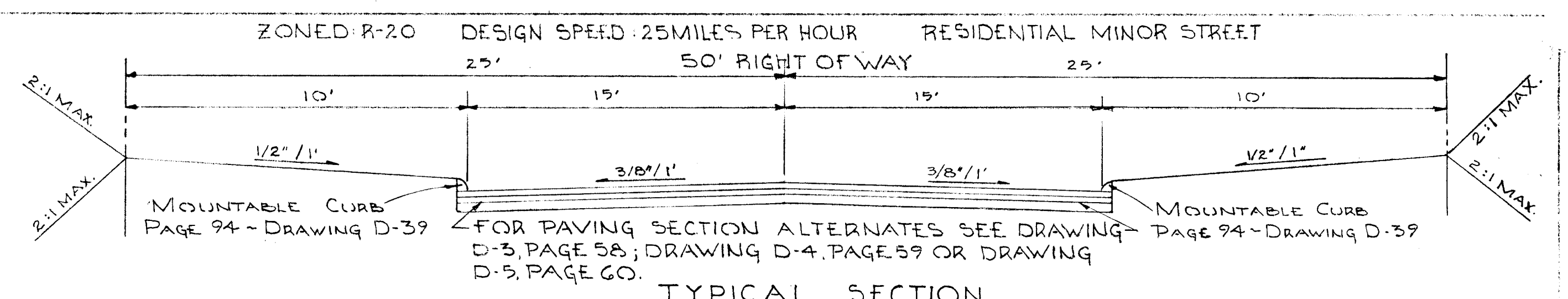
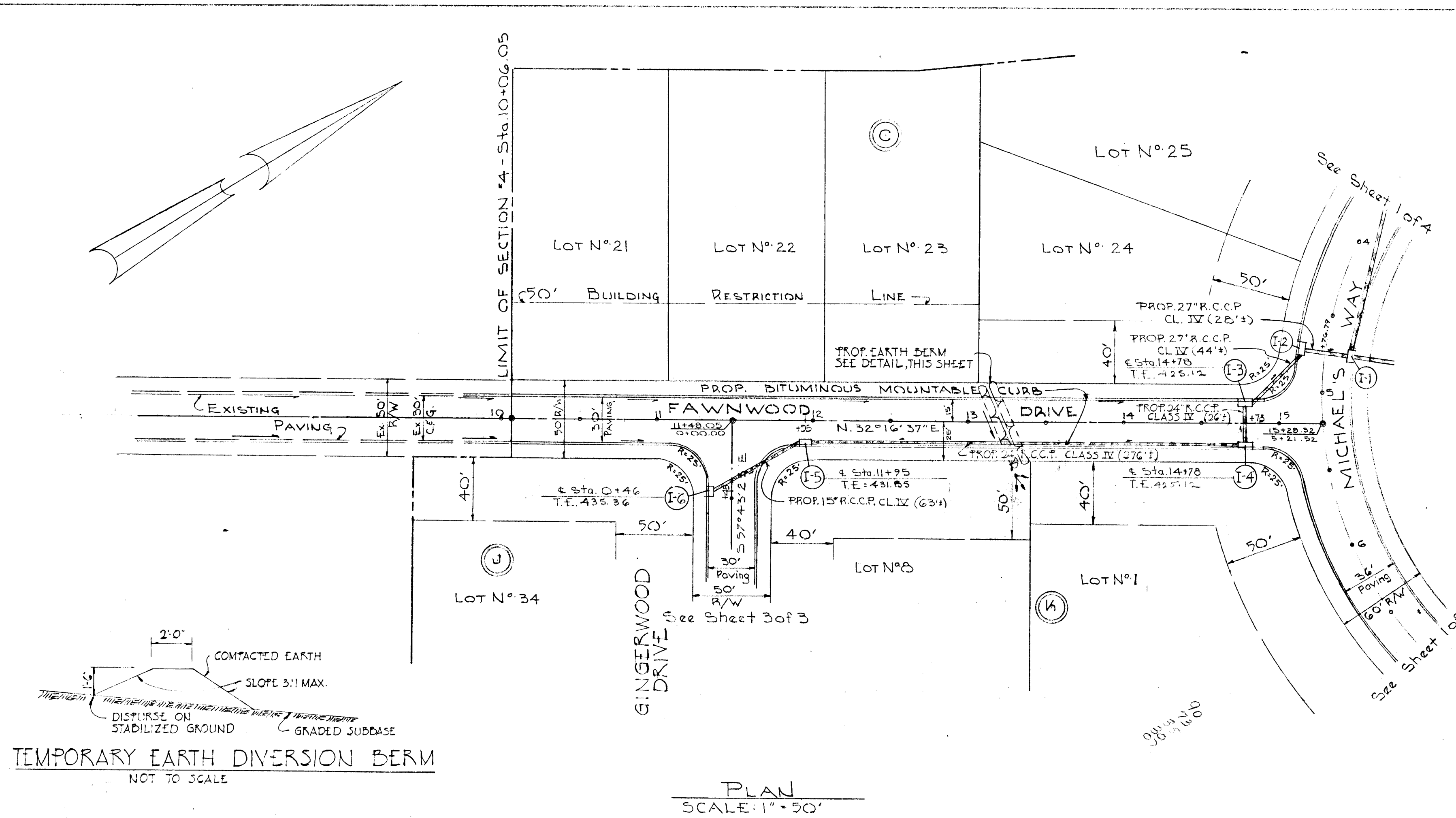


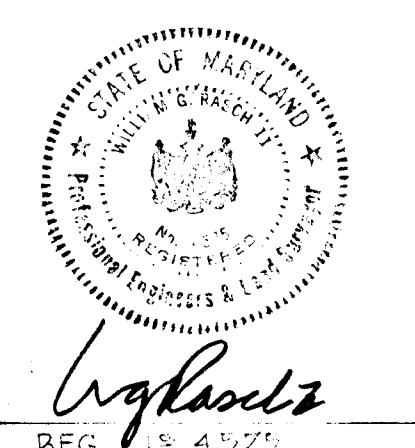
DATE	
BY	
REVISIONS	
NO.	
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DATE	
BY	
REVISIONS	
NO.	



