

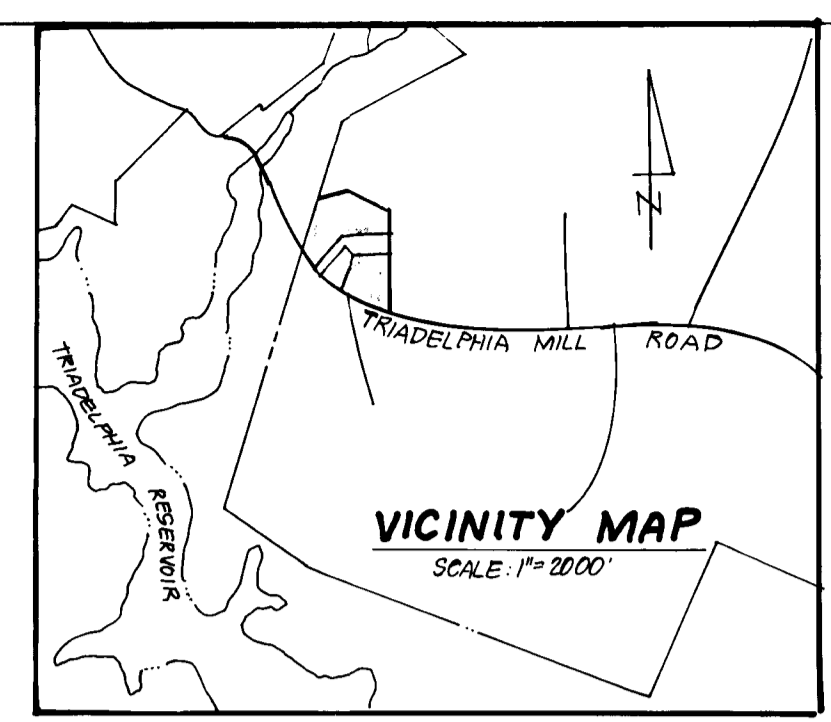
GENERAL NOTES

1. All storm drain and paving shall be constructed in accordance with the latest details and Specifications of Howard County & MD.SHA.
2. Information concerning underground utilities was obtained from available records but the contractor must determine the exact location and elevation of the mains by digging test pits, by hand, at all utility crossings, well in advance of construction.
3. All utility companies shall be notified 24 hrs. in advance of construction.
4. All traffic control devices, parking and signing to be done in accordance with the "Manual of Uniform Traffic Control Devices," 1978 Edition.
5. Design Speed: 35 mph.
6. Zoning: R
7. Contractor or Developer shall contact the Construction Inspection/Survey Division 24 hrs. before commencing work at 792-7272.
8. Types of Storm Drain Structures refer to Std. Details of Ho. Co. & MD.SHA.
9. Trench compaction shall be in accordance with Ho. Co. Std. G-2.01.

