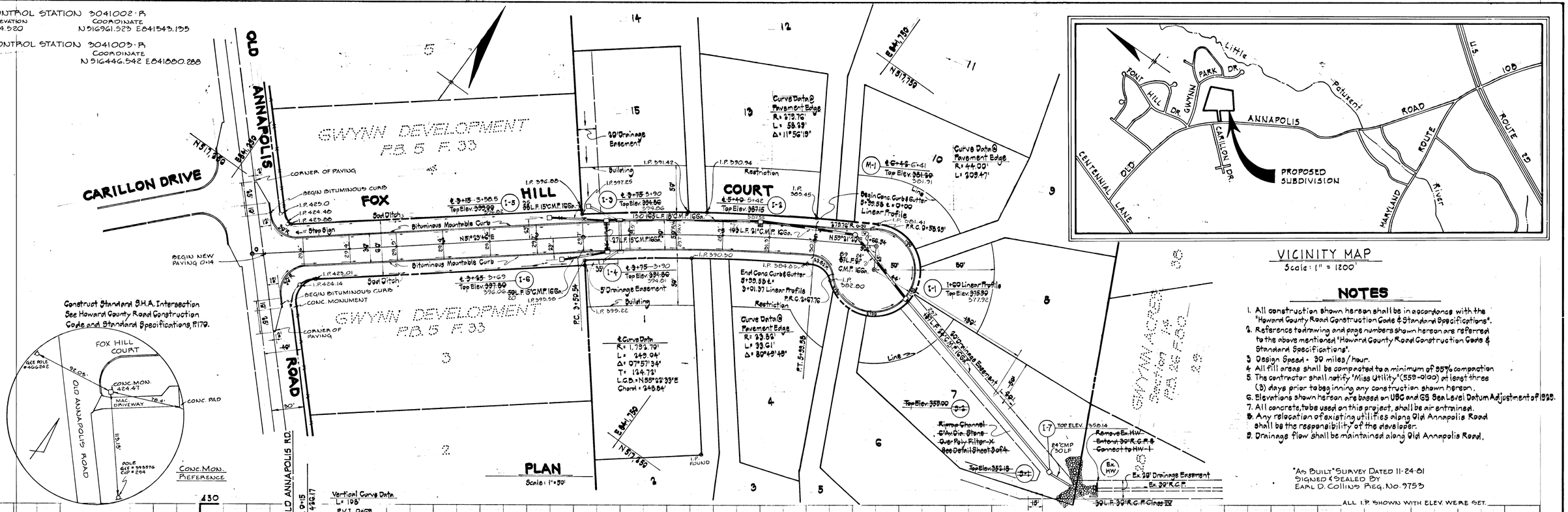
CONTROL STATION 3041002·B
ELEVATION 424.520
COORDINATE N516961.523 E841543.135

CONTROL STATION 3041003·B
COORDINATE N516446.542 E841080.288



Construct Standard S.H.A. Intersection See Howard County Road Construction Code and Standard Specifications, P.179.

CONC. MON. REFERENCE

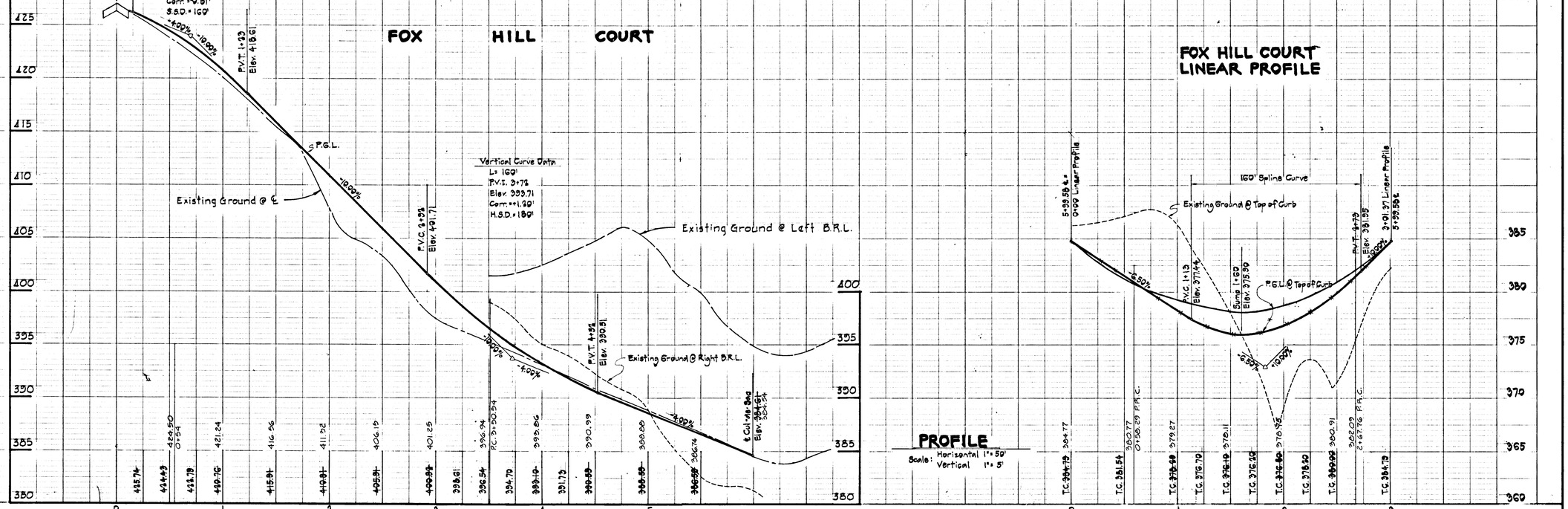
VICINITY MAP
Scale: 1" = 1200'