OWNER / DEVELOPER: PURDUM / JESCHKE
 ZENITH CONTRACTORS: ENGINEERS / LAND SURVEYORS
 989 LONGVIEW DRIVE: 3697 PARK AVENUE
 ELLICOTT CITY, MARYLAND 21043: ELLICOTT CITY, MARYLAND 21043

DEPARTMENT OF PUBLIC WORKS: *Oct 2, 1970* DATE
 CHIEF, BUREAU OF HIGHWAYS: *Granville H. McEland 11/24/70* DATE

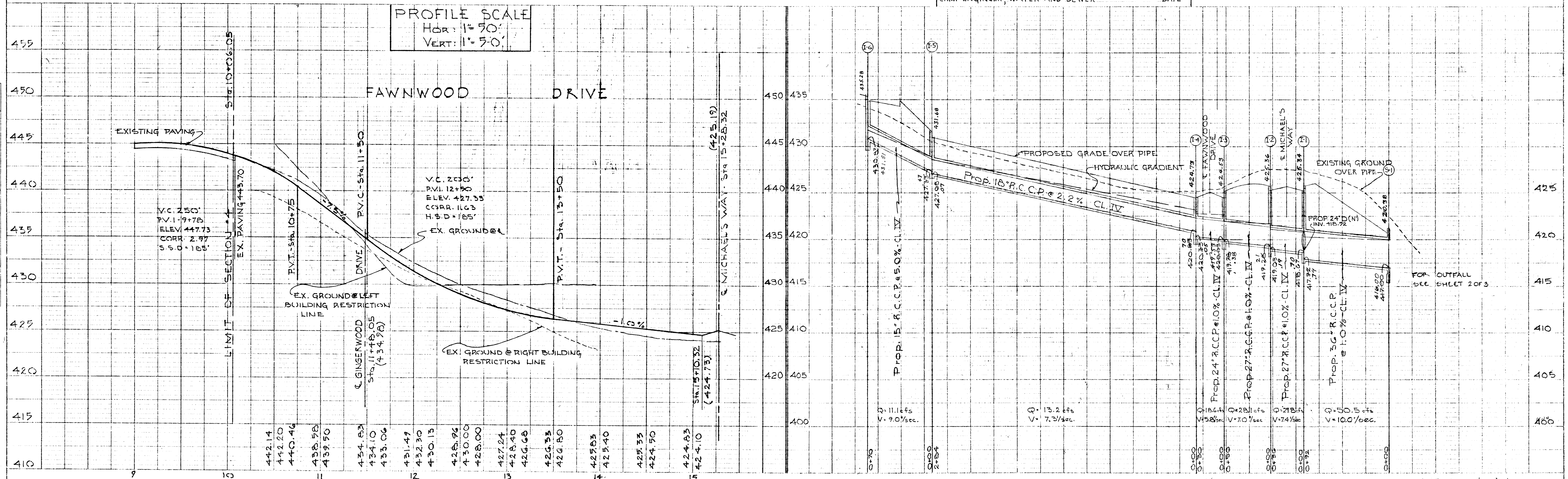
OFFICE OF PLANNING AND ZONING: *J. H. Clawson 11-23-70* DATE
 CHIEF ENGINEER, DIVISION OF LAND DEVEL. DATE



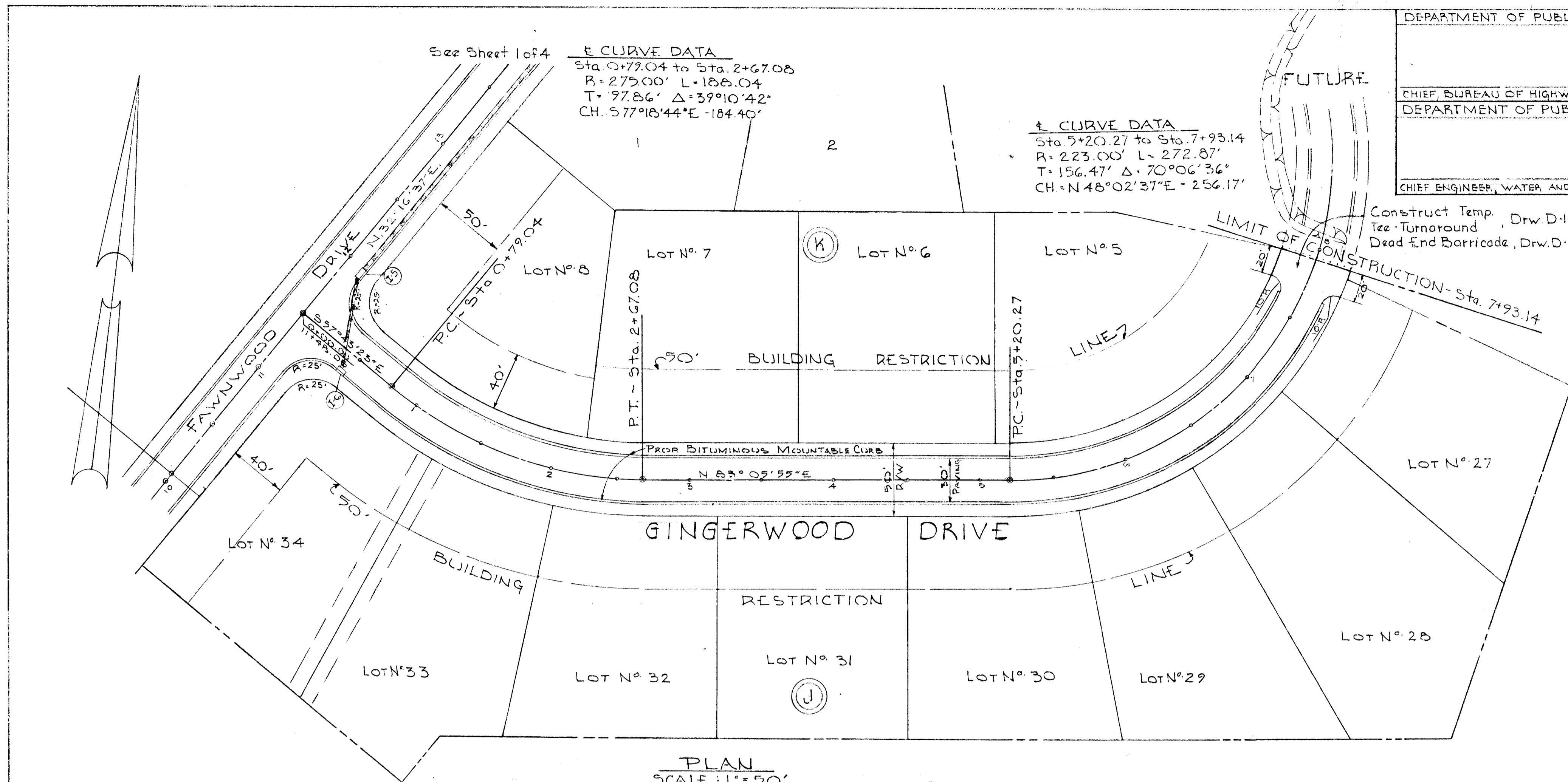
DEPARTMENT OF PUBLIC WORKS _____ DATE _____
 CHIEF, BUREAU OF HIGHWAYS _____ DATE _____
 DEPARTMENT OF PUBLIC WORKS _____ DATE _____
 CHIEF ENGINEER, WATER AND SEWER _____ DATE _____