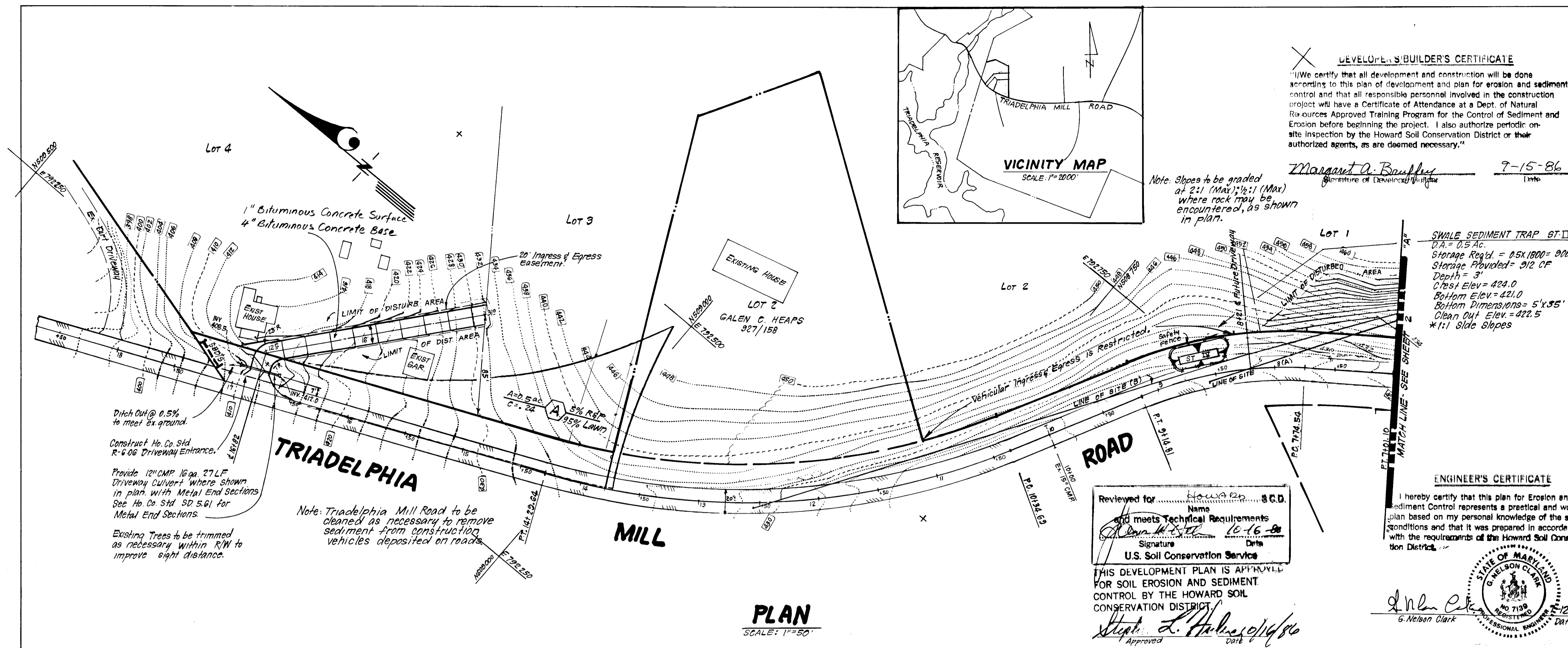
DEVELOPER'S/BUILDER'S CERTIFICATE

"I/We certify that all development and construction will be done according to this plan of development and plan for 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."

Margaret A. Bruffey
Signature of Developer/Builder
7-15-86
Date



Note: Slopes to be graded at 2:1 (Max); 1 1/2:1 (Max) where rock may be encountered, as shown in plan.



PLAN
SCALE: 1"=50'

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.

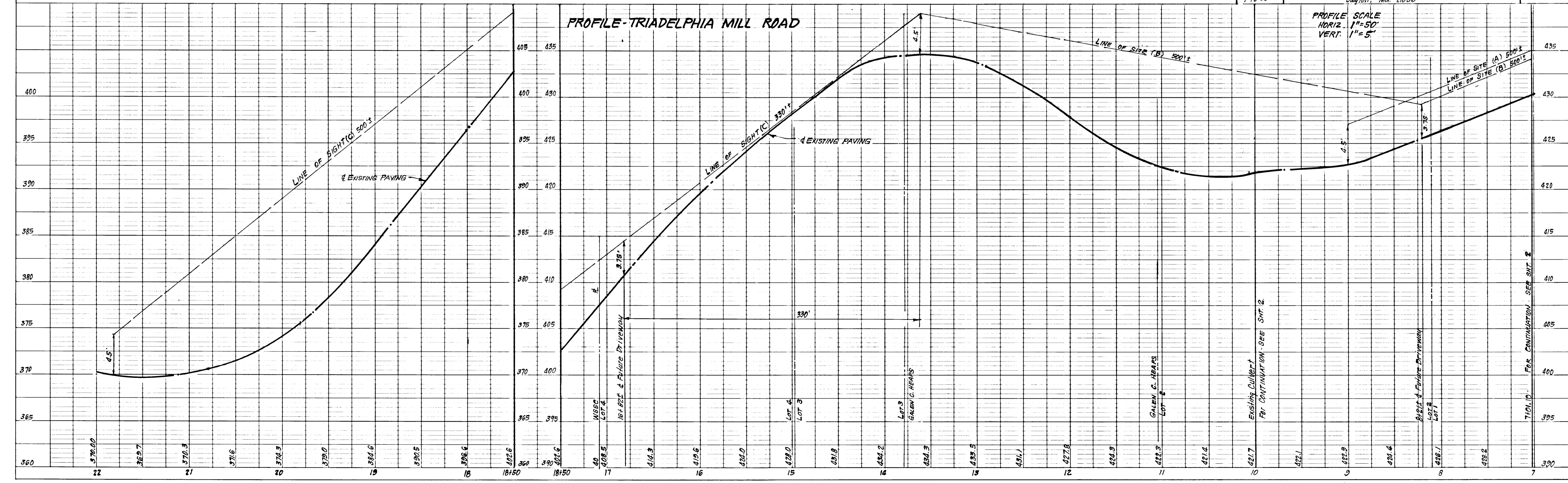


Reviewed for... S.C.D.
Name
Signature
Date
U.S. Soil Conservation Service

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
Steve L. Holmes
Approved Date

