

Approved: Department of Public Works

J. M. McLeod

Chief, Bureau of Highways

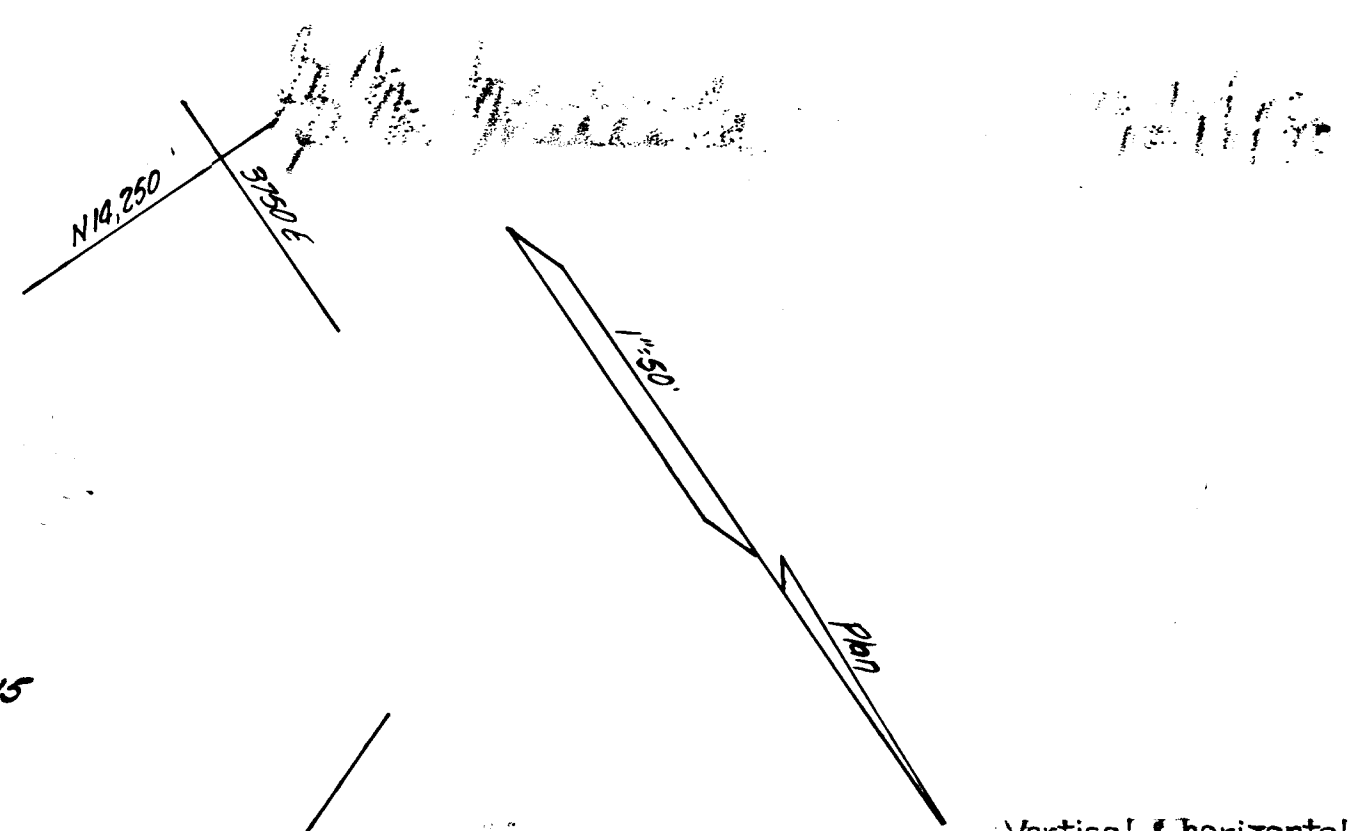
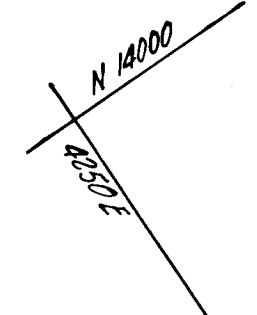
12/1/75
Date

Approved: Office of Planning & Zoning

J. J. Henderson

Chief, Division of Land Development & Transportation Planning

11/28/75
Date

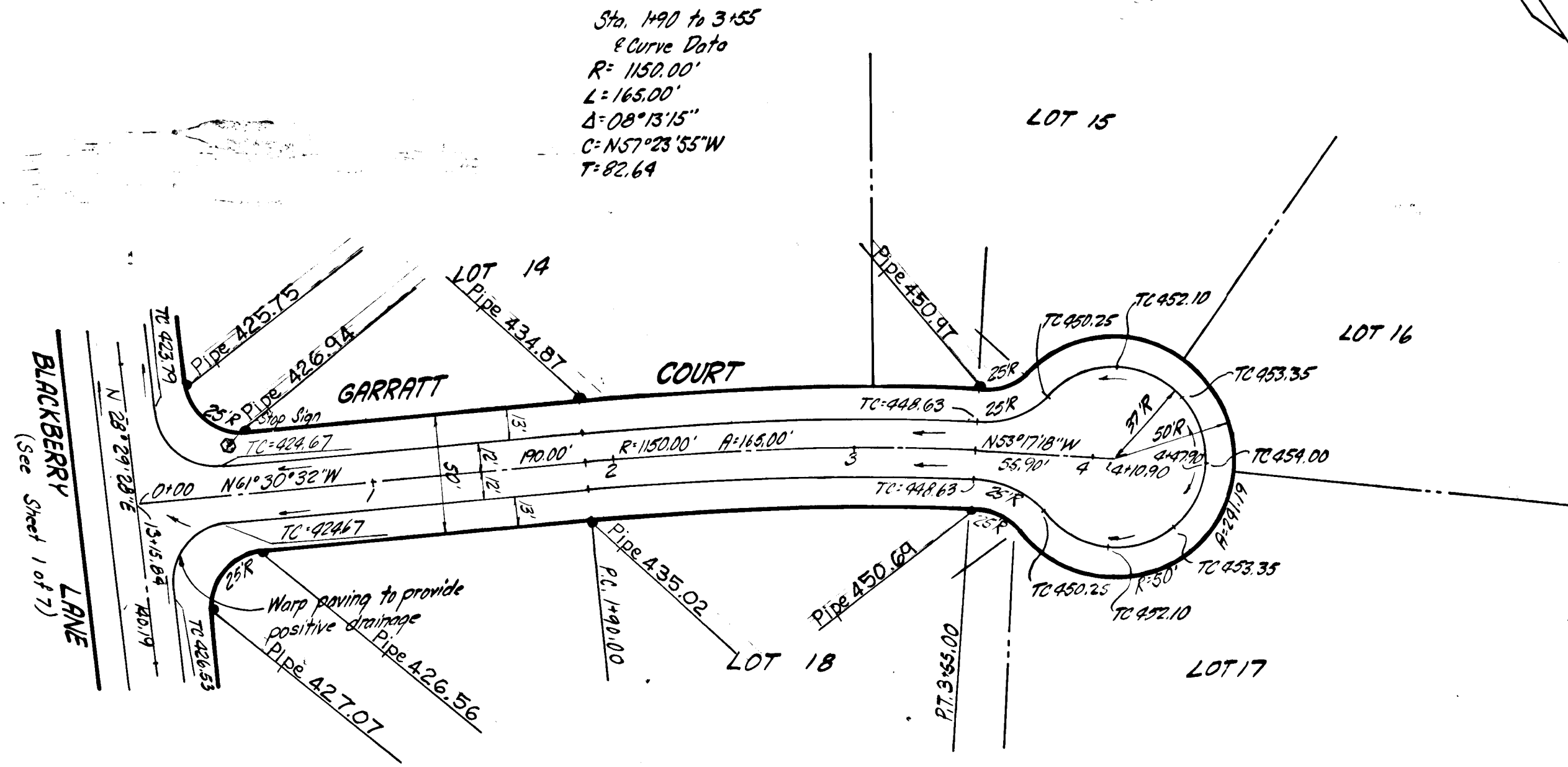


STORM DRAIN, PAVING & GRADE ESTABLISHMENT
PLAN & PROFILE
GARRATT COURT
BRIAR HILL
3rd ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SHT. 3 of 7

6-22-75
8-29-75
3-1-78

APPROVED
DIVISION OF LAND DEVELOPMENT
AND TRANSPORTATION PLANNING
HOWARD COUNTY, MARYLAND
DATE 9/8/75
J. J. Henderson

Vertical & horizontal plan referenced to
Section One Benson, P.B. 18 Plot 79
(adjoining)

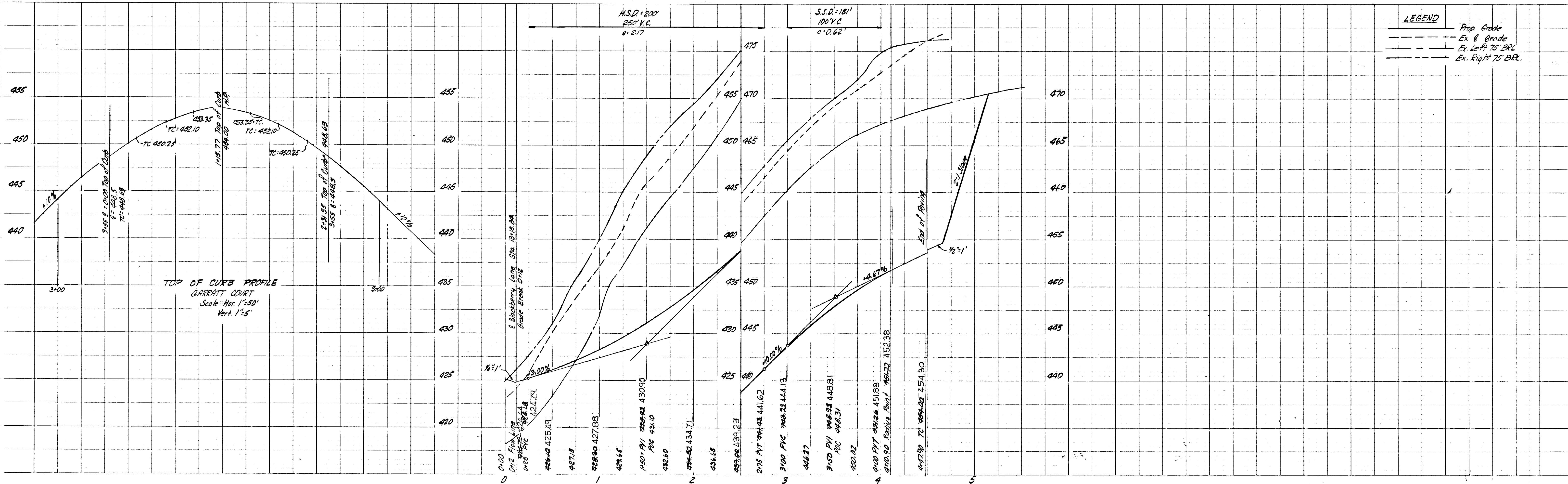


Note: There are no trees within public R.O.W.