NOTES

1. All construction shown hereon shall be in accordance with the "Howard County Road Construction Code & Standard Specifications".
2. Reference tad drawing and page numbers shown hereon are referred to the above mentioned "Howard County Road Construction Code & Standard Specifications".
3. Design Speed - 30 miles/hour.
4. All fill areas shall be compacted to a minimum of 95% compaction
5. The contractor shall notify "Miss Utility" (559-0100) at least three (3) days prior to beginning any construction shown hereon.
6. Elevations shown hereon are based on USC and GS Sea Level Datum Adjustment of 1935.
7. All concrete, to be used on this project, shall be air entrained.
8. Any relocation of existing utilities along Old Annapolis Road shall be the responsibility of the developer.
9. Drainage flow shall be maintained along Old Annapolis Road.

"As Built" Survey Dated 11-24-81
Signed & Sealed By
Earl D. Collins Reg. No. 9753

ALL I.P. SHOWN WITH ELEV. WERE SET.



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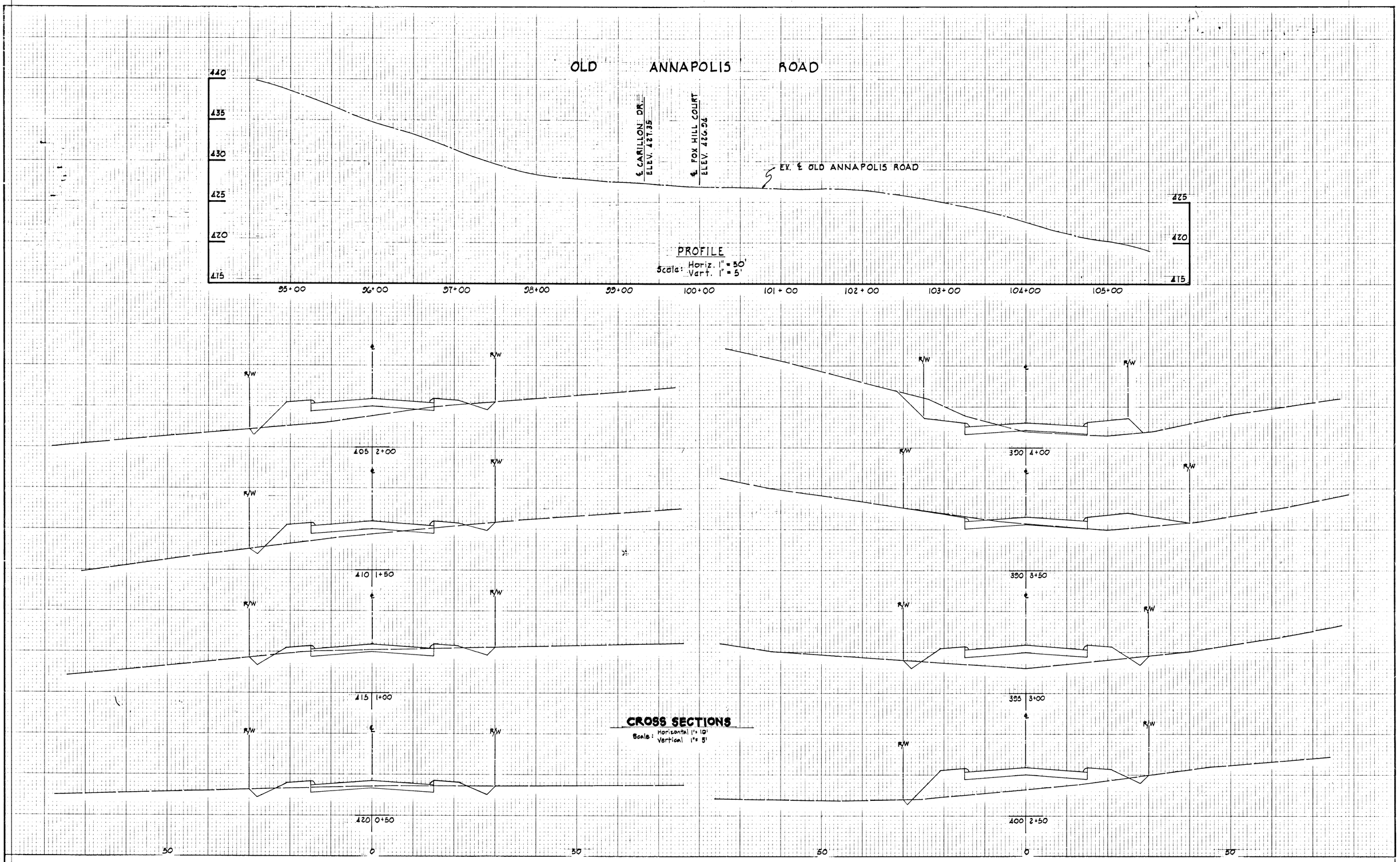