0-9-87 Revised Max Slope in Rock Excavation		
APPROVED: DEPARTMENT OF PUBLIC WORKS		
<i>Margaret A. Bruffey</i>	Date 10-10-86	
APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING		
Chief, Division of Land Development & Zoning Administration		
CLARK · FINEFROCK & SACKETT INC. ENGINEERS · PLANNERS · SURVEYORS 11315 LOCKWOOD DRIVE SILVER SPRING, MARYLAND 20904 (301) 593-3400		
DESIGNED JLS	ROAD CONSTRUCTION PLANS IMPROVEMENTS TO TRIADELPHIA MILL ROAD	SCALE As Shown
DRAWN K/W	BRUFFEY SUBDIVISION	DRAWING 10F3
CHECKED JLS	5TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND	JOB NO. 85-104
DATE 9-12-86	FOR: M.A. BRUFFEY 14790 Triadelphia Mill Rd. Dayton, Md. 21036	FILE NO. 85-104-D

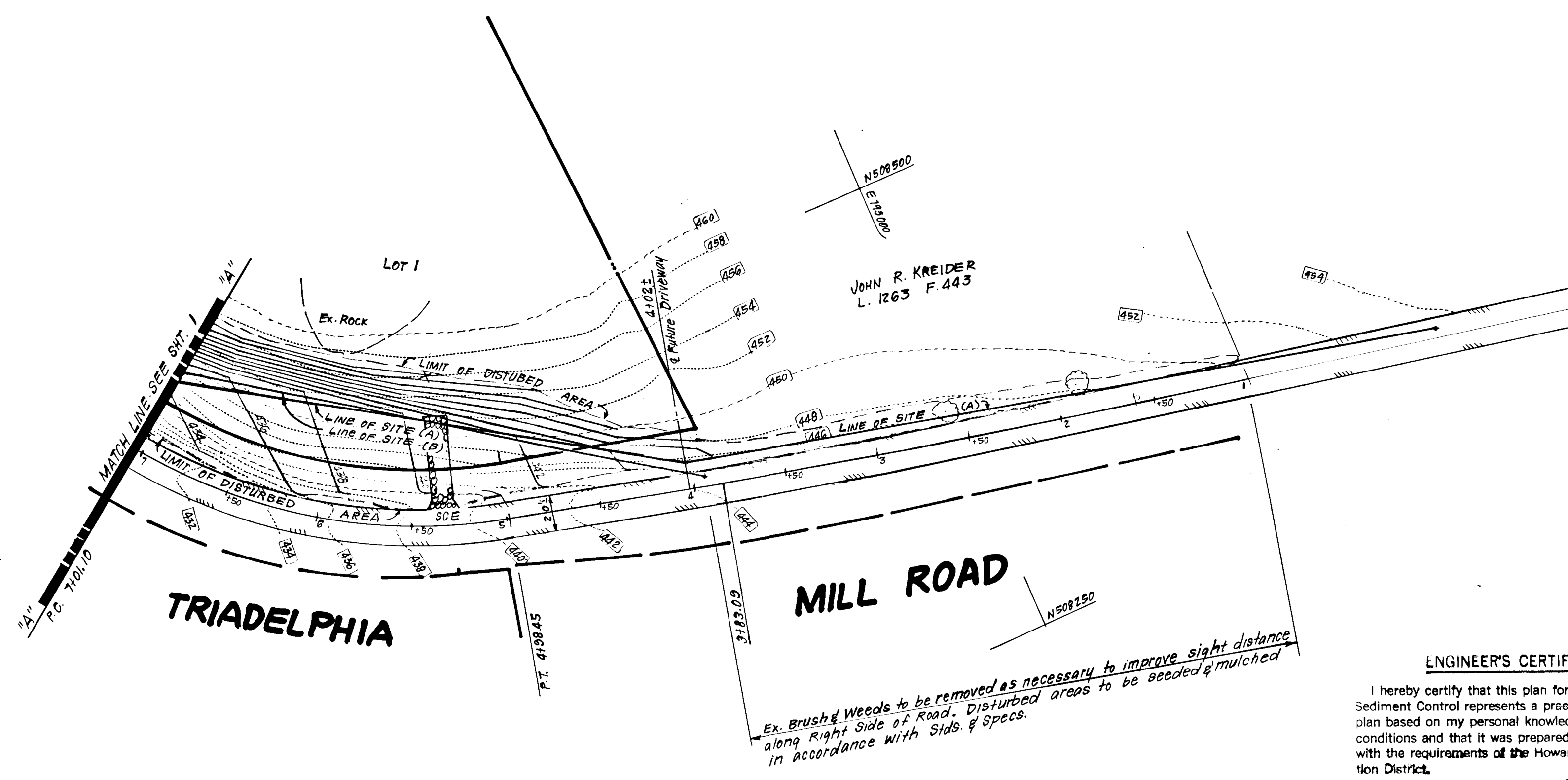
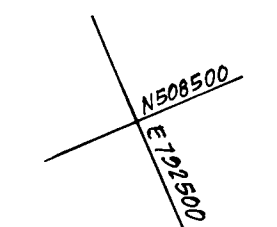
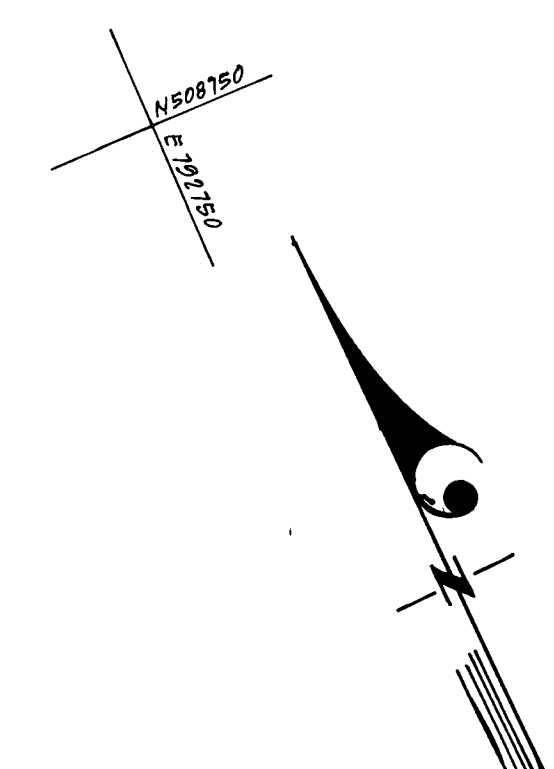
PROFILE - TRIADELPHIA MILL ROAD



