NOTE:
ALL SEDIMENT FROM GRADING ALONG OLD ANNAPOLIS ROAD WILL GO TO EXISTING BASINS OR TO A PROPOSED STRUCTURE.

DEPARTMENT OF PUBLIC WORKS
W O Eslbert 4-18-77
CHIEF, BUREAU OF HIGHWAYS DATE

OFFICE OF PLANNING AND ZONING
John Wimbrow 4-15-77
CHIEF, DIVISION OF LAND DEVELOPMENT DATE

DRAINAGE AREA FOR SEDIMENT BASIN = 41.45 ACRES

STA. 3+50 INTERCEPTOR DIKE SEE SHEET 3 OF 3

STA. 4+00 INTERCEPTOR DIKE SEE SHEET 3 OF 3

TOPSOIL STOCKPILE

DIVERSION DIKE SEE SHEET 3 OF 3

TEMPORARY SEDIMENT BASIN SEE SHEET 2 OF 3

DIVERSION DIKE SEE SHEET 3 OF 3

TEMPORARY SEDIMENT TRAP SEE SHEET 3 OF 3.

DRAINAGE AREA FOR SEDIMENT TRAP = 2.1 ACRES

STRAW BALE DIKE SEE SHEET 3 OF 3

OLD ANNAPOLIS ROAD · ANNAPOLIS ROAD · WATERFORD DRIVE · CABACHON CT. · MOSS GATE CT. · LANE · PULITZER CIRCLE · HERMITAGE · NOBEL CIRCLE · CEZANNE CIRCLE · DRIVE · KNOBS END COURT · CENTENNIAL · CENTURY · DRIVE · COLONIAL · COUNTRY · CROSS · CARILLON · CARILLON CT. · CHATELAINE CIRCLE · BELL CT. · CARILLON

N 518,000 · N 516,000 · N 515,000 · E 839,000 · E 840,000 · E 838,000 · E 839,000 · E 840,000 · E 841,000

PLAN
Scale : 1" = 200'

SITE ANALYSIS

TOTAL AREA TO BE DISTURBED 3.8 ACRES
TOTAL AREA TO BE VEGETATED 2.6 ACRES
TOTAL AREA OF PAVEMENT = 1.2 ACRES
TOTAL AREA OF SITE = 31.812 ACRES

PERMANENT SEEDING NOTES

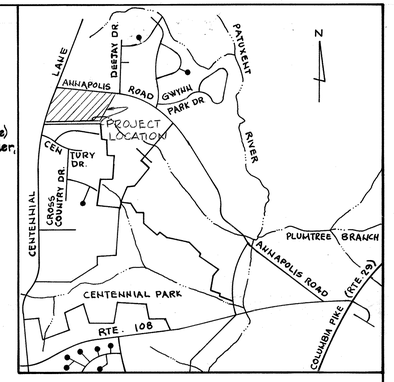
1. All Sediment Control Measures must be constructed and stabilized according to note 3 prior to any other grading on the site.
2. No Temporary Sediment Control Structure may be removed or destroyed without approval of the Howard Soil Conservation District.
3. All areas to be seeded (dikes, basins, drainage swales and disturbed areas) at the rate of 80 lbs./acre of the following: Kentucky 31 Tall Fescue - 60 lbs/acre and Korean Lespedeza (Scarify and Innoculate) 20 lbs./acre, immediately after construction. Sow with mechanical spreader, rake minimum two (2) passes with "York Rake", cover and compact with cultipacker. Surface preparation to include ground limestone over topsoil surface area at the rate of One Ton/acre (50#/1000 ft) commercial fertilizer (10-10-10) at the rate of 1000 lbs/acre. Mulch areas with straw at rate of Two Tons / Acre. Anchor with asphalt at the rate of 480 gallons/acre. Drainage Swales with slopes greater than 2% will be mulched as stated but the mulch in the center of the channel will be anchored with plastic netting ½" according to manufacturers recommendations. Stabilizations of slopes steeper than 3:1 shall be planted with Kentucky 31 Tall Fescue - 40#/acre (1#/1000 ft) and Crownvetch - (Scarify and Innoculate) 15 lbs./acre.

