

VICINITY MAP
SCALE: 1"=2000'

GENERAL NOTES

- 1) STORM WATER MANAGEMENT UNDER F 86-02
- 1A) THE LAND INCLUDED IS ZONED R-20
- 2) COORDINATES SHOWN ARE EXTENSIONS MADE FROM THE MARYLAND STATE PLANE COORDINATE SYSTEM. BEARINGS REFER TO THE TRUE NORTH AND ARE BASED ON HOWARD COUNTY GEODETIC SURVEY POINT NO. AND NO.
- 3) THE AREA COVERED IN THIS SUBMISSION IS LOCATED ON TAX MAP 17
- 4) THE TOTAL AREA ON THIS PLAN IS 240,000 SQ. FT. (5.51 AC)
- 5) ALL ROADS ARE PUBLIC, AND EXISTING
- 6) ANY DAMAGE TO COUNTY OWNED RIGHT-OF-WAYS SHALL BE CORRECTED AT THE DEVELOPER'S EXPENSE.
- 7) TOTAL NUMBER OF LOTS IN THIS SUBMISSION ARE 16
- 8) STREET TREES WILL BE PROVIDED IN ACCORDANCE WITH SECTION 16.131 OF THE HOWARD COUNTY SUBDIVISION REGULATIONS BY THE DEVELOPER.

Sewer House Connection Elevation @ ft

Station	Lot #	Elevation @ ft	Station	Lot #	Elevation @ ft
0+11.5 right	22	476.10	0+11.0 right	22	476.10
0+11.5 left	22	476.10	0+11.0 left	22	476.10
0+11.5 right	23	476.10	0+11.0 right	23	476.10
0+11.5 left	23	476.10	0+11.0 left	23	476.10
0+11.5 right	24	476.10	0+11.0 right	24	476.10
0+11.5 left	24	476.10	0+11.0 left	24	476.10
0+11.5 right	25	476.10	0+11.0 right	25	476.10
0+11.5 left	25	476.10	0+11.0 left	25	476.10
0+11.5 right	26	476.10	0+11.0 right	26	476.10
0+11.5 left	26	476.10	0+11.0 left	26	476.10
0+11.5 right	27	476.10	0+11.0 right	27	476.10
0+11.5 left	27	476.10	0+11.0 left	27	476.10
0+11.5 right	28	476.10	0+11.0 right	28	476.10
0+11.5 left	28	476.10	0+11.0 left	28	476.10
0+11.5 right	29	476.10	0+11.0 right	29	476.10
0+11.5 left	29	476.10	0+11.0 left	29	476.10
0+11.5 right	30	476.10	0+11.0 right	30	476.10
0+11.5 left	30	476.10	0+11.0 left	30	476.10
0+11.5 right	31	476.10	0+11.0 right	31	476.10
0+11.5 left	31	476.10	0+11.0 left	31	476.10

ADDRESS CHART

LOT NUMBER	STREET ADDRESS
22	10266 Raleigh Tavern Lane
23	10262 " "
24	10258 " "
25	10254 " "
26	10250 " "
27	10246 " "
28	10242 " "
29	10238 " "
30	10234 " "
31	10230 " "

32	10226 Raleigh Tavern Lane
33	10222 Raleigh Tavern Lane
34	10218 Raleigh Tavern Lane
35	10201 Red Lion Tavern Court
37	10209 Red Lion Tavern Court
38	10213 Red Lion Tavern Court

SUBDIVISION NAME	SEC./AREA	LOTS
MARKET SQUARE SOUTH	7	22-35, 37-38
PLAT NO. OR L.F. BLK. NO.	ZONE	TAX/ZONING MAP/ELEC. DIST. CENSUS TR.
60-34-200	R-20	7, MD. 6021
WATER CODE (HOB)	SEWER CODE	
	578-0000	

