

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. (992-2137)
- 2) All vegetative and structural practices 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 permanent seedings (Sec. 51) and temporary seedings (Sec. 50) and mulching (Sec. 52). Temporary stabilization with mulch alone can only be done when recommended seeding dates do not allow for proper permission 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	10,100.2 Acres
Area Disturbed	0.158 Acres
Area to be roofed or paved	0.014 Acres
Area to be vegetatively stabilized	0.142 Acres
Total Cut	140 Cu. Yds.
Total Fill	140 Cu. Yds.
Off-site stock/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 DWM 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. N/A
- 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 175 L.F.

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, if not previously loosened.

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. 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.

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 per 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 gal per acre (8 gal/1000 sq ft) for anchoring.

Maintenance - Inspect all seeded areas and make needed repairs, replacements and reseedings.

TEMPORARY SEEDING NOTES

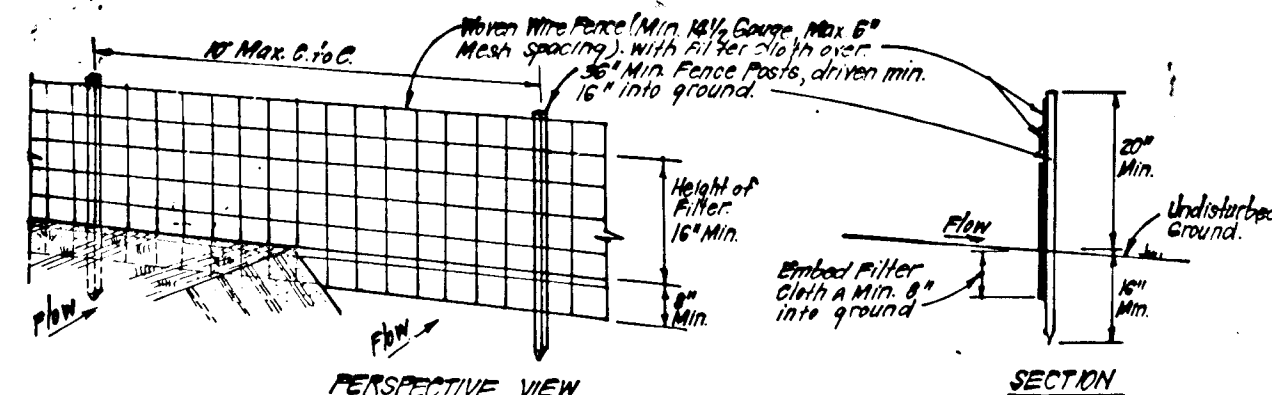
Apply to graded or cleared areas likely to be redisturbed where a short-term vegetative cover is needed.

Seedbed Preparation: Loosen upper three inches of soil by raking, discing or other acceptable means before seeding, if not previously loosened.

Soil Amendments: Apply 400 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 (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 rate and methods not covered.

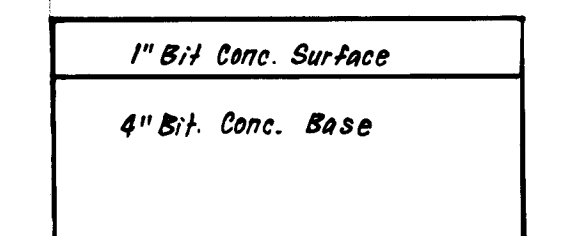


PERSPECTIVE VIEW

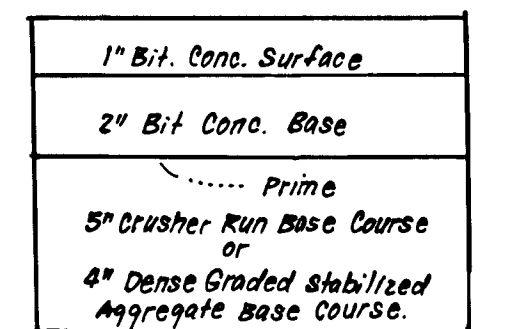
CONSTRUCTION SPECIFICATIONS:

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\"/>

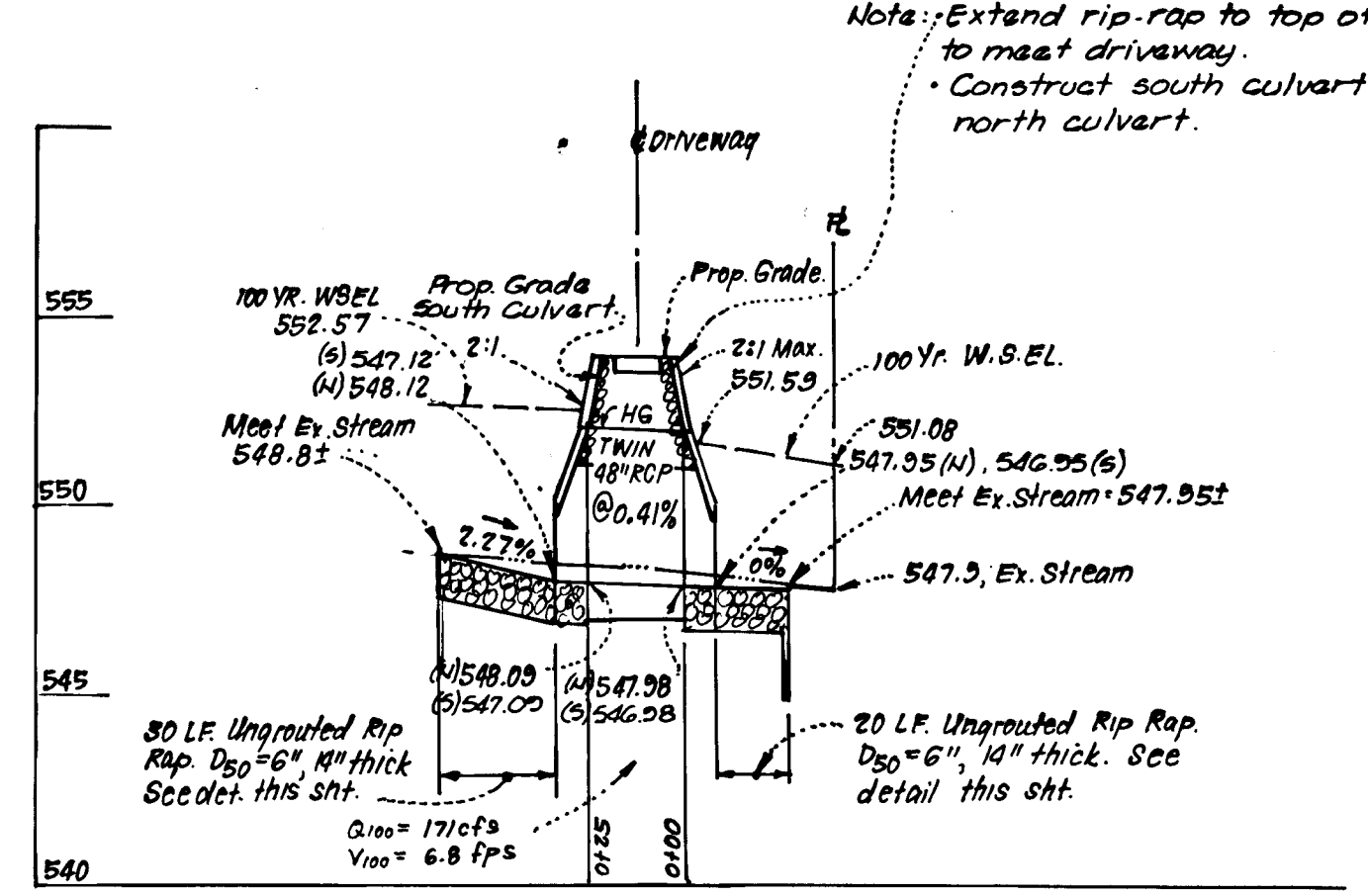
SILT FENCE DETAIL (9)



PAVING SECTION (P-1)
NO SCALE



ALTERNATE PAVING SECTION (P-1)
NO SCALE



PROFILE

SCALE: HORIZ. 1\"/>

CONSTRUCTION SEQUENCE:

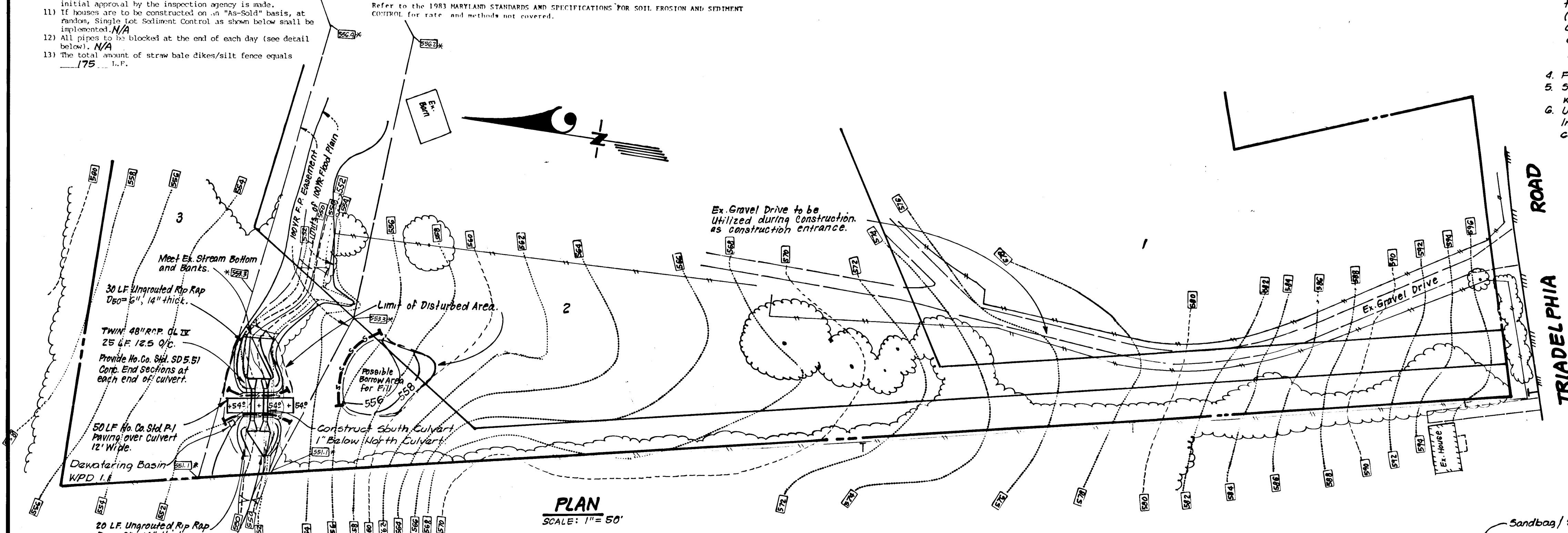
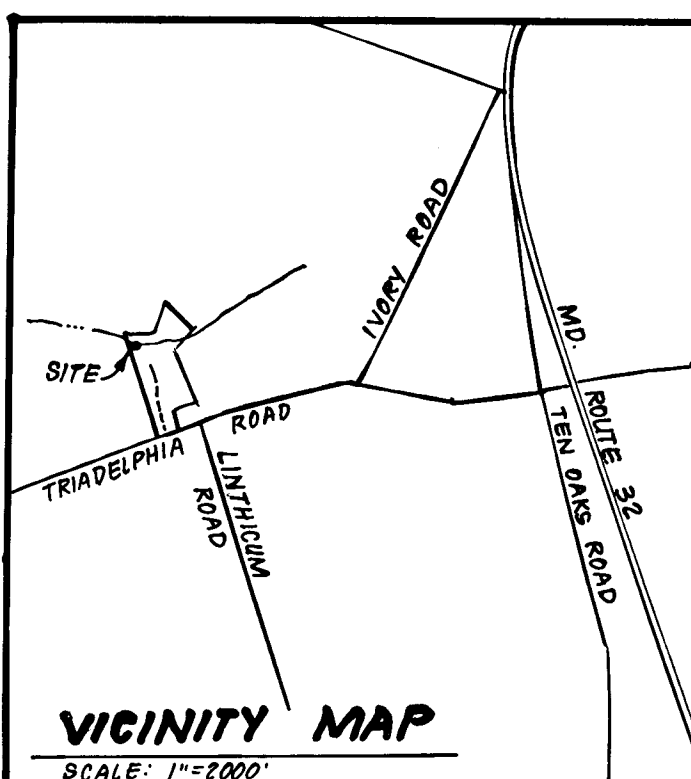
- | NO. | DESCRIPTION | NO. OF DAYS |
|-----|---|-------------|
| 1. | Obtain grading permit and Dept. of Natural Resources W.R.A. permit. | 7 |
| 2. | Install Silt Fence around Borrow Area and excavate for rip rap on downstream side of culvert. | 1 |
| 3. | Install North Culvert and temporarily divert stream through culvert (See Sandbag Stone Diversion WPD 2.3) All dewatered discharges to be filtered through a dewatering basin (WPD 1.1) before re-entering the stream. Construct South Culvert 1' below North Culvert while diversion and WPD 1.1 is in place and backfill over pipes and install rip-rap. | 1 |
| 4. | Final grade and construct paving. | 1 |
| 5. | Stabilize all disturbed areas in accordance with stds. and space. | 14 |
| 6. | Upon approval of the Sediment Control Inspector, remove sediment and erosion control measures and stabilize. | 14 |