APPROVED: Department of Public Works

W. O. Gilbert 3-13-78

Chief, Bureau of Engineering Date

APPROVED: Office of Planning and Zoning

[illegible] 3-7-77

Chief, Division of Land Development Date

Reviewed for Howard Soil Conservation District and meets Technical Requirements

C. Wayne Ray 3/3/78

U.S.D.A. Soil Conservation Service Date

This development plan is approved for Soil Erosion and Sediment Control by the Howard Soil Conservation District.

Wes Emo 3-8-78

~~District Coordinator~~, Howard Soil Conservation District Date

DEVELOPER'S CERTIFICATE

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. Deviation from this plan will not be made unless authorized by the Howard Soil Conservation District.

John Mikolasko 11-15-77

John Mikolasko Date

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 the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District.

John F. Liparini 11/15/77

John F. Liparini, Md. Reg. No. 8410 Date

CROVO & ASSOCIATES, INC.

CIVIL ENGINEERING
LAND SURVEYING

8669 OAK ROAD
BALTIMORE, MARYLAND
21234

OWNER & DEVELOPER

FOX HILL
JOINT VENTURE
2205 FOXLY ROAD
TIMONIUM, MARYLAND
21093

EXISTING ℄ PROFILE - OLD ANNAPOLIS ROAD
CROSS SECTIONS - FOX HILL COURT

FOX HILL
SECTION ONE

2ND ELECTION DISTRICT, HOWARD COUNTY, MD.
NOVEMBER 7, 1977 SCALE: AS SHOWN
SHEET 2 of 4

As Built Dec. 1982

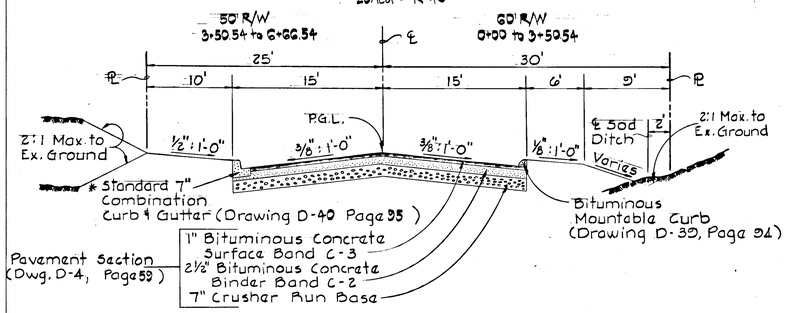
F-78-99

FOX HILL COURT

Design Speed - 30 M.P.H.
Zoned - R-40

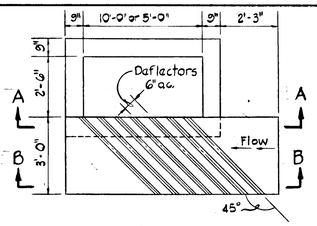
50' R/W
3+50.54 to 6+66.54

60' R/W
0+00 to 3+50.54

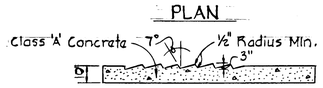


TYPICAL HALF-SECTIONS

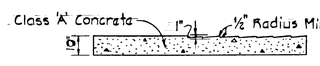
No Scale



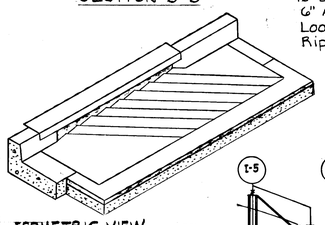
PLAN



SECTION A-A



SECTION B-B

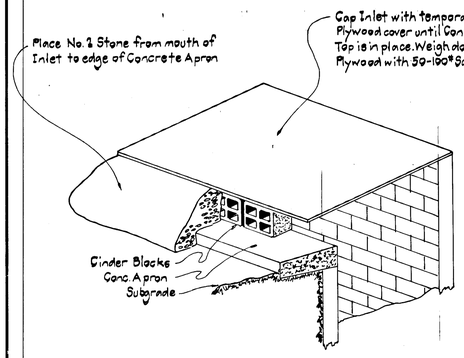


ISOMETRIC VIEW

TYPE 'A' INLET w/ DEFLECTORS

Not to Scale

Note
1. Base will be primed in accordance with Section C-30-3 as provided in the Howard County Road Construction Code and Standard Specifications.