ENGINEERING LANDSCAPE DESIGN CONSTRUCTION CONTRACTING DEVELOPMENT COST PROPERTY DEVELOPMENT

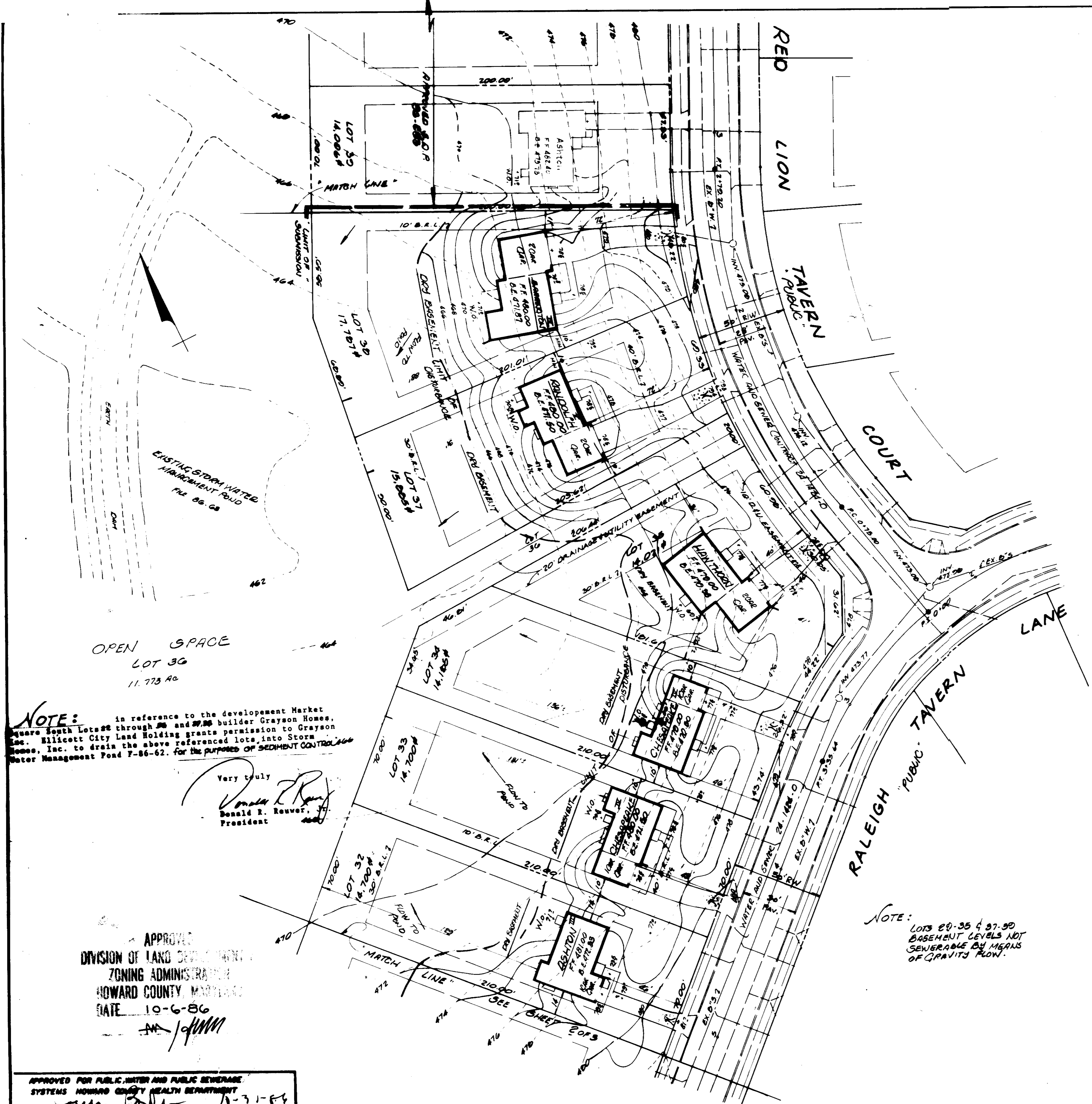
LAND DESIGN ASSOC.
718 HIGHWOOD DRIVE
BALTIMORE, MD 21212

DESIGNED: R.L.W.
DRAWN: R.L.W.
CHECKED: R.L.W.
DATE: 9/15/86

SCALE: 1"=30'
DRAWING: 1 OF 3
JOB NO.:
FILE NO.:

SITE DEVELOPMENT'S SEDIMENT CONTROL PLAN
MARKET SQUARE SOUTH
LOTS 22-35 & 37, 38
2ND ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

OWNER: GRAYSON HOMES, INC.
285 CRYSTAL DRIVE, SUITE 1
BLUMMIT CITY, MD 21043



NOTE: in reference to the development Market Square South Lots 22 through 38 and 37, 38 builder Grayson Homes, Inc. Bllicett City Land Holding grants permission to Grayson Homes, Inc. to drain the above referenced lots into Storm Water Management Pond 7-86-02, for the purposes of SEDIMENT CONTROL.

Very truly,
Donald E. Reuver, Jr.
President

APPROVED
DIVISION OF LAND SERVICES
ZONING ADMINISTRATION
HOWARD COUNTY, MARYLAND
DATE: 10-6-86

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

11-31-86

11-3-86

10-21-86

10-23-86

NOTICE FOR HOWARD S.C.S. AND NEIGH. TECHNICAL REQUIREMENTS

10-20-86

U.S. SOIL CONSERVATION SERVICE

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

10/20/86

U.S. SOIL CONSERVATION SERVICE

DEVELOPER/BUILDER'S CERTIFICATE

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 PERSONS INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A SEPT. OF NATURAL RESOURCES AND EROSION CONTROL BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERSONS ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OF THEIR AUTHORIZED AGENTS, AS DEEMED NECESSARY.

