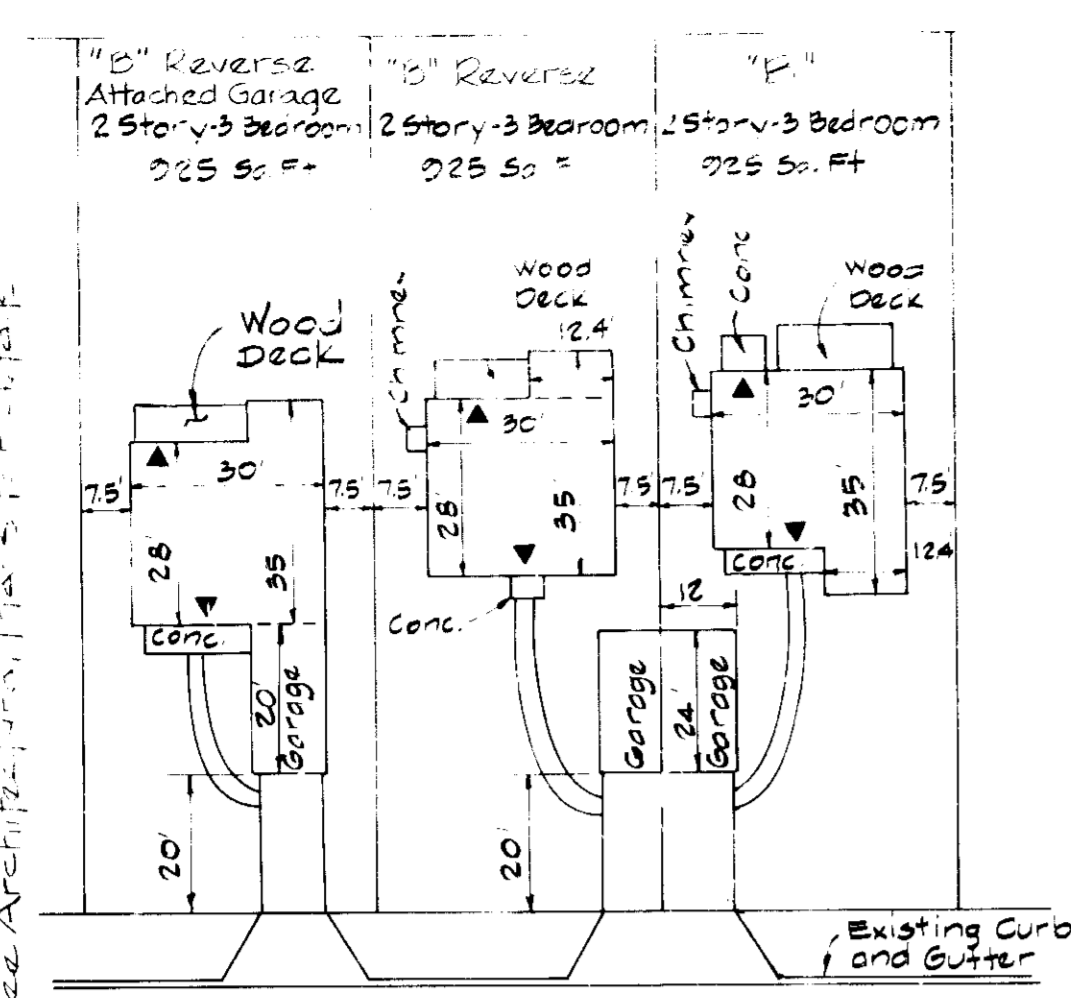
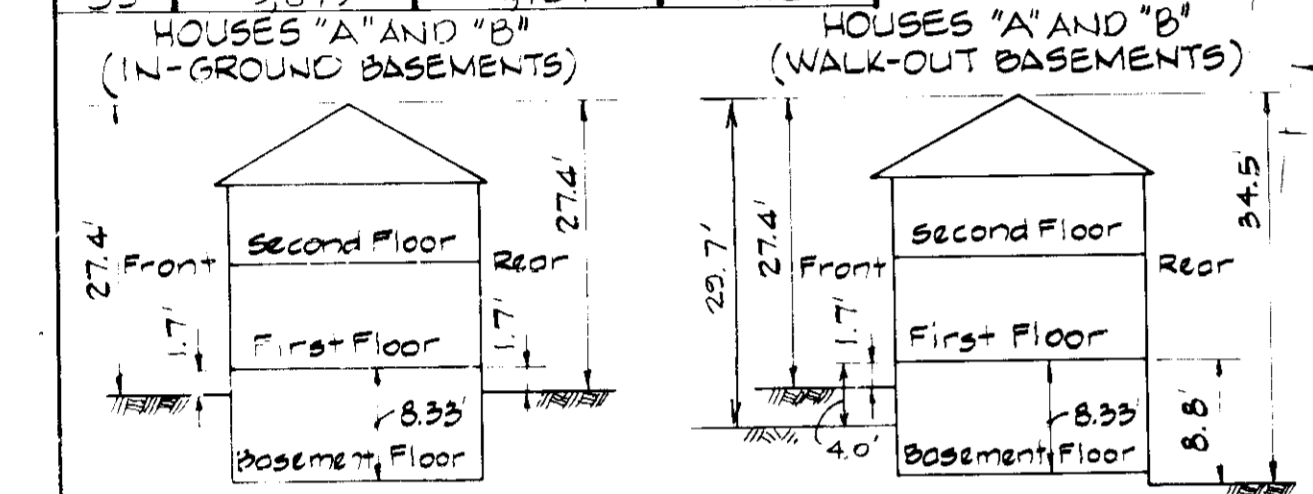