SODDING NOTES

1. Apply 10-10-10 Fertilizer @ 1000#/acre (25#/1000 ft).
2. Apply Ground Agricultural Limestone @ 2000#/acre (50#/1000 ft).
3. Incorporate both lime and fertilizer into soil by discing. Firm up after incorporation.
4. Lay sod to a tight fit. Roll to ensure contact with underlying soil. Water as necessary for 1st 2 weeks (in summer) to ensure establishment.

LAWN SEEDING NOTES

1. All Sediment Control Measures must be constructed and stabilized according to note 3 prior to any other grading on the site.
2. No Temporary Sediment Control Structure may be removed or destroyed without approval of the Howard Soil Conservation District.
3. All lawn areas to be seeded at the rate of 113 lbs./acre (3 lbs./1000 ft) of the following: Certified Bluegrass - 65½ lbs/acre (1½ lbs./1000 ft) and Creeping Red Fescue - 65½ lbs./acre (1½ lbs./1000 ft) immediately after construction. Sow with a mechanical spreader, rake minimum two (2) passes with "York Rake", cover and compact with cultipacker. Surface preparation to include ground limestone over topsoil surface area at the rate of One Ton/acre (50#/1000 ft) commercial fertilizer (10-10-10) at the rate of 1000 lbs/acre. Mulch areas with straw at the rate of 90 lbs./acre or One Ton/acre. Anchor with asphalt at the rate of 480 gallons/acre. Drainage Swales with slopes greater than 2% will be mulched as stated but the mulch in the center of the channel will be anchored with plastic netting ½" according to manufacturers recommendations.



VICINITY MAP
Scale: 1" = 2000'

GENERAL NOTES

1. Temporary, compacted, 18" High Earth Fill Diversion Dikes shall be constructed above the lips of Fill Slopes on the R.O.W. concurrently with the initial grading and directed to undisturbed sod areas at the end of each day.
2. Contractor to notify the Howard County Bureau of Inspection and Permits 465-5000 X 365 at least 3 days before starting work shown on these drawings.
3. All disturbed slope areas to be stabilized as soon as grading is completed.
4. Separate sediment control plans will be submitted at a later date to provide protection during house construction and lot grading. Approval of this plan is not intended to imply approval of grading for home construction. (See #7)
5. All swales shall be sodded and temped, and all slopes shall be seeded or sodded in conjunction with the Howard County Soil Conservation District and the Howard County Planning Board Standards entitled "Standards and Specifications for Soil Erosion and Sediment Control in Urbanizing Areas.
6. Contractor shall provide perforated Erosion Control Blankets in all Drainage Swales & Ditches as noted. The Blankets which shall be Jut Mat or approved equal, shall be placed full width of Swales. Seeding required under Blankets. See permanenant seeding notes.
7. Sediment control shown on these drawings will be used in conjunction with other control devices for lot grading during home construction although approval of these plans is for road construction.

SEQUENCE OF CONSTRUCTION

1. Owner shall secure a grading permit prior to any grading.
2. Install stone base course at entrances to Waterford Dr. at Centennial Lane and Old Annapolis Road.
3. Clear grub and strip the areas required for the construction of temporary sediment basins and trap and construct dikes as shown on this plan, utilizing the topsoil for street areas.
4. Topsoil from basin and trap excavation shall be stockpiled where designated on this sheet. Stabilize topsoil stockpile immediately after completion according to Note 3.
5. Construct the temporary sediment basins and temporary trap and stabilize immediately after completion.
6. Clear and strip the site as required and construct topsoil stockpiles where designated on this sheet and stabilize immediately after completion according to Note 3.
7. Stabilize all dikes, slopes and swales as required immediately after grading is completed.
8. Construct storm drain system and cap inlet. Any open storm drains to be covered with plywood at the end of each working day.
9. Complete roadway construction, including mountable curb and gutter and asphalt paving.
10. Stabilize all drainage ditches including ditch along rear of lots 55, 56, 57 and 1 thru 5 immediately after completion. According to Note (Seeding)
11. Remove the temporary sediment basins, sediment trap, diversion dikes after house construction. Site is complete and grass is established in the contributing drainage area. Stabilize areas when removed, according to Note 3.