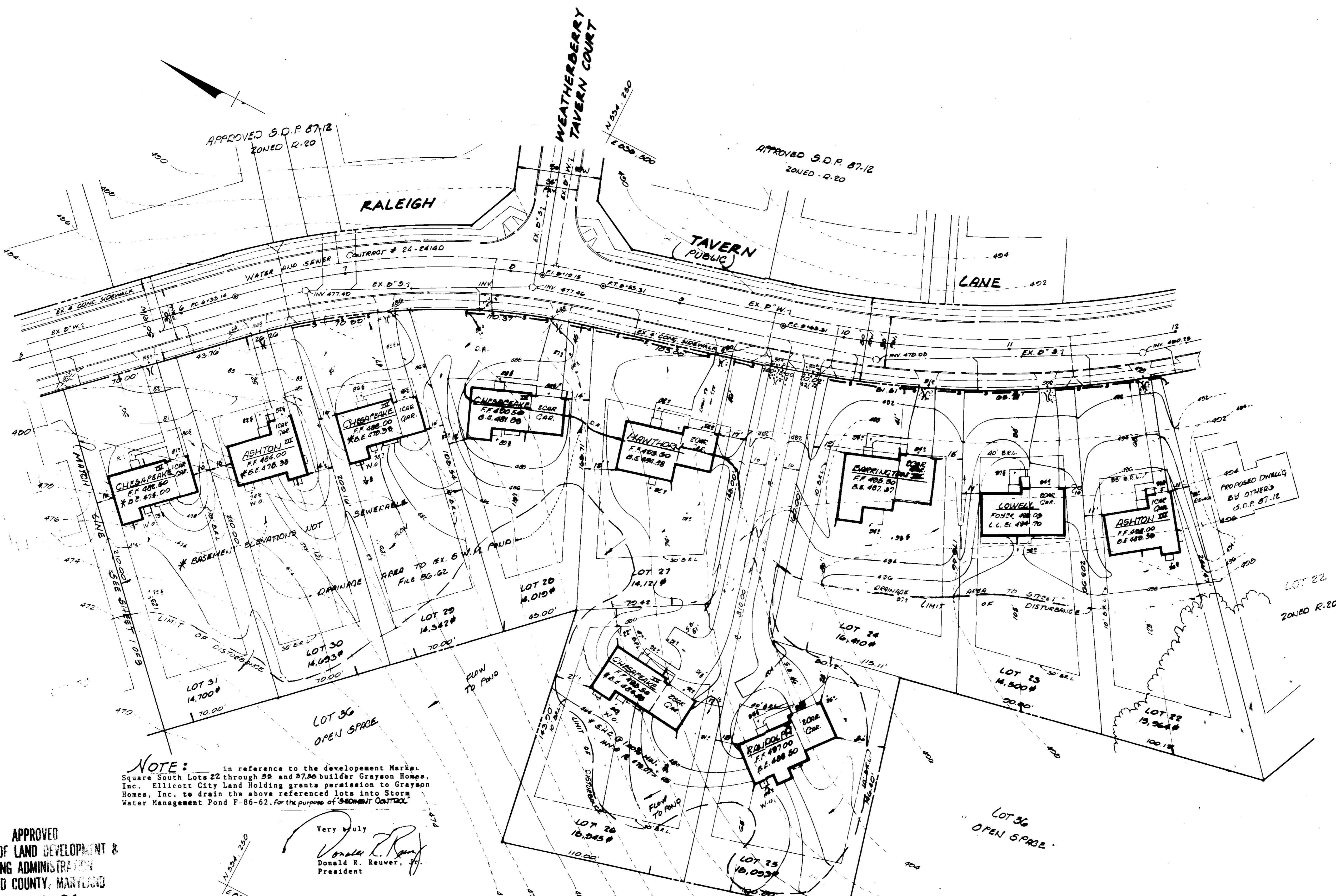
10/8/86

ENGINEER'S CERTIFICATE

I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

10/11/86





NOTE: in reference to the development Market Square South Lots 22 through 36 and 37.90 builder Grayson Homes, Inc. Ellicott City Land Holding grants permission to Grayson Homes, Inc. to drain the above referenced lots into Storm Water Management Pond F-86-62. For the purpose of "SEDIMENT CONTROL"

NOTE: LOTS 20-35 AND 37.90 BASEMENT LEVELS NOT SEWERABLE BY MEANS OF GRAVITY FLOW.

APPROVED
DIVISION OF LAND DEVELOPMENT &
ZONING ADMINISTRATION
HOWARD COUNTY, MARYLAND
DATE 10-6-86

Very truly
Donald R. Reuver, Jr.
Donald R. Reuver, Jr.
President

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS HOWARD COUNTY HEALTH DEPARTMENT
DATE 10-21-86
APPROVED HOWARD COUNTY OFFICE OF PLANNING & ZONING
DATE 11-3-86
APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE STORM DRAINAGE SYSTEMS AND PUBLIC WORKS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DATE 10-29-86
DATE 10-27-86

REVIEWED FOR HOWARD S.C.D. AND MEETS TECHNICAL REQUIREMENTS
DATE 10-20-86
SIGNATURE
U.S. SOIL CONSERVATION SERVICE

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT
DATE 10/11/86

DEVELOPER/BUILDER'S CERTIFICATE
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 PERSONS INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A SECT. OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION CONTROL BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERSONS ON-SITE REPRESENTING THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS AS SEEMED WISE DURING
DATE 10/11/86

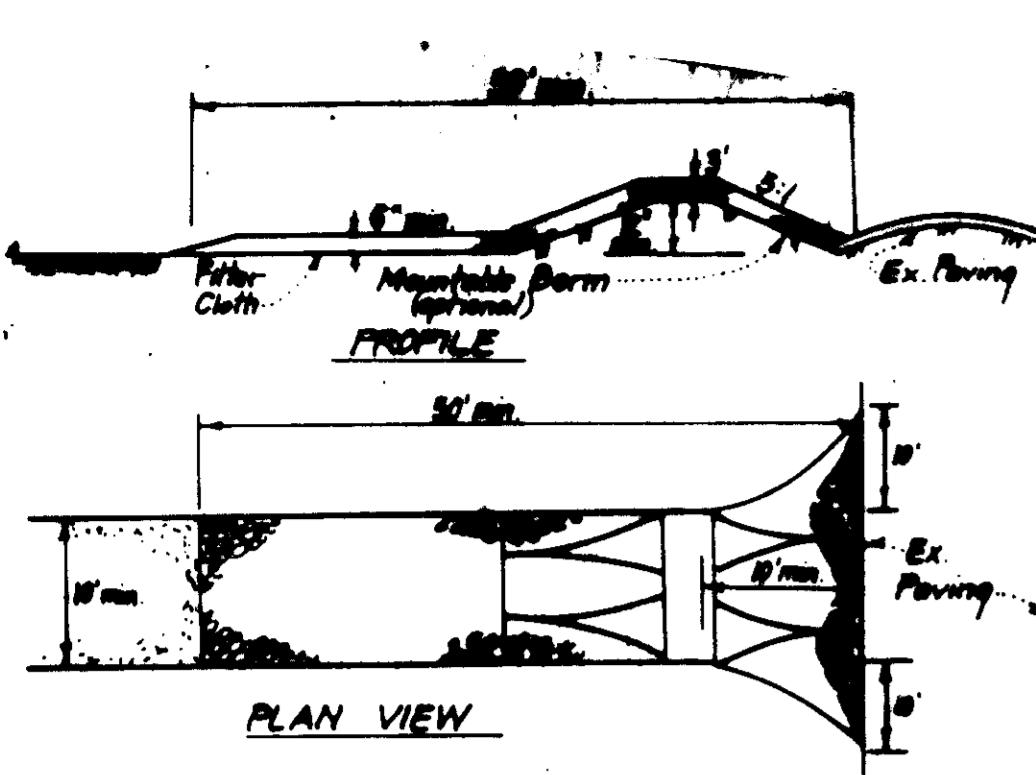
ENGINEER'S CERTIFICATE
I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND FEASIBLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.
Walter P. Blanche
ENGINEER
DATE 10/11/86



LAND DESIGN ASSOC.
75 ANNEAPOLIS ROAD
ANNAPOLIS, MD 21403

ENGINEERING	SITE DEVELOPMENT'S SEDIMENT CONTROL PLAN MARKET SQUARE SOUTH LOTS 22-36-37.90 2ND ELECTION DISTRICT HOWARD COUNTY, MARYLAND	1"=50'
LANDSCAPE DESIGN		1"=25'
CONSTRUCTION COST ESTIMATION		1"=10'
PROPERTY DEVELOPMENT		1"=10'
DATE	10/11/86	

