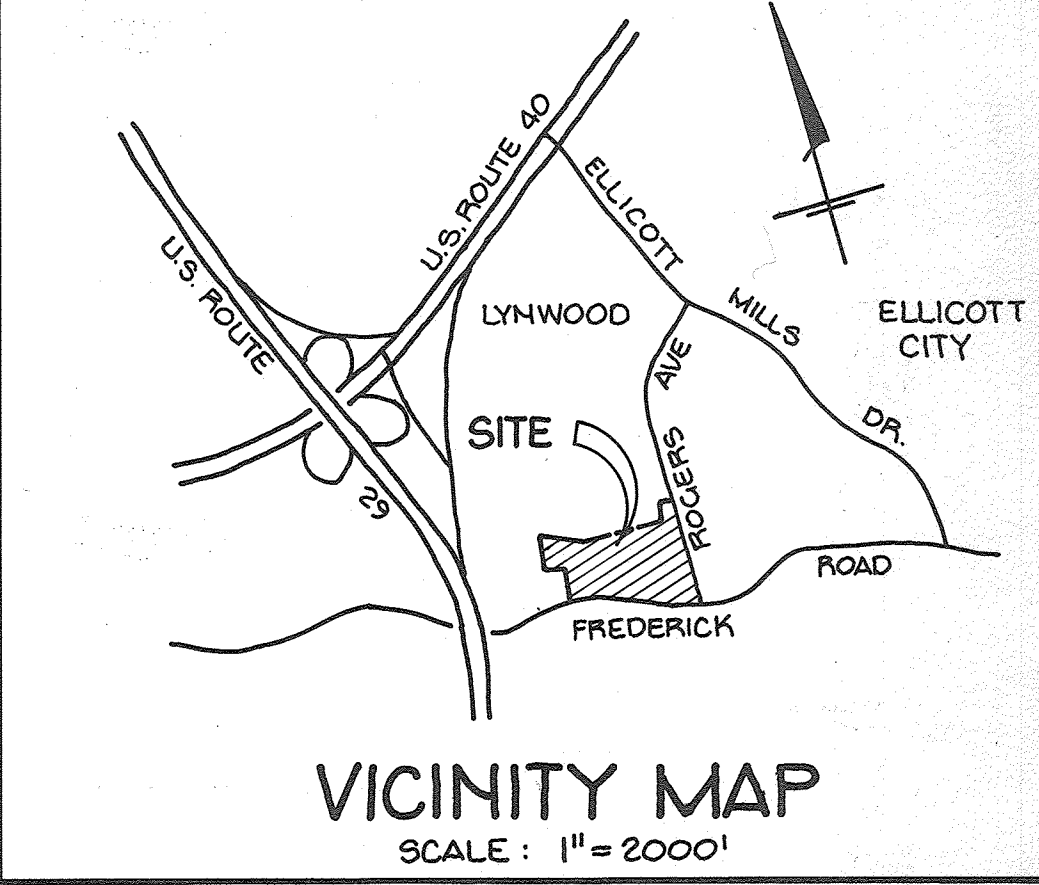
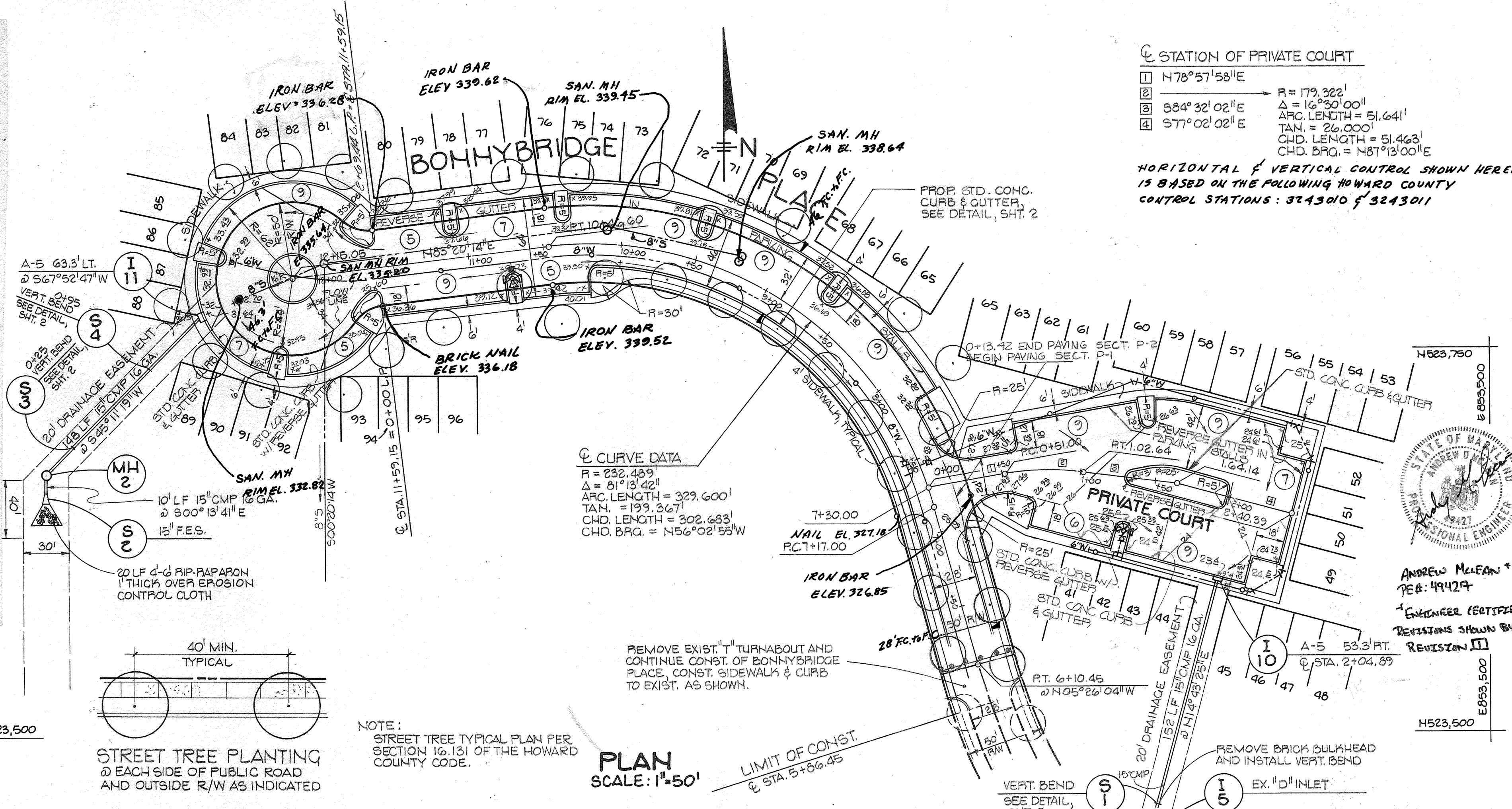