Design Speed 30MPH
K=28 Crest
K=35 Sag

TOURS & LOEDERMAN
1370 PICCARD DRIVE
ROCKVILLE, MARYLAND 20850

SEE SHEET 1 of 7 for PAVING SECTION



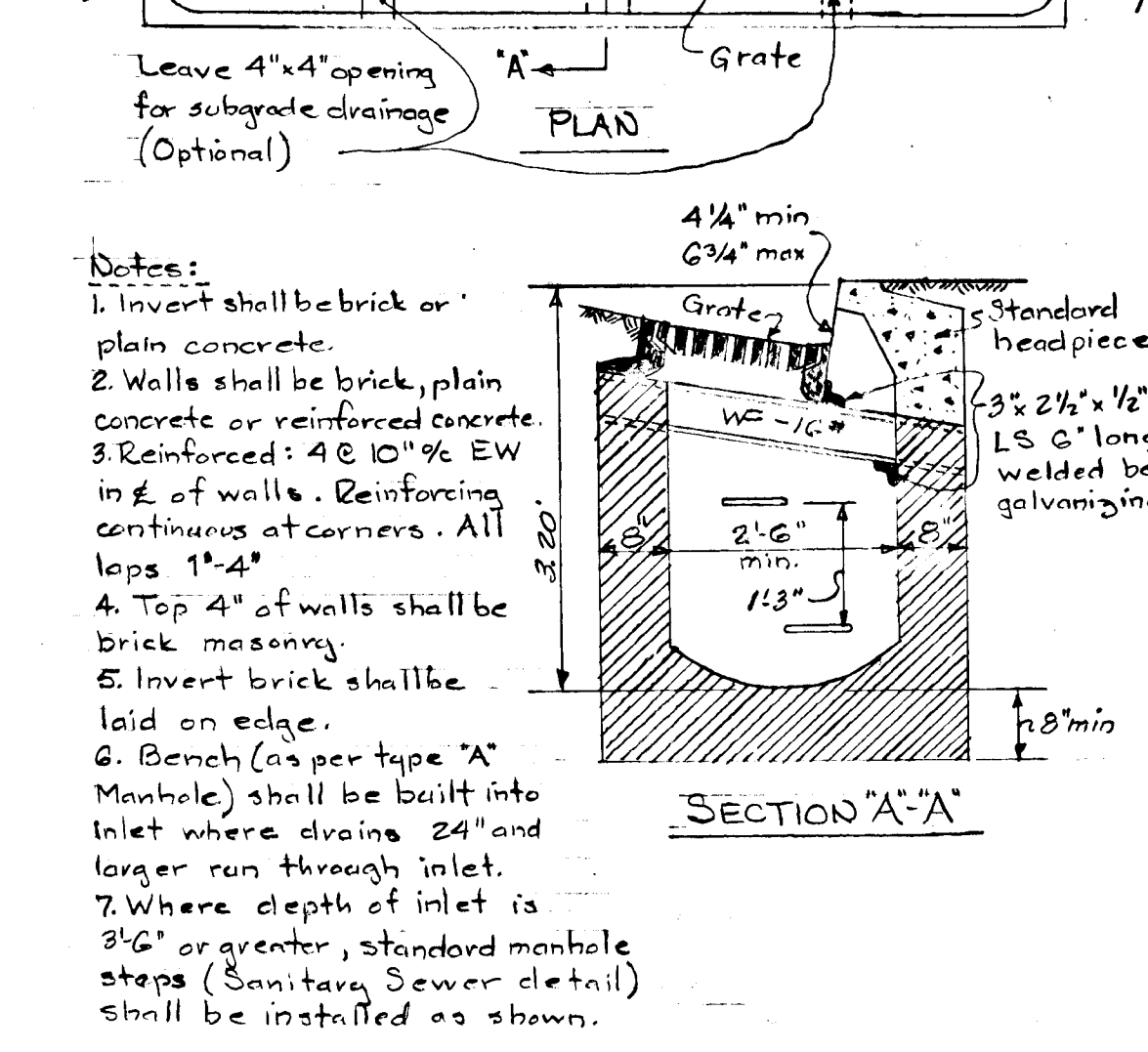
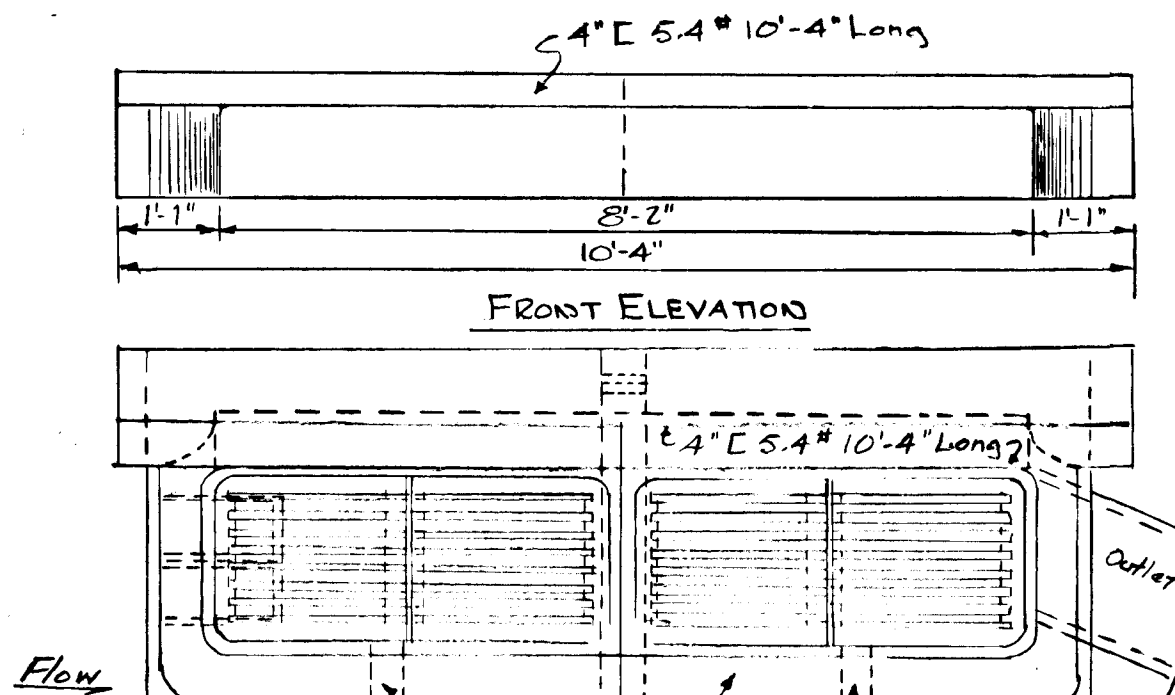