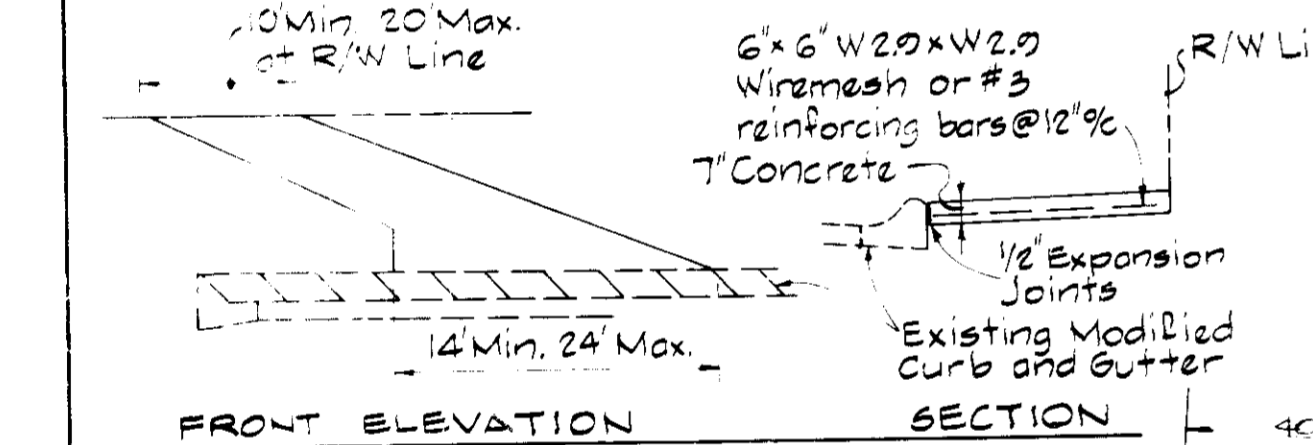
LOT NO.	LOT AREA - SF	HOUSE AREA - SF	% LOT COVERAGE
3	5,215	1,212	7.7
4	5,215	1,212	13.2
5	5,215	1,212	20.0
6	5,215	1,212	20.0
7	5,215	1,212	8.1
8	5,215	1,212	11.6
9	5,215	1,212	24.1
10	5,215	1,212	29.8
11	5,215	1,212	17.1
12	5,215	1,212	14.9
13	5,215	1,164	22.2
14	5,215	1,080	18.7
15	5,215	1,164	23.1
16	5,215	1,080	14.7
17	5,215	1,128	14.0
18	5,215	1,212	23.5
19	5,215	1,128	21.3
20	5,215	1,128	18.7
21	5,215	1,212	17.5
22	5,215	1,212	14.4
23	5,215	1,128	19.9
24	5,215	1,128	21.8
25	5,215	1,128	18.8
26	5,215	1,128	16.9
27	5,215	1,080	12.6
28	5,215	1,080	17.2
29	5,215	1,164	15.1
30	5,215	1,336	16.2
31	5,215	1,236	19.4
32	5,215	1,236	20.0
33	5,215	1,164	11.8