GENERAL NOTES

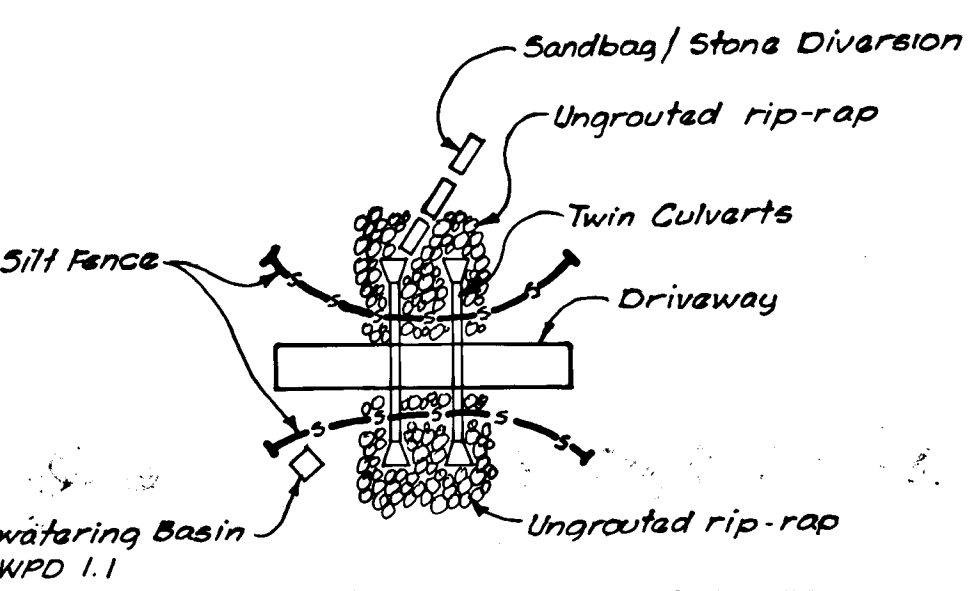
1. All storm drain & paving shall be constructed in accordance with the latest edition and specifications of Howard County & MD SHA.
2. Types of storm drainage refer to the Standard Details of Ho. Co. & MD SHA.
3. Information concerning underground utilities was obtained from available records, but the contractor must determine the exact location and elev. of mains by digging test pits, by hand, at all utility crossings well in advance of construction.
4. All utility companies shall be notified 24hrs. in advance of construction.
5. The contractor or developer shall contact the Construction Inspection/Survey Division, 24 hrs. in advance of construction. Phone: 752-2272.
6. Zoning: R

LEGEND

1. Contour Interval 2 Ft.
2. Existing Contour
3. Proposed Storm Drain



PLAN
SCALE: 1\"/>



SCHEMATIC PLAN SHOWING CULVERTS & SEDIMENT AND EROSION CONTROL MEASURES
No Scale

DEVELOPER'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 personnel involved in the construction project will have a Certificate of Attendance at a Dept. 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.

Signature of Developer/Builder: Donald O. Crum Date: 3/16/88

Reviewed for Howard County S.C.D. Name: Howard and meets Technical Requirements Signature: James M. Miller Date: 5/10/88 U.S. Soil Conservation Service

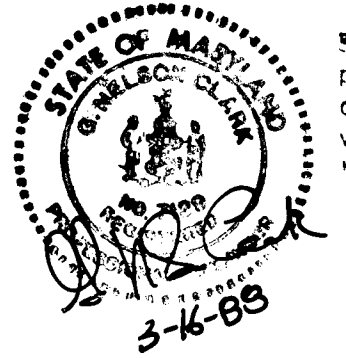
THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.

Signature: Stephen L. Palmer Date: 5/10/88 Approved Date

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: G. Nelson Clark Date: 3-16-88



DATE	REVISION
9-12-86	Revised per comments from W.R.A.

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

Signature: Donald O. Crum Date: 5/17/88
Chief, Land Development Division

Signature: James M. Miller Date: 5/10/88
Chief, Bureau of Highways

Signature: James M. Miller Date: 5/10/88
Chief, Bureau of Engineering

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING

Signature: James M. Miller Date: 5/25/88
Chief, Division of Community Planning & Land Development

CLARK • FINEFRICK & SACKETT, INC.
ENGINEERS • PLANNERS • SURVEYORS
7135 MINTFREL WAY • COLUMBIA, MD 21045 • (301) 381-7200 - BALTO • (301) 621-8100 - WASH

DESIGNED	SCALE
JLS	AS SHOWN
DRAWN	DRAWING
KRW	1 OF 1
CHECKED	JOB NO.
JLS	87135
DATE	FILE NO.
3-15-88	87135-D

DRIVEWAY CULVERT PLAN
LOT 3
SADDLEBROOK
4th ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
FOR: CROSEN DEVELOPMENT CO. INC.
8775 Shady Lane
Glenwood Md. 21738