

REVISIONS	

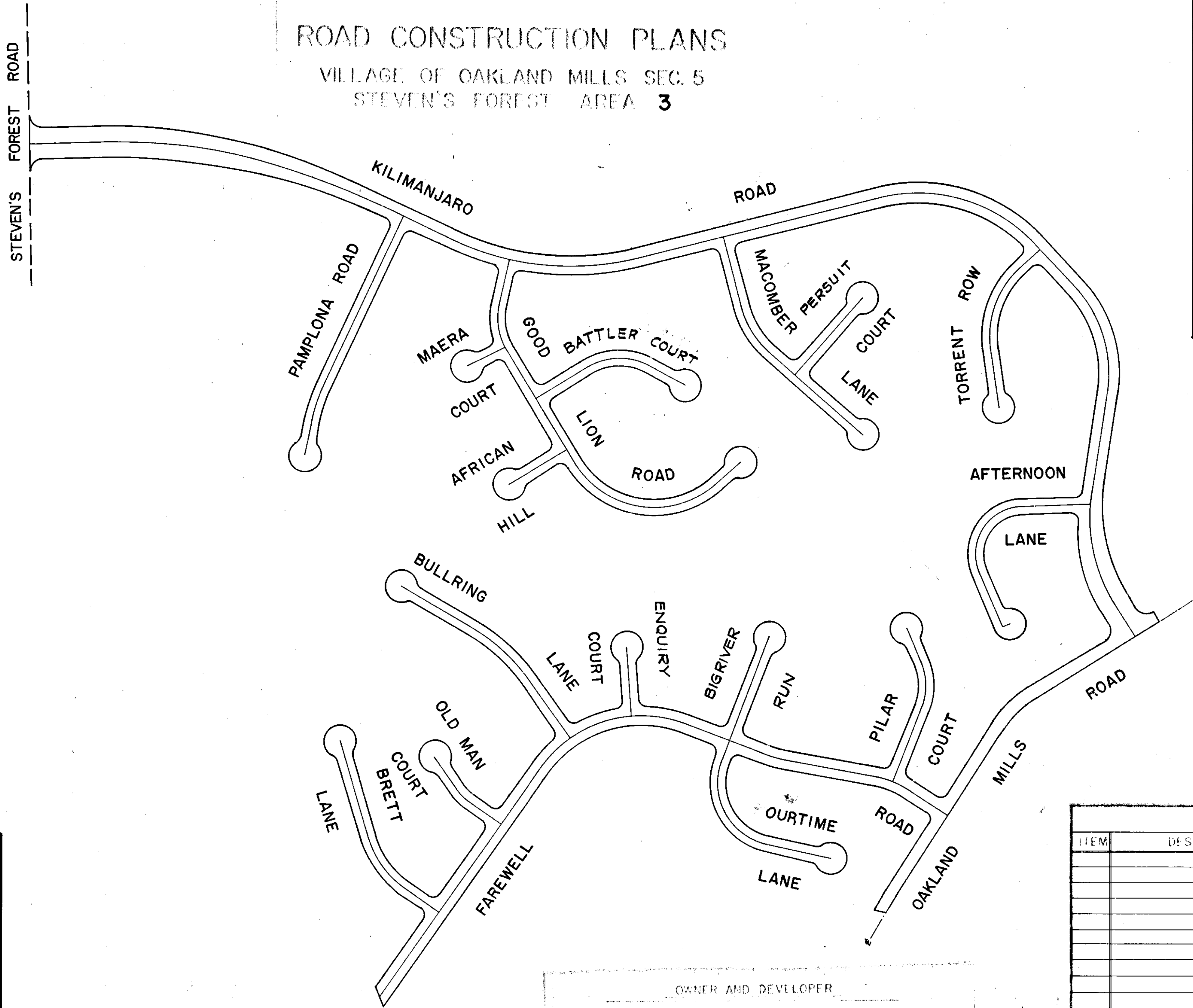
COLUMBIA

HOWARD COUNTY, MARYLAND

6TH ELECTION DISTRICT

ROAD CONSTRUCTION PLANS

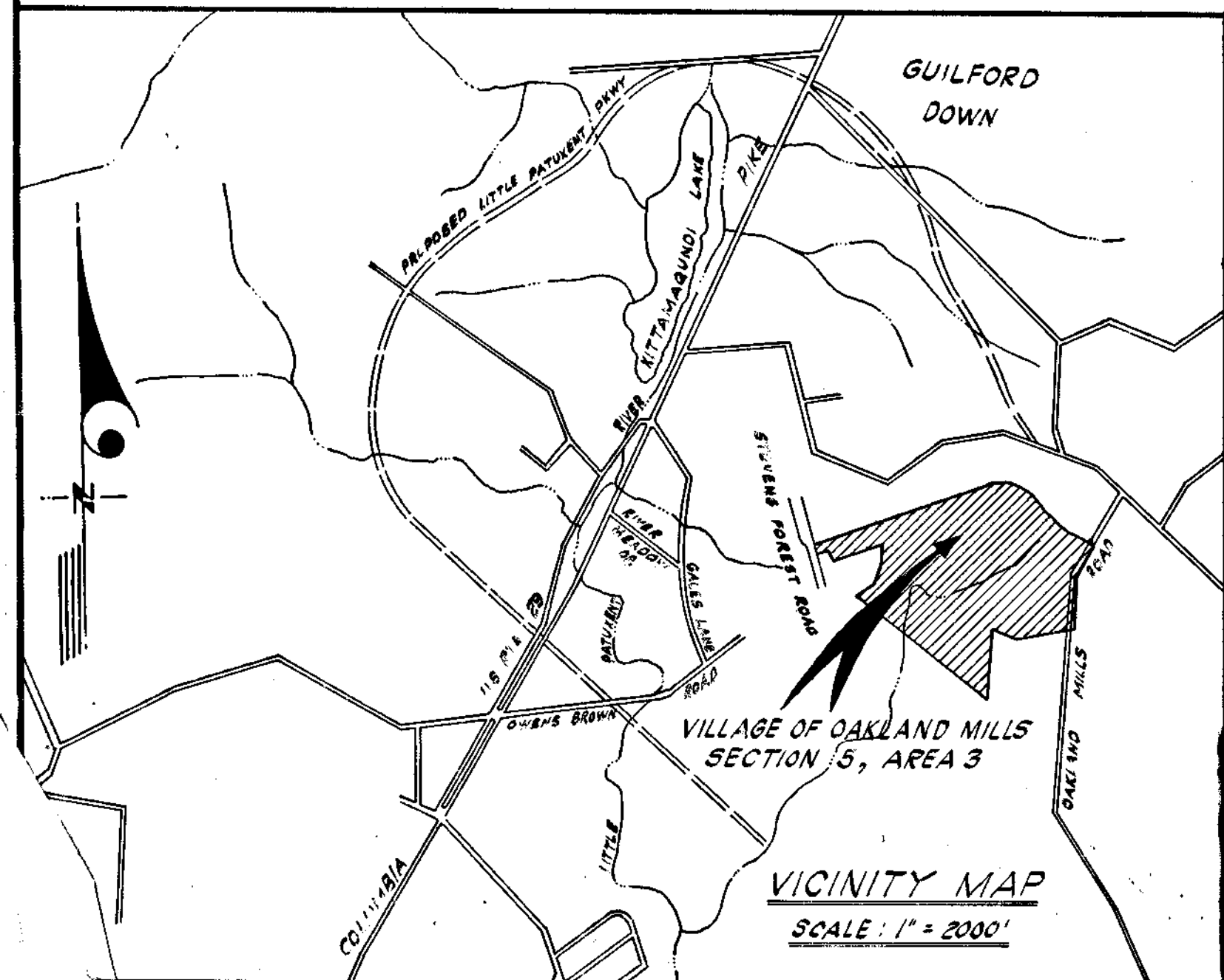
VILLAGE OF OAKLAND MILLS SEC. 5
STEVEN'S FOREST AREA 3



SHEET INDEX	
SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	DRAINAGE AREA MAP
3	DRAINAGE AREA MAP PLAN AND PROFILES
4	KILIMANJARO ROAD STA 0+28.00 TO 12+00.00
5	KILIMANJARO ROAD STA 12+00.00 TO 25+00.00
6	KILIMANJARO ROAD STA 25+00.00 TO 37+00.00
7	KILIMANJARO ROAD STA 37+00.00 TO LIMIT
8	PAMPLONA ROAD
9	GOOD LION ROAD STA 0+00 TO 10+00.00
10	GOOD LION ROAD STA 10+00.00 TO LIMIT
11	MAERA COURT
12	AFRICAN HILL
13	BATTLER COURT
14	MACOMBER LANE
15	PERSUIT COURT
16	TORRENT ROW
17	AFTERNOON LANE
18	OAKLAND MILLS ROAD
19	FAREWELL ROAD STA 0+00 TO 12+00.00
20	FAREWELL ROAD STA 12+00.00 TO LIMIT
21	PILAR COURT