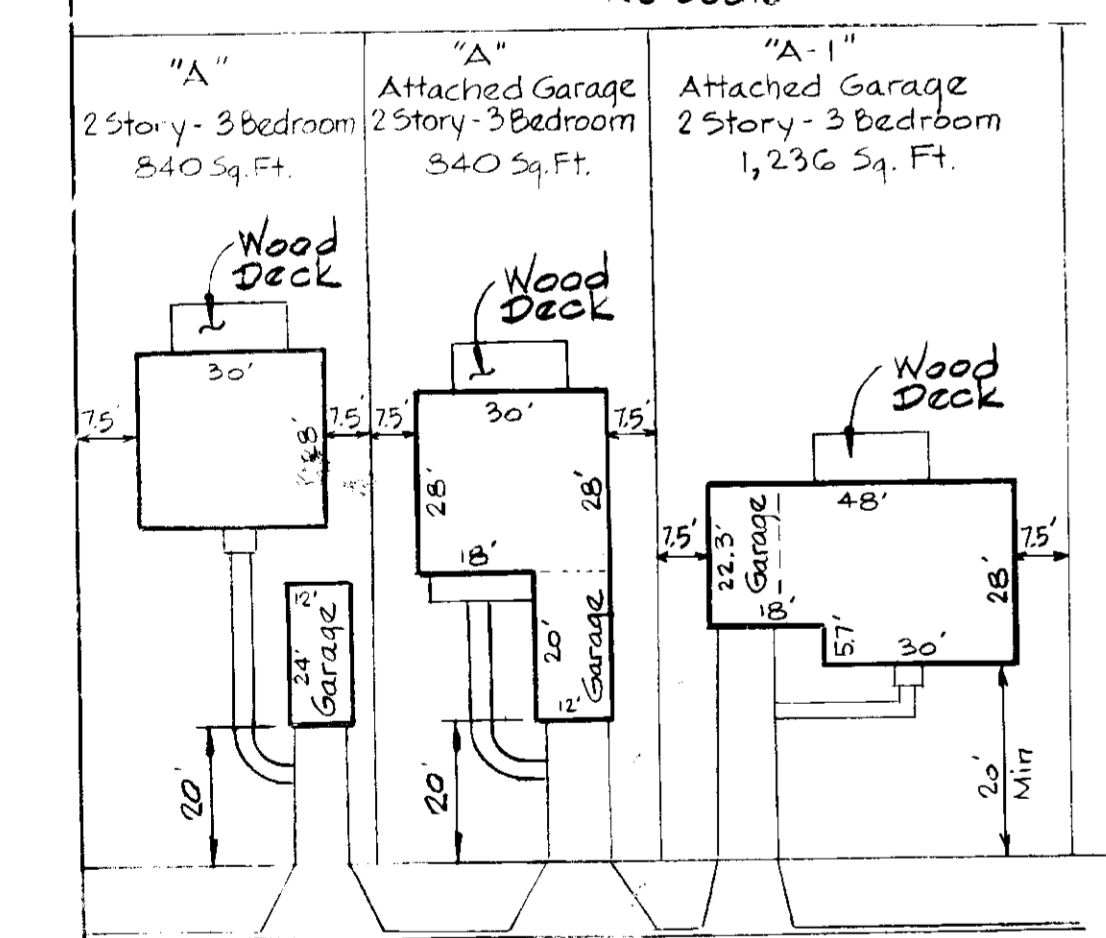
PUBLIC STREET
TYPICAL PLOT PLANS
Scale: 1"=30'



TYPICAL DWELLING ELEVATIONS
No Scale



DRIVEWAY DETAIL
No Scale



PUBLIC STREET
TYPICAL PLOT PLANS
Scale: 1"=30'

Note:
Public water and sewer mains are constructed under Contract # 24-1084-D. Public roads were constructed from Road Construction Drawings F-36-05 and private road.

W. T. V. S. REQUART AND ASSOCIATES
ENGINEERS
235 ST. PAUL STREET
BALTIMORE, MARYLAND 21218
KENNETH A. MCCORD PE ING. 1974

MARK BUILDING COMMUNITIES, INC.
OWNER AND DEVELOPER
P.O. BOX 1272
COLUMBIA, MARYLAND 21044

DIVISION OF LAND DEVELOPMENT
ZONING ADMINISTRATION
HOWARD COUNTY, MARYLAND
DATE 8-30-85

TYPICAL PARKING SPACE

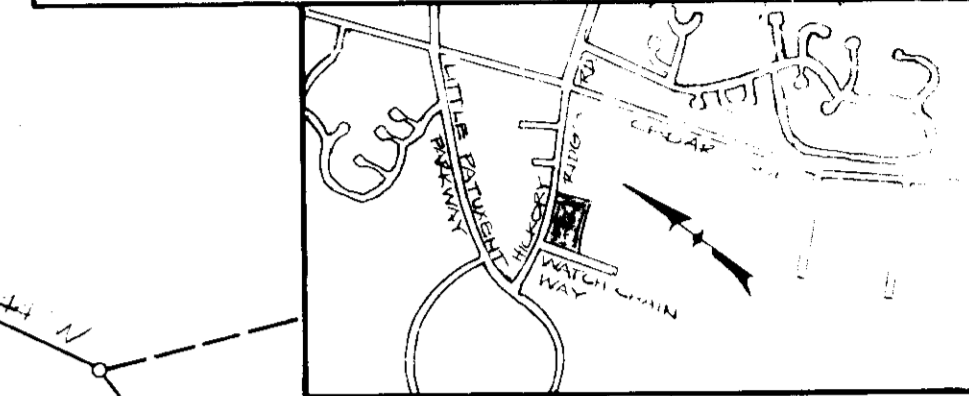


SITE ANALYSIS
OFF-STREET PARKING SPACES
Required: 21 dwellings @ 2 spaces/dwelling = 42
Proposed: 21 spaces @ 31 driveways