PLAN / PROFILE: FAWNWOOD DRIVE
 SECTION 4
BETHWOOD
 SECOND ELECTION DISTRICT - HOWARD COUNTY, MARYLAND
 SEPT. 30, 1970 SCALE: AS SHOWN
 SHEET 1 OF 3

DATE	
BY	
REVISIONS	
NO.	
DATE	
BY	
REVISIONS	
NO.	



DATE	
BY	
REVISIONS	
NO.	
DATE	
BY	
REVISIONS	
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BY	
REVISIONS	
NO.	



DEPARTMENT OF PUBLIC WORKS:

CHIEF BUREAU OF HIGHWAYS _____ DATE _____
DEPARTMENT OF PUBLIC WORKS

CHIEF ENGINEER, WATER AND SEWER _____ DATE _____

I CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF SOIL AND SEDIMENT CONTROL.

[Signature] 11-18-70
E.L. Chiapolini, President

I CERTIFY THAT THE PLAN OF DEVELOPMENT AND THE PLAN FOR CONTROL OF SOIL AND SEDIMENT MEETS THE REQUIREMENTS OF THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.

[Signature] 11/28/70
William G. Francis II, Reg. No. 4575

District Conservationist _____ Date _____
Howard Soil Con. Dist. _____ Date _____