WHITMAN, REQUARDT & ASSOCIATES
ENGINEERS
1304 ST. PAUL STREET
BALTIMORE, MARYLAND
Kenneth A McCord
KENNETH A. McCORD, P.E. 1974

Reviewed for Howard S.C.D. and meets Technical Requirements
Eric V. Herman Date 4/5/77
Signature
U.S. Soil Conservation Service

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT
Approved Robert W. Zielinski Date 4/15/77
Howard S/C.D.

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."

Richard Azrael 2-23-77
Signature of Developer Date

CERTIFICATION BY THE ENGINEER

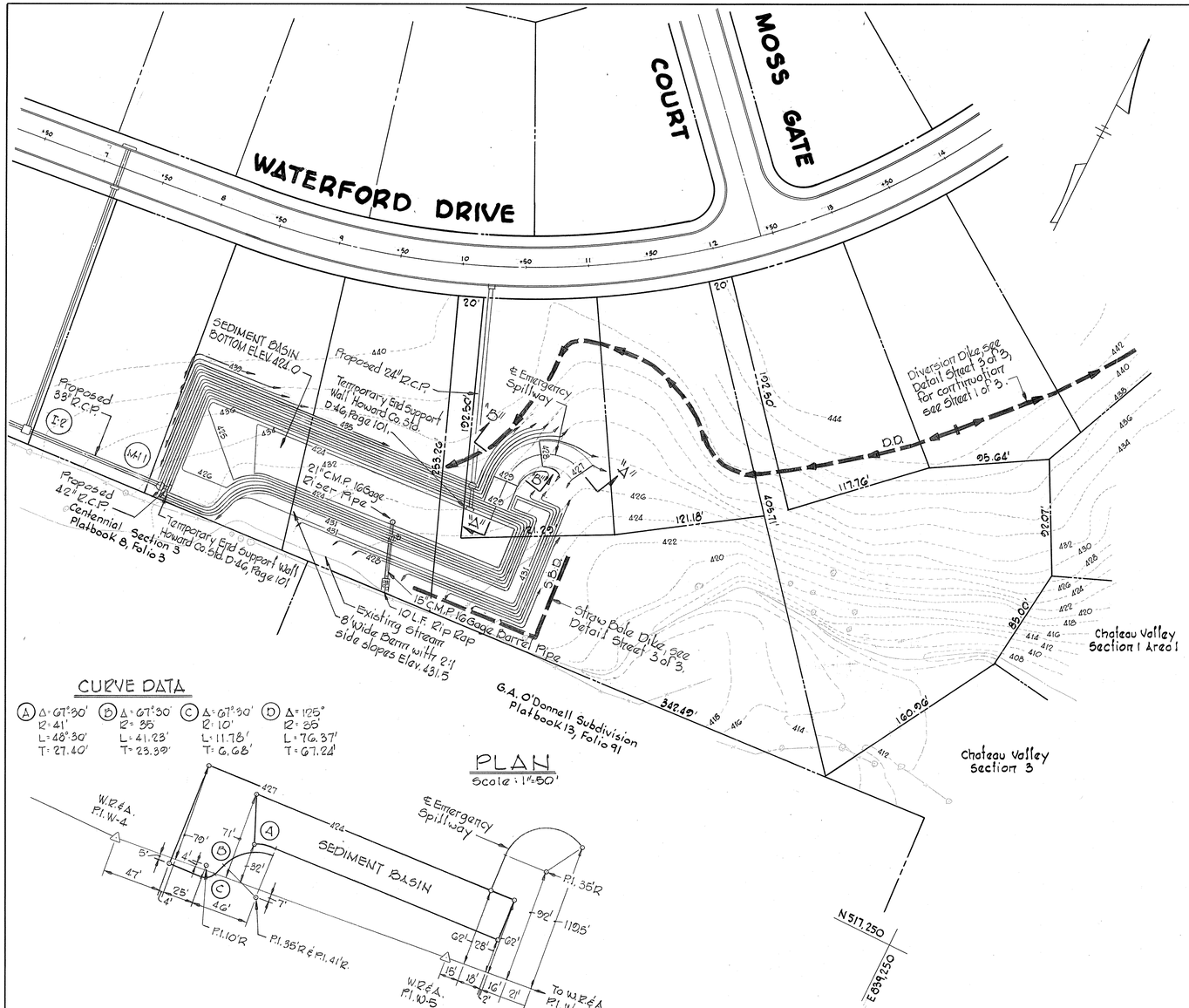
"I certify that this plan for Erosion and Sediment Control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District."