5	35	3	2	3 thru 34
6381-4	5	11/16	35	6089.02
WATER CODE		SEWER CODE		
I-15		6592000		

LOT NO.	ADDRESS	LOT NO.	ADDRESS
1003	10950	10930	10934
10990	10955	10934	10920
10995	10951	10920	10925
10991	10922	10925	10921
10987	10926	10921	10917
10983	10910	10917	10913
10979	10914	10913	10909
10975	10918	10909	10905
10971	10922	10905	10901
10967	10926	10901	
10963			

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT
Joyann Boyer 9-26-85
 HEALTH DEPARTMENT
 APPROVED FOR PLANNING AND ZONING
James L. Harty 9-26-85
 PLANNING DIRECTOR
John M. Macdonald 9-26-85
 CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION
 APPROVED FOR PUBLIC WATER, PUBLIC SEWER AND STORM DRAINAGE SYSTEMS AND ROADS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
Wm. F. Neuma 9-21-85
 DIRECTOR
Wm. F. Neuma 9-24-85
 CHIEF, BUREAU OF ENGINEERING



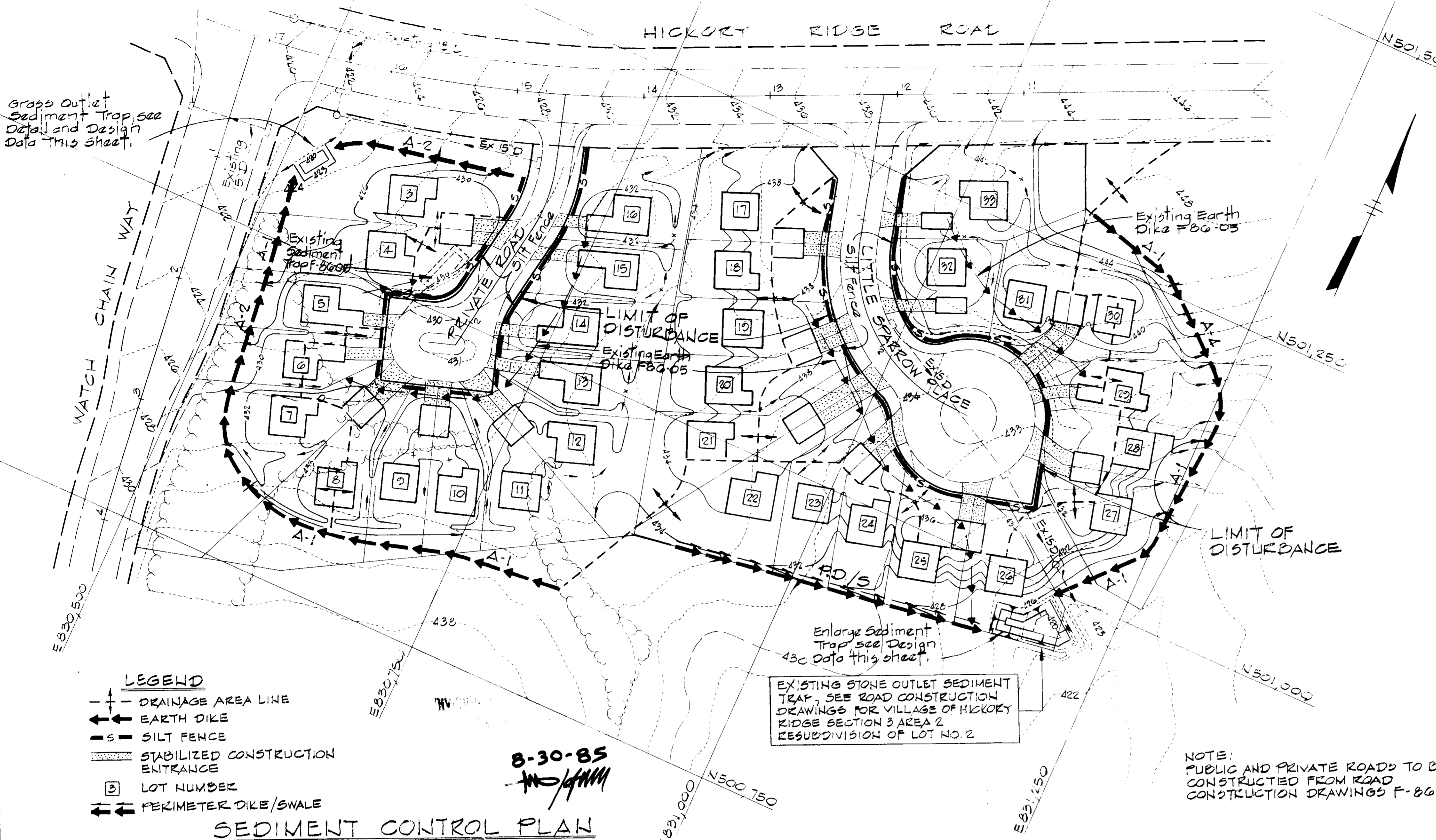
VICINITY MAP
Scale: 1"=2000'