2. Tack coat is required in accordance with Section C-31-4 of the Howard County Road Construction Code and Standard Specifications.
3. All drawing numbers and page numbers refer to the Howard County Road Construction Code and Standard Specifications.
#4. Standard 7" Combination Curb & Gutter to be constructed to the limits shown on the preliminary plan.



INLET PROTECTION

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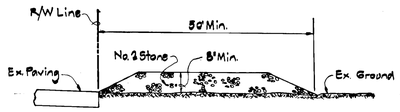

STABILIZED CONSTRUCTION ENTRANCE

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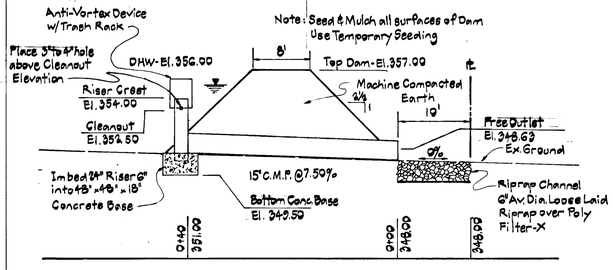
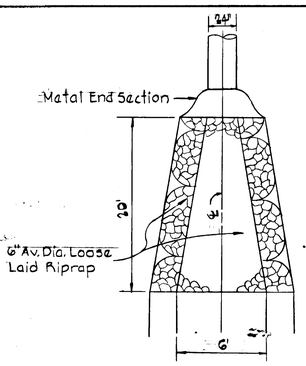
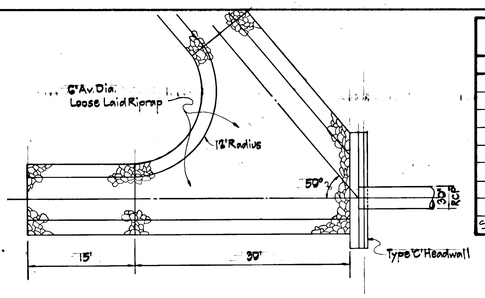


PROFILE PRINCIPAL SPILLWAY

Not to Scale





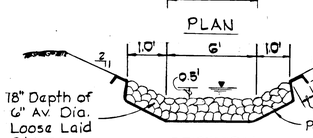
RIPRAP CHANNEL @ S-1

Not to Scale

STRUCTURE SCHEDULE

Structure	Type	Inv. In	Inv. Out	Top Elev.	Remarks
I-1	A-5	~~364.95~~ 367.95	~~367.80~~ 370.80	~~375.30~~ 378.30	Drwg. D64A, P. 119-A
I-2	A-5 w/Deflectors	~~364.51~~ 367.51	~~364.46~~ 367.46	~~367.15~~ 370.15	Drwg. D64A, P. 119-A
I-3	A-5 w/Deflectors	~~339.76~~ 342.76	~~339.51~~ 342.51	~~334.06~~ 337.06	Drwg. D64A, P. 119-A
I-4	A-5 w/Deflectors	~~331.15~~ 334.15	~~330.90~~ 333.90	~~334.56~~ 337.56	Drwg. D64A, P. 119-A
I-5	K	——	~~334.38~~ 337.38	~~339.98~~ 342.98	Drwg. D93, P. 148
I-6	K	——	~~333.65~~ 336.65	~~337.30~~ 340.30	Drwg. D93, P. 148
M-1	Howard County Standard Manhole	~~376.96~~ 376.76	~~376.50~~ 376.30	~~351.40~~ 354.40	Drwg. D103, P. 158
~~S-1~~	~~C~~	~~348.68~~	——	~~354.18~~	~~Drwg. 054, P. 107~~
S-1	~~S-1~~ Metal End Section	——	~~357.00~~ 354.00	~~359.00~~	MD-370.01(*)

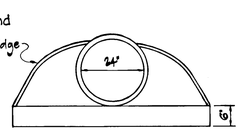
Note: All details taken from the "Howard County Road Construction Code and Standard Specifications" unless otherwise noted (*). All (*) details taken the "State Highway Administration Book of Standard Highway and Incidental Structures".