GENERAL NOTES

- ALL STORM DRAIN & PAVING SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST DETAILS AND SPECIFICATIONS OF HOWARD CO.
- TYPES OF STORM DRAIN STRUCTURES REFER TO THE STANDARD DETAILS OF HOWARD COUNTY & MD. S.H.A.
- TRENCH COMPACTION FOR STORM DRAINS WITHIN ROADS OR STREET RIGHT OF WAY LIMITS SHALL BE IN ACCORDANCE WITH THE LATEST HOWARD CO. ROAD CODE.
- 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.
- ALL UTILITY COMPANIES SHALL BE NOTIFIED 24 HRS. IN ADVANCE OF CONSTRUCTION.
- ALL TRAFFIC CONTROL SERVICES, PARKING AND SIGNING TO BE DONE IN ACCORDANCE WITH THE "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES", 1971 EDITION.
- SAG AND CREST VERTICAL CURVES WERE DESIGNED IN ACCORDANCE WITH HOWARD COUNTY DESIGN MANUAL VOLUME III, ROADS & BRIDGES.
- PROVIDE CONCRETE SIDE WALK RAMPS IN CURBS, WHERE SHOWN IN PLAN (MAX 12:1 SLOPE; SEE HOWARD CO. STD. DETAILS, R-1.01)
- MINIMUM COVER OF 12" SHALL BE PROVIDED OVER STORM DRAIN PIPES IN ALL AREAS NOT BEING FINAL GRADED BY THESE PLANS.
- DESIGN SPEED: 30 M.P.H.
- STREET LIGHTS SHALL BE 175 WATT MODERN MERCURY VAPOR LAMP POST TOP FIXTURES ON 14 FT. GRAY FIBERGLASS POLES.
- HORIZONTAL AND VERTICAL DATUM BASED ON HOWARD CO. 3243011 & 3243010
- THE CONTRACTOR SHALL PROVIDE ACCESS TO THE EXISTING HOMESITE (LOT 36) DURING ALL PHASES OF CONSTRUCTION.
- EXISTING TOPOGRAPHY AS SHOWN HEREON WAS TAKEN FROM PLANS PROVIDED BY OWNER.
- REFER TO PLAN P-84-54, SHEET 3 OF 6 FOR SEDIMENT CONTROL.

GENERAL NOTE #16. CAPITAL PROJECT D-1160 (EP-18-14) ESTABLISHES A RETROFITTED FLOOD ATTENUATION FACILITY WHICH COMBINES THE EXISTING SWIM POND AND ADJACENT STREAM. FLOOD ATTENUATION FACILITY IS DESIGNED TO CAPTURE AND ATTENUATE FLOWS FROM LARGE STORMS. EXISTING STORM DRAINS WERE MODIFIED/EXTENDED AND STREAM WAS REALIGNED WITHIN THE NEW FACILITY. EMBANKMENT RELOCATED AND NEW WEIR CONTROL STRUCTURE INSTALLED. WP-21-029 APPROVED 7/14/21.



APPROVED: *John M. ...* 11-5-84
Chief, Division of Land Development and Zoning Administration Date

APPROVED: *Andrew McLean* 11-7-84
Chief, Bureau of Engineering Date

STATE OF MARYLAND PROFESSIONAL ENGINEER

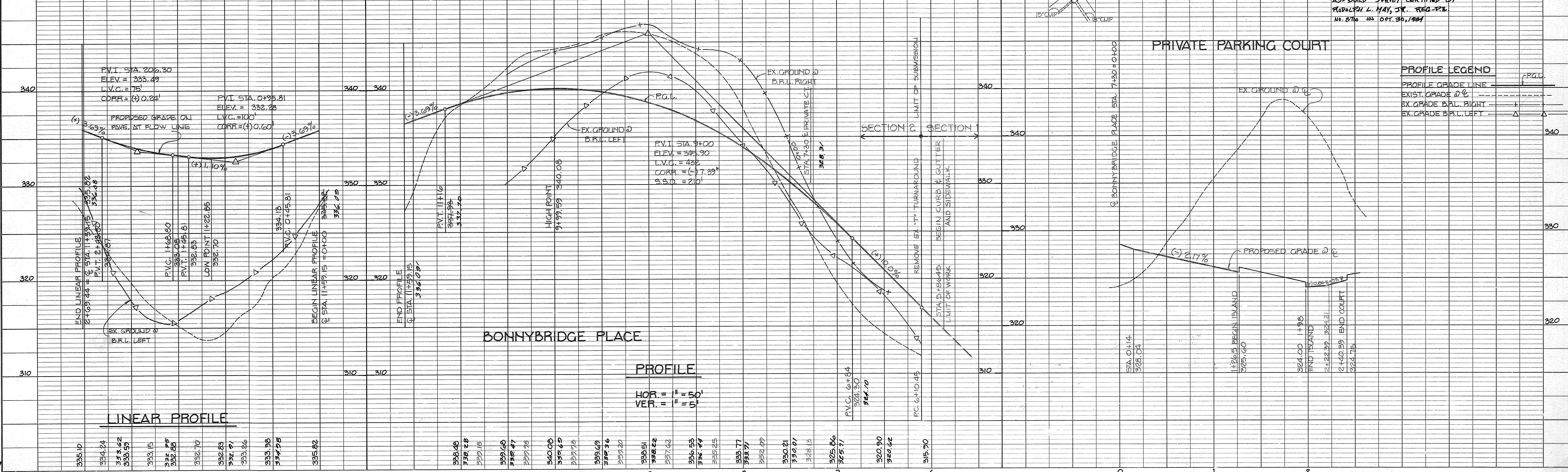
ANDREW McLEAN
PE# 49427

EVANS, HAGAN & HOLDEFER, INC.
ENGINEERS, LAND PLANNERS & SURVEYORS
1052 WEST STREET / LAUREL, MD. 20707
(301) 725-0665 / 792-8086

Rodolph M. ... 10/30/84

DESIGNED AFC	ROAD PLAN AND PROFILE	SCALE AS SHOWN
DRAWN BLJ		DRAWING 10F5
CHECKED JBN		JOB NO. 00003
DATE 17 APR 84		FILE NO.
FOR: BEECH CREEK ASSOCIATES P.O. BOX 919 COLUMBIA, MARYLAND 21044		