8/3/85 As per Planning, DPW and SCS Comments.
 NO. DATE DESCRIPTION OF REVISION
COLUMBIA SITE PLANS
 for
 VILLAGE OF HICKORY RIDGE
 SECTION 3 AREA 2
 LOTS 3 THRU 34
GRADING PLAN
 SHEET 1 OF 2
 ELECTION DISTRICT NO. 5
 HOWARD COUNTY, MARYLAND
 DATE: 7/9/85 SCALE: 1"=30'
SDP-86-11

RESponsible Personnel Certification
 I HEREBY CERTIFY THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT.
 APPROVED: **Stephen L. Hyler** 9/2/85
 HOWARD SCS DATE

Certification by the Developer
 I CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL AND I ALSO AUTHORIZE PERIODIC ON SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY.
 APPROVED: **James L. Harty** 9-26-85
 LAWRENCE I. ROSENBERG DATE

Certification by the Engineer
 I 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.
 APPROVED: **James L. Harty** 9-26-85
 KENNETH A. MCCORD PE 1974 DATE



PERMANENT SEEDING NOTES

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

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

Seeding: In lieu of soil test recommendations, use one of the following schedules:

- 1) Preferred - Apply 2 tons per acre dolomitic limestone (22 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 fertilizer (9 lbs/1000 sq ft).
- 2) Acceptable - Apply 2 tons per acre dolomitic limestone (22 lbs/1000 sq ft) and 1000 lbs per acre 10-10-10 fertilizer (22 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 20 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 1-05 lbs/1000 sq ft of seeding lowgrass. 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) 1/2 ton of straw mulch and seed with 60 lbs/acre Kentucky 31 Tall Fescue and mulch with 2 tons of straw.

Mulching: Apply 1/2 to 2 tons per acre (70 to 90 lbs/1000 sq ft) of untreated small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 2 1/2 gallons per acre (5 gal/1000 sq ft) of emulsified asphalt on flat areas. On slopes 8 feet or higher, use 3 1/2 gallons per acre (7 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.

Soil Amendments: 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).

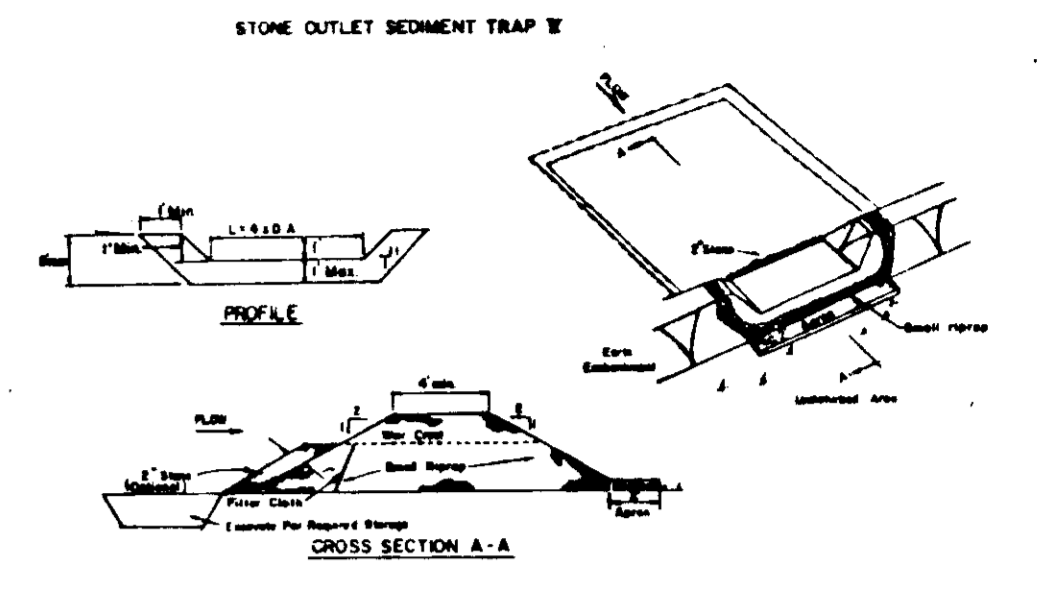
Seeding: For periods March 1 thru April 30 and from August 15 thru November 15, seed with 25 bushel per acre of annual ryegrass (0.2 lbs/1000 sq ft) for the period May 1 thru August 14, seed with 3 lbs per acre of seeding lowgrass (0.07 lbs/1000 sq ft). For the period November 16 thru February 28, protect site by applying 2 tons per acre of well anchored straw mulch and seed as soon as possible in the spring.