PROFILE SCALE
HORIZ. 1"=50'
VERT. 1"=5'

1239

F-86-211



PLAN
SCALE: 1"=50'

DEVELOPER'S/BUILDER'S CERTIFICATE

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Margaret A. Bruffey
Signature of Developer/Builder
9-15-86
Date

Reviewed for.....*Margaret A. Bruffey*.....S.C.D.
Name
and meets Technical Requirements
10-16-86
Signature Date
U.S. Soil Conservation Service

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

Margaret A. Bruffey
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.

G. Nelson Clark
G. Nelson Clark
Professional Engineer
No. 7199
Date 9-12-86

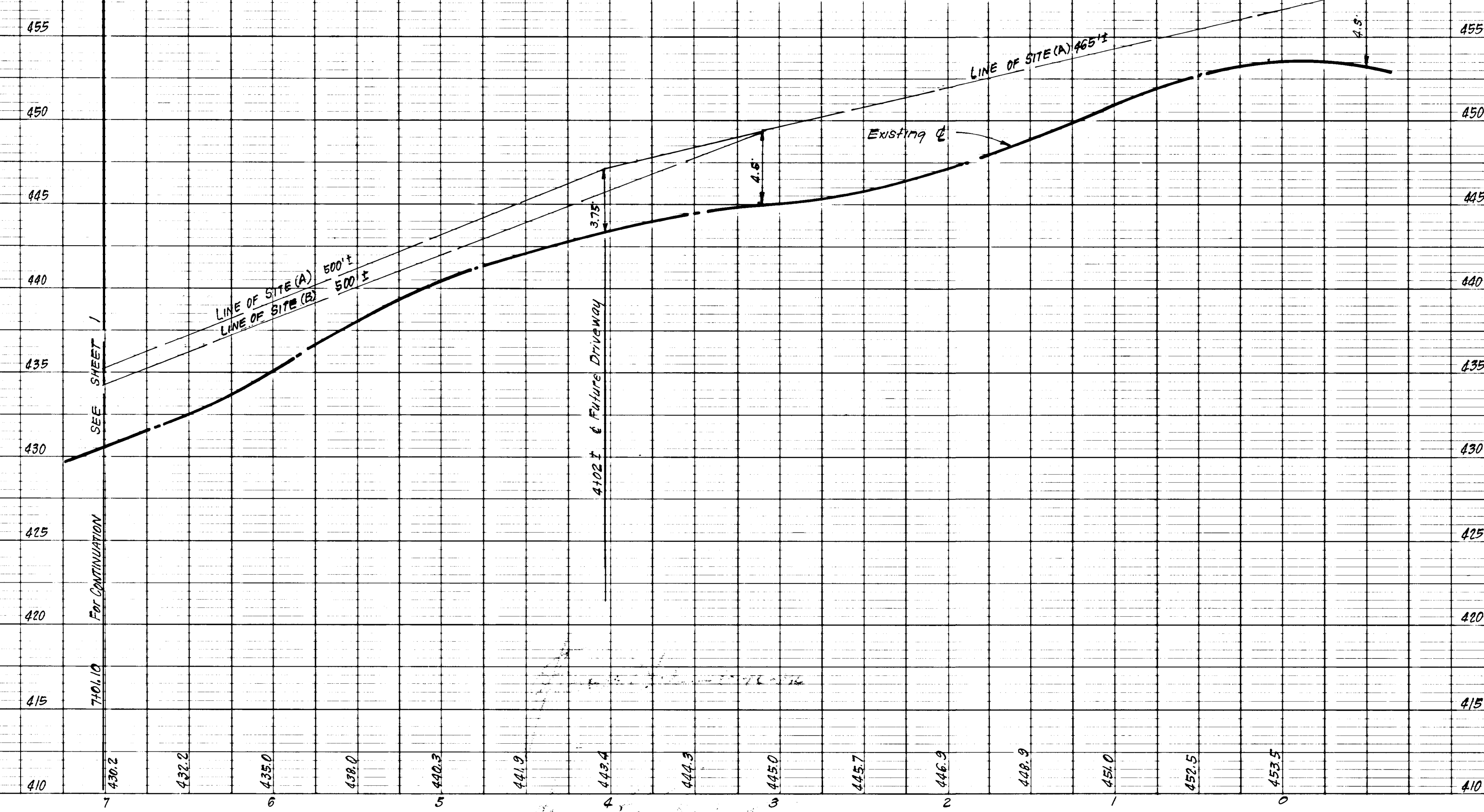


APPROVED: DEPARTMENT OF PUBLIC WORKS
Margaret A. Bruffey
Chief, Bureau of Engineering
10-21-86
Date
APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING
Margaret A. Bruffey
Chief, Division of Land Development & Zoning Administration
Date

CLARK · FINEROCK & SACKETT INC.
ENGINEERS · PLANNERS · SURVEYORS
11315 LOCKWOOD DRIVE · SILVER SPRING, MARYLAND 20904 · (301) 593-3400