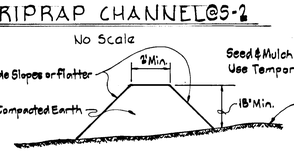
SECTION

RIPRAP CHANNEL @ S-2

No Scale

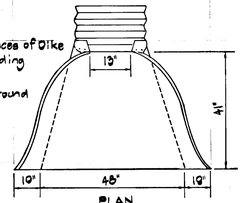


END VIEW



DIVERSION DIKE

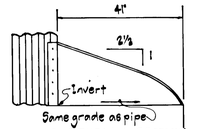
Not to Scale



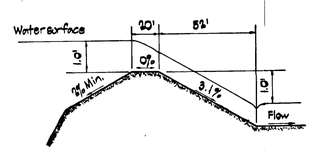
PLAN

METAL END SECTION

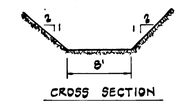
Not to Scale



LONGITUDINAL SECTION



PROFILE @ ℄

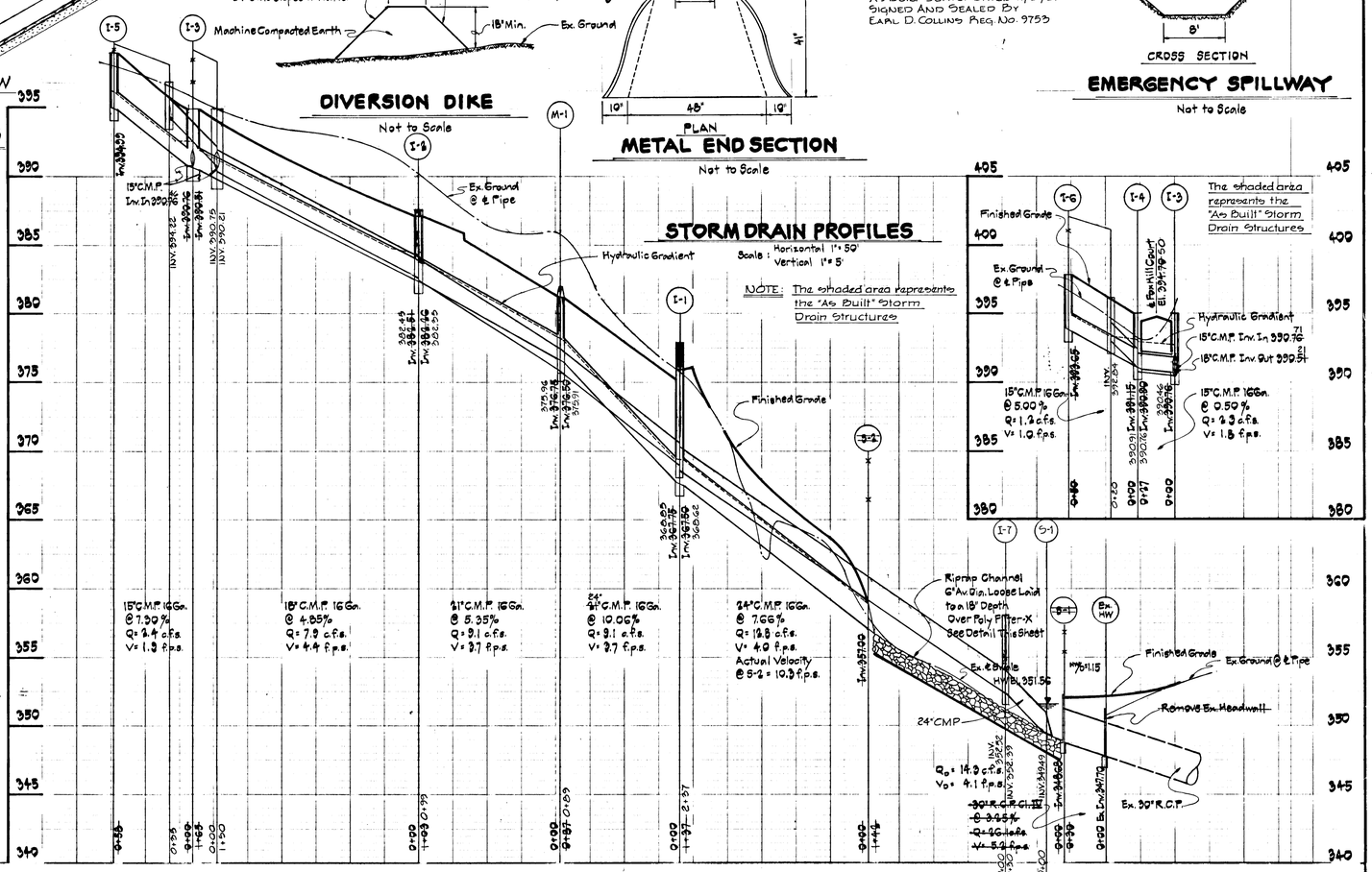


CROSS SECTION

EMERGENCY SPILLWAY

Not to Scale

"As Built" Survey Dated 11/29/01
Signed and Sealed by
Earl D. Collins Reg. No. 9753