11/3/21	2	REVISED SWM FOR EXPANDED FACILITY (EP-18-14)
DATE	NO.	REVISION



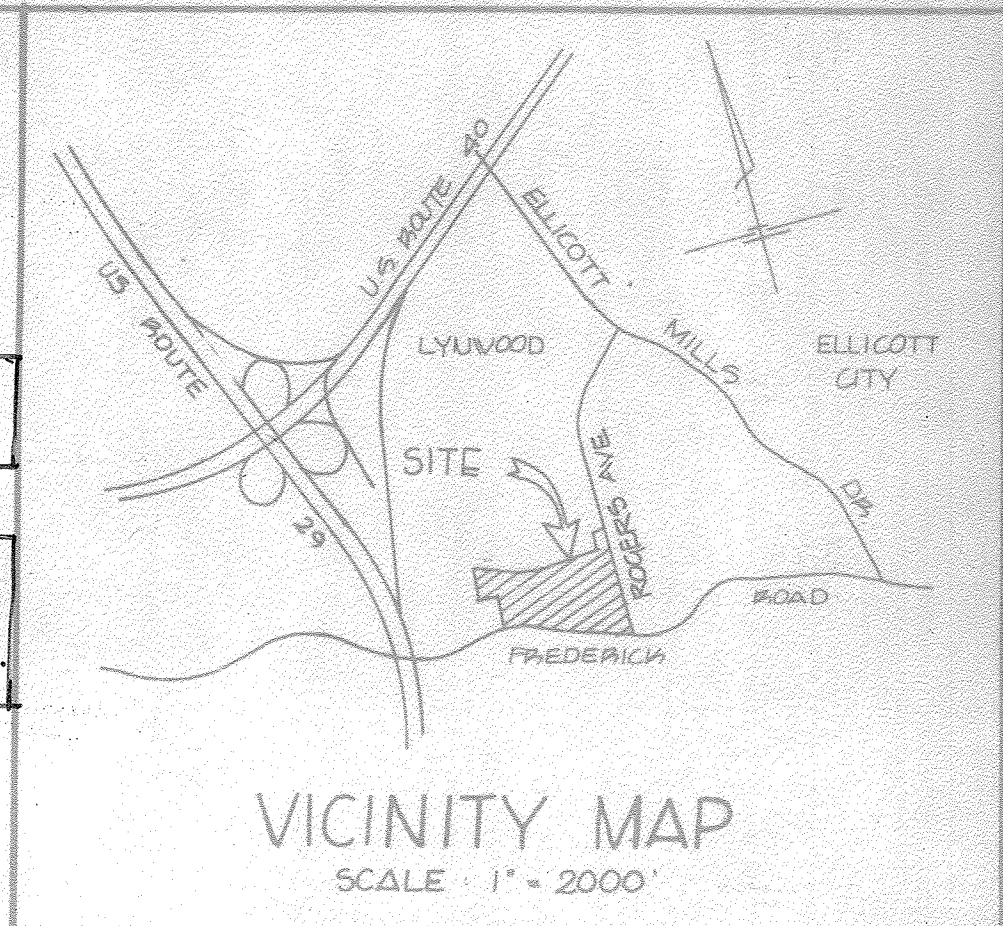
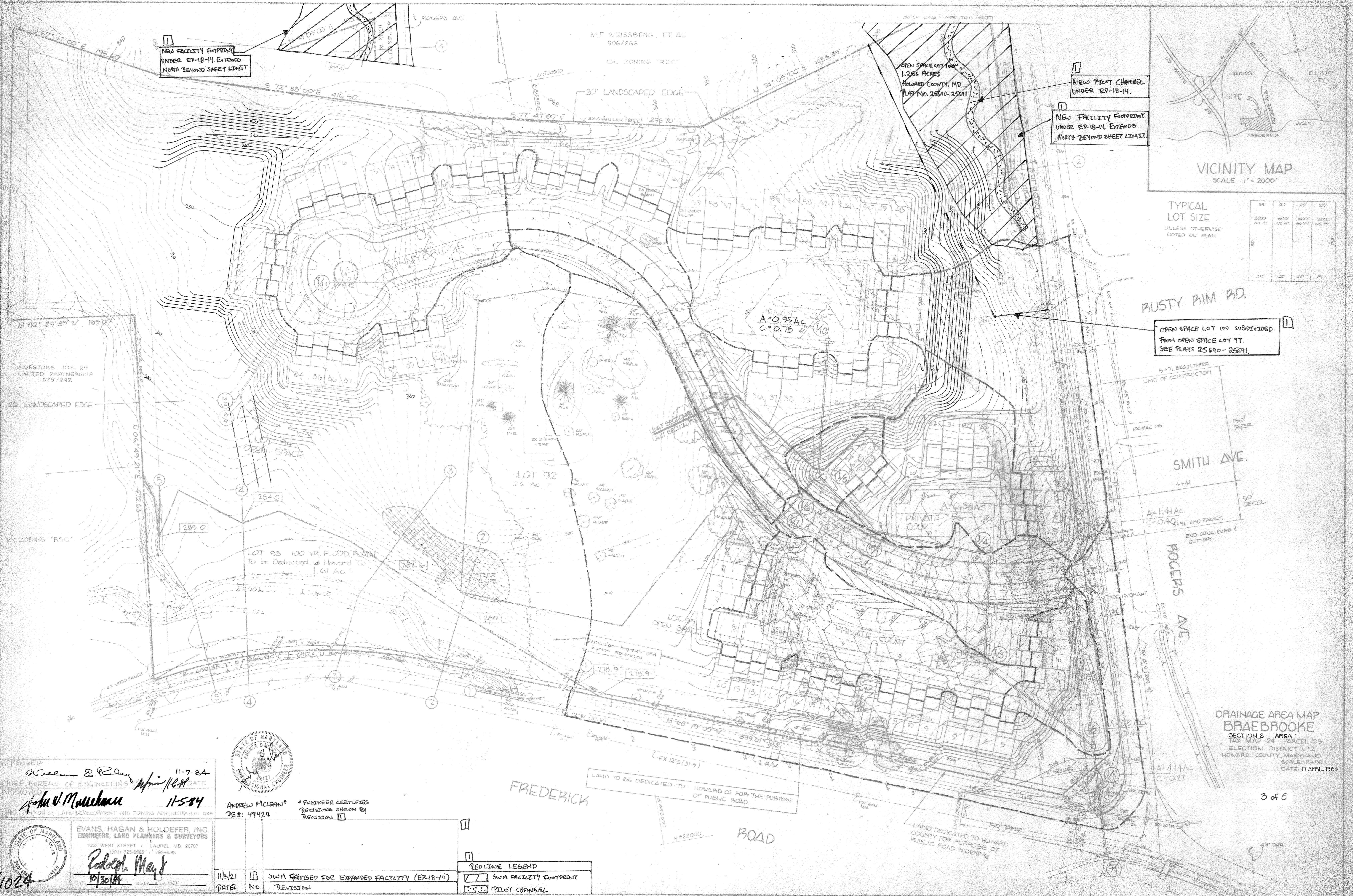
DATE	BY
SURVEYED	BY
NOTE BOOK	ALIGNED CHECKED
	BY
	NO.

DATE	BY
NOTE BOOK	GRADES CHECKED
	BY
	NO.