OWNER / DEVELOPER: ZENITH CONTRACTORS, 989 LONGVIEW DRIVE, ELLICOTT CITY, MARYLAND 21043

PURDUM & JESCHKE, ENGINEERS/LAND SURVEYORS, 3697 PARK AVENUE, ELLICOTT CITY, MARYLAND 21043

DEPARTMENT OF PUBLIC WORKS

[Signature] 11/24/70
Graville M. Weiland, CHIEF BUREAU OF HIGHWAYS

OFFICE OF PLANNING AND ZONING

[Signature] 11-23-70
J.H. Clawson, CHIEF ENGINEER, DIVISION OF LAND DEVELOPMENT

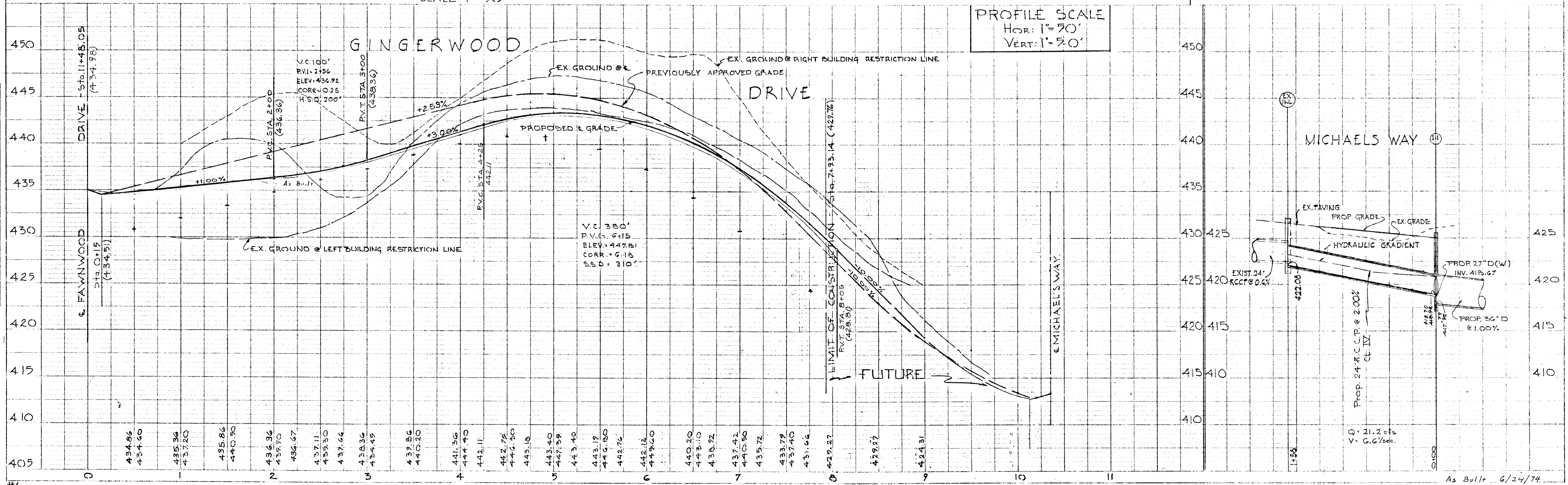
PLAN / PROFILE: GINGERWOOD DRIVE SECTION 4

BETHWOOD

SECOND ELECTION DISTRICT - HOWARD COUNTY, MARYLAND
SEPT. 30, 1970

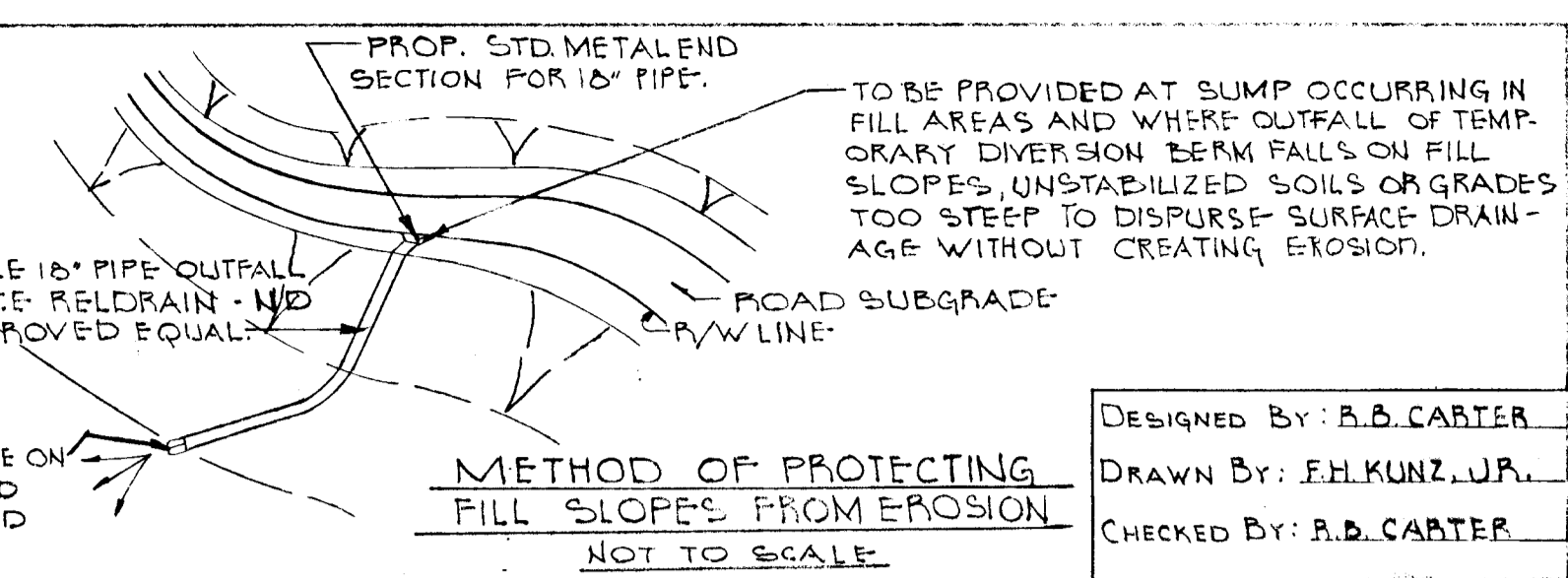
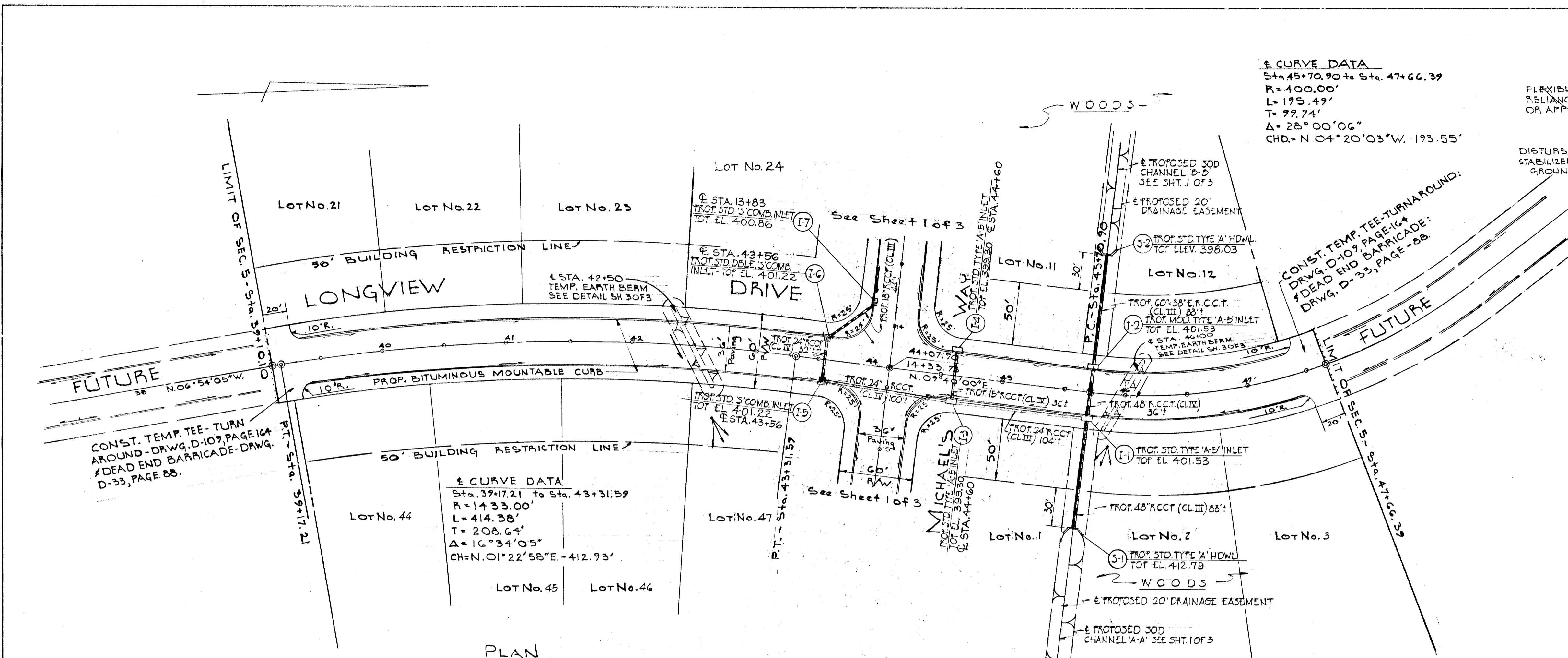
SCALE: AS SHOWN