Mulching: Apply 1/2 to 2 tons per acre (70 to 90 lbs/1000 sq ft) of untreated small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 2 1/2 gallons per acre (5 gal/1000 sq ft) of emulsified asphalt on flat areas. On slopes, 8 ft or higher, use 3 1/2 gal per acre (7 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.

SEEDING 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. (892-2437)
- 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 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 17, 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: 9.0 Acres
 - Area Disturbed: 2.0 Acres
 - Area to be roofed or paved: 1.7 Acres
 - Area to be vegetatively stabilized: 2.3 Acres
 - Total Cut: 11,500 Cu. Yds.
 - Total Fill: 11,500 Cu. Yds.
 - Offsite waste/borrow area location: NONE
- 8) Any sediment control practice which is disturbed by grading activity for placement of fill must be repaired on the same day of disturbance.
- 9) Additional sediment control may 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 required 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 required until this initial approval by the inspection agency is made.



OPTION: A one foot layer of 2" stones may be placed on the upstream side of the trap to reduce the sediment filter cloth.

CONSTRUCTION SPECIFICATIONS FOR STONE OUTLET SEDIMENT TRAP:

1. Area under embankment shall be cleared, grubbed and stripped of any vegetation and root mat. The soil area shall be cleared.
2. The fill material for the embankment shall be free of rocks and other woody vegetation as well as any excavated stones, rocks, organic material or other objectionable material. The embankment shall be completed by traversing with equipment while it is being constructed.
3. All cut and fill slopes shall be 2:1 or flatter.
4. The stone used in the outlet shall be small river stones 4" to 6" in diameter with a thickness of 2" appropriate placed on the up-grade side of the small trap. 2" emulsified filter cloth is the riprap.
5. Sediment shall be removed and trap restored to its original dimensions when the sediment has accumulated to 1/2 the design depth of the trap.
6. The structure shall be inspected after each rain and repairs made as needed.
7. Construction operations shall be carried out in such a manner that stream and water pollution is minimized.
8. The structure shall be removed and the area stabilized when the drainage area has been properly stabilized.

CONSTRUCTION NOTES FOR FABRICATED SILT FENCE:

1. Posts shall be 2" x 4" steel pipe, spaced 10' on center.
2. Filter cloth to be fastened securely to posts with 1/2" x 1/2" staples.
3. Filter cloth to be fastened securely to posts with 1/2" x 1/2" staples. Posts shall be 2" x 4" steel pipe, spaced 10' on center.
4. Maintenance shall be performed as needed and material removed when "bales" develop in the silt fence.