1/20/85

F-84-207

003-06-1/5



TYPICAL LOT SIZE UNLESS OTHERWISE NOTED ON PLAN

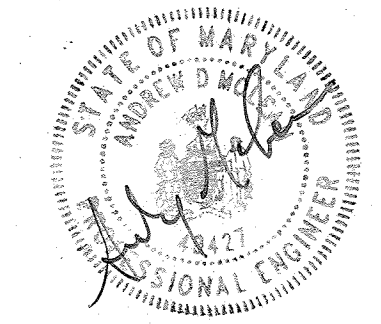
25'	20'	20'	25'
2000 SQ. FT.	1600 SQ. FT.	1400 SQ. FT.	2000 SQ. FT.
60'			60'
25'	20'	20'	25'

BUSTY RIM RD.

OPEN SPACE LOT 100 SUBDIVIDED FROM OPEN SPACE LOT 97. SEE PLATS 25690-25691.

DRAINAGE AREA MAP
BRAEBROOKE
SECTION 2 AREA 1
TAX MAP 24 - PARCEL 129
ELECTION DISTRICT #2
HOWARD COUNTY, MARYLAND
SCALE: 1" = 80'
DATE: 17 APRIL 1984

APPROVED
William E. Remy 11-7-84
CHIEF, BUREAU OF ENGINEERING
APPROVED
John V. Murchaux 11-5-84
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION



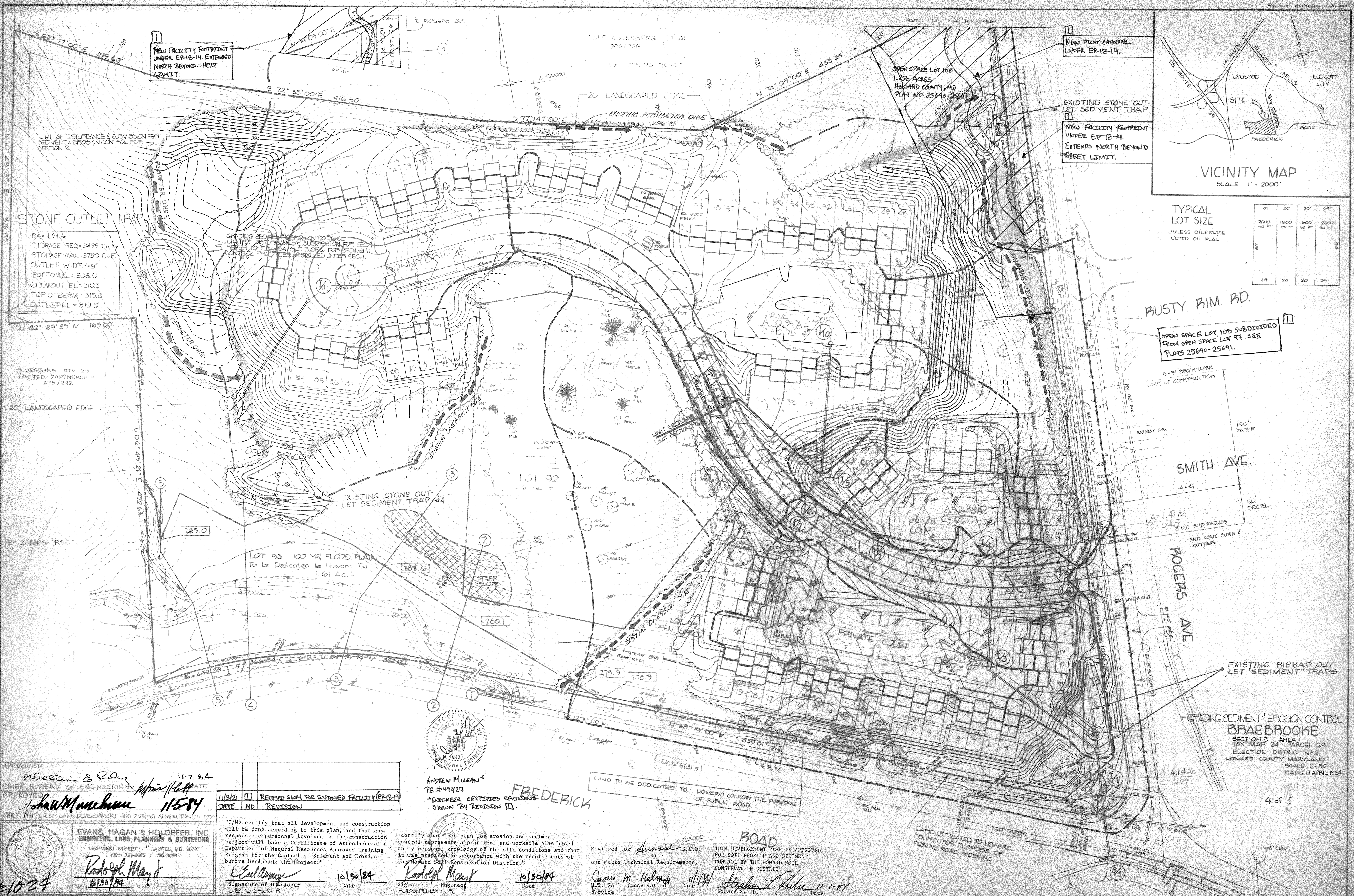
ANDREW MCLEAN* ENGINEER CERTIFIED
REVISIONS SHOWN BY
REVISION 11

EVANS, HAGAN & HOLDEFER, INC.
ENGINEERS, LAND PLANNERS & SURVEYORS
1052 WEST STREET / LAUREL, MD. 20707
(301) 725-0665 / (301) 792-5086
Edoardo May
DATE: 10/30/84 SCALE: 1" = 40'