STORM DRAIN PROFILES

Scale: Horizontal 1" = 50'
Vertical 1" = 5'

NOTE: The shaded area represents the "As Built" Storm Drain Structures

The shaded area represents the "As Built" Storm Drain Structures

APPROVED: Department of Public Works

Chief, Bureau of Engineering — Date 3-13-78

APPROVED: Office of Planning and Zoning

Chief, Division of Land Development — Date 3-8-78

Reviewed for Howard Soil Conservation District and meets Technical Requirements

U.S.D.A. Soil Conservation Service — Date 3/3/78

This development plan is approved for Soil Erosion and Sediment Control by the Howard Soil Conservation District.

~~District Coordinator~~, Howard Soil Conservation District — Date 3-3-78

DEVELOPER'S CERTIFICATE

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. Deviation from this plan will not be made unless authorized by the Howard Soil Conservation District.

John Mikolasko — 11-15-77 Date

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 the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District.

John F. Lparini, Md. Reg. No. 8419 — 11/15/77 Date

CROVO & ASSOCIATES, INC.
CIVIL ENGINEERING
LAND SURVEYING
8669 OAK ROAD
BALTIMORE, MARYLAND
21234

OWNER & DEVELOPER
FOX HILL
JOINT VENTURE
2205 FOXLY ROAD
TIMONIUM, MARYLAND
21093

STORM DRAIN PROFILES & DETAILS

FOX HILL
SECTION ONE

2ND ELECTION DISTRICT — HOWARD COUNTY, MD.
NOVEMBER 7, 1977 — SCALE: AS SHOWN
SHEET 3 of 4

As Built Dec. 1982

F-78-99

S-1

TABLE OF COORDINATES		
No.	North	East
1	517,702.41	841,355.05
2	517,883.45	841,004.33
3	517,342.30	842,253.46
4	517,044.43	841,880.38
5	517,382.03	841,610.84
6	517,204.03	841,387.90
7	517,167.65	841,385.01
8	517,241.73	841,317.52
9	517,234.38	841,320.74
10	517,428.02	841,573.40

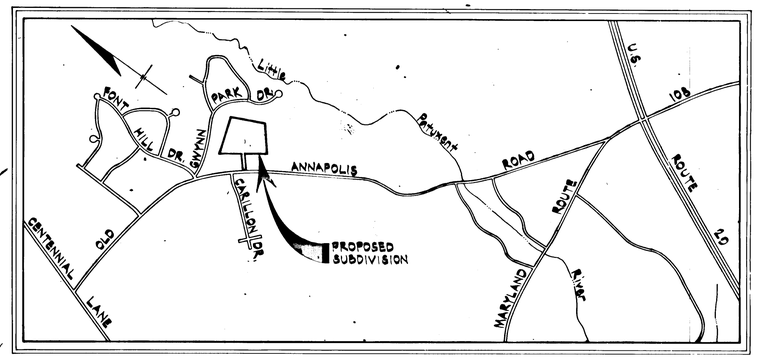
Note: The coordinates shown hereon are referred to the Maryland State Plane Coordinate System.

APPROVED: Department of Public Works.

Chief, Bureau of Engineering Date

APPROVED: Office of Planning and Zoning.

Chief, Division of Land Development Date



VICINITY MAP

Scale 1" = 1200'

COLUMBIA INDUSTRIAL DEVELOPMENT CORPORATION
493/602

SITE ANALYSIS

1. Total area of Subdivision	-	9.6Ac.±
2. Total area to be Disturbed	-	6.1 Ac.±
3. Total area to be Paved	-	0.5Ac.±
4. Total area to be Revegetated	-	5.6Ac.±
5. Total area to be Undisturbed	-	3.5 Ac±