LEGEND

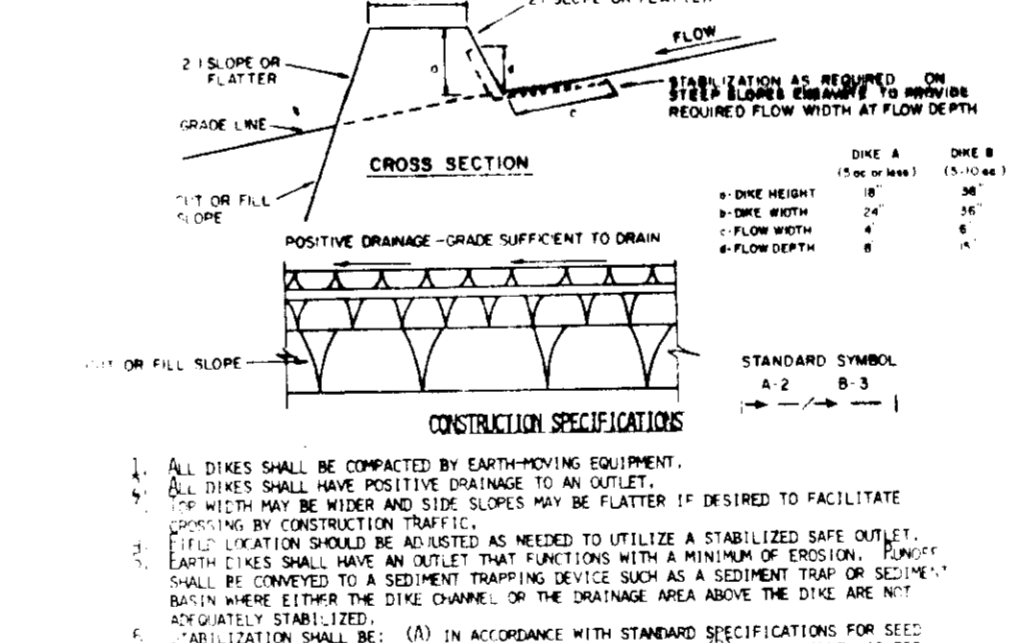
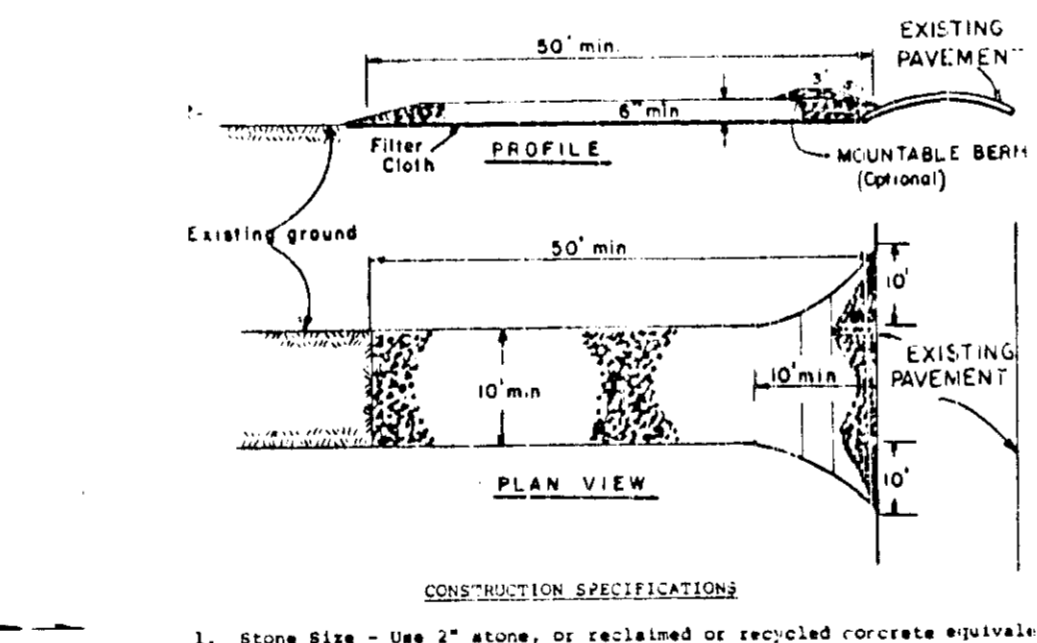
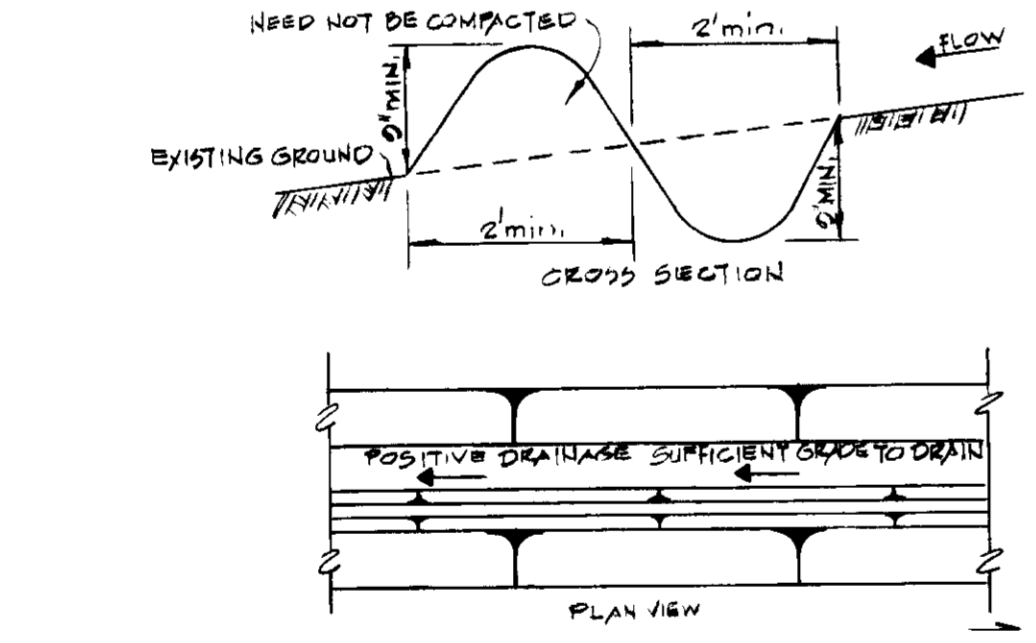
- +--- DRAINAGE AREA LINE
- EARTH DIKE
- S SILT FENCE
- STABILIZED CONSTRUCTION ENTRANCE
- 3 LOT NUMBER
- PERIMETER DIKE/SWALE