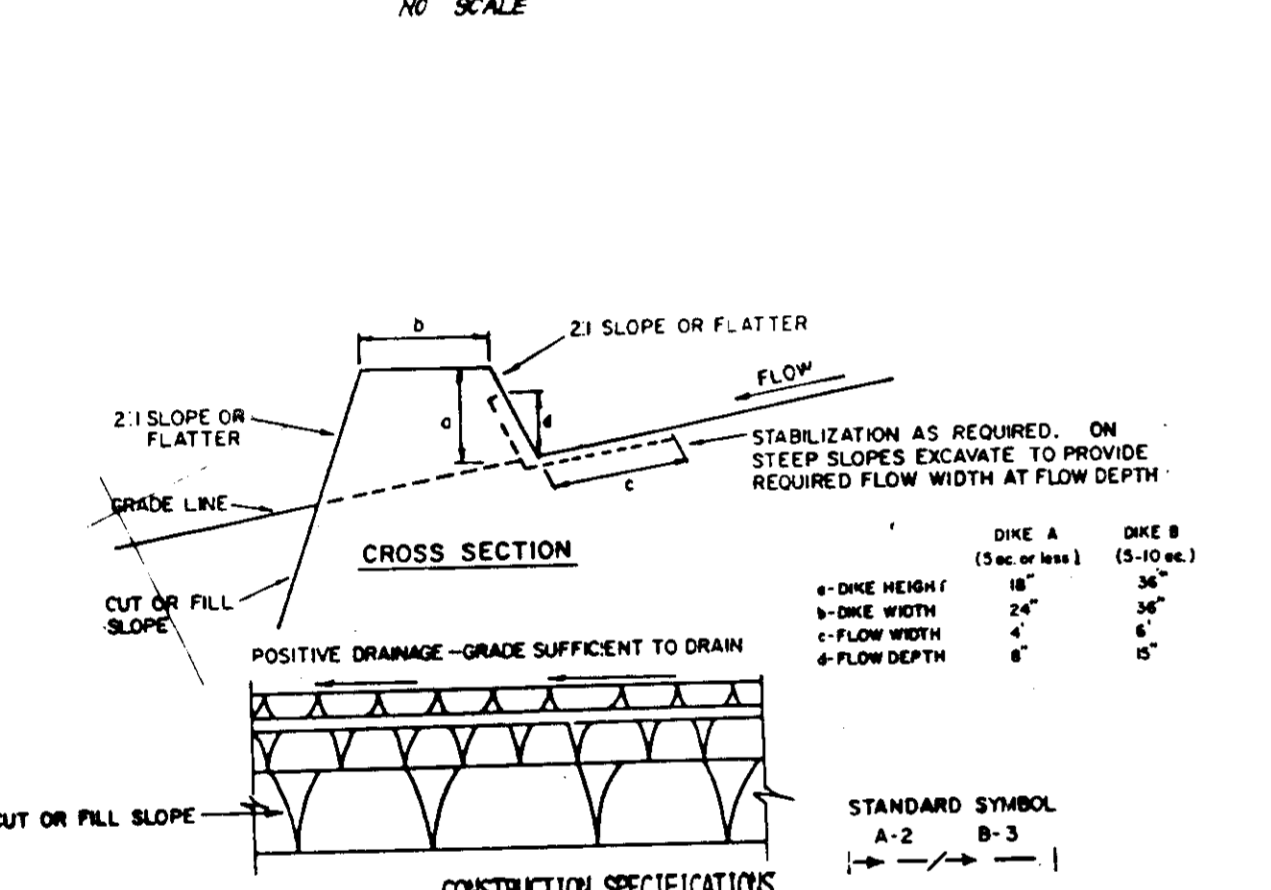
DESIGNED BY: GRAYSON HOMES, INC.
DRAWN BY: GRAYSON HOMES, INC.



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 simple 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 of 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 simple 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 maintenance berm with 5:1 slope 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 by conditions of use and/or repair and/or cleaning of any materials 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. Wheel washing shall be done on a concrete pad or a similar surface which is not adjacent to any public right-of-way.
9. Periodic inspection and needed maintenance shall be provided after each rain event.

STABILIZED CONSTRUCTION ENTRANCE (SCE)



1. ALL DIKES SHALL BE COMPACTED BY EARTH-MOVING EQUIPMENT.
2. ALL DIKES SHALL HAVE POSITIVE DRAINAGE TO AN OUTLET.
3. TOP WIDTH MAY BE WIDER AND SIDE SLOPES MAY BE FLATTER IF DESIRED TO FACILITATE CROSSING BY CONSTRUCTION TRAFFIC.
4. FIELD LOCATION SHOULD BE ADJUSTED AS NEEDED TO UTILIZE A STABILIZED SAFE OUTLET. EARTH DIKES SHALL HAVE AN OUTLET THAT FUNCTIONS WITH A MINIMUM OF EROSION. RUNOFF SHALL BE CONVEYED TO A SEDIMENT TRAPPING DEVICE SUCH AS A SEDIMENT TRAP OR SEDIMENT BASIN WHERE EITHER THE DIKE CHANNEL OR THE DRAINAGE AREA ABOVE THE DIKE ARE NOT ADEQUATELY STABILIZED.
5. STABILIZATION SHALL BE: (A) IN ACCORDANCE WITH STANDARD SPECIFICATIONS FOR SEED AND STRAW MULCH OR STRAW MULCH IF NOT IN SEEDING SEASON, (B) FLOW CHANNEL AS PER THE CHART BELOW.

TYPE OF TREATMENT	CHANNEL GRADE	DIKE A	DIKE B
1	5-3.0%	SEED AND STRAW MULCH	SEED AND STRAW MULCH
2	3.1-5.0%	SEED AND STRAW MULCH	SEED USING JUTE, OR EXCELSDRIP SOG; 2" STONE
3	5.1-8.0%	SEED WITH JUTE, OR SOG; 2" STONE	LINED RIP-RAP 4-8"
4	8.1-20%	LINED RIP-RAP 4-8"	ENGINEERING DESIGN

EARTH DIKE (E.D.)

