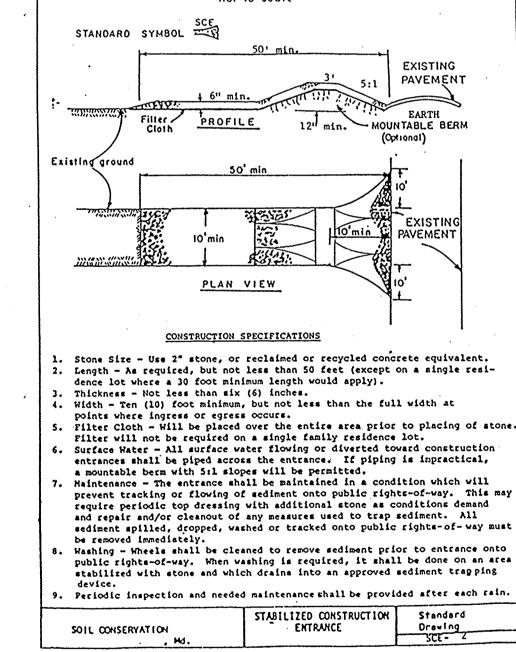
PLANNING FOARD of HOWARD COUNTY

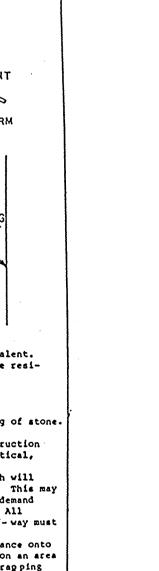




STONE OUTLET SEDIMENT TRAP Y







for anchoring. MAINTENANCE: Inspect all seeded areas and make needed repairs, repalcements and SEEDBED PREPARARTION: Loosen upper three inches of soil by raking, discing, or other acceptable means before seeding, if not previously loosened. SOIL AMENDMENTS: Apply 600 lbs per acre 10-10-10 fertilizer (14lbs/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 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)

Wooden frame is to be constructed of 2"x 4" construction grade lumber. Wire mesh must be of sufficient strength to support filter fabric, and stone for curb inlets, with water fully impounded against it. Filter cloth must be of a type approved for this purpose; resistant to sunlight with sieve size, EOS, 40-85, to allow sufficient passage of water and removal of sediment.

Stone is to be 2" in size and clean, since fines would clog the cloth. Excavate completely around the inlet to a depth of 18" below notch 2. Drive 2" x 4" post 1' into ground at four corners of inlet. Place nai strips between posts on end of inlet. Assemble top portion of 2 x 4 frame using overlap joint shown. Top of frame (weir) must be 6" below edge of roadway adjacent to inlet. Stretch wire mesh tightly around frame and fasten securely. Ends mus Stretch filter cloth tightly over wire mesh, the cloth must extend from top of frame to 18" below inlet notch elevation. Fasten securely to frame Ends must meet at post, be overlapped and folded, then fastened down. EXCAVATE AND RE-COMPACT

PERMANENT SEEDING NOTES

APPLY TO GRADED OR CLEARED AREAS NOT SUBJECT TO IMMEDIATE FURTHER DISTURBANCE

SEEDBED PREPARATION: Loosen upper three inches of soil by raking, discing or other

400 lbs. per acre 30-0-0 ureaform fertilizer (9 lbs/1000 sa.ft.)

SOI! AMENDMENTS: In lieu of soi! test recommendations, use one of the following schedules:
1) Preferred— Apply 2 tons per acre dolomitic limestone (92 lbs/100 sgft.)

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 the time of seeding, apply

2) Acceptable-- Apply 2 tons per acre dolomatic limestone (92 lbs/1000 sq ft.) and

SEEDING: For the periods March 1 thru April 30, and August 1 thru October 15, seed with 60lbs 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 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)

TEMPORARY SEEDING NOTES

REFER TO THE 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND

SEDIMENT CONTROL FOR RATE AND METHODS NOT COVERED.

1000 lbs. per acre 10-10-10- fertilizer (23 lbs./1000 sg ft.) before seeding.