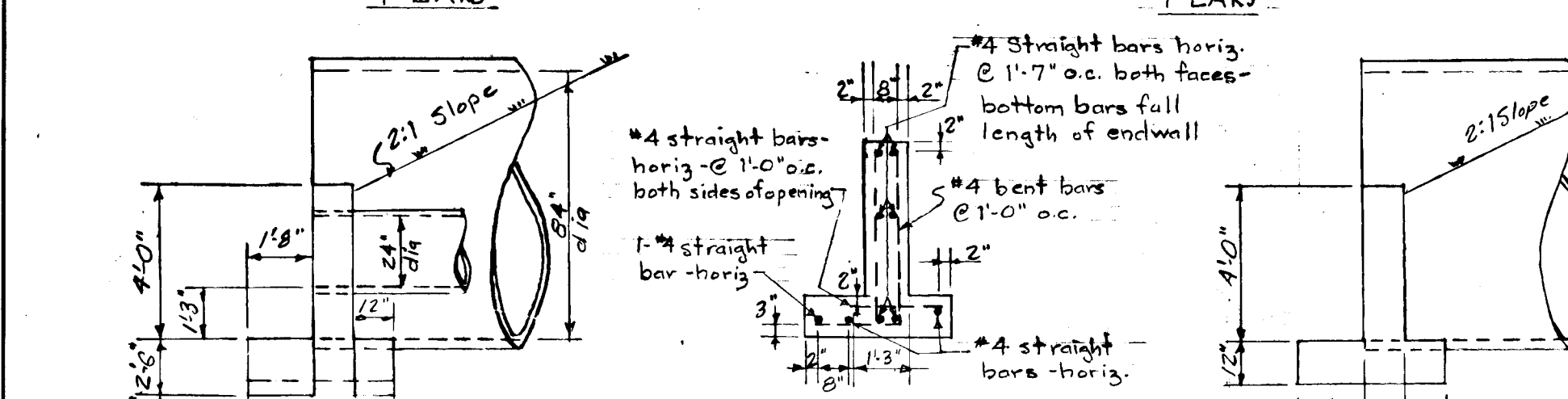
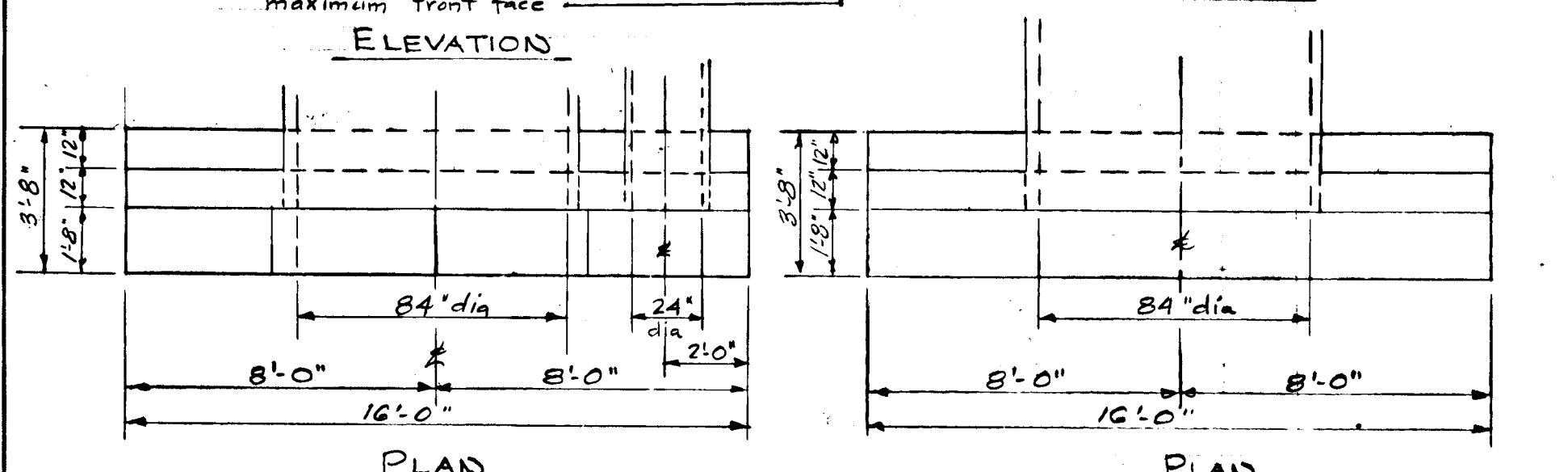
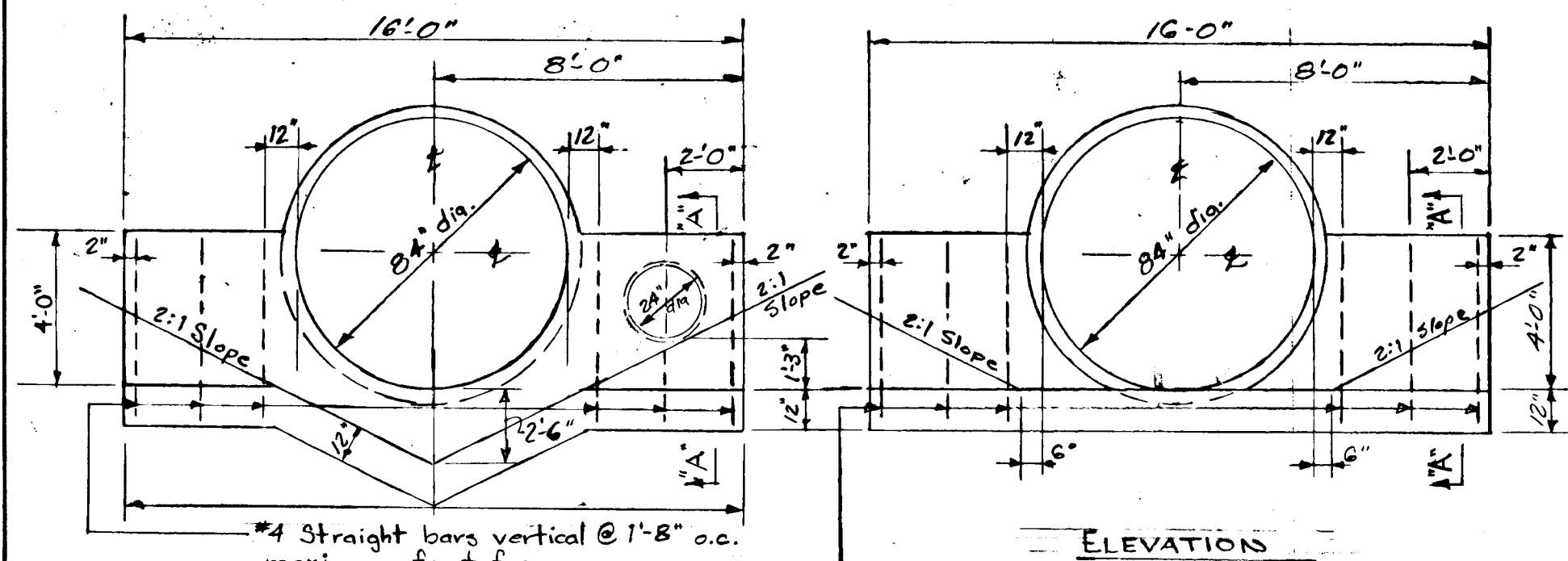
LEGEND
- - - - - Prop. Grade
- - - - - Ex. & Grade
- - - - - Ex. Left 75 BRL
- - - - - Ex. Right 75 BRL