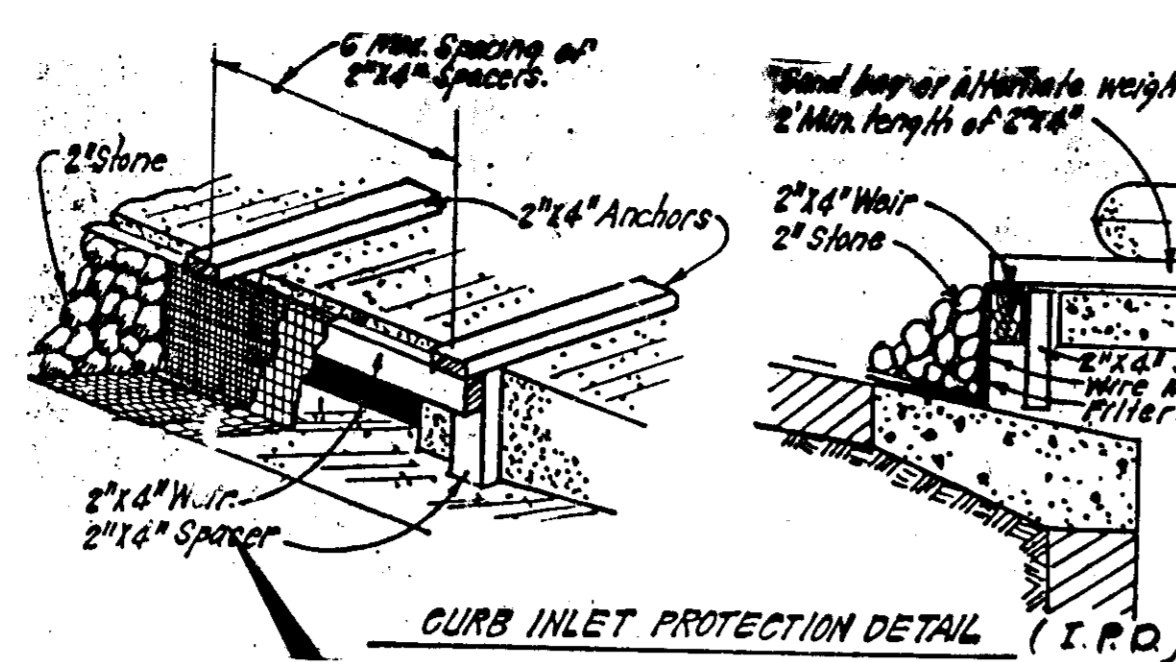
APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS HOWARD COUNTY HEALTH DEPARTMENT.

APPROVED HOWARD COUNTY OFFICE OF PLANNING & ZONING

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

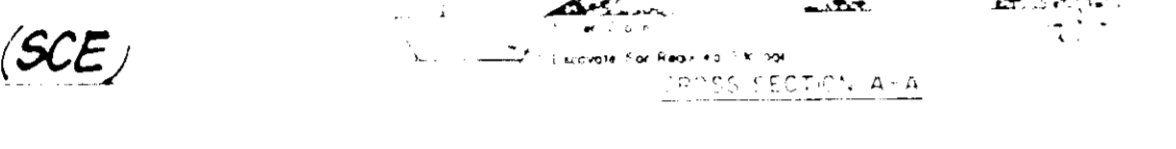
REVIEWED FOR HOWARD S.C.D. AND MEETS TECHNICAL REQUIREMENTS

U.S. SOIL CONSERVATION SERVICE



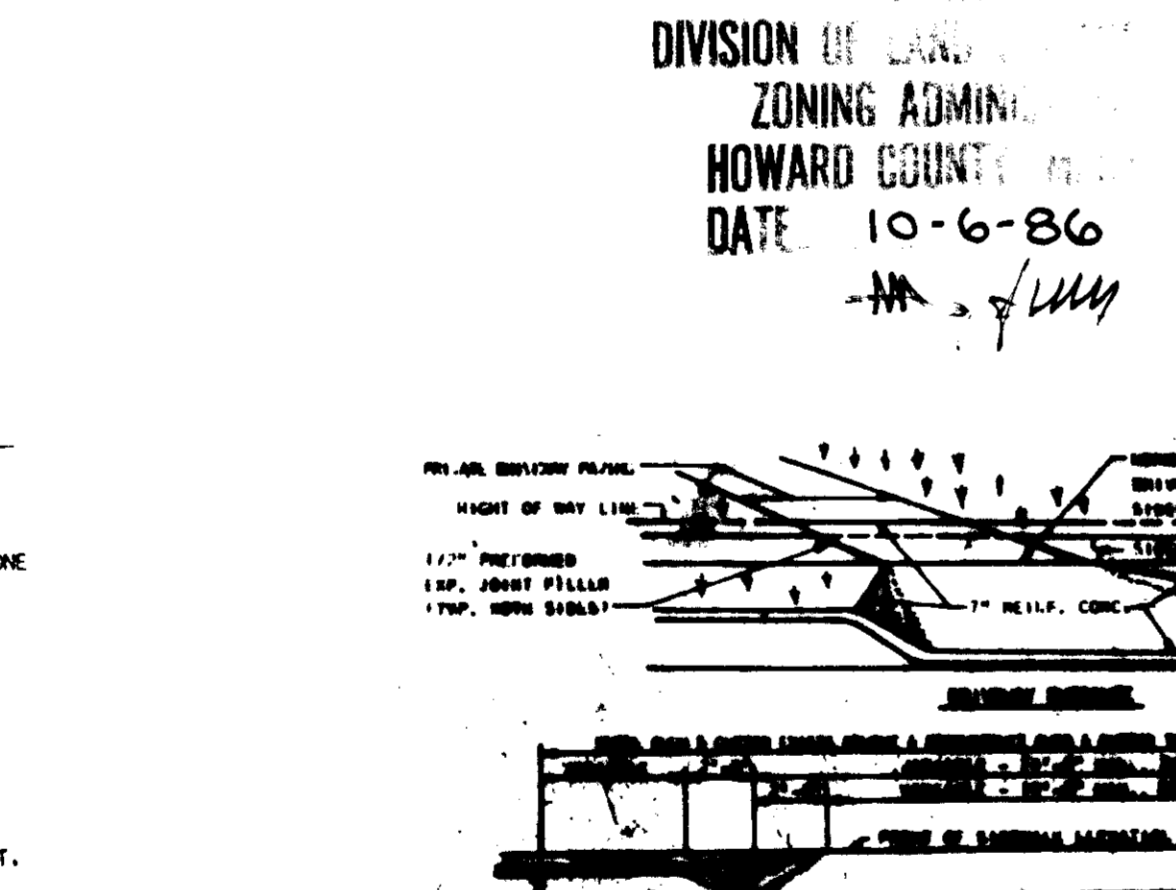
INLET PROTECTION DETAIL (I.P.D.)