SHEET 3 OF 3



DATE	
BY	
REVISIONS	
NO.	
DATE	
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REVISIONS	
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DATE	
BY	
REVISIONS	
NO.	
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OWNER & DEVELOPER: ZENITH CONTRACTORS, 1989 LONGVIEW DRIVE, ELLICOTT CITY, MARYLAND

PURDUM & JESCHKE ENGINEERS & LAND SURVEYORS, 3697 PARK AVENUE, ELLICOTT CITY, MARYLAND

DEPARTMENT OF PUBLIC WORKS
B. W. McElwain, 10/12/71, CHIEF, BUREAU OF HIGHWAYS

OFFICE OF PLANNING AND ZONING
J. H. Clawson, 10/12/71, CHIEF ENGINEER, DIVISION OF LAND DEVELOPMENT AND TRANSPORTATION PLANNING

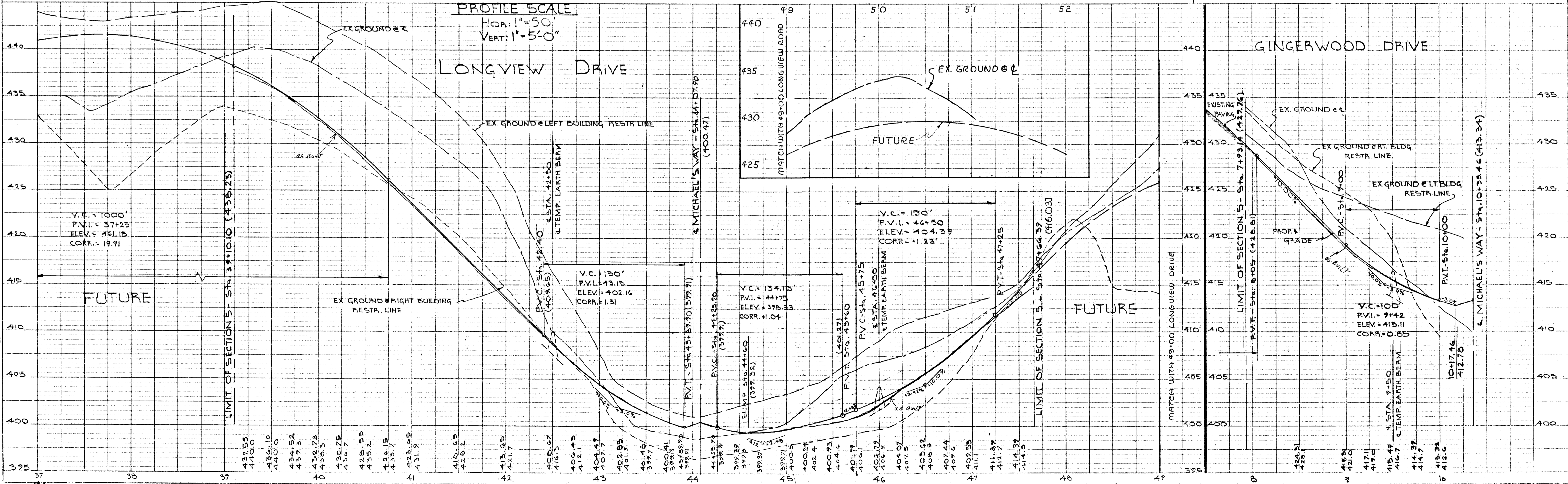
STATE OF MARYLAND PROFESSIONAL ENGINEERS & LAND SURVEYORS REG. NO. 4575

BETHWOOD

SECTION 5

SECOND ELECTION DISTRICT HOWARD COUNTY, MARYLAND
JUNE 7, 1971 SCALE: AS SHOWN

SHEET 2 OF 3



27-169

PLATE 1 PLAN PROFILE
100% MAG APPROVED BY LOCAL A.E.C. & S.E. STAMPAID
ELECTRIC ENGINEERING CO.

AS BUILT 6-28-74 H1

PLAN & PROFILE: MICHAEL'S WAY

SECTION 5
BETHWOOD

SECOND ELECTION DISTRICT - HOWARD COUNTY, MARYLAND

JUNE 7, 1971

SCALE: AS SHOWN

SHEET 1 OF 3

GENERAL NOTES:

- All construction shown hereon shall be in accordance with the Howard County Road Construction Code and Standard Specifications dated November 27, 1962, and revised 1967.
- References to page and drawing numbers shown hereon are referred to the above mentioned Road Construction Code and Standard Specifications.
- Design Speed - 25 M.P.H.

50' RIGHT OF WAY

ZONED: R-20 25' SPEED LIMIT: 25 M.P.H.

60' RIGHT OF WAY

ZONED: R-20 30' SPEED LIMIT: 25 M.P.H.