L. J. BONNEVILLE
238/213

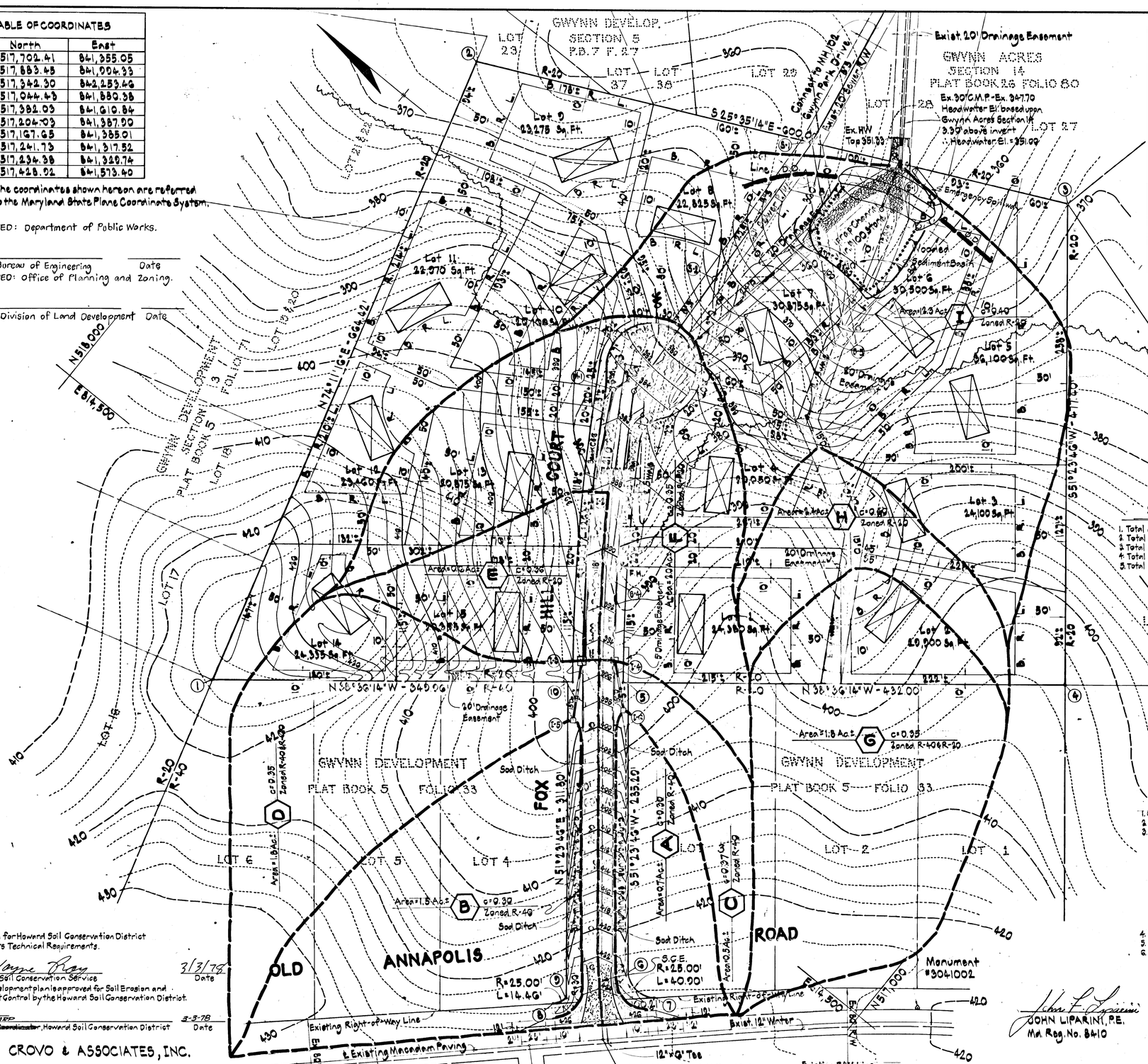
SEDIMENT CONTROL NOTES

1. The developer shall notify the Howard County Bureau of Inspections and Permits at least 24 hours prior to beginning any construction shown hereon. (465-5000)
2. All sediment control structures to be constructed prior to any onsite grading or disturbance to any existing surface material and are to be stabilized as soon as constructed
3. All sediment control structures to remain in place until permission for their removal has been obtained from the Howard Soil Conservation District. (465-5000)
4. All graded areas, not to be paved, shall be stabilized in accordance with the following:
   a. Place 3" compacted layer of topsoil to finished grade.
   b. Spread pulverized dolomitic limestone at the rate of 46 lbs/1,000 sq. Ft.
   c. Spread 5-10-10 commercial grade fertilizer at the rate of 25 lbs./1,000 sq. Ft. and immediately disc into soil to a 3" depth.
   d. Seed prepared areas at the rate of 3 lbs./1,000 sq. ft. using the following mixture:
      (1) Temporary Seeding: 1 Italian or Perennial Ryegrass
      (2) Permanent Seeding: 40% Merion Kentucky Bluegrass, 40% Common Kentucky Bluegrass, 20% Pennlawn.
   e. All seeding shall be raked with a York Rake (minimum of 2 passes) and covered and compacted with a Cultipacker or other approved method.
   f. Mulch all areas immediately after seeding with unweathered small grain straw at the rate of 70 lbs/1,000 sq. ft. and spray with emulsified asphalt at the rate of 9.0 Oal/sq. yd.
   g. All seeded areas which do not show signs of germination within 4 weeks after seeding shall be reseeded or sodded if necessary.
5. Periodic inspection and required maintenance must be provided by the developer or his representative on a daily basis to ensure proper functioning of all sediment control structures.
6. All sediment control structures to be constructed in accordance with this plan and the Standards and Specifications for Soil Erosion and Sediment Control in Developing Areas. (6/75)
7. Sediment and Erosion Control Requirements shown hereon are for road and storm drain construction only. Further development of individual lots are subject to additional Sediment and Erosion Control Requirements.
8. The developer shall provide a sediment control plan for improvements for the individual lots, and if more than one lot is being developed at a time, an overall plan for sediment control shall be submitted for review and approval.
9. All sodded areas shall be stabilized in accordance with the following:
   a. Spread 5-10-10 commercial grade fertilizer at the rate of 25 lbs./1,000 sq. ft.
   b. Spread ground agricultural limestone at the rate of 50 lbs/1,000 sq. ft.
   c. Disc limestone and fertilizer into soil and firm up after discing.
   d. Lay sod to tight fit and roll to ensure contact with the underlying soil. Water as necessary for first two weeks (in summer) to ensure establishment.