11/2/81	11	SWM REVISED FOR EXPANDED FACILITY (EP-18-14)
DATE	NO.	REVISION

REDLINE LEGEND

	SWM FACILITY FOOTPRINT
	PILOT CHANNEL

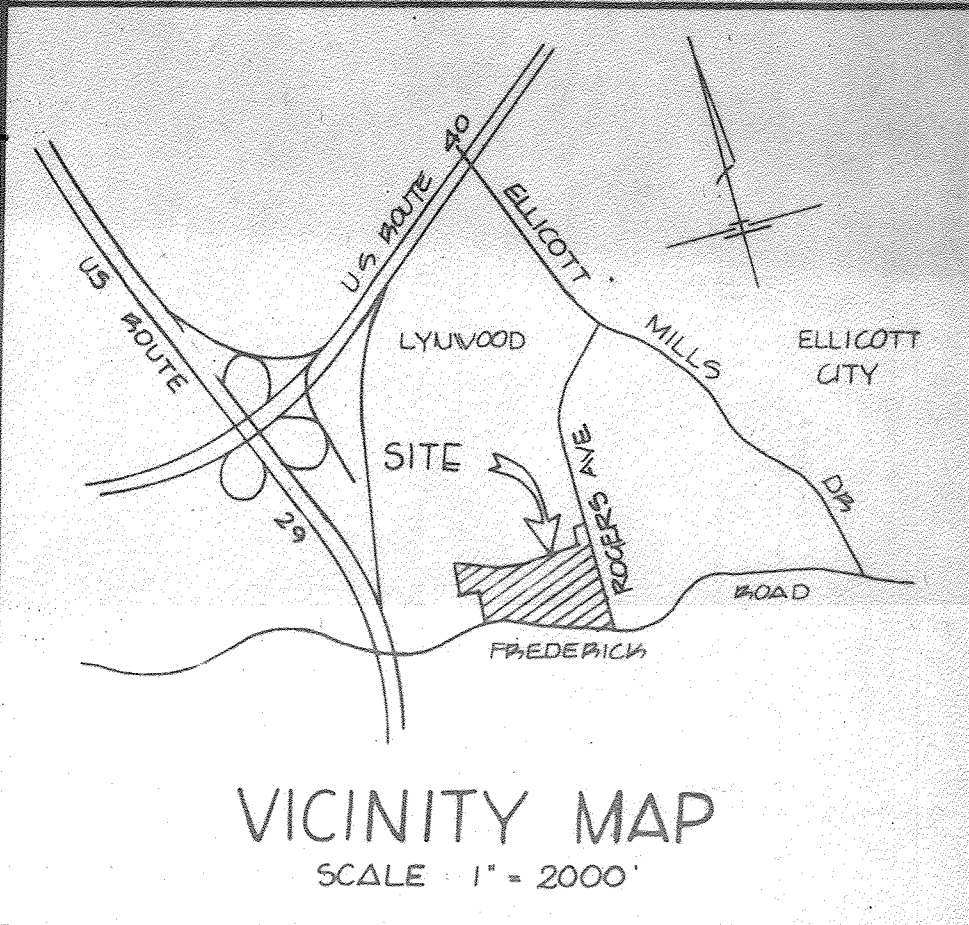


NEW FACILITY FOOTPRINT UNDER EP-18-14. EXTENDED NORTH BEYOND SHEET LIMIT.

NEW PILOT CHANNEL UNDER EP-18-14.

EXISTING STONE OUT-LET SEDIMENT TRAP

NEW FACILITY FOOTPRINT UNDER EP-18-14. EXTENDS NORTH BEYOND SHEET LIMIT.



TYPICAL LOT SIZE UNLESS OTHERWISE NOTED ON PLAN

25'	20'	20'	25'
3000 sq. FT.	1800 sq. FT.	1600 sq. FT.	2000 sq. FT.
80'			80'
25'	20'	20'	25'

OPEN SPACE LOT 100 SUBDIVIDED FROM OPEN SPACE LOT 97. SEE PLATS 25690-25691.

STONE OUTLET TRAP

DA = 1.94A

STORAGE REQ = 3499 Cu Ft

STORAGE AVAIL = 3750 Cu Ft

OUTLET WIDTH = 8'

BOTTOM EL = 308.0

CLEANOUT EL = 310.5

TOP OF BERM = 315.0

OUTLET EL = 313.0

INVESTORS RTE 29 LIMITED PARTNERSHIP 675/242

EX ZONING "RSC"

APPROVED

William E. Rowe 11-7-84

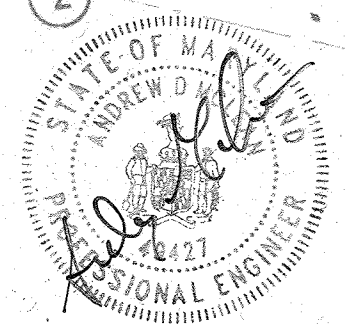
CHIEF, BUREAU OF ENGINEERING

APPROVED

John M. Murchison 11-5-84

CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION

DATE	NO.	REVISION
11/3/84	1	REVISED SWM FOR EXPANDED FACILITY (EP-18-14)



ANDREW McLEAN
PE #449424

ENGINEER CERTIFIES REVISIONS SHOWN BY REVISION III.

EVANS, HAGAN & HOLDEFER, INC.
ENGINEERS, LAND PLANNERS & SURVEYORS

1052 WEST STREET / LAUREL, MD 20707
(301) 725-0865 / 792-8088

Rodolph May Jr.

DATE: 10/30/84 SCALE: 1" = 50'

"I/We certify that all development and construction will be done according to this plan, and that any responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of Natural Resources Approved Training Program for the Control of Sediment and Erosion before beginning the project."

L. Earl Amiger 10/30/84
Signature of Developer
L. EARL AMIGER

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."

Rodolph May Jr. 10/30/84
Signature of Engineer
RODOLPH MAY JR.

Reviewed for *Howard* S.C.D. Name and meets Technical Requirements.