TYPICAL SECTION
NO SCALE

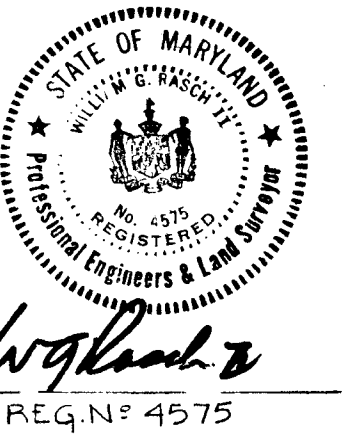
OWNER & DEVELOPER
ZENITH CONTRACTORS
959 LONGVIEW DRIVE
ELLCOTT CITY, MARYLAND 21043

PURDUM & JESCHKE
ENGINEERS & LAND SURVEYORS
3697 PARK AVENUE
ELLCOTT CITY, MARYLAND 21043

DEPARTMENT OF PUBLIC WORKS

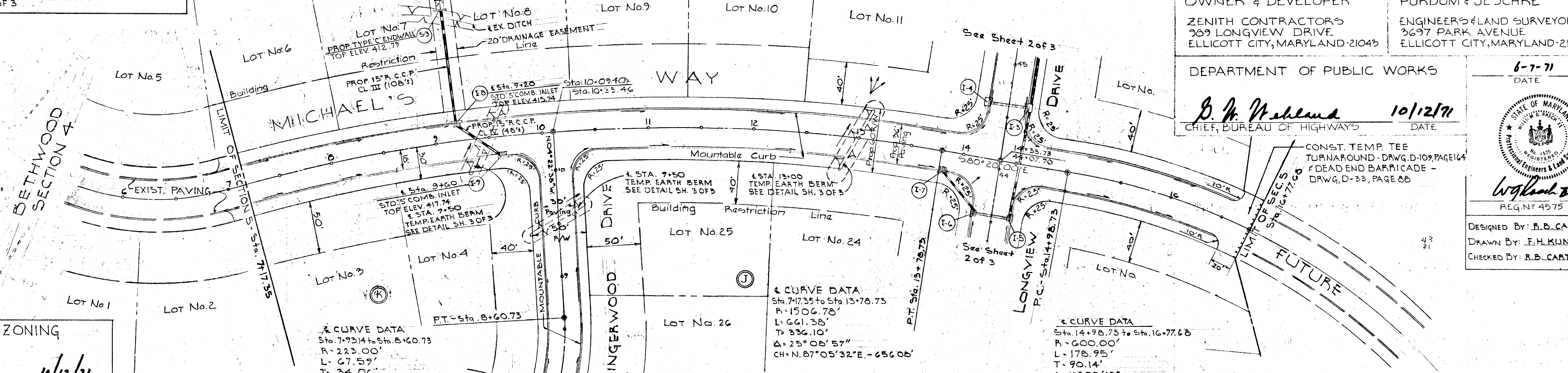
G. H. Mahland 10/12/71
CHIEF, BUREAU OF HIGHWAYS DATE

6-7-71
DATE



CONST. TEMP. TEE
TURNAROUND - DRWG. D-109, PAGE 164
& DEAD END BARRICADE -
DRWG. D-33, PAGE 88

DESIGNED BY: B. D. CARTER
DRAWN BY: F. H. KUNZ, JR.
CHECKED BY: R. B. CARTER



OFFICE OF PLANNING & ZONING

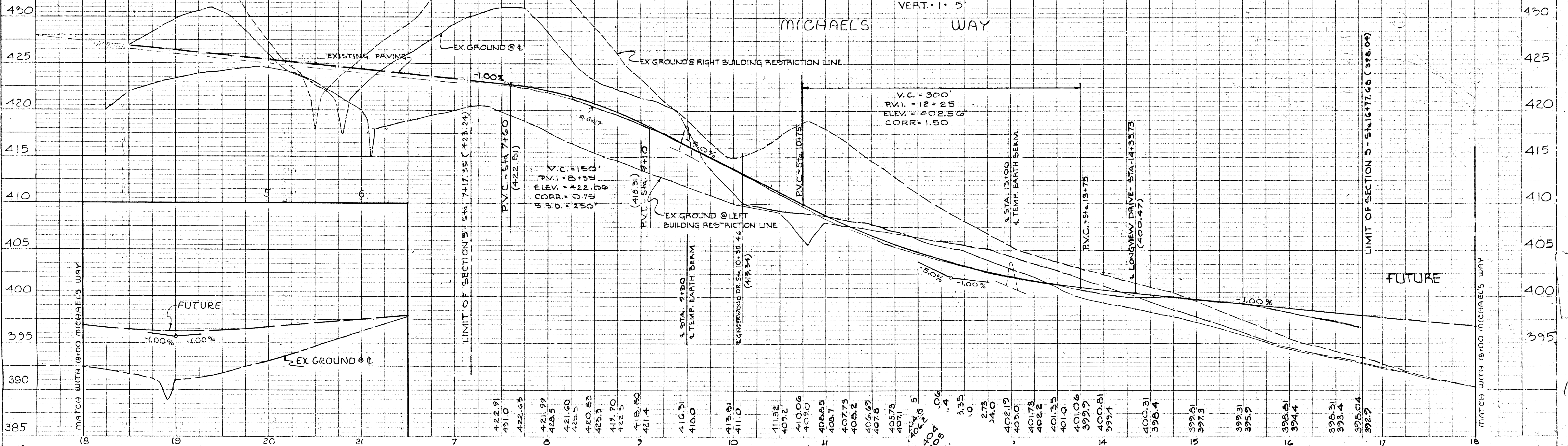
J. H. Clawson, Jr. 10/12/71
Chief Engineer, Division of Land Development, Data
and Transportation Planning

PLAN
SCALE: 1" = 50'

PROFILE SCALE

HOR. 1" = 50'

VERT. 1" = 5'



I CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN OF SILT AND SEDIMENT CONTROL.

ZENITH CONTRACTORS, INC.
J.P. O.
 PRESIDENT
 4/30/71

I CERTIFY THAT THE PLAN OF DEVELOPMENT AND THE PLAN FOR CONTROL OF SILT AND EROSION MEETS THE REQUIREMENTS, STANDARDS AND SPECIFICATIONS OF THE HOWARD SOIL CONSERVATION DISTRICT.