DATE
BY
CHECKED
BY
NOTE BOOK ALIGNMENT CHECKED
BY
OF WAY CHECKED
BY

DATE
BY
CHECKED
BY
NOTE BOOK GRADES CHECKED
BY
S.W. NOTES
BY
COURT PLAN ONLY CHECKED
BY

STRUCTURE S-10

STRUCTURE S-12



STRUCTURE 14-A
DOUBLE TYPE "E" COMBINATION INLET

APPROVED: DEPARTMENT OF PUBLIC WORKS
D. M. McKeand 12/1/75
 Chief, Bureau of Highways Date

APPROVED: OFFICE OF PLANNING & ZONING
J. H. Clouston Jr 11/28/75
 Chief, Division of Land Development & Transportation Planning Date

STORM DRAIN PROFILES

"BRIAR HILL"

300 ELECTION DISTRICT, HOWARD CO., MARYLAND
 SH. 4 OF 7

4-4-75
 5-9-75
 6-22-75
 8-29-75
 3-1-78

APPROVED
 DIVISION OF LAND DEVELOPMENT
 AND TRANSPORTATION PLANNING
 HOWARD COUNTY, MARYLAND
 DATE 9/5/75
J. H. Clouston Jr

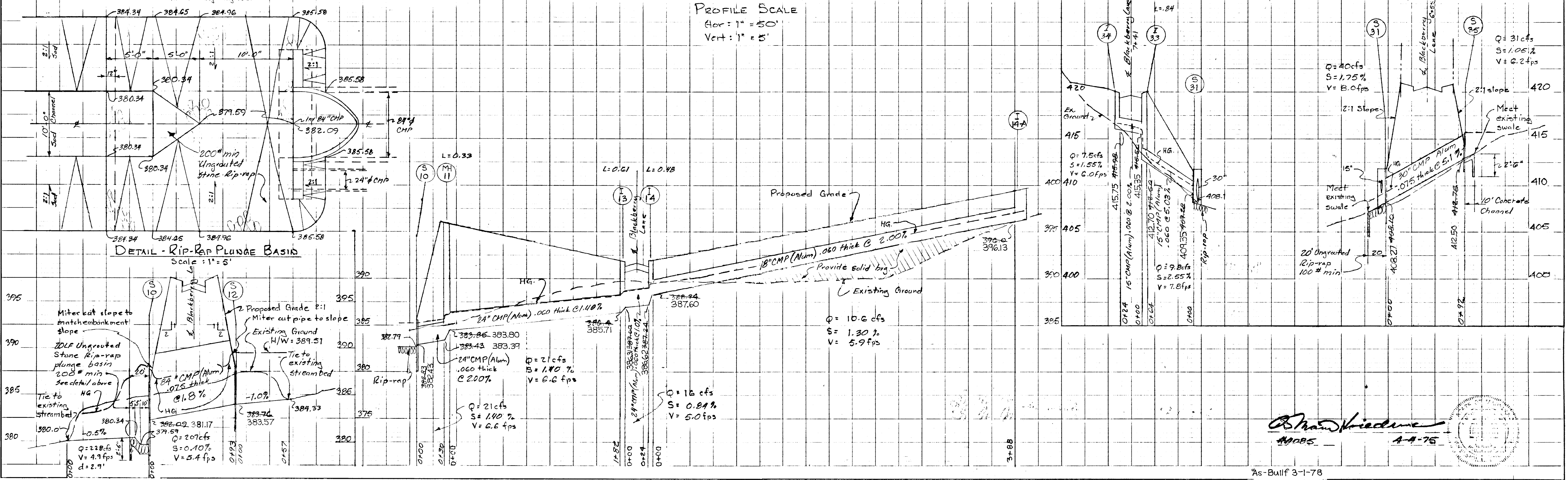
STRUCTURE SCHEDULE

STRUCTURE #	TYPE	TOP OF CURB ELEV.		INVERTS		REMARKS	LOCATION
		UPPER	LOWER	IN	OUT		
S-10	Standard Support Wall with modifications dia = 84"	-	-	-	84" = 351.17 321.58 24" = 382.40 382.43	See detail left for modifications to Howard County Std detail D-4G on page 101	Sta 23+30 76.5' left 40.0'
S-12	Standard Support Wall dia = 84"	-	-	-	383.57 383.25	Howard Co Std detail D-4G on page 101 with dimension revisions as shown in detail on left.	Sta 23+50 44' Right
M-11	Standard Manhole	396.0	396.0	383.80 383.85	383.37 383.43	Ho. Co. Std D-103 page 15B	Sta 23+30-15' left
I-13	B-10 Inlet, w=2'6"	391.72	391.72	389.31 387.60	388.71 387.40	" " " D-6A-B "	Sta. 21+38 to 21+48 Left
I-14	A-5 Inlet, w=2'6"	"	"	387.60 387.24	386.62 387.24	" " " D-6A-A "	Sta 21+38 to 21+43 Rt.
I-14A	Double "E" Combination Inlet	399.38	399.03	-	396.13 397.02	See detail left center	Sta 17+45 to 17+55 Rt.
S-31	Standard Type "H" Endwall	-	-	-	30" = 409.10 408.21	" " " D-6A "	Sta. 6+80-42' left
I-33	A-5 Inlet, w=2'6"	419.72	419.72	415.35 415.50	412.70 412.52	" " " D-6A-A "	Sta 7+38.5 to 7+43.5 Lt
I-34	B-10 Inlet, w=2'6"	419.72	419.72	-	415.78 415.93	" " " D-6A-B "	Sta 7+36 to 7+46 Rt.
S-35	Standard Support wall	-	-	-	412.50 412.78	" " " D-4G "	Sta. 6+34-37' right #

PIPE SCHEDULE

SIZE	TYPE	THICKNESS	LENGTH	REMARKS
15"	ACCOMP Aluminum CMP	0.06	88'	Cortex
18"	"	"	388'	"
24"	"	"	236'	"
30"	"	0.075	92'	"
84"	"	0.075	93'	Plate

* Pipe above support wall to be cut to meet slope of embankment



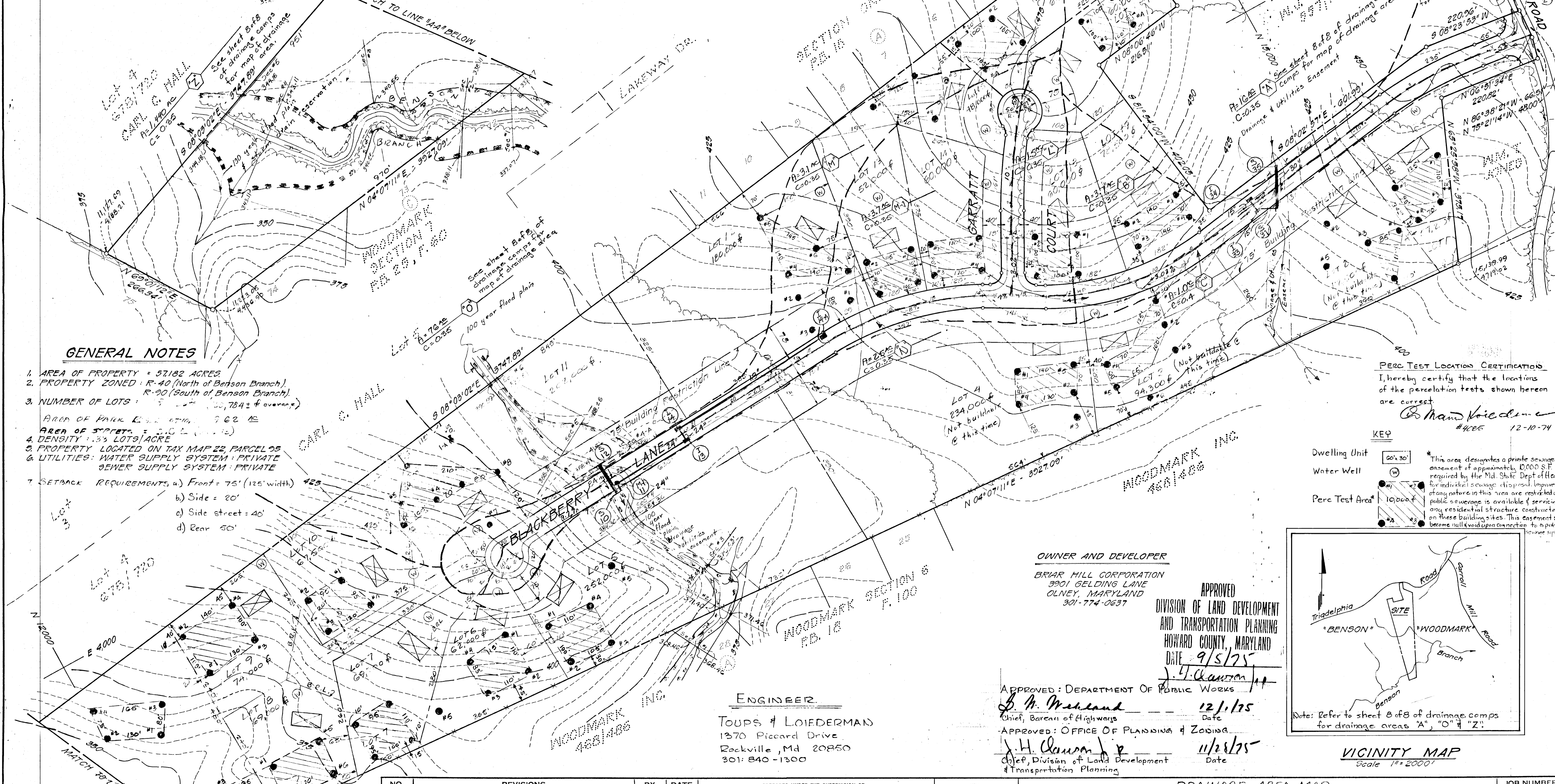
D. M. McKeand
 4-4-75

As-Built 3-1-78

PERC. TEST DATA

Lot No	Size	Average Time	Inlet Depth	Remarks	Lot No	Size	Average Time	Inlet Depth	Remarks
1	57,200 [±]	5 minutes	3 1/2'	Old Lot #1	10	74,000 [±]	9 min	4 1/2'	Old #17
2	112,500 [±]	Not buildable @ this time	-	#2 plus 1/2 of #3	11	202,000 [±]	10 "	4 "	#18 + #19 + #20
3	94,300 [±]	" " " "	-	#4 plus 1/2 of #3	12	180,000 [±]	5 "	3 1/2'	#21 + #22 + #23
4	234,000 [±]	" " " "	-	#5 + #6 + #7	13	52,000 [±]	6 "	5 "	#24
5	252,000 [±]	0 min.	3 1/2'	#8 + #9 + #10	14	60,000 [±]	6 "	4 "	#25
6	112,500 [±]	11 min.	5 1/2'	Old #11	15	48,000 [±]	9 "	4 "	#26
7	94,300 [±]	16 min.	4 1/2'	Old #12	16	64,000 [±]	11 "	3 1/2'	#27
8	57,200 [±]	" " " "	-	Old #13	17	60,000 [±]	9 "	4 1/2'	#28
9	57,200 [±]	9 min.	3 1/2'	#14 + #15	18	60,000 [±]	8 "	5 1/2'	#29
				#16	19	72,500 [±]	8 "	3 1/2'	#30

* Must be retested between Feb. 1 & April 30
 Note: This plan & data block reflects a revised lot layout based on combining certain lots which did not pass percolation tests with those lots which did pass. The old lot numbers and combinations are shown under the remarks column above.
 ⊕ Septic system to be installed prior to commencing house construction.