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 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 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 SOIL EROSION AND SEDIMENT CONTROL for permanent seedings (Sec. 51) and (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: 5.51 Acres
 - Area Disturbed: 1.58 Acres
 - Area to be roofed or paved: 2.88 Acres
 - Area to be vegetatively stabilized: 1.09 Acres
 - Total Cut: 1.17 Cu. yds
 - Total Fill: 1.17 Cu. yds
 - Offsite waste/borrow area location: N.A.
8. Any sediment control practice which is disturbed by construction activities shall be replaced or repaired within 7 calendar days of the date of disturbance. If the practice is not replaced or repaired within 7 calendar days, the contractor shall be responsible for the cost of replacement or repair.



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 roots and other woody vegetation as well as oversized stones, rocks, organic material or other objectionable material. The embankment shall be compacted 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 riprap 4"-8" along with a 1" thickness of 2" aggregate placed on the upgrade side on the small riprap and embedded filter cloth in 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 erosion and water pollution is minimized.
8. The structure shall be removed and the area stabilized when the drainage area has been properly stabilized.



TYPICAL HOUSES

APPROVED

DIVISION OF LAND USE AND ZONING

HOWARD COUNTY

DATE 10-6-86

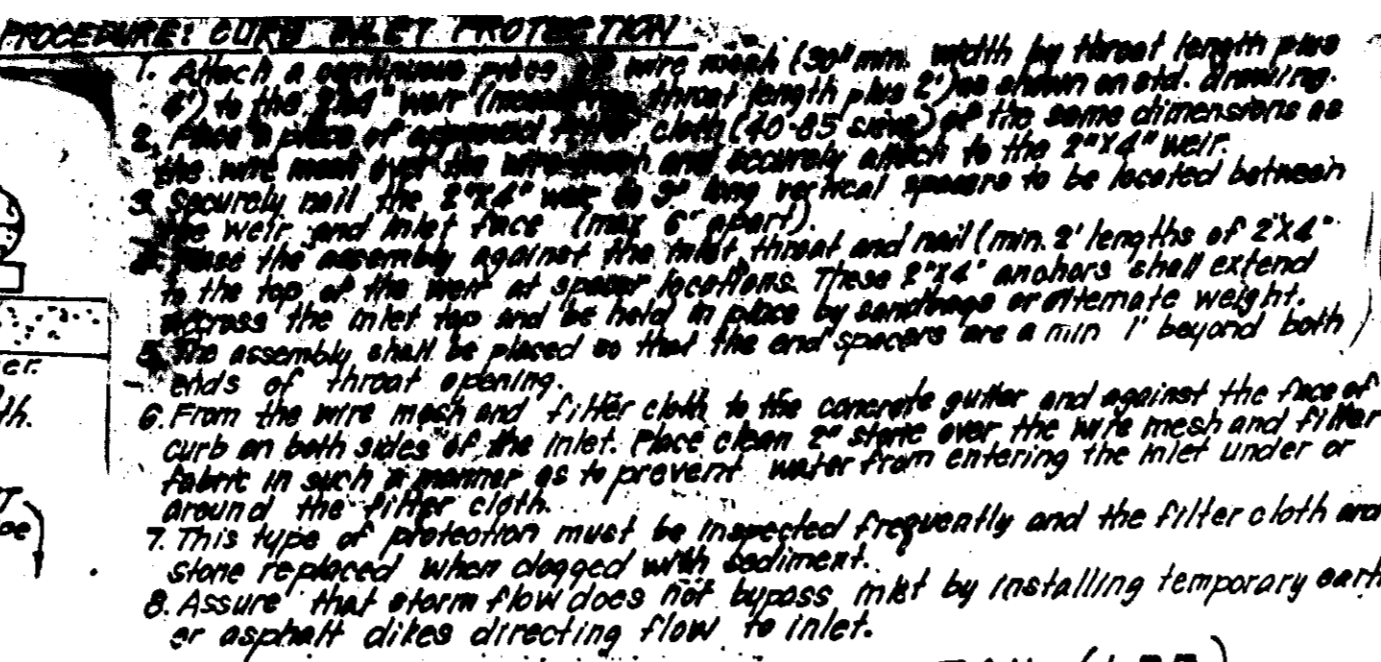
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APPROVED HOWARD COUNTY OFFICE OF PLANNING & ZONING