SEDIMENT CONTROL PLAN
Scale: 1" = 50'

SEDIMENT TRAP DESIGN DATA

STONE OUTLET TRAP
DRAINAGE AREA = 1.5 ACRES
VOLUME REQUIRED = 1.5 x 67 = 100.5 CY.
VOLUME AVAILABLE = 103 CY.
TOP DECK ELEV. = 425.0
TOP STONE WEIR ELEV. = 424.0
DESIGN CAPACITY ELEV. = 423.0
BOTTOM TRAP ELEV. = 420.0

GRASS OUTLET TRAP
DRAINAGE AREA = 0.8 ACRES
VOLUME REQUIRED = 0.8 x 67 = 53.6 CY.
VOLUME AVAILABLE = 56 CY.
DESIGN CAPACITY ELEV. = 423.0
BOTTOM TRAP ELEV. = 420.0



CONSTRUCTION SPECIFICATIONS

1. Stone Size - Use 2" stone, or reclaimed or recycled concrete equivalent.
2. Length - As required, but not less than 30 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 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 single family residence lot.
6. Surface Water - All surface water flowing or directed toward construction entrances shall be piped across the entrance. If piping is impractical, a mounded berm with 3:1 slopes will be permitted.
7. Maintenance - The entrance shall be maintained in a condition which will prevent tracking of sediment onto public right-of-way. This includes periodic top dressing with additional stone as conditions demand and regular and/or frequent cleaning of any measure used to trap sediment. All sediment applied, dropped, washed or tracked onto public right-of-way must be removed immediately.
8. Weeding - Weeds shall be cleared to remove sediment prior to entrance onto public right-of-way. When weeding 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.

SEQUENCE OF CONSTRUCTION

PHASE I - LOTS 3 THRU 16

1. Obtain Grading Permit.
2. Clear and grub areas for sediment control facilities only. (2 Days)
3. Construct stabilized construction entrances, grass outlet sediment trap, earth dikes and silt fence. (2 Days)
4. Grade Lots (1 Week)
5. Construct dwellings and appurtenances and seed yards (6 months)
6. Remove all sediment control facilities after grass is established on all lots. (1 Week)

PHASE II - LOTS 17 THRU 34

1. Clear and grub areas for sediment control facilities only. (2 Days)
2. Construct stabilized construction entrances, enlarge existing stone outlet sediment trap, construct earth dikes, perimeter swale and install silt fence around road R/W. Additional silt fence will be required at the rear of lots 17 thru 21. (3 Days)
3. Grade Lots (1 Week)
4. Construct dwellings and appurtenances and seed yards. (6 months)
5. Remove all sediment control facilities after grass is established on all lots. (1 Week)

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

Stephan L. Anlin 9-26-85
HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING

William F. Nimm 9-26-85
PLANNING OFFICER DATE

APPROVED FOR PUBLIC WATER, PUBLIC SEWER, STORM DRAINAGE SYSTEMS AND ROADS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

William F. Nimm 9-26-85
DIRECTOR DATE

William F. Nimm 9-26-85
CHIEF BUREAU ENGINEER DATE

MARK BUILDING COMMUNITIES, INC.
OWNER AND DEVELOPER
PO BOX 1272
COLUMBIA, MARYLAND 21044

WHITMAN, REQUARDT AND ASSOCIATES
ENGINEERS
2315 ST PAUL STREET
BALTIMORE, MARYLAND 21218

William F. Nimm
KENNETH A. MCCORD PE NO 1974



REVIEWED FOR HOWARD S.C.D. AND MEETS TECHNICAL REQUIREMENTS

James M. Miller 9/23/85
DATE

U.S. SOIL CONSERVATION DISTRICT

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

APPROVED *Stephan L. Anlin*
HOWARD S.C.D. DATE 9/23/85

CERTIFICATION BY THE ENGINEER

"I 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."

James M. Miller 9-23-85
DATE

KENNETH A. MCCORD PE 1974 DATE 9/23/85

CERTIFICATION BY THE DEVELOPER

"I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO 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 DEPARTMENT 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."

William F. Nimm 9-26-85
DATE

LAWRENCE I. ROSENBERG DATE 9/26/85

DATE: 7/0/85 SCALE: AS SHOWN

COLUMBIA SITE PLANS
for VILLAGE OF HICKORY RIDGE
SECTION 3 AREA 2
LOTS 3 THRU 34
SEDIMENT CONTROL PLAN AND DETAILS
SHEET 2 OF 2
ELECTION DISTRICT NO. 5
HOWARD COUNTY, MARYLAND

SDP-86-11