GENERAL NOTES

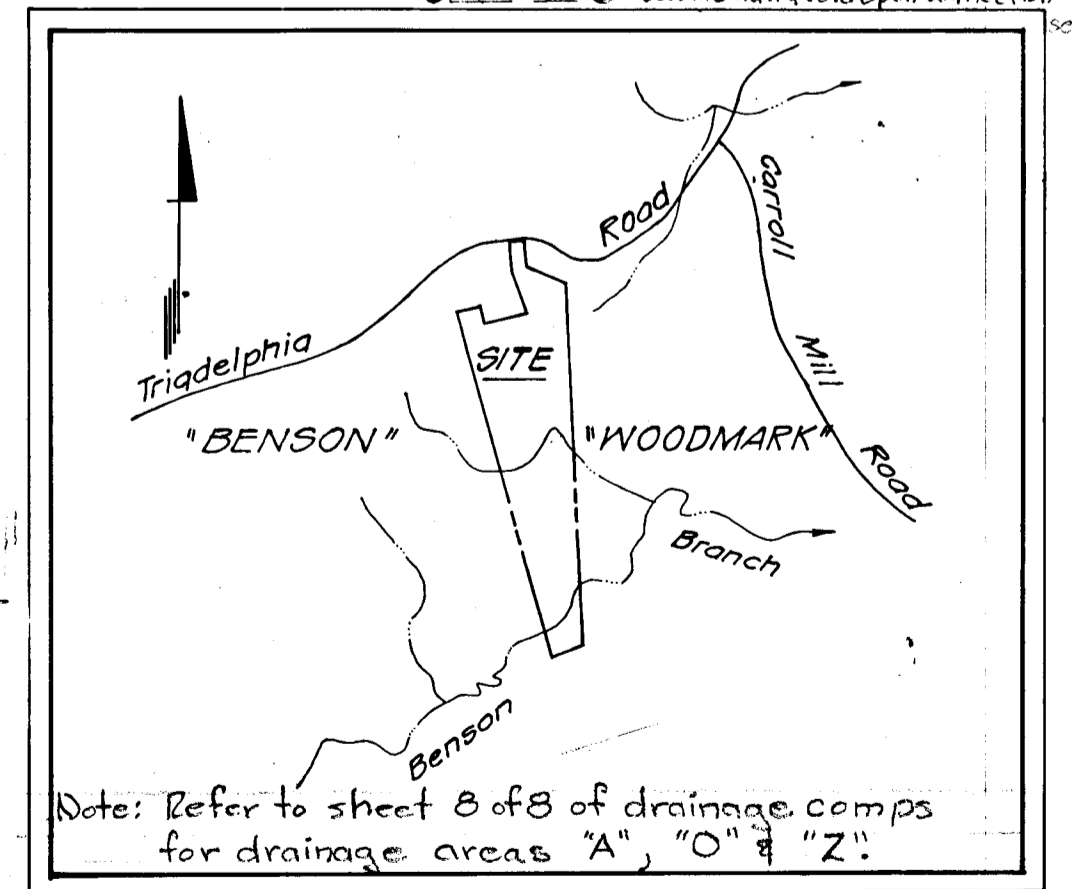
- AREA OF PROPERTY = 57182 ACRES
- PROPERTY ZONED: R-40 (North of Benson Branch) R-20 (South of Benson Branch)
- NUMBER OF LOTS: 30 (20, 784 ± & over)
- AREA OF PARK LAND: 962 AC
- AREA OF STREETS: 210 AC
- DENSITY: 33 LOTS/ACRE
- PROPERTY LOCATED ON TAX MAP 22, PARCEL 95
- UTILITIES: WATER SUPPLY SYSTEM: PRIVATE SEWER SUPPLY SYSTEM: PRIVATE
- SETBACK REQUIREMENTS: a) Front = 75' (125' width) b) Side = 20' c) Side street = 40' d) Rear = 50'

PERC TEST LOCATION CERTIFICATION
 I, hereby certify that the locations of the percolation tests shown hereon are correct.
 M. Friedman
 #4085 12-10-74

KEY

- Dwelling Unit (DW)
- Water Well (W)
- Perc Test Area (PT)

This area designates a private sewage easement of approximately 10,000 S.F. as required by the Md. State Dept of Health for individual sewage disposal. Improvements of any nature in this area are restricted until public sewerage is available for servicing any residential structure constructed on these building sites. This easement shall become null & void upon connection to public sewerage system.



OWNER AND DEVELOPER

BRIAR HILL CORPORATION
 3901 GELDING LANE
 OLNEY, MARYLAND
 301-774-0637

APPROVED
 DIVISION OF LAND DEVELOPMENT
 AND TRANSPORTATION PLANNING
 HOWARD COUNTY, MARYLAND
 DATE 9/5/75
 J. H. Clawson

APPROVED: DEPARTMENT OF Public Works
 J. H. Clawson
 Chief, Bureau of Highways
 DATE 12/1/75

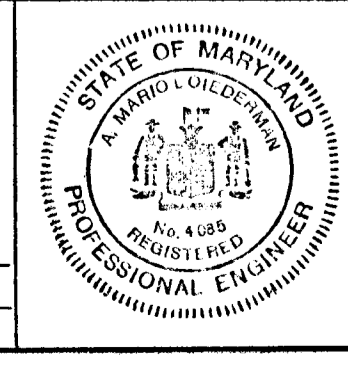
APPROVED: OFFICE OF PLANNING & ZONING
 J. H. Clawson
 Chief, Division of Land Development
 & Transportation Planning
 DATE 11/28/75

ENGINEER
 TOUPS & LOIEDERMAN
 1370 Piccard Drive
 Rockville, Md 20850
 301-840-1300

NO.	REVISIONS	BY	DATE
#1	Lots consolidated & perc tests data added	MLS	12-10-74
#2	Blackberry Lane shortened - 1 lot deleted	MLS	1-31-75
#3	Updated	MLS	5-9-75
#4	Updated	MLS	8-27-75

PREPARED UNDER THE SUPERVISION OF:
 M. Friedman
 #4085
 P.E. NO.
 DATE 4-4-75

DESIGNED M.L.S. CHECKED M.L.S. SCALE 1" = 100'
 DRAWN W.K.A. DATE August 31, 1974 REF.



DRAINAGE AREA MAP
BRIAR HILL
 3RD ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

JOB NUMBER
 SHEET NO. 5
 OF 7 SHEETS

CONSTRUCTION SCHEDULE

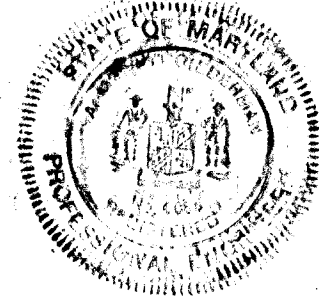
1. Begin clearing
2. Complete clearing
3. Begin grading and install sediment control
4. Begin installation of storm drains
5. Complete grading
6. Complete storm drains
7. Begin paving
8. Complete paving
9. Remove sediment traps & basins
10. Complete stabilization

ENGINEERS 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.

Eric V. Noisden
Signature Date 2-18-75

4085
No.



Note: For details of diversion dikes, interceptor dikes & inlet filters see sheet 7 of 7.

SITE ANALYSIS

Total Area of Site	57.182 AC
Total Disturbed Area	5.2 AC
Total Impervious Area	1.9 AC
Total Area to be Vegetated	3.3 AC
Area to remain undisturbed	51.98 AC

* this plan is for roads and the associated grading and does not include construction of houses.

GENERAL NOTES

1. PROPERTY IS 57.182 ACRES
2. PROPERTY BOUNDARY K. 40' (North of Benson Branch)
3. PROPERTY BOUNDARY R. 20' (North of Benson Branch)
4. PROPERTY BOUNDARY 150' (North of Benson Branch)
5. PROPERTY BOUNDARY 100' (North of Benson Branch)
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100. PROPERTY BOUNDARY 100' (North of Benson Branch)

Reviewed for HOWARD Soil Conservation
District and meets technical requirements.
Eric V. Noisden
Signature Date 11/25/75
U.S. SOIL CONSERVATION SERVICE

This development plan is approved for soil erosion and sediment control by the Howard Soil Conservation District.

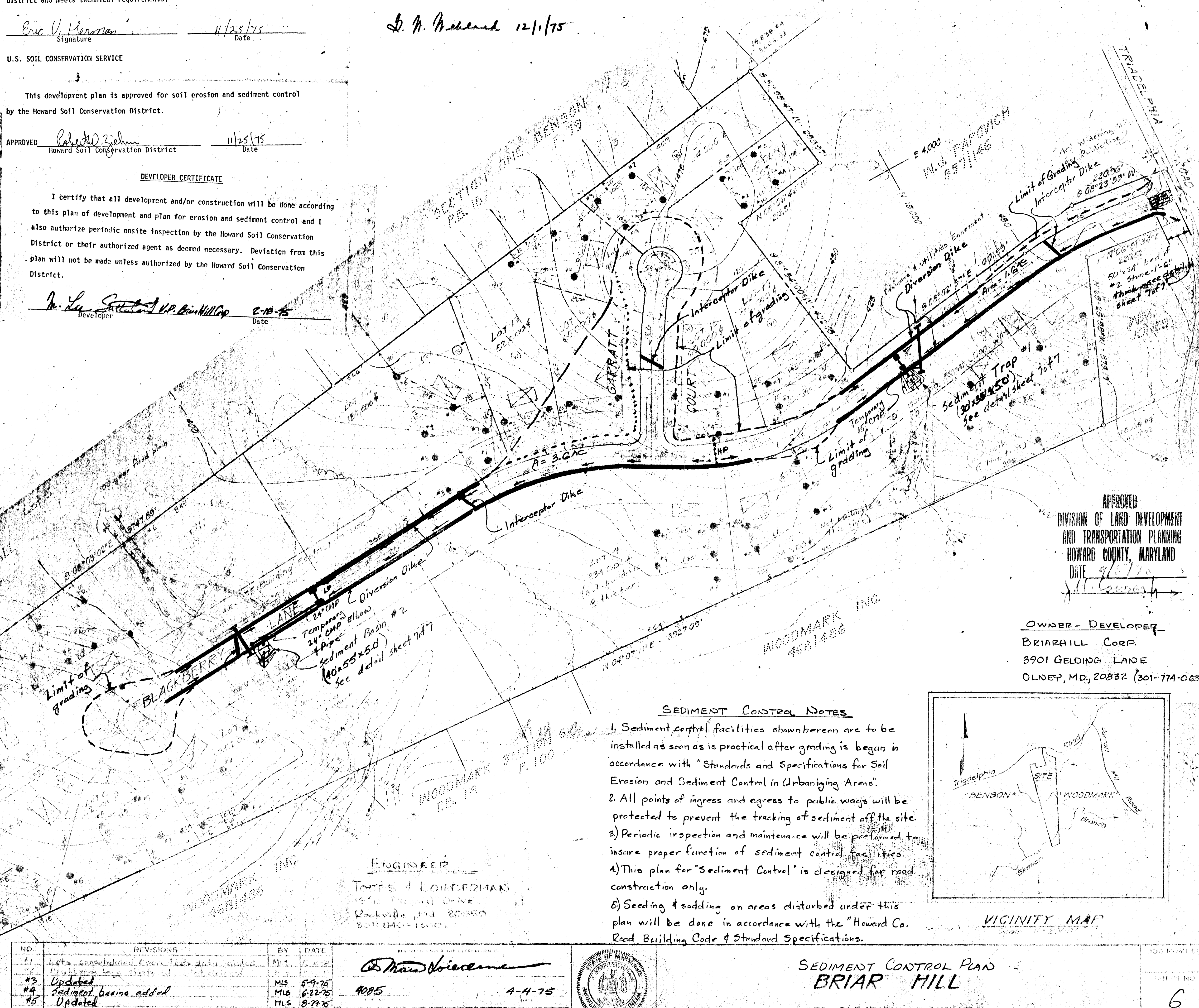
APPROVED *Robert W. Zehner*
Howard Soil Conservation District Date 11/25/75

DEVELOPER 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 onsite inspection by the Howard Soil Conservation District or their authorized agent as deemed necessary. Deviation from this plan will not be made unless authorized by the Howard Soil Conservation District.