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

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

U.S. SOIL CONSERVATION SERVICE



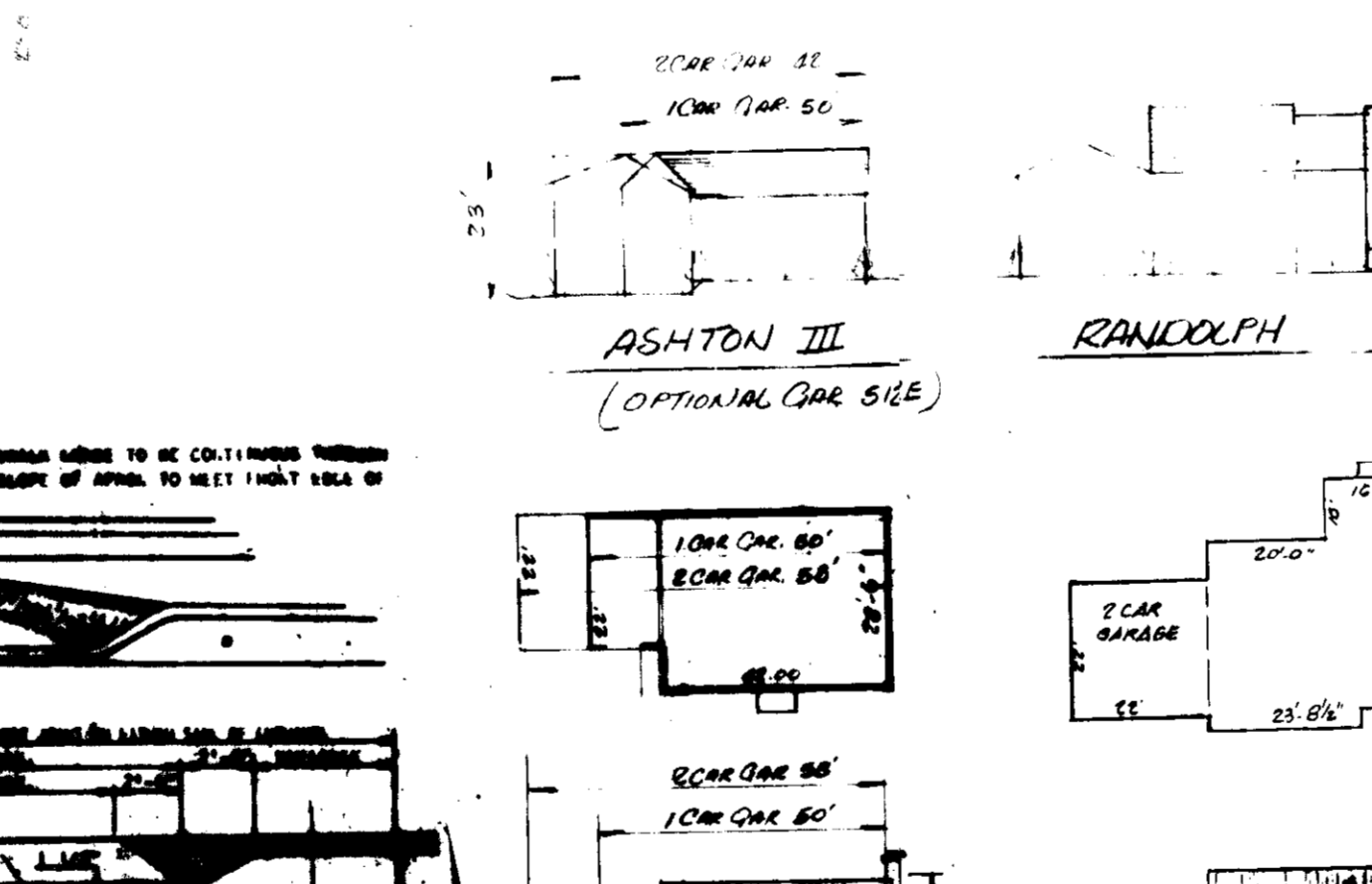
PROCEDURE CURB INLET PROTECTION

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 - Total Fill: 1.17 Cu. yds
 - Offsite waste/borrow area location: N.A.
8. Any sediment control practice which is disturbed by construction activities shall be replaced or repaired within 7 calendar days of the date of disturbance. If the practice is not replaced or repaired within 7 calendar days, the contractor shall be responsible for the cost of replacement or repair.



OPTION: A one foot layer of 2 inch stone may be placed on the upstream side of the riprap or place of the embedded filter cloth.

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 roots and other woody vegetation as well as oversized stones, rocks, organic material or other objectionable material. The embankment shall be compacted by traversing with equipment while it is being constructed.
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HOWARD COUNTY

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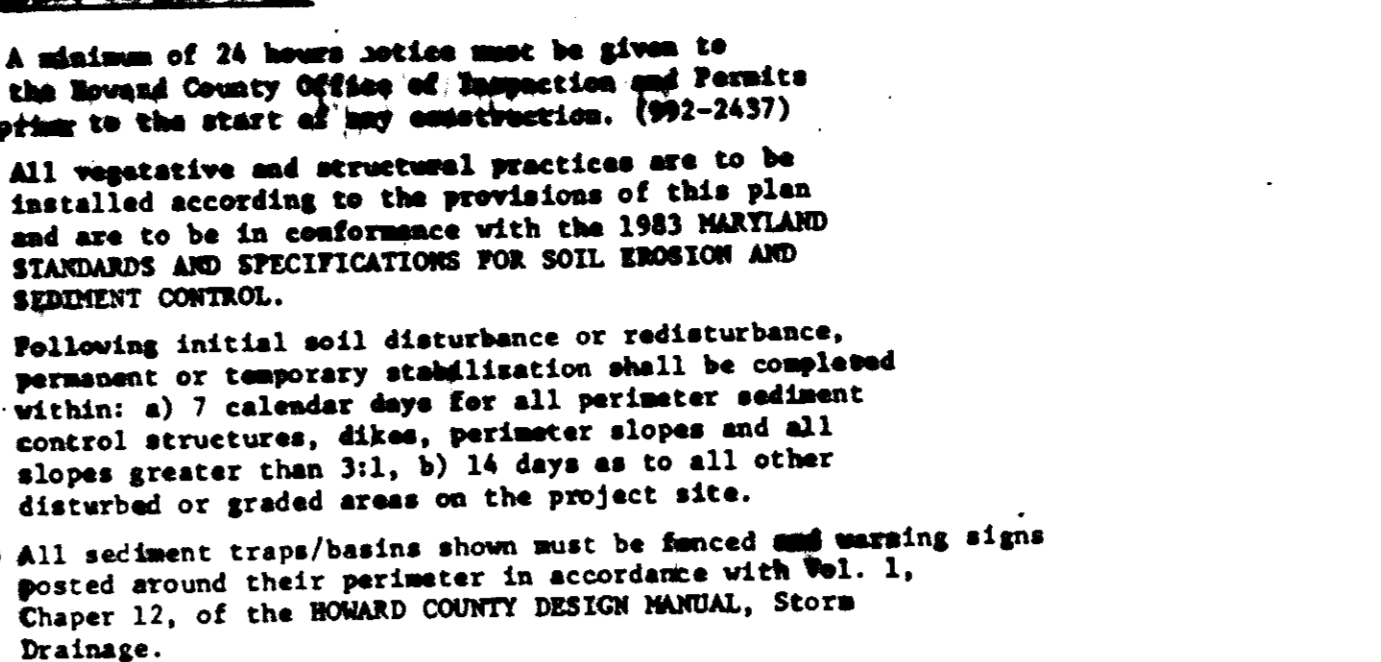
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APPROVED HOWARD COUNTY OFFICE OF PLANNING & ZONING