"As Built" Survey Dated 11/24/81
Signed & Sealed By
Earl D. Collins Reg. No. 9753

CONSTRUCTION SEQUENCE

1. Obtain grading permit.
2. Place stabilized construction entrances.
3. Sediment Basin Construction:
   a. Prepare basin site by clearing and grubbing area under Sediment Basin embankment. Strip topsoil and remove trees, vegetation, roots and other objectionable material. Clear pool area of trees and brush.
   b. Level and compact bed for principal spillway pipe and install.
   c. Construct compacted embankment. Place impervious backfill in 8" maximum layers and fully machine compact.
   d. Install riser w/trash rack into concrete base.
   e. Construct emergency spillway.
   f. Stabilize basin, embankment and emergency spillway using temporary seeding mixture and immediately mulch.
4. Place all dikes and stabilize.
5. Place roadways to subgrade.
6. Install storm drain system, sanitary sewer and water lines.
7. Place riprap channels and grade sodded channels.
8. Stabilize sodded channels in accordance with note 9.
9. Stabilize all cut and fill slopes using permanent seeding mixture.
10. Lay pavement courses and bituminous mountable curb.
11. Fine grade slopes between curb and property line.
12. Stabilize using permanent seeding mixture.
13. Removal of sediment control structures can only occur after or with the permission of the Howard Co. Bureau of Licenses, Inspections & Permits.
14. Remove Sediment Basin:
   a. Remove trapped water behind embankment by pumping
   b. Remove trapped sediment, grade embankment out and remove riser and spillway pipe.
   c. Construct riprap channel to 5-1.
   d. Fine grade basin and pool area.
   e. Stabilize basin, pool area and any areas disturbed by the contractors final operations using permanent seeding mixture.



Reviewed for Howard Soil Conservation District and meets Technical Requirements.

C. Wayne Gray 3/3/78
U.S.D.A. Soil Conservation Service Date

This development plan is approved for Soil Erosion and Sediment Control by the Howard Soil Conservation District.

~~Wes Ehrd~~ ~~District Coordinator~~, Howard Soil Conservation District 3-3-78 Date

CROVO & ASSOCIATES, INC.
CIVIL ENGINEERING
LAND SURVEYING
8660 OAK ROAD
BALTIMORE, MARYLAND 21234

DEVELOPER'S CERTIFICATE

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John Mikolasko 11-15-77
John Mikolasko Date

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 the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District.

John F. Liparini 11/15/77
John F. Liparini, Md. Reg. No. 8410 Date

John F. Liparini 12/22/76
JOHN LIPARINI, P.E. Date
Md. Reg. No. 8410

OWNER & DEVELOPER
FOX HILL JOINT VENTURE
218 TEACHERS BUILDING
COLUMBIA, MARYLAND 21044

DRAINAGE AREA MAP

FOX HILL
SECTION 1

TAX MAP 24 PARCEL 402

2ND ELECTION DISTRICT HOWARD COUNTY, MARYLAND

DATE: NOVEMBER 7, 1977 SHEET 4 OF 4 SCALE: 1" = 50'

As Built Dec. 1982

F-78-99