W. S. Kasch II
 WILLIAM S. KASCH II
 DATE 6-7-71

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

REVIEWED BY: *J. J. Helm*
 J. J. HELM
 DISTRICT CONSERVATIONIST
 DATE 9-21-71

APPROVED BY: *R. F. Campbell*
 R. F. CAMPBELL
 HOWARD SOIL CONSERVATION DISTRICT
 DATE 9-21-71

STRUCTURE		SCHEDULE		REMARKS
NO.	TYPE	INV IN	TOP ELEV.	
I-1	A-5	392.99	401.53	INCREASE T DIMENSION TO 6'0"
I-2	A-5	394.25	401.53	
I-3	A-5	392.26	399.30	
I-4	A-5	395.70	399.30	
I-5	STD. 5' COMB.	396.16	401.22	DEPRESSED / PARALLEL TO CURB
I-6	STD. 5' COMB.	396.86	401.22	DEPRESSED / PARALLEL TO CURB
I-7	STD. 5' COMB.	397.36	400.86	DEPRESSED / PARALLEL TO CURB
I-8	STD. 5' COMB.	412.01	415.74	DEPRESSED / PARALLEL TO CURB
I-9	STD. 5' COMB.	412.25	417.74	DEPRESSED / PARALLEL TO CURB
S-1	STD. TYPE HDWL	410.46	412.77	
S-2	STD. TYPE HDWL	393.36	393.36	
S-3	STD. TYPE ENDWLL	402.58	407.25	

SEDIMENT CONTROL NOTES

1) THE DEVELOPER SHALL NOTIFY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT AT LEAST 24 HOURS PRIOR TO BEGINNING ANY CONSTRUCTION WORK HEREON. (405-9180)

2) BERMS, SEDIMENT TRAPS, ETC. TO BE CONSTRUCTED PRIOR TO ANY CONSTRUCTION WORK OR DISTURBANCE TO EXISTING SURFACE MATERIAL.

3) ALL SEDIMENT CONTROL STRUCTURES TO REMAIN IN PLACE UNTIL PERMITSION FOR THEIR REMOVAL HAS BEEN OBTAINED FROM THE HOWARD SOIL CONSERVATION DISTRICT. (405-3180 OR 465-9000 EXT. 291)

4) ALL GRADED AREAS NOT TO BE SODDED SHALL BE STABILIZED BY SEEDING AND MULCHING IN ACCORDANCE WITH THE FOLLOWING:

1. SITE PREPARATION:

A. HARROW OR DISC IN AREAS PROPOSED TO BE SEEDING THE FOLLOWING MATERIALS AT THE SPECIFIED RATES TO A DEPTH OF 3":

- 1) PULVERIZED BURNT LIMESTONE @ 1 1/2 TONS/ACRE
- 2) COMMERCIAL FERTILIZER 10-10-10 @ 3/4 TONS/ACRE
- 3) SUPER PHOSPHATE @ 400 LBS/ACRE

B. SEEDING:

A. SOW THE FOLLOWING SEED MIXTURE @ THE RATE OF 200 LBS/AC. WITH A MECHANICAL SPREADER:

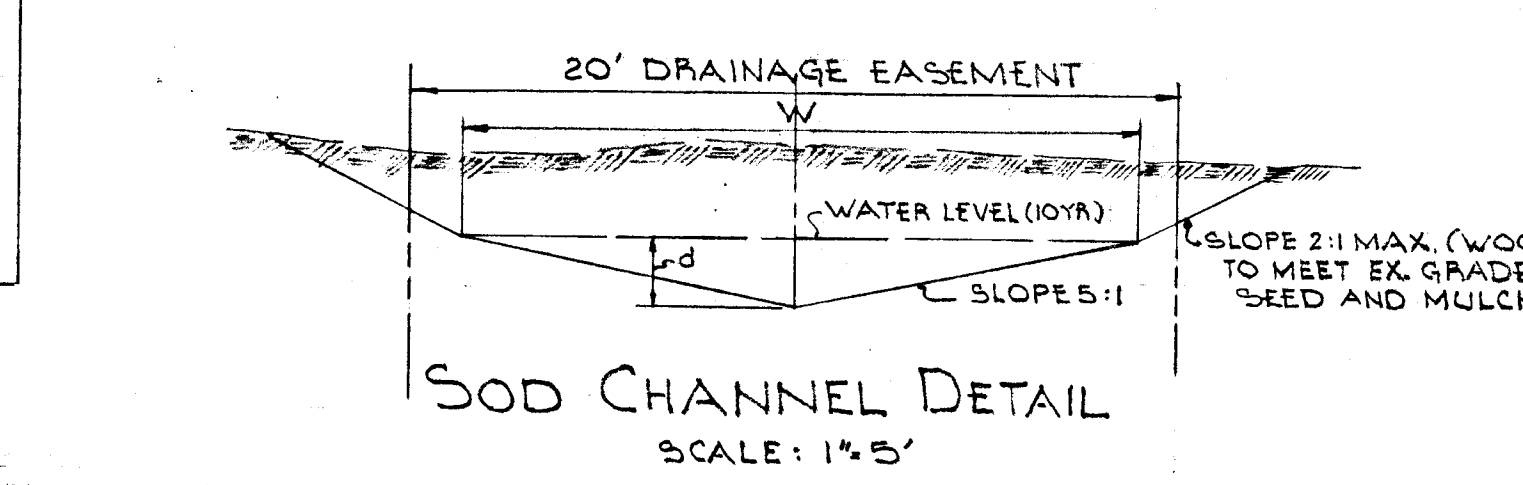
- 1) 20% ANNUAL RYE GRASS
- 2) 80% KENTUCKY 31 PERENNIAL RYE GRASS

B. THE SEEDING AREA SHALL THEN BE RAKED WITH A YORK RAKE (MINIMUM OF 3 PASSES), COVERED AND COMPACTED WITH CULTI-PACKER OR OTHER APPROVED METHOD.