W. L. Satterfield
Developer Date 2-18-75

S. N. Mahanah 12/1/75

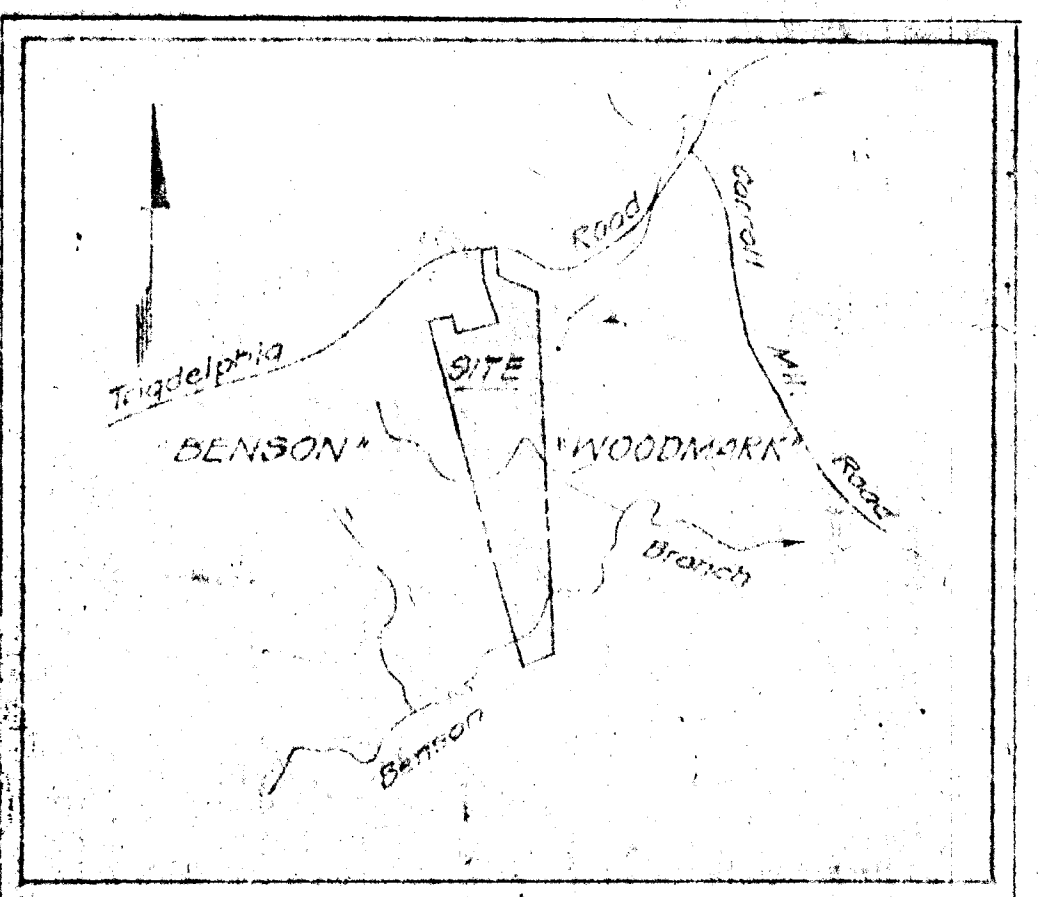


APPROVED
DIVISION OF LAND DEVELOPMENT
AND TRANSPORTATION PLANNING
HOWARD COUNTY, MARYLAND
DATE 9/1/75
J. L. ...

OWNER - DEVELOPER
BRIAR HILL CORP.
3901 GELDING LANE
OLNEY, MD, 20832 (301-774-0637)

SEDIMENT CONTROL NOTES

1. Sediment control facilities shown hereon are to be installed as soon as is practical after grading is begun in accordance with "Standards and Specifications for Soil Erosion and Sediment Control in Urbanizing Areas".
2. All points of ingress and egress to public ways will be protected to prevent the tracking of sediment off the site.
3. Periodic inspection and maintenance will be performed to insure proper function of sediment control facilities.
4. This plan for "Sediment Control" is designed for road construction only.
5. Seeding & sodding on areas disturbed under this plan will be done in accordance with the "Howard Co. Road Building Code & Standard Specifications".



VICINITY MAP

ENGINEER
TOMES & LOEDERMAN
1540 ...
Baltimore, MD 21202
301-840-1100

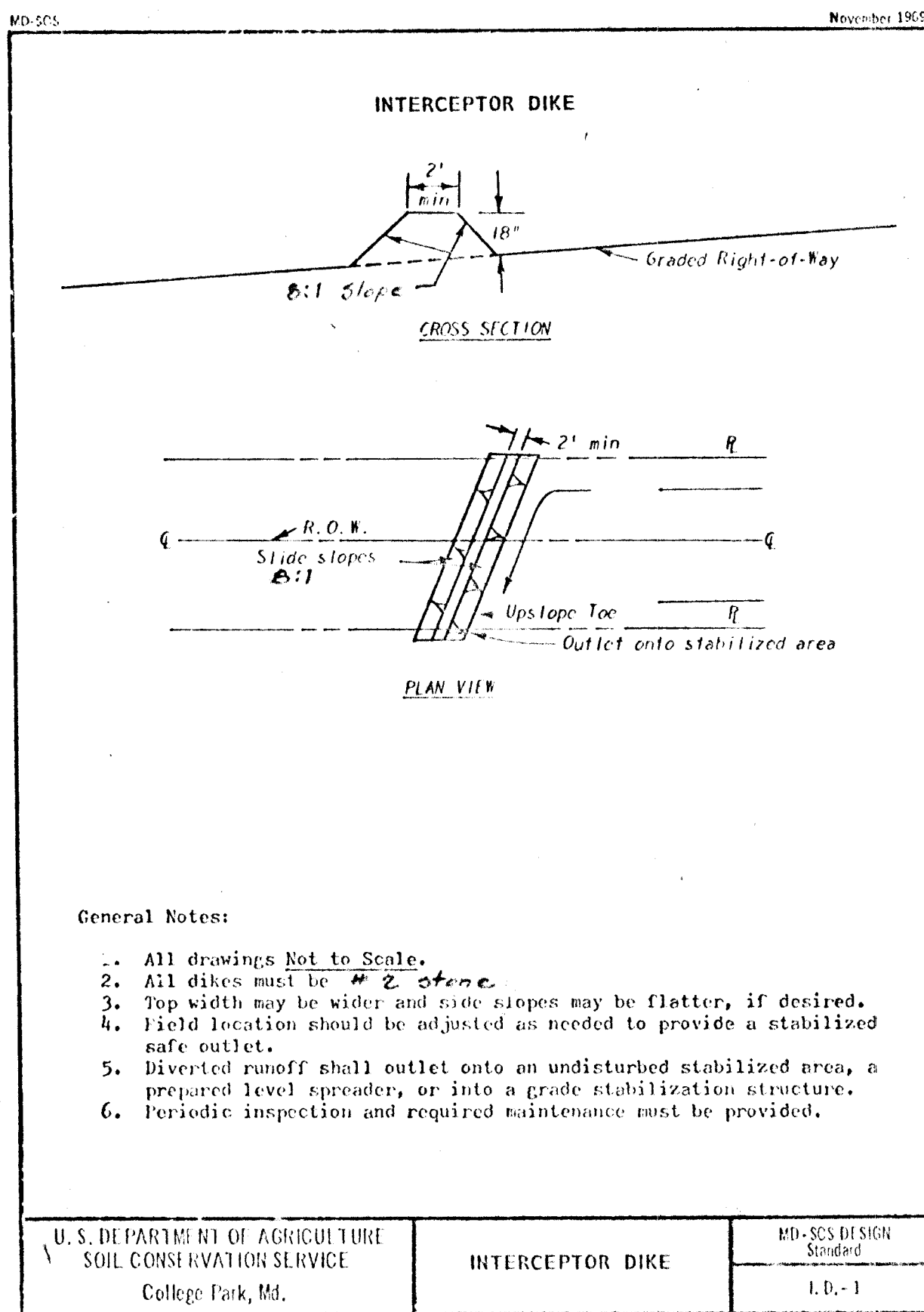
NO.	REVISIONS	BY	DATE
1	Plans completed & approved	MLB	7-1-75
2	Updated	MLB	5-9-75
3	Sediment basins added	MLB	6-22-75
4	Updated	MLB	8-29-75

Eric V. Noisden
4085
4-4-75



SEDIMENT CONTROL PLAN
BRIAR HILL

3RD ELECTION DISTRICT
HOWARD COUNTY, MARYLAND



U. S. Soil Conservation Service
College Park, Maryland

November 1969

INTERIM STANDARD AND SPECIFICATIONS FOR INTERCEPTOR DIKE

Definition
A temporary ridge of Number 2 stone constructed across the graded right-of-way to remain for a period usually less than one year.

Purpose
The purpose of this practice is to reduce erosion by intercepting storm runoff and diverting it to temporary outlets where the water can be disposed of with a minimum of erosion.