WHERE A PERMANENT LONG-LIVED VEGETATIVE COVER IS NEEDED.

Harrow or disc into upper three inches of soil.

acceptable means before seeding, if not previously loosened.

Backfill around inlet in compacted 6" layers until layer of earth is even with the notch elevation on ends and top elevation on sides: 6. If inlet is not in a low point, construct a compacted earth dike in the ditchline below it. The top of this dike is to be at least 6" higher than

the top of frame (welr).

This structure must be inspected frequently and the filter fabric replaced

SWALE INLET PROTECTION DETAIL

EDGE OF ROADWAY OR TOP

NO SCALE

SEDIMENT AND EROSION 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. (313-1810). 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 SPECS. 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 stuctures. dikes, perimeter slopes and all slopes greater than 3:1, b) 14 days as to all other disturbed or graded areas on the

All sediment traps/basins shown must be fenced and warning signs posted around their perimeters 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 dates do not allow for proper germination and establishment of

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:____ Area Disturbed: Area to be roofed or paved: Area to be vegetatively stabilized. Total Cut: Offsite Waste/Borrow Area Location

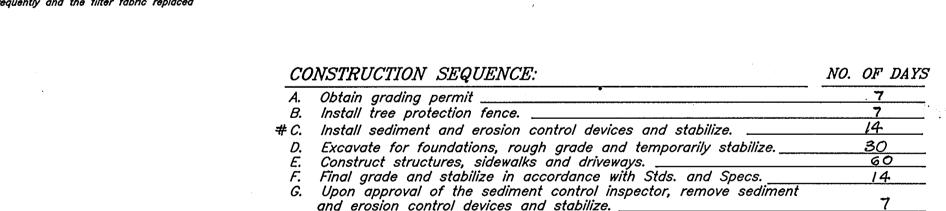
Any sediment control practice which is disturbed by grading activity for placement of utilities must be repaired on the same day of disturbance.

Additional sediment control must be provided, if deemed necessary by the Howard County 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 nstallation 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

11. If houses are to be constructed on an "as sold" basis, at random, Single Family Sediment Control, as shown below shall be implemented.

645 LF 12. The total amount of silt fence=_

* It is the responsibility of the contractor to identify the spoil/borrow site and notify and gain approval from the sediment control inspector of the site and it's grading permit number at the time of construction.



Delay construction of houses on lots M-80 thru M-91 until permission to remove Ex. Trap #1 has been obtained.

NOTE: Silt fence will be provided as directed by the Sediment control inspector to complete the construction of units M-80 thru M-91.

OWNER / DEVELOPER: THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION 10275 LITTLE PATUXENT PARKWAY COLUMBIA, MD 21044

HOWARD Signature US Soil Conservation Service

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

Approved

- WIRE MESH APPROVED FILTER CLOTH

DEVELOPER'S/BUILDER'S CERTIFICATE

I/We certify that all development and construction will be done according to this plan of development and plan for sediment and erosion control and that all responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of the Environment Approved raining 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

ENGINEER'S CERTIFICATE

I hereby certify that this plan for Sediment and Erosion Control represents a practical and workable plan based on my personal knowledge of the site condtions and that it was prepared in accordance with the requirements of the Howard Soil Conserva-

RAWN LAI

CLARK • FINEFROCK & SACKETT, INC. **ENGINEERS • PLANNERS • SURVEYORS** 7135 MINSTREL WAY • COLUMBIA, MD. 21045 • (301) 381-7500 - BALTO. • (301) 621-8100 - WASH. SCALE DESIGNED SEDIMENT AND EROSION CONTROL PLAN LOTS M-60 THRU M-104 As Shown KIWM COLUMBIA DRAWING A RESUBDIVISION OF PARCEL M-59 4 OF 5 VILLAGE OF HICKORY RIDGE SECTION 3 AREA 4 JOB NO. 5TH ELECTION DISTRICT 92-166

HOWARD COUNTY, MARYLAND

FOR: COLUMBIA BUILDERS, INC.

COLUMBIA, MD 21044

P.O. BOX 999

FILE NO.

92-166SE