22	OURTIME LANE
23	BIG RIVER RUN
24	ENQUIRY COURT
25	BULLRING LANE
26	OLD MAN COURT
27	BRETT LANE
28	ROADWAY DETAILS
29	ROADWAY DETAILS
30	STORM DRAIN PROFILES
31	STORM DRAIN PROFILES
32	STORM DRAIN PROFILES
33	STORM DRAIN PROFILES AND DETAILS

NOTES

1. ALL DETAILS ARE FROM THE "ROAD CONSTRUCTION CODE AND STANDARD SPECIFICATIONS" ISSUED OR APPROVED BY THE COUNTY COMMISSIONERS AND THE HOWARD COUNTY ROAD DEPARTMENT.
2. KILIMANJARO ROAD, OAKLAND MILLS ROAD AND FAREWELL ROAD ARE DESIGNED FOR 35 MPH TRAFFIC SPEED. ALL OTHER ROADS ARE DESIGNED FOR 25 MPH TRAFFIC SPEED IN ACCORDANCE WITH THE AMERICAN ASSOCIATION OF STATE HIGHWAY OFFICIALS' STANDARDS.
3. THE TOWN OF BELLEVILLE AND MILLING SHOULD BE DONE BEFORE PAVING AND LOTS ARE DEVELOPED.