C. MULCHING:

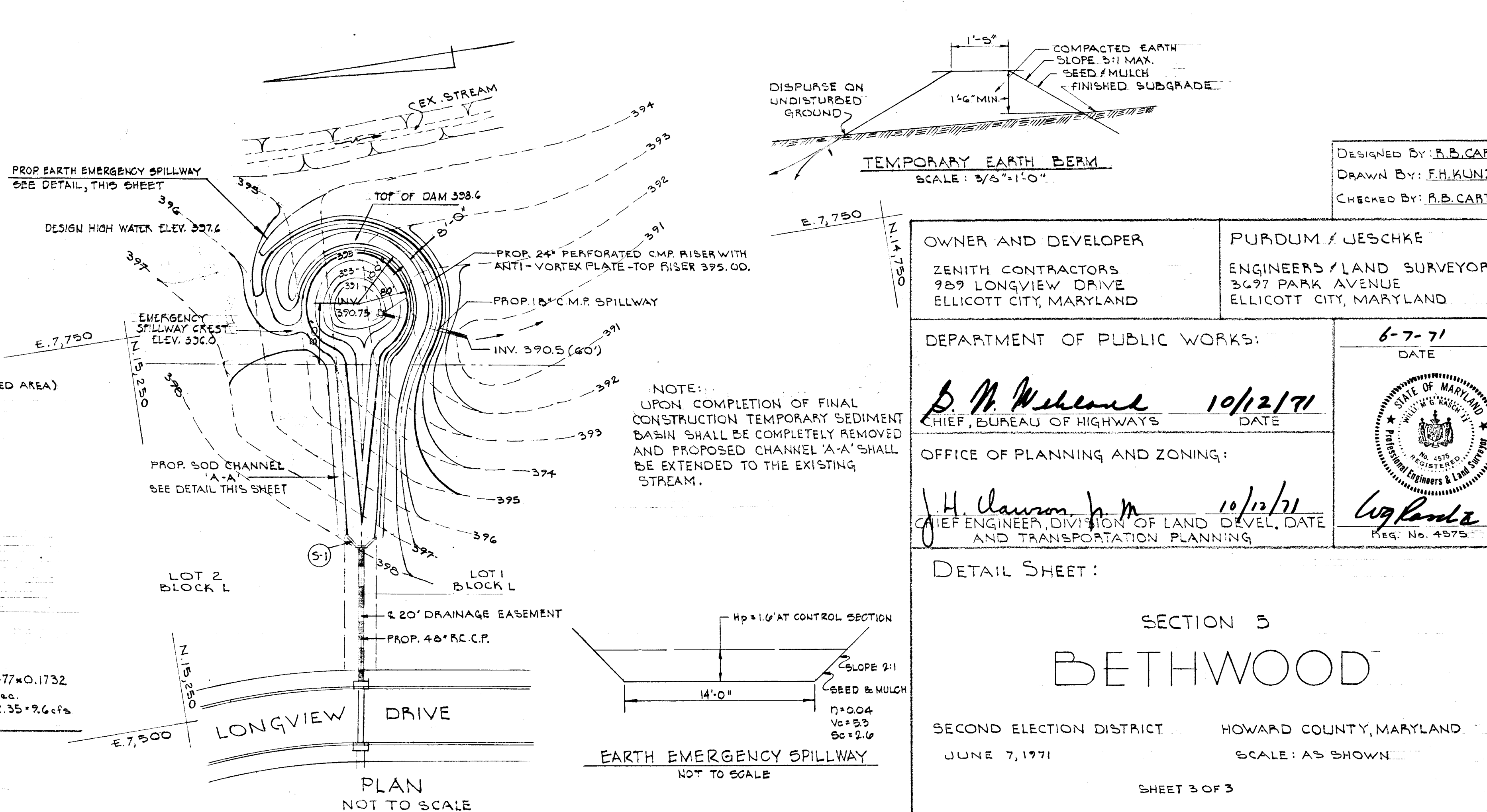
A. SEEDING AREAS SHALL BE UNIFORMLY MULCHED IMMEDIATELY AFTER SEEDING WITH UNWEATHERED SMALL GRASS STRAW AT RATE OF 15 TO 2 TONS/AC.

B. THE MULCH DOWN WITH LIQUID ASPHALT @ 1 GAL/SY OR EMULSIFIED ASPHALT @ 2.0 GAL/SY OR MULCH NETTING.



CHANNEL DESIGN DATA

A-A	B-B	C-C	D-D
A=20.0'	A=11.7'	A=10.4'	A=2.35'
P=2.0'	P=13.5'	P=17.4'	P=7.2'
R=0.75	R=0.75	R=0.35	R=0.33
n=0.267	n=0.055	n=0.366	n=0.477
S=0.007	S=0.001	S=0.001	S=3.00%
S ₁ =0.017	S ₁ =0.014	S ₁ =0.00775	S ₁ =0.1732
n=0.03	n=0.03	n=0.03	n=0.03
w=15.3'	w=17.2'	w=17.2'	w=7.0'
d=2.0'	d=1.5'	d=1.2'	d=0.70'
V=1.88 @ 0.787 @ 0.09'	V=1.88 @ 0.825 @ 0.114'	V=1.88 @ 0.766'	V=1.88 @ 0.477 @ 0.1732'
Q=VA=4.4 @ 2.0 @ 0.09'	Q=VA=5.6 @ 11.7 @ 0.014'	Q=VA=3.7 @ 10.4 @ 0.366'	Q=VA=1.4 @ 2.35 @ 3.766'



OWNER AND DEVELOPER: ZENITH CONTRACTORS, 989 LONGVIEW DRIVE, ELLICOTT CITY, MARYLAND

PURDUM / JESCHKE ENGINEERS / LAND SURVEYORS, 3697 PARK AVENUE, ELLICOTT CITY, MARYLAND

DEPARTMENT OF PUBLIC WORKS: B. M. McNamee, CHIEF, BUREAU OF HIGHWAYS, 10/21/71

OFFICE OF PLANNING AND ZONING: J. H. Lawson, DIVISION OF LAND DEVELOPMENT AND TRANSPORTATION PLANNING, 10/21/71

DATE: 6-7-71

DESIGNED BY: B. B. CARTER
 DRAWN BY: E. H. KUNZ, JR.
 CHECKED BY: B. B. CARTER