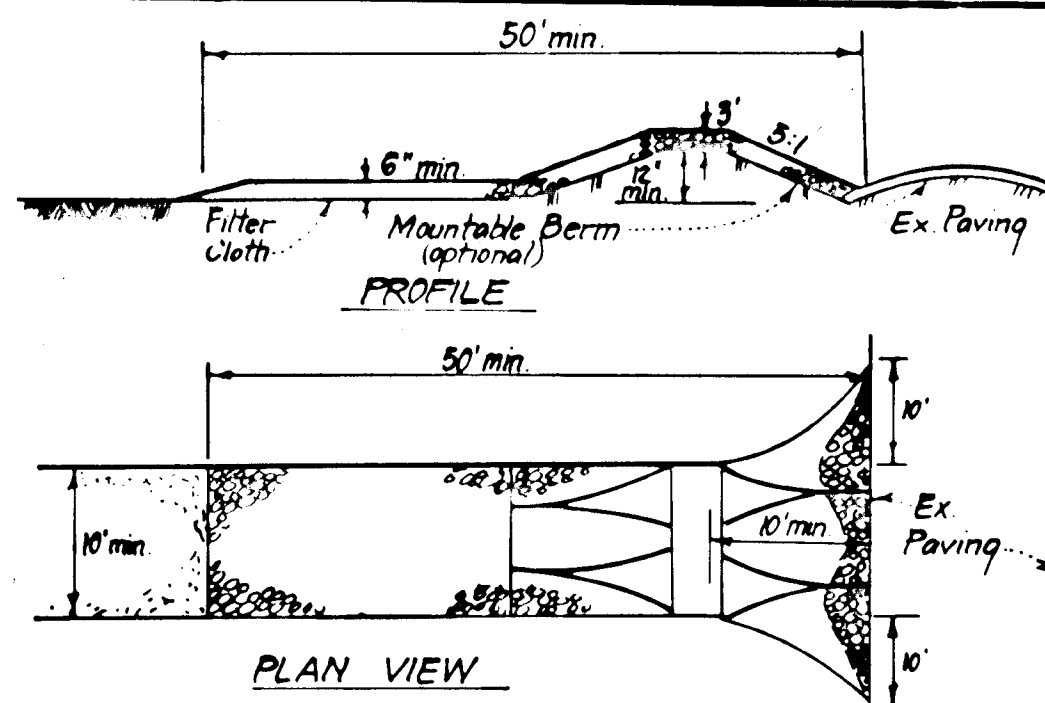
DESIGNED JLS	ROAD CONSTRUCTION PLANS IMPROVEMENTS TO TRIADELPHIA MILL ROAD	SCALE As SHOWN
DRAWN KIW		DRAWING 2 OF 3
CHECKED JLS	5TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND	JOB NO. 85-104
DATE 9-12-86		FOR: M.A. BRUFFEY 14790 Triadelphia Mill Rd. Dayton Md. 21036

PROFILE - TRIADELPHIA MILL ROAD



PROFILE SCALE
HORIZ. 1"=50'
VERT. 1"=5'

1239

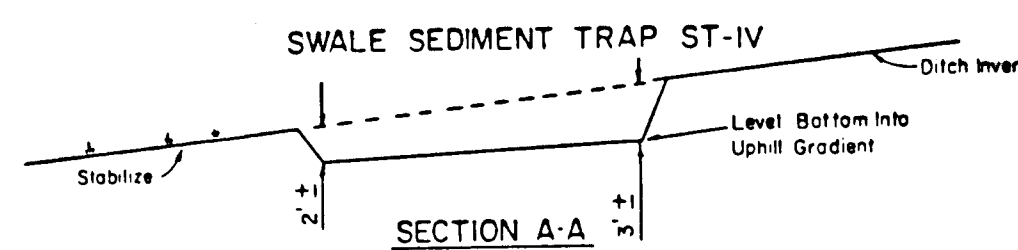


CONSTRUCTION SPECIFICATIONS:

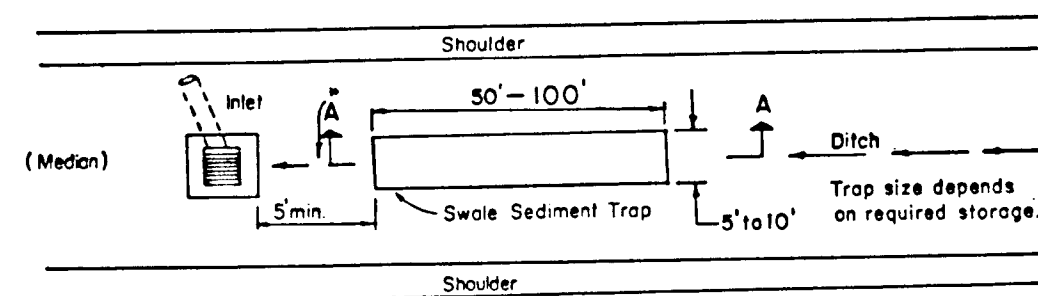
1. Stone size - Use 2" stone, or reclaimed or recycled concrete equivalent.
2. Length - As required, but not less than 50 feet (except on a single residence lot where a 30 foot minimum length would apply).
3. Thickness - Not less than six (6) inches.
4. Width - Ten (10) foot minimum, but not less than the full width at points where ingress 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 single family residence lot.
6. Surface Water - All surface water flowing or diverted toward construction entrances shall be piped across the entrance. If piping is impractical, a mounded berm with 5:1 slopes 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 as conditions demand and repair and/or cleanout of any measures 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. When washing 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.