Kenneth A McCord 1/7/77
KENNETH A. McCord P.E. 1974 Date

CHATEAU VALLEY
SECTION 1 AREA 2
SEDIMENT CONTROL PLAN
2ND ELECTION DISTRICT OF HOWARD COUNTY, MD.
Date: 3-28 77 Scale: As Shown

#41

F-77-995C SHEET 1 OF 3
-044



CURVE DATA

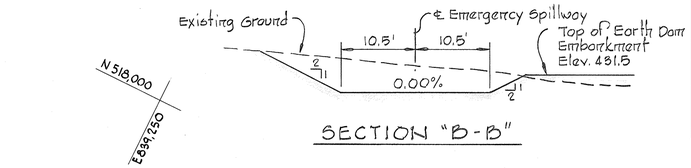
(A) Δ = 67°30'	(B) Δ = 67°30'	(C) Δ = 67°30'	(D) Δ = 125°
R = 41'	R = 35'	R = 10'	R = 35'
L = 48°.30'	L = 41.23'	L = 11.78'	L = 76.37'
T = 27.60'	T = 23.39'	T = 6.68'	T = 67.24'

PLAN

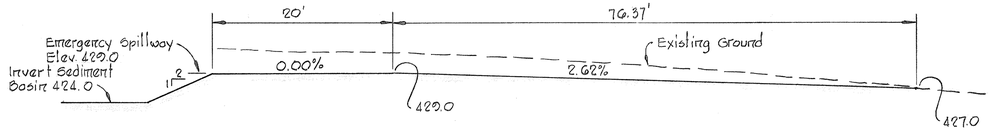
Scale: 1" = 50'

SEDIMENT BASIN STAKEOUT PLAN

Scale: 1" = 50'



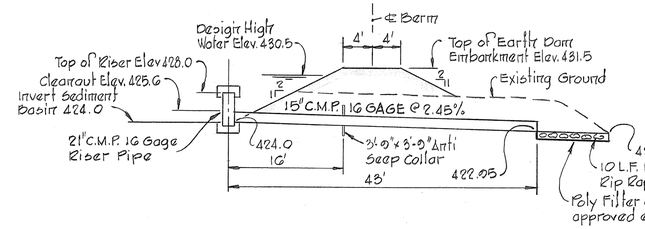
SECTION "B-B"



SECTION "A-A"

SECTIONS THRU EMERGENCY SPILLWAY

No Scale



SECTION THRU BERM @ 15" C.M.P.

No Scale

DEPARTMENT OF PUBLIC WORKS
W O Talbert — 4-8-77
CHIEF, BUREAU OF HIGHWAYS — DATE

OFFICE OF PLANNING AND ZONING
Joseph Merrashman — 4-15-77
CHIEF, DIVISION OF LAND DEVELOPMENT — DATE

PROJECT TITLE
CHATEAU VALLEY
SECTION 1 AREA 2
2ND ELECTION DISTRICT, HOWARD COUNTY, MARYLAND
SEDIMENT CONTROL PLANS AND SECTIONS

SCALE: AS SHOWN — DATE: 3-28-77

WHITMAN, REQUARDT & ASSOCIATES
ENGINEERS
BALTIMORE, MARYLAND 21202

DEVELOPER
BICENTENNIAL JOINT VENTURE
8654 BALTIMORE NATIONAL PIKE
ELLICOTT CITY, MARYLAND

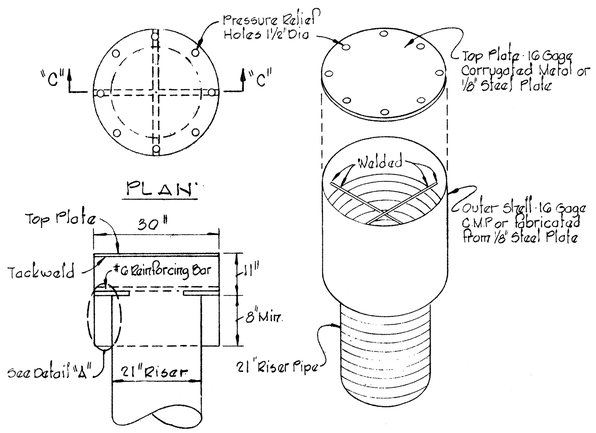
Kenneth A. McCord
KENNETH A. McCORD
Registered Engineer
No. 10714