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

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

U.S. SOIL CONSERVATION SERVICE

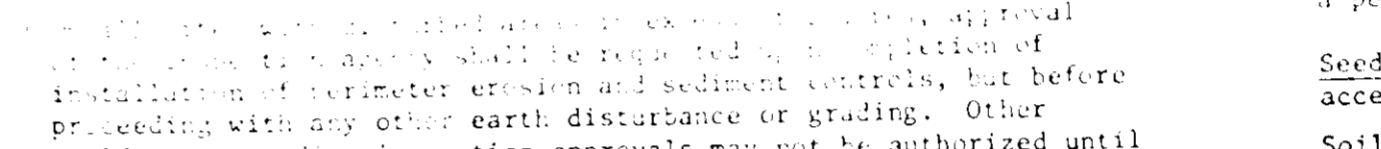


VICINITY MAP

SCALE 1" = 1200'

GENERAL NOTES

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- 2) THE LAND INCLUDED IS ZONED R-20
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- 4) THE AREA COVERED IN THIS SUBMISSION IS LOCATED ON TAX MAP IT
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- 8) TOTAL NUMBER OF LOTS IN THIS SUBMISSION ARE 16
- 9) STREET TREES WILL BE PROVIDED IN ACCORDANCE WITH SECTION 12.13 OF THE HOWARD COUNTY SUBDIVISION REGULATIONS BY THE DEVELOPER.



SEEDING PREPARATION

- 1) Preferred - Apply 2 tons per acre dolomitic limestone (92 lbs/1000 square 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 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.

SOIL AMENDMENTS

- 1) Preferred - 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 6 feet or higher, use 348 gallons per acre (8 gal/1000 sq ft) for anchoring.
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MULCHING

APPROVED

DIVISION OF LAND USE AND ZONING

HOWARD COUNTY

DATE 10-6-86

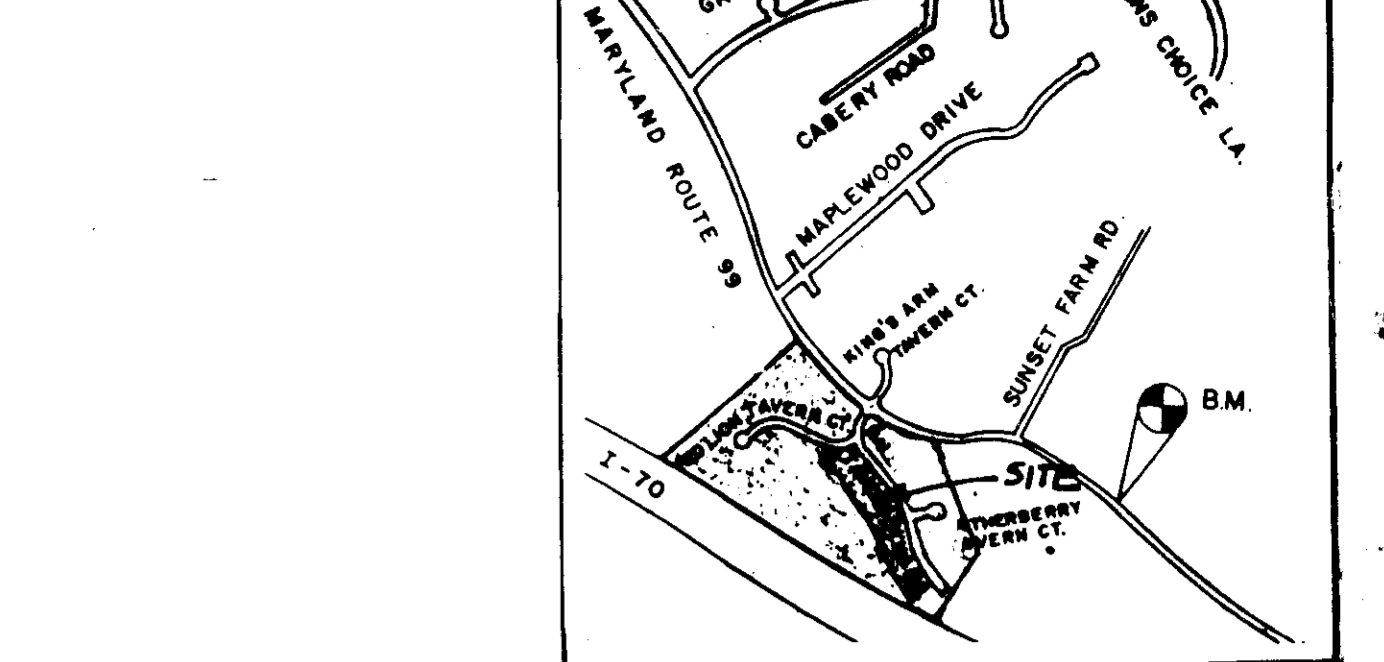
APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS HOWARD COUNTY HEALTH DEPARTMENT.

APPROVED HOWARD COUNTY OFFICE OF PLANNING & ZONING

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

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

U.S. SOIL CONSERVATION SERVICE

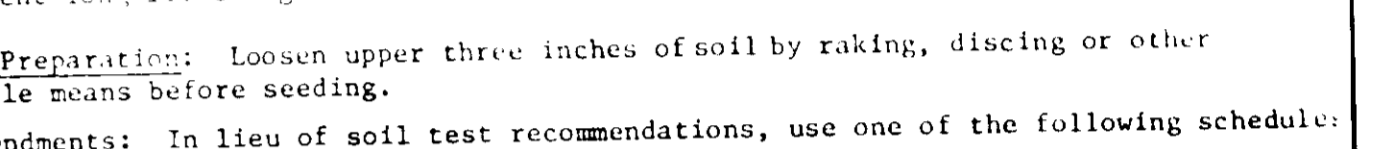


VICINITY MAP

SCALE 1" = 1200'

GENERAL NOTES

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- 2) Acceptable - 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 6 feet or higher, use 348 gallons per acre (8 gal/1000 sq ft) for anchoring.

MULCHING

APPROVED

DIVISION OF LAND USE AND ZONING

HOWARD COUNTY

DATE 10-6-86

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

APPROVED HOWARD COUNTY OFFICE OF PLANNING & ZONING

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

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

U.S. SOIL CONSERVATION SERVICE