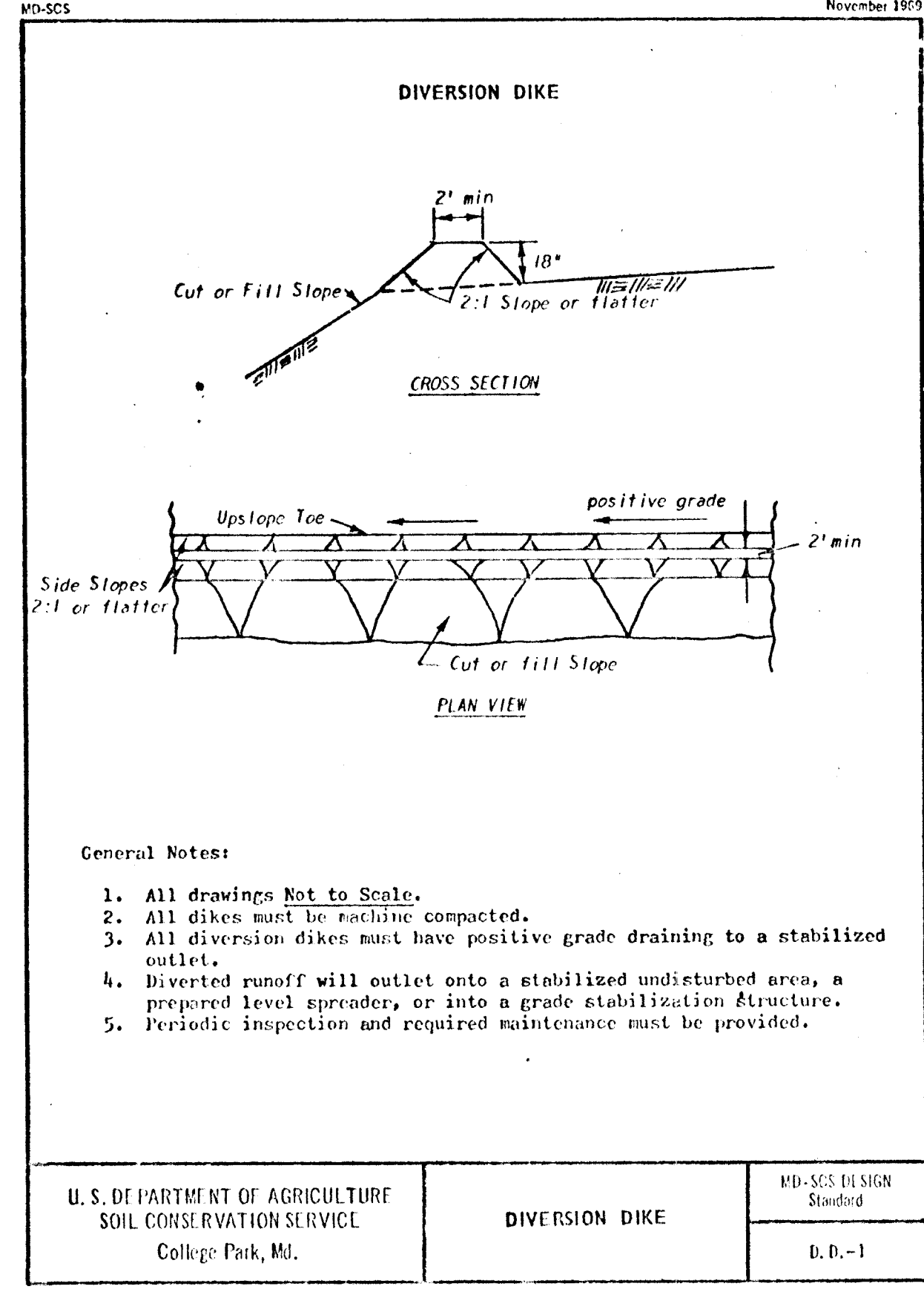
Conditions Where Practice Applies
Interceptor dikes are constructed across graded rights-of-way to intercept and divert storm runoff.

Design Criteria
A design is not required for interceptor berms, but the following standard criteria will be used:

Top width - 2 ft. min.
Height - 18 in. unless otherwise noted on the plans (measured from the slope toe of the ridge).
Side slopes - 2:1 or flatter (flat enough to allow construction traffic to cross if desired).
Grade - 0.5% to 1.0%.
Spacing - 200 to 300 foot length between dikes. (The steeper a slope is, the closer the spacing should be.)

See MD-SCS Design Standard I.D.-1, for detail.

Outlet
Interceptor dikes must have an outlet that functions with a minimum of erosion. The final location may need to be adjusted in the field to obtain a suitable outlet. Usually an outlet currently stabilized by existing vegetation, if available, will be adequate. A temporary grade stabilization structure shall be installed where water must be lowered over a fall slope.



U. S. Soil Conservation Service
College Park, Maryland

November 1969

INTERIM STANDARD AND SPECIFICATIONS FOR DIVERSION DIKE

Definition
A temporary ridge of compacted soil constructed at the top of cut or fill slopes for a life expectancy of usually less than one year.

Purpose
The purpose of this practice is to divert storm runoff from small areas away from steep slopes.

Conditions Where Practice Applies
The diversion dike is used temporarily at the top of newly constructed slopes to prevent excessive erosion until permanent storm drainage features are installed and the slopes are stabilized.

Design Criteria
A design is not required for diversion dikes. The following standard criteria will be used:

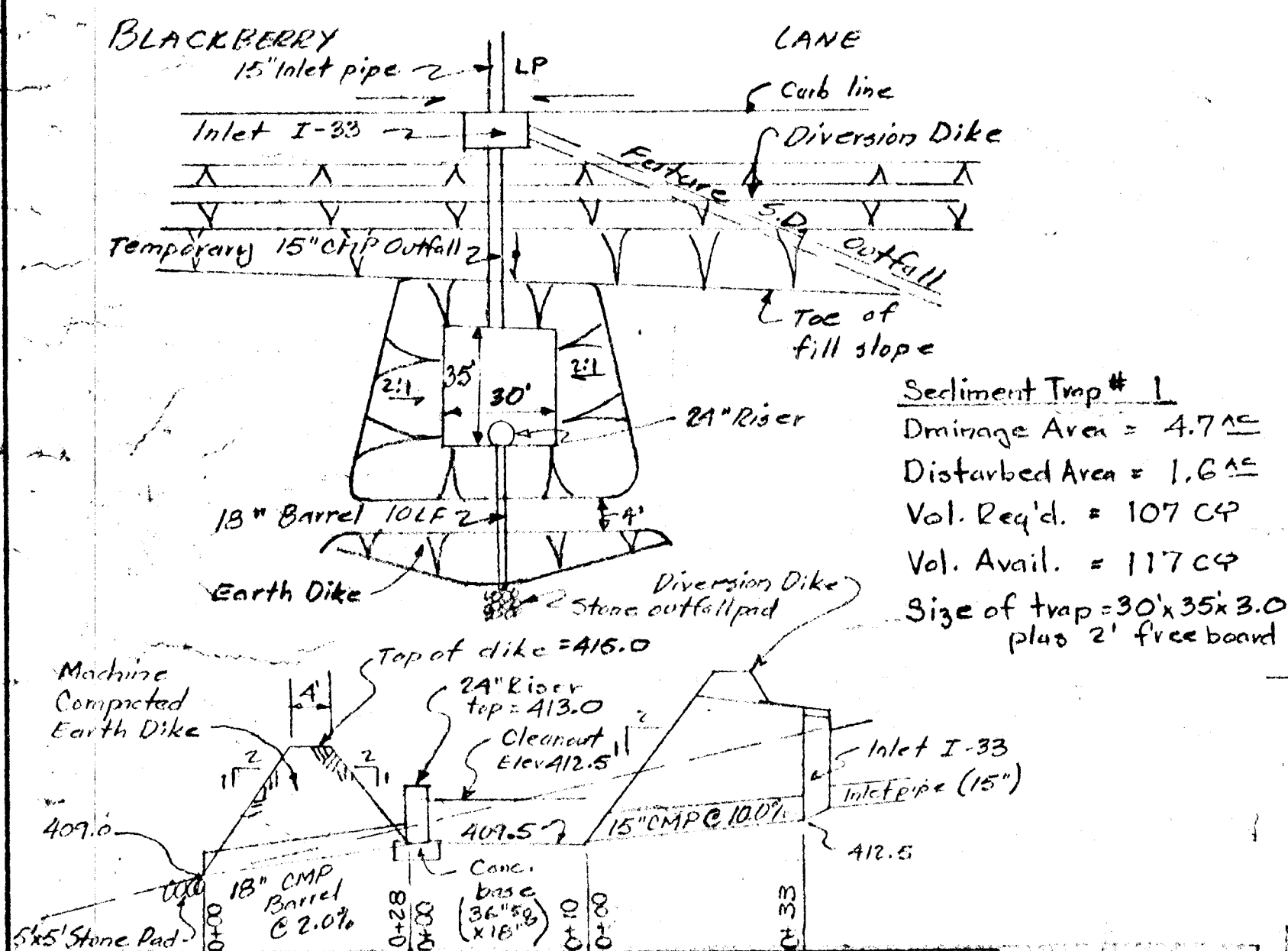
Drainage areas usually not more than 6-8 acres.
Top width - 2 ft. min.
Height (compacted fill) - 18 in. unless otherwise noted on the plans. (height measured from the upslope toe to top of the dike)
Side slopes - 2:1 or flatter.
Grade - dependent upon topography, but must have positive drainage to the outlet; may require vegetative or mechanical stabilization where grades are excessive.

See MD-SCS Design Standard, D.D.-1, for detail.

Outlet
Diverted runoff must be discharged directly onto an already stabilized area or through a temporary grade stabilization structure.