F-77-99SC SHEET 2 OF 3

-015

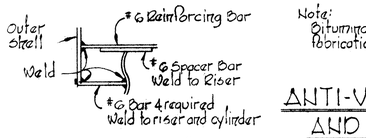
DEPARTMENT OF PUBLIC WORKS
W O Filbert 4-18-77
CHIEF, BUREAU OF HIGHWAYS DATE

OFFICE OF PLANNING AND ZONING
John W. Hessman 4-18-77
CHIEF, DIVISION OF LAND DEVELOPMENT DATE

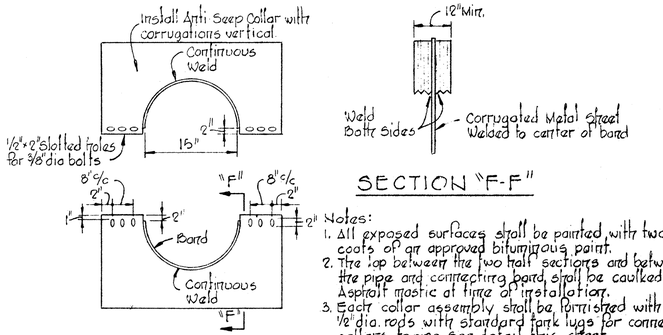


Note:
Bituminous Coat all surfaces after fabrication and attachment to riser.

ANTI-VORTEX DEVICE AND TRASH RACK
No Scale

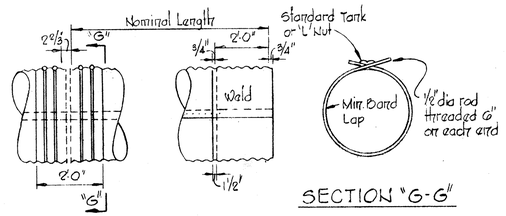


DETAIL "A"



Notes:
1. All exposed surfaces shall be painted with two coats of an approved bituminous paint.
2. The lap between the two half sections and between the pipe and connecting band shall be caulked with Asphalt mastic at time of installation.
3. Each collar assembly shall be furnished with two ½" dia. rods with standard tank lugs for connecting collars to pipe. See detail this sheet.

DETAIL - CORRUGATED METAL ANTI-SEEP COLLAR
No Scale



DETAIL - WATERTIGHT COUPLING BAND
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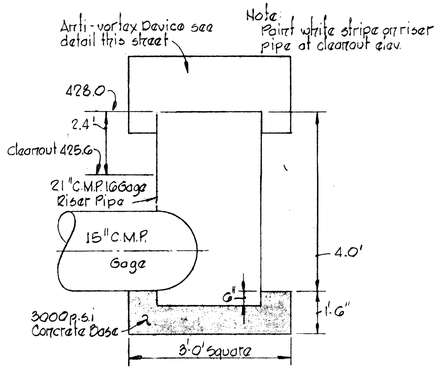
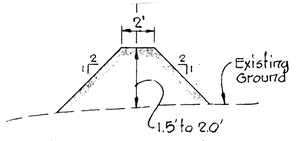
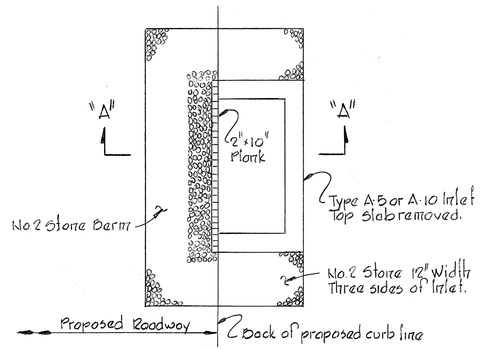