James M. Halmy 11/1/84
Soil Conservation Service

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

Stephen L. Fisher 11-1-84
Howard S.C.D. Date

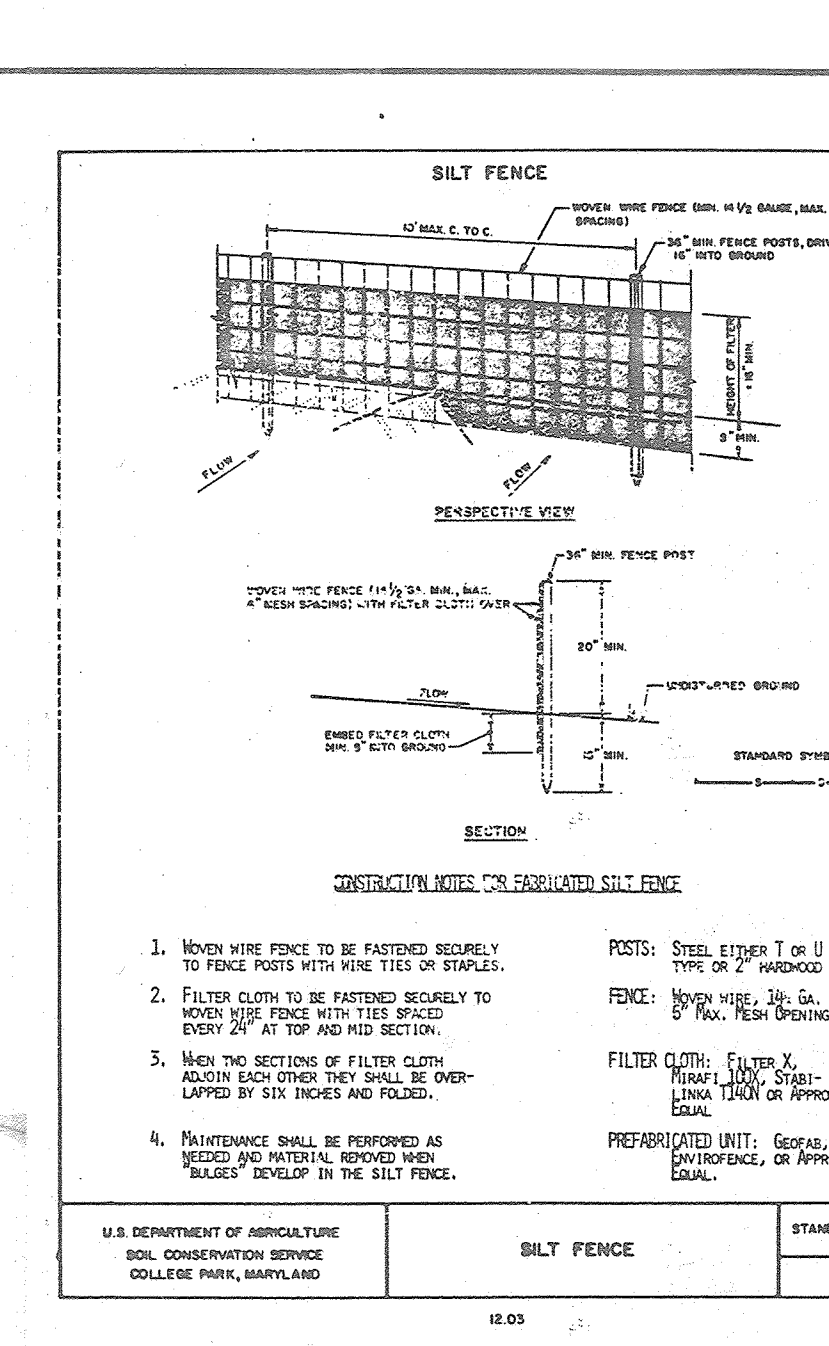
#1024

STANDARD AND SPECIFICATIONS FOR VEGETATIVE STABILIZATION TEMPORARY SEEDING SPECIFICATIONS

I. Site Preparation
A. Prior to seeding, install needed erosion and sediment control practices such as diversion, grade stabilization structures, berms, dikes, graded waterways, and sediment basins.
B. Final grading and shaping has usually not been completed for temporary seedings.

Vegetation cannot be expected to provide an erosion control cover and prevent soil slippage on a soil that is not suitable due to its texture, structure, water movement or excessively steep slope.
Minimum soil conditions needed for the establishment and maintenance of a long-lived vegetative cover:

Line and fertilizer according to soil tests. Line and fertilizer needs can be determined by a soil testing laboratory, such as the University of Maryland's Soil Testing Laboratory.
In lieu of soil test results, apply two tons dolomitic limestone per acre and one of the following rates of fertilizer: 1,000 pounds 10-10-10 or equivalent per acre.

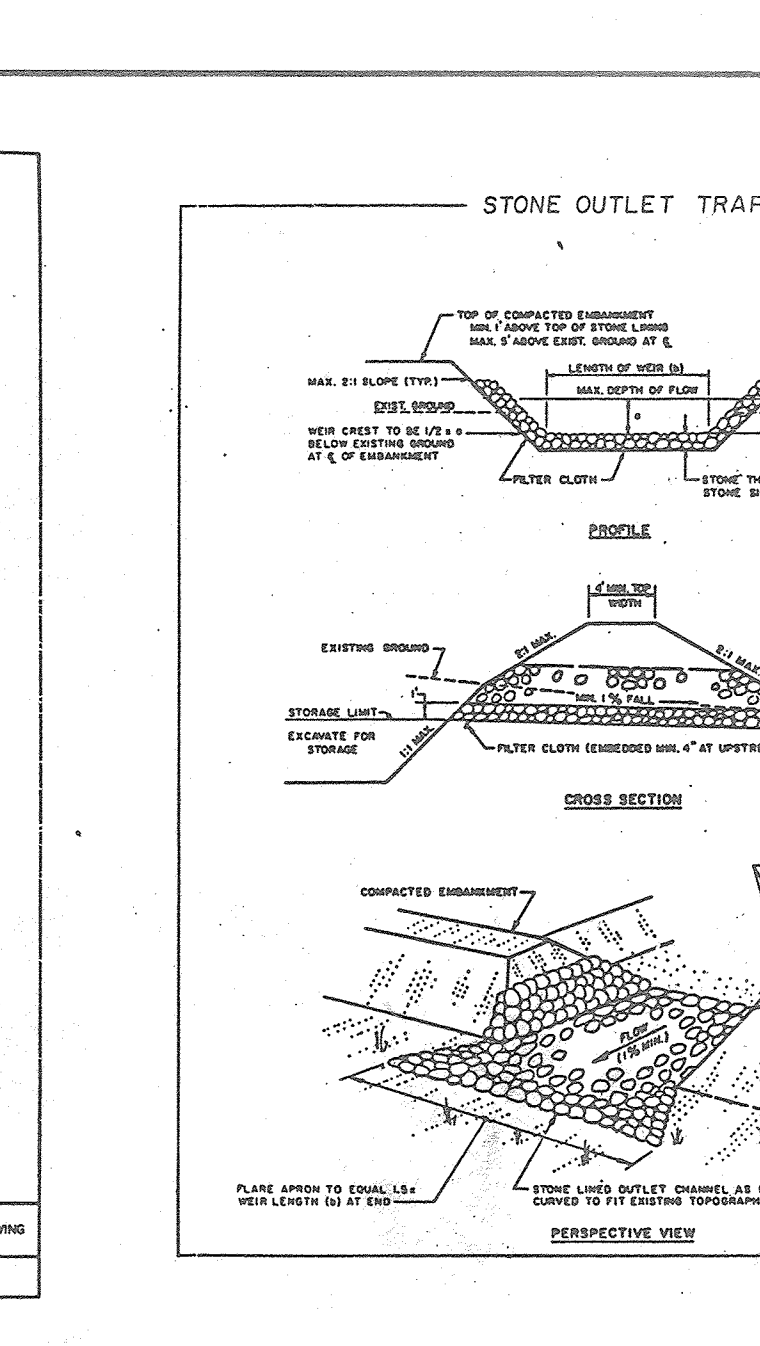


U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE COLLEGE PARK, MARYLAND SILT FENCE STANDARD DRAWING SF-1

A. Materials and Amounts
1. Mulch matting - such as jute or excelsior blanket shall be applied to the surface in waterways and on steep slopes.
2. Straw - Material shall be unrotted small grain straw applied at the rate of 1 1/2 to 2 tons per acre, or 70 to 90 (two bales) pounds per 1,000 sq. ft.

V. Mulching
When seedings are made on critical sites or adverse soil conditions, mulch material will be applied immediately after seeding. Good seedings are made during optimum seeding dates and with favorable soils on very flat areas may not need to be mulched.

1. Mulch Anchoing Tool and Tracking. A mulch anchoring tool is a tractor drawn implement designed to punch and anchor mulch into the surface 2 inches of soil.
2. Liquid Mulch Binders. Application of liquid binders should be heavier at edges where wind catches mulch, in valleys, and at crests of banks.