4. THE SLOPES OF ALL FILL AREAS ON THE ROAD SHOULD BE BERMED DURING THE CONSTRUCTION TO PREVENT EXCESSIVE EROSION OF THESE FILL SLOPES. THESE BERMS SHOULD BE OUTLETED ON TO ADJACENT GROUND TO THE ROAD. THESE BERMS SHOULD BE CONSTRUCTED BY STRUCTURES TO BE MAINTAINED FOR A PERIOD OF 10 TO 15 YEARS. ALL BERMS TO BE MINIMUM 18" HIGH. BERMS (18" HIGH) SHOULD BE CONSTRUCTED AT THE TOP OF FILL SLOPES BY INDIVIDUAL HOME BUILDERS WHEN THIS TYPE SITUATION ARISES ON LOTS.
5. CONTRACTOR TO NOTIFY ALL UTILITIES COMPANIES 48 HOURS PRIOR TO COMMENCING ANY CONSTRUCTION.
6. ALL CONSTRUCTION ON THIS PROJECT TO BE IN ACCORDANCE WITH HOWARD COUNTY ROAD CODE & STANDARD SPECIFICATIONS.
7. THE HOWARD COUNTY BUREAU OF HIGHWAYS WILL DETERMINE WHICH MATERIAL, RIP-RAP OR CONCRETE, WILL BE USED IN THE CONSTRUCTION OF OUTFALL DITCHES DURING CONSTRUCTION INSPECTIONS.
8. TEMPORARY SEDIMENT TRAPS SHOWN ON SHEETS 14 OF 33 & 24 OF 33 ARE TO BE CLEANED OUT AT INTERVALS DIRECTED BY DISTRICT CONSERVATIONIST.