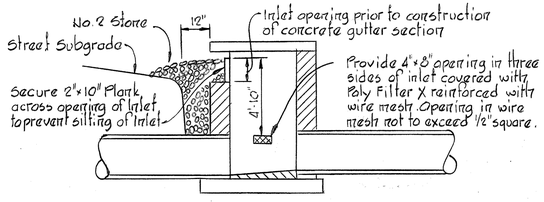
RISER DETAIL
No Scale



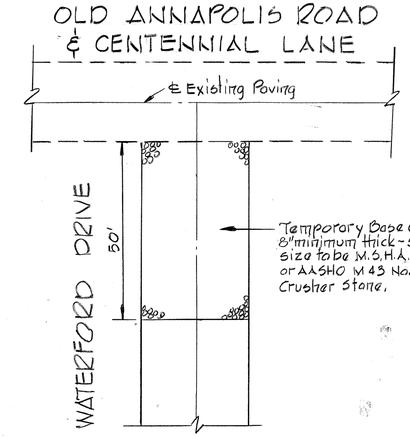
Note: Diversion Berm shall be Stabilized, see Note 3 this sheet.

DIVERSION DIKE & INTERCEPTOR DIKE
No Scale

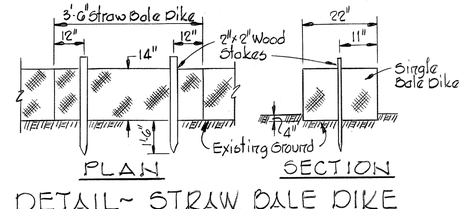




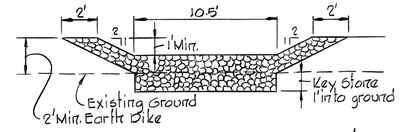
ROADWAY INLET DETAIL
No Scale



TEMPORARY ENTRANCE DETAILS
No Scale

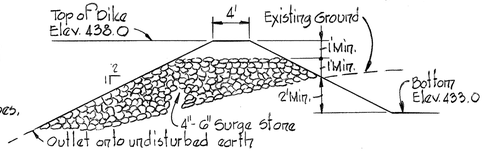


DETAIL - STRAW BALE DIKE
No Scale



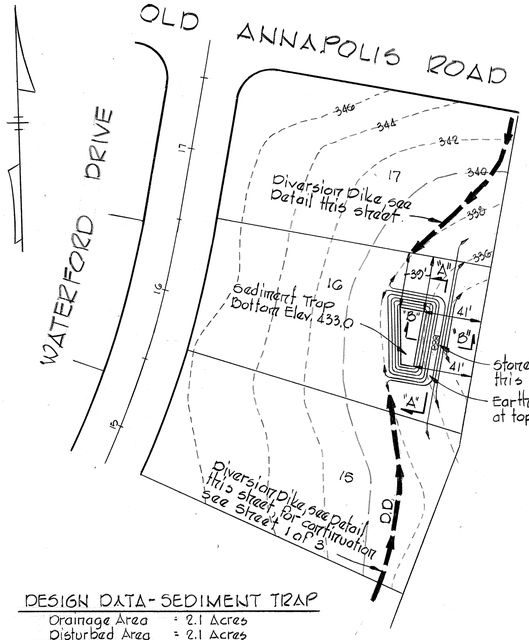
SECTION "A-A"

Note: Cleanout elevation equals one half of design depth.



SECTION "B-B"

STONE FILTER DETAILS
No Scale



DESIGN DATA - SEDIMENT TRAP

Drainage Area	= 2.1 Acres
Disturbed Area	= 2.1 Acres
Volume Required	= 67 x 2.1 = 140.7 C.Y.
Volume Available	= 145 C.Y.
Size of Trap	= 52' x 25' x 3'
Stone Filter Width	= 5 x 2.1 = 10.5'

PLAN
Scale: 1" = 50'

PROJECT TITLE
CHATEAU VALLEY
SECTION 1 AREA 2
2ND ELECTION DISTRICT, HOWARD COUNTY, MARYLAND
SEDIMENT CONTROL DETAILS

SCALE: AS SHOWN DATE: 3-28-77

WHITMAN, REQUARDT & ASSOCIATES
ENGINEERS
BALTIMORE, MARYLAND 21202

DEVELOPER
BICENTENNIAL JOINT VENTURE
8654 BALTIMORE NATIONAL PIKE
ELLICOTT CITY, MARYLAND

Kenneth A. McCord
KENNETH A. McCORD
Registered Engineer
No. 10714

F-77-99SC SHEET 3 OF 3