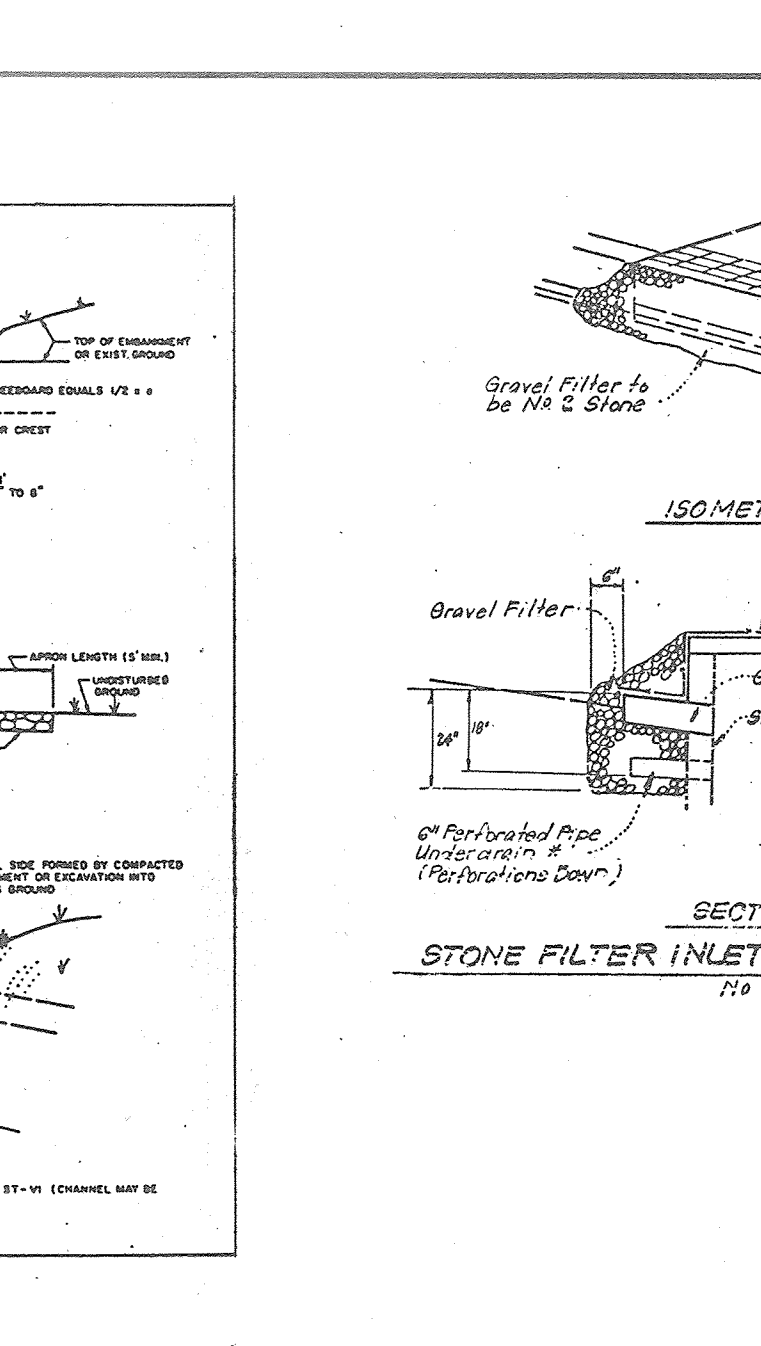


U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE COLLEGE PARK, MARYLAND STONE OUTLET TRAP STANDARD DRAWING SF-2

3. Wood chippings - at the rate of approximately 5 tons per acre or 275 lbs. per 1,000 sq. ft. may be used when available and when feasible to use.
4. Wood cellulose fiber - mulch at the rate of 1,500 pounds per acre or 35 pounds per 1,000 sq. ft. may be applied by hydroseeding.

VI. Irrigation
If soil moisture is deficient, supply new seedlings with adequate water for plant growth until they are firmly established, if feasible.
VII. Maintenance
Maintenance is a vital factor in maintaining an adequate vegetative erosion control cover.

1. Mulch Anchoing Tool and Tracking. A mulch anchoring tool is a tractor drawn implement designed to punch and anchor mulch into the surface 2 inches of soil.
2. Liquid Mulch Binders. Application of liquid binders should be heavier at edges where wind catches mulch, in valleys, and at crests of banks.