STABILIZED CONSTRUCTION ENTRANCE (SCE)

NO SCALE



SWALE SEDIMENT TRAP

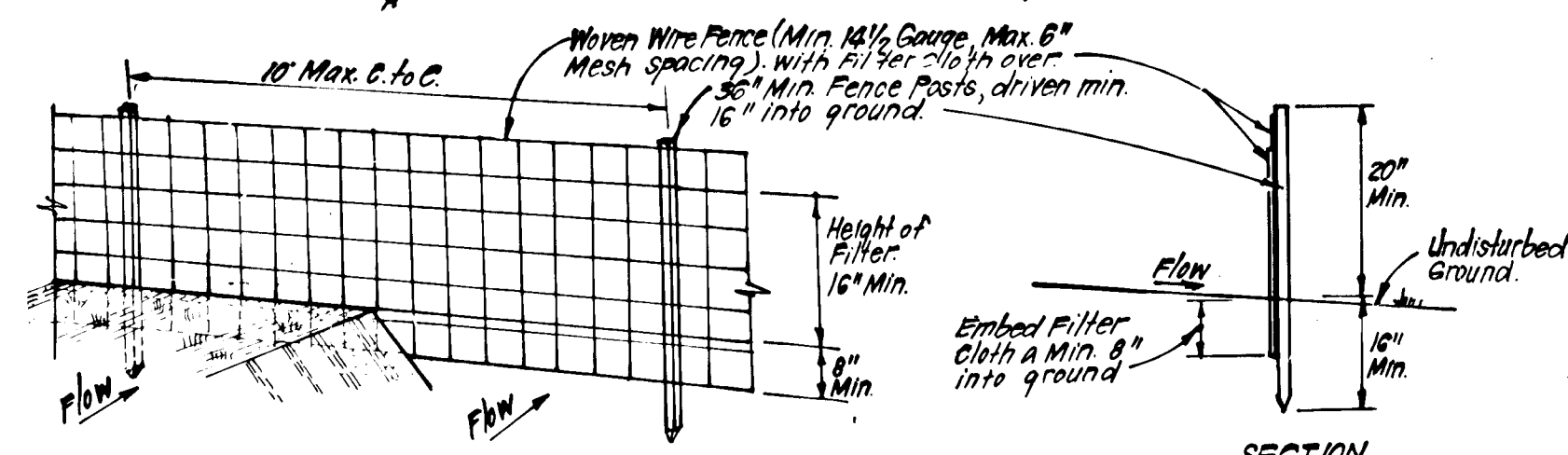


CONSTRUCTION SPECIFICATION FOR ST-IV

1. The swale sediment trap shall be constructed in accordance with the dimensions provided on the design drawings or sized to provide the minimum storage necessary 1800 cubic feet of storage for each acre of drainage area.
2. 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. Removed sediment shall be deposited in a suitable area and in such a manner that it will not erode.
3. The structure shall be inspected after each rain and repairs made as needed.
4. Construction operations shall be carried out in such a manner that erosion and water pollution shall be minimized.
5. The sediment trap shall be removed and area stabilized when the contributory drainage area has been properly stabilized.
6. The swale sediment trap will be properly backfilled and the swale or ditch reconstructed.

SWALE SEDIMENT TRAP (ST-IV)

NO SCALE



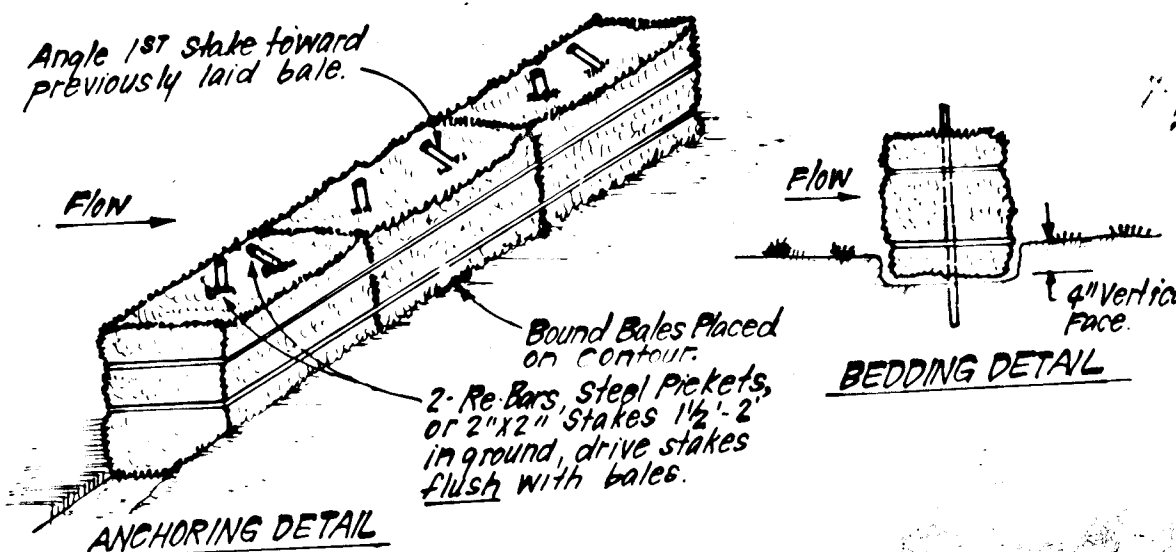
CONSTRUCTION SPECIFICATIONS:

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" at top and mid sections.
3. When 2 sections of filter cloth adjoin each other they shall be overlapped by 6" and folded.
4. Maintenance shall be performed as needed and material removed when "bulges" develop in silt fence.

POSTS: Steel, either T or U Type or 2" Hardwood
 FENCE: Woven Wire, 1/4" Gauge
 6" Max. Mesh Opening
 FILTER CLOTH: Filter Cloth, Min. 1/4" Thick
 Stablinka, T140N or Approved Equal
 PREFABRICATED UNIT: Geotab
 Envirofence, or Approved Equal

SILT FENCE DETAIL (S)

NO SCALE



CONSTRUCTION SPECIFICATIONS:

1. Bales shall be placed at the top of a slope or on the contour and in a row with ends tightly abutting the adjacent bales.
2. Each bale shall be embedded in the soil a min. of 2" and placed so the bindings are horizontal.
3. Bales shall be securely anchored in place by either 2 stakes or rebar driven thru the bale. The 1st stake in each bale shall be driven toward the previously laid bale at an angle to force the bales together. Stakes shall be driven flush with the bale.
4. Inspection shall be frequent and repair/replacement shall be made promptly as needed.
5. Bales shall be removed when they have served their usefulness so as not to block or impede storm flow or drainage.

STRAW BALE DIKE DETAIL (SBD)

NO SCALE

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. (992-2437)
- 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 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	16.2766 Acres
Area Disturbed	0.75 Acres
Area to be roofed or paved	0.08 Acres
Area to be vegetatively stabilized	0.67 Acres
Total Cut	4550 Cu. yds
Total Fill	100 Cu. yds
Offsite waste/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 DFW 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 25 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.

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 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.

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/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) for anchoring.

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

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.

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 bushels 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 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.

CONSTRUCTION SEQUENCE

	No. of Days
1. Obtain Grading Permit.	7
2. Install Sediment & Erosion Control.	1
3. Clear & Grade Site.	7
4. Construct Driveway, Improvements to Tradehelia Mill Rd.	7
5. Stabilize All Disturbed Areas Onsite in Accordance with Standards & Specifications.	7
6. Upon Approval of Sediment & Erosion Control Inspector, Remove Sediment & Erosion Control & Stab.	7

APPROVED - DEPARTMENT OF PUBLIC WORKS

Chief, Bureau of Engineering 10-21-86 Date

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING

Chief, Division of Land Development & Zoning Administration Date

CLARK FINEROCK & SACKETT INC.
 ENGINEERS - PLANNERS - SURVEYORS
 11315 LOCKWOOD DRIVE SILVER SPRING, MARYLAND 20904 (301) 593-3400

DESIGNED JLS	ROAD CONSTRUCTION PLANS SEDIMENT & EROSION CONTROL DETAILS	SCALE As Shown
DRAWN KIW		DRAWING 3 OF 3
CHECKED JLS		JOB NO. 85-104
DATE 3-12-86		FILE NO. 85-104-D

BRUFFEY SUBDIVISION
 5TH ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND
 FOR: M.A. BRUFFEY
 14732 Tradehelia Mill Rd
 Dayton Md. 21036
 F-86-211

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 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."

Margaret A. Bruffey 9-15-86 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 of Engineer: Nelson Clark 3-12-86 Date

U.S. Soil Conservation Service
 DEVELOPMENT PLAN FOR EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT
 Approved: [Signature] Date: 10-16-86

1239