DEPARTMENT OF PUBLIC WORKS
Drumville H. Hillen 12-5-69
 CHIEF, BUREAU OF HIGHWAYS. T.B.K. DATE
 OFFICE OF PLANNING AND ZONING
R.H. Clowson 12-5-69
 ENGINEER IN CHARGE OF LAND DEVELOPMENT

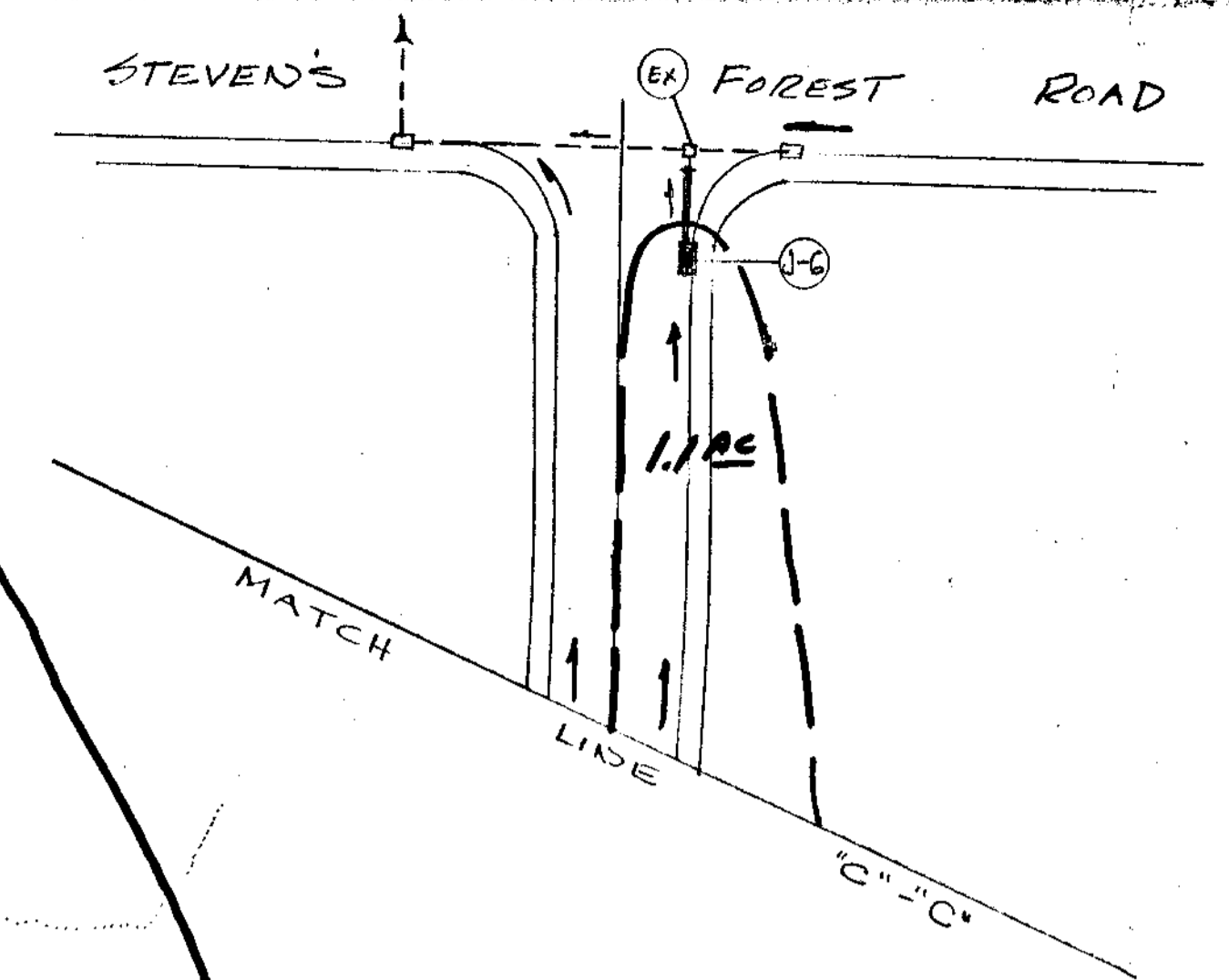