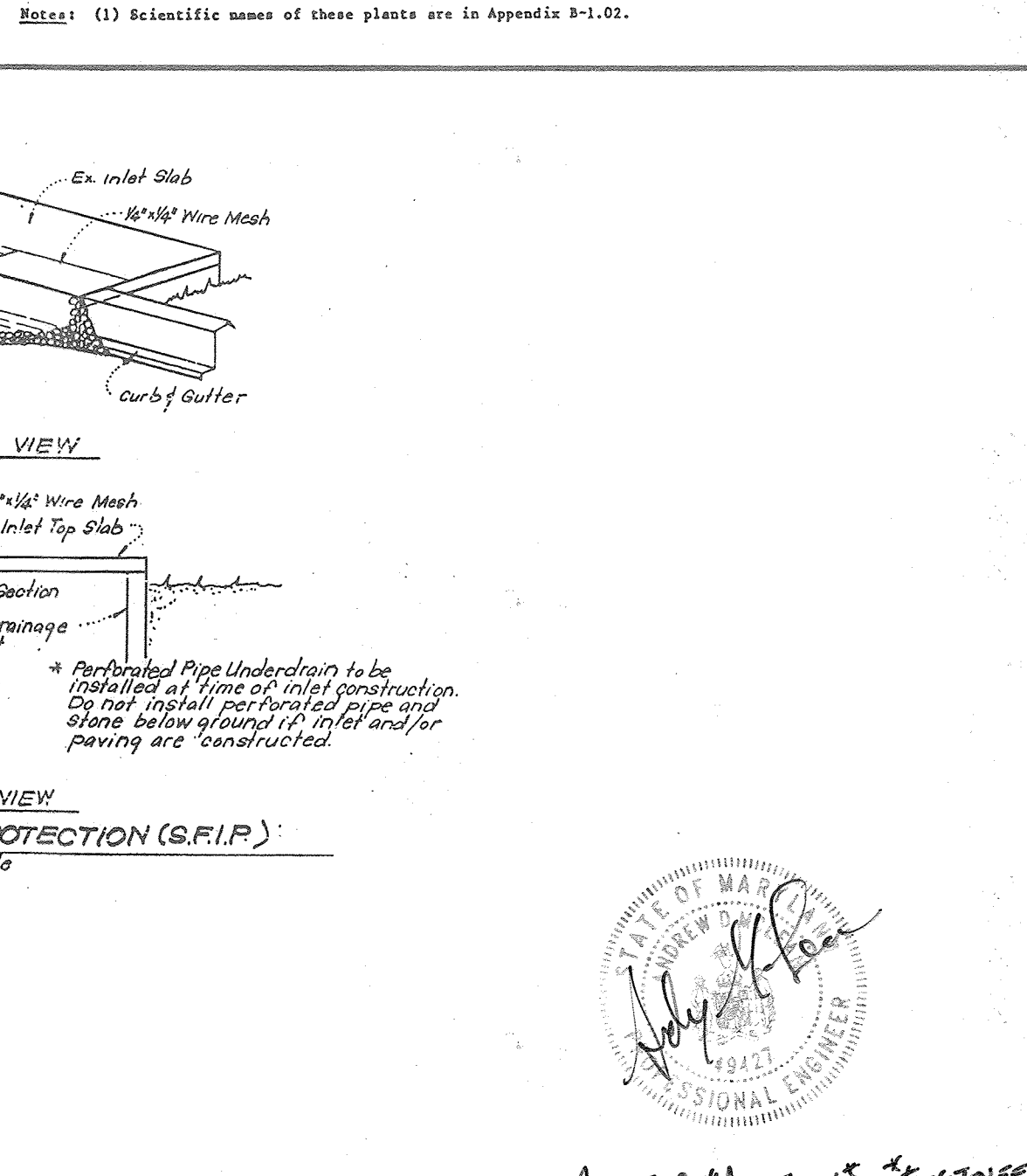


U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE COLLEGE PARK, MARYLAND STONE FILTER INLET PROTECTION (S.F.P.) STANDARD DRAWING SF-3

TABLE 50-1 Temporary Seedings by Rates, Depths and Dates. Table with columns for Seeding Rate, Planting Depth, and Seeding Dates for various species like Kentucky 31, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50.

TABLE 51-1 Permanent Seedings and Seeding Dates. Table with columns for Species, Seeding Rate, and Seeding Dates for various species like Kentucky 31, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50.

(a) Use Weeping Lovagegrass to provide a stand of grass for erosion control during summer.
(b) Use hullless seed.
(c) Preferable to seed in fall with seed from current year's crop.



U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE COLLEGE PARK, MARYLAND STONE FILTER INLET PROTECTION (S.F.P.) STANDARD DRAWING SF-3

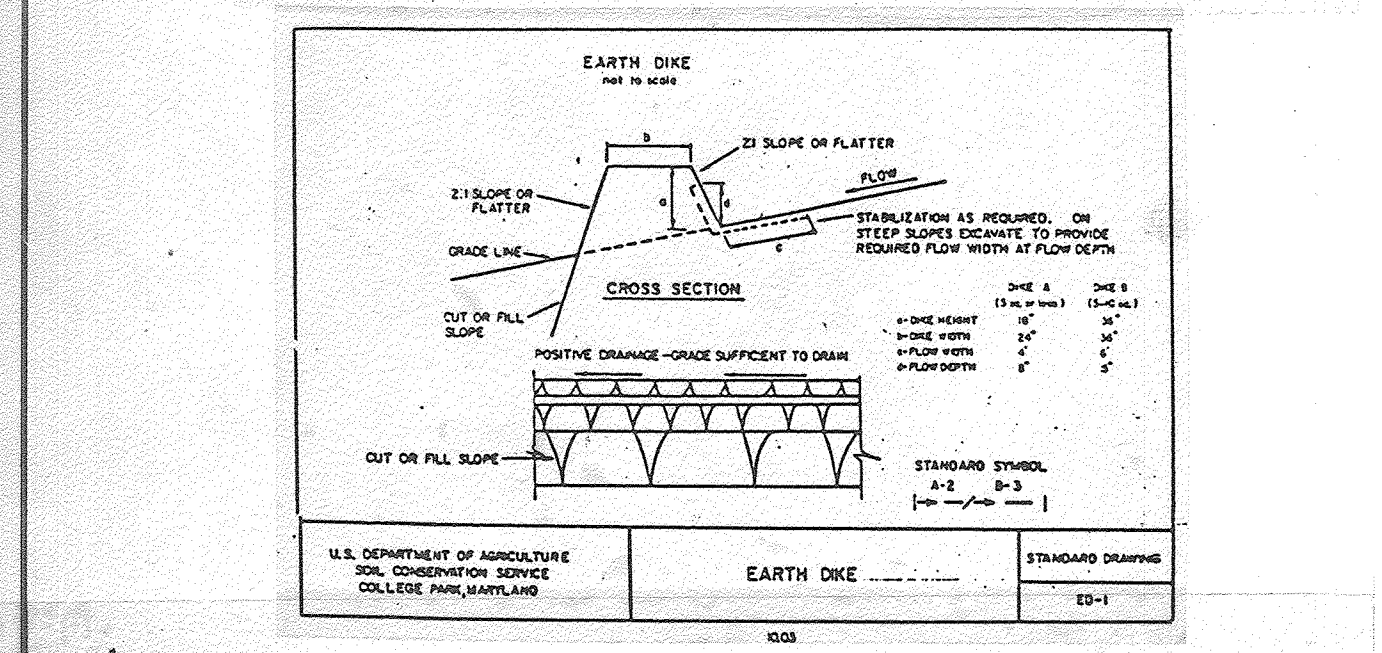
GENERAL NOTES
1. Grading permits shall be obtained prior to installation of sediment control and grading.
2. All sediment and erosion control measures will be installed and stabilized according to this plan prior to any other grading, clearing or disturbance of the existing surface of the site.

10. The contractor shall keep all public roads free of sediment deposits left from traffic leaving construction site.
11. Site Analysis:
a. Total Area: 2333 Acres
b. Area To Be Paved: 1.76± Acres

GENERAL NOTE #14. CAPITAL PROJECT 2-116 (EX-18-14) ESTABLISHES A RETROFITTED FLOOD ATTENUATION FACILITY WHICH COMBINES THE EXISTING SWAMP AND ADJACENT STREAM. FLOOD ATTENUATION FACILITY IS DESIGNED TO CAPTURE AND ATTENUATE FLOWS FROM LARGE STORMS. EXISTING STORM DRAINS WERE MODIFIED/EXTENDED AND STREAM WAS REALIGNED WITHIN THE NEW FACILITY EMBANKMENT RELOCATED AND NEW WEIR CONTROL STRUCTURE INSTALLED. WSP-21-024 APPROVED 7/14/21.

Approval form for Evans, Hagan & Holdefer, Inc. with fields for Date, Revision, By, and Signature. Includes a circular seal for Joseph L. Hagan, Professional Engineer.

Phase I Motify the Bureau Of Inspections and Permits at least 24 hours before starting any work.
Phase II Repair or replace, as necessary, all sediment control devices existing from approved plan F-84-54.
Phase III Clear for and construct sediment control as shown.



Reviewed for Howard S.C.D. and meets Technical Requirements.
Signature of Engineer: Rodolph May Jr. Date: 1/30/84

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
Signature of Developer: L. EARL ARMIGER Date: 1/30/84