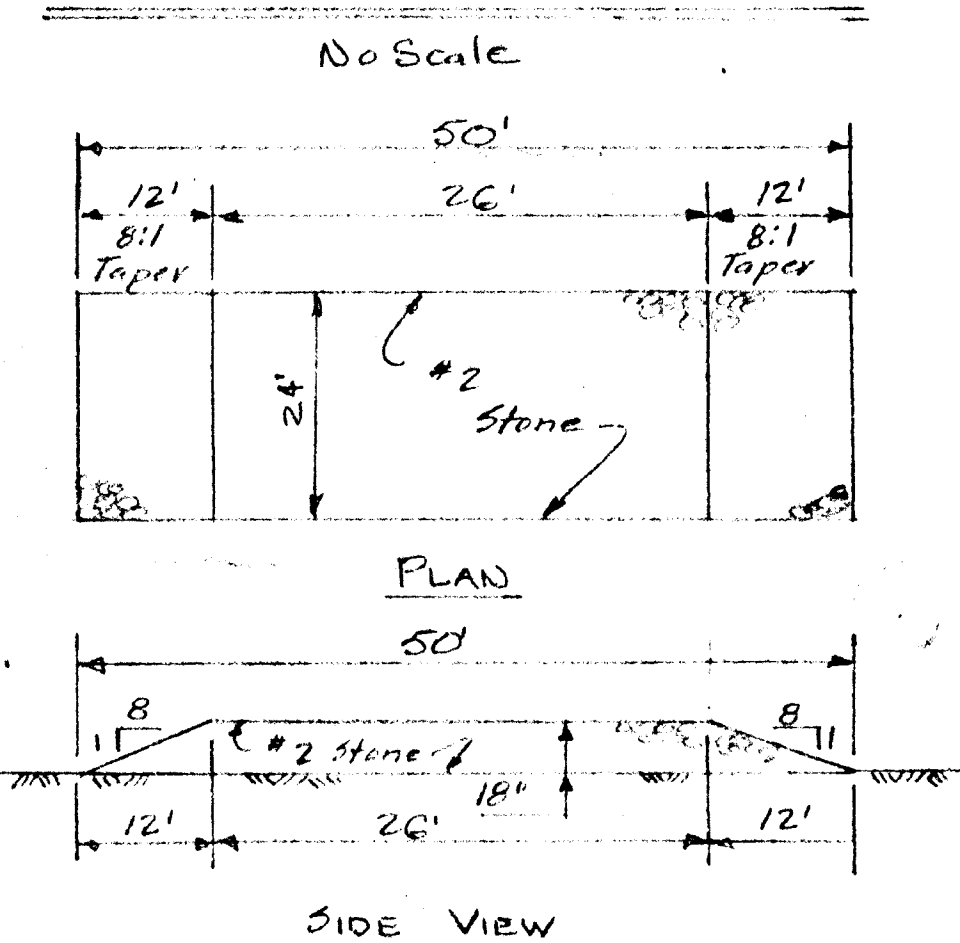
SEDIMENT TRAP #1

No Scale



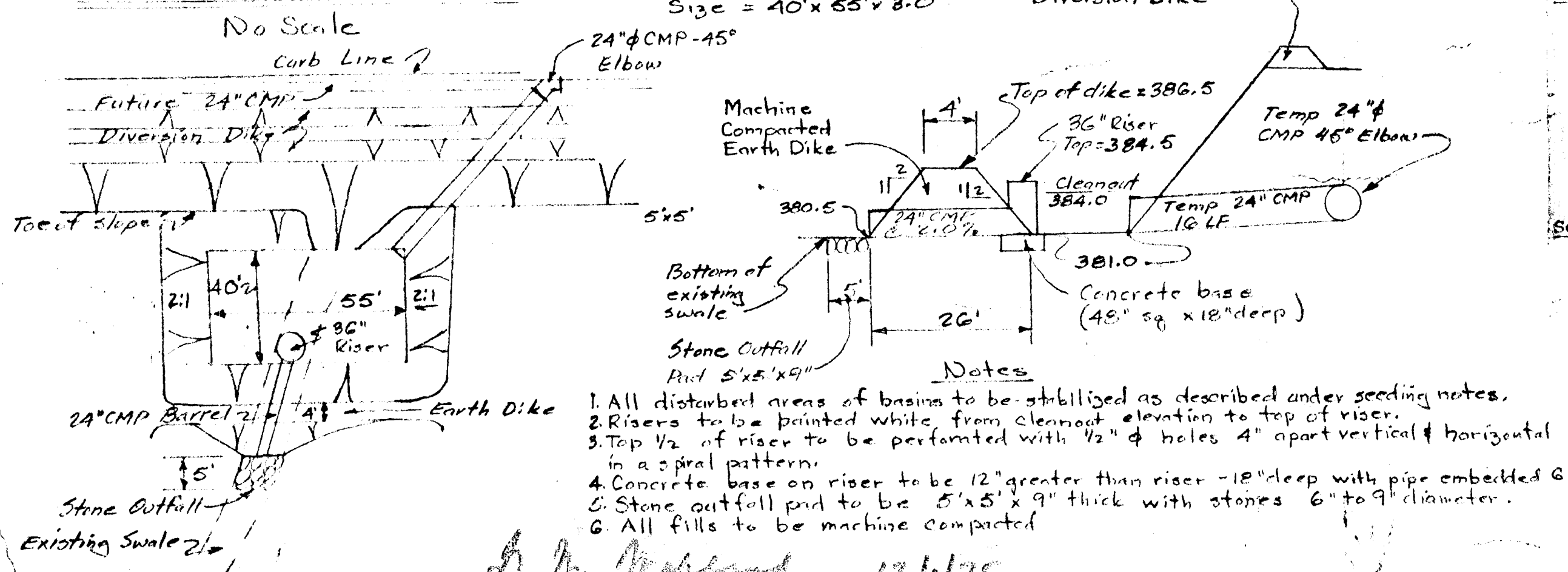
GRAVEL BED @ ENTRANCE

No Scale



SEDIMENT BASIN #2

No Scale



SEEDING

Seedbed Preparation:

- 2,000 lbs. per acre or 46 pounds/1,000 SF of pulverized dolomitic limestone.
- 500 to 1,000 lbs. per acre or 11.5 to 23 lbs. per 1,000 SF of 0-20-0, super phosphate, or its equivalent (a higher rate of phosphate is normally needed with soils having a low silt-plus-clay content) and 1,000 lbs./acre or 23 pounds/1,000 SF of 10-10-10 fertilizer or its equivalent. Disc lime and fertilizer into soil at least 2-3 inches.

Seeding: Red Fescue: 65 lbs./acre or 1.50 lbs./1,000 SF
Kentucky Blue Grass: 65 lbs./acre or 1.50 lbs. per 1,000 SF

Maintenance, Fertilization and Mowing:

- 10-10-10 Formulation at a rate of 500 lbs./acre or 11.5 lbs./1,000 SF.
- Apply annually in the fall.
- Mow to a height of 4" minimum.

Mulching:

Immediately after seeding, uniformly mulch these areas with unweathered small grain straw (wheat) at the rate of 1 1/2 to 2 tons/acre or 69 to 92 lbs. per 1,000 SF.

Mulch Anchoring:

Use asphalt Mulch Tie down of one of the following:

- Liquid asphalt-rapid curing (RC-70, RC-250, or RC-800) or medium curing (MC-250 or MC-800). Apply 0.1 gal./S.Y.
- Emulsified asphalt - (ES-1, SS-X, SM-K, MS-2, RS-1, RS-2, RS-2K or RS-3K). Apply 0.04 gal./S.Y. Apply to area in a uniform coating.

OWNER - DEVELOPER:

The Briar Hill Corp.
3901-Gridding Lane 1
Olney, Md 20832
301-774-0621

ENGINEERS 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.

Robert W. Ziehm
Signature Date 2-18-75

4085 No.

DEVELOPER 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 onsite inspection by the Howard Soil Conservation District or their authorized agent as deemed necessary. Deviation from this plan will not be made unless authorized by the Howard Soil Conservation District.

Robert W. Ziehm
Signature Date 2-18-75

This development plan is approved for soil erosion and sediment control by the Howard Soil Conservation District.

APPROVED: *Robert W. Ziehm* 11/25/75
Howard Soil Conservation District Date

Reviewed for: HOWARD Soil Conservation District and meets technical requirements.

Eric V. Herman 11/25/75
Signature Date

U.S. SOIL CONSERVATION SERVICE

APPROVED
DIVISION OF LAND DEVELOPMENT
AND TRANSPORTATION PLANNING
HOWARD COUNTY, MARYLAND
DATE 11/25/75

TOUPS AND LOIEDERMAN
ENGINEERS, PLANNERS, LANDSCAPE ARCHITECTS

JOSEPH R. HARRIS BUILDING
1370 PICCARD DRIVE ROCKVILLE MARYLAND 20850 301-840-1300
A PLANNING RESEARCH CORPORATION COMPANY

NO.	REVISIONS	BY	DATE
1.	Updated	MLS	5-9-75
2.	Sediment Basin details added	MLS	6-22-75
3.	Updated	MLS	8-27-75

PREPARED UNDER THE SUPERVISION OF:

Robert W. Ziehm
Signature Date 2-20-75

4085 P. E. NO. 2-20-75 DATE

DESIGNED: MLS CHECKED: MLS SCALE: None
DRAWN: MLS DATE: 2-20-75 R.E.P.



SEDIMENT CONTROL DETAILS
BRIAR HILL
3rd E.D., HOWARD COUNTY, MD.
4 APRIL 1975

JOB NUMBER
SHEET NO. 7
OF 7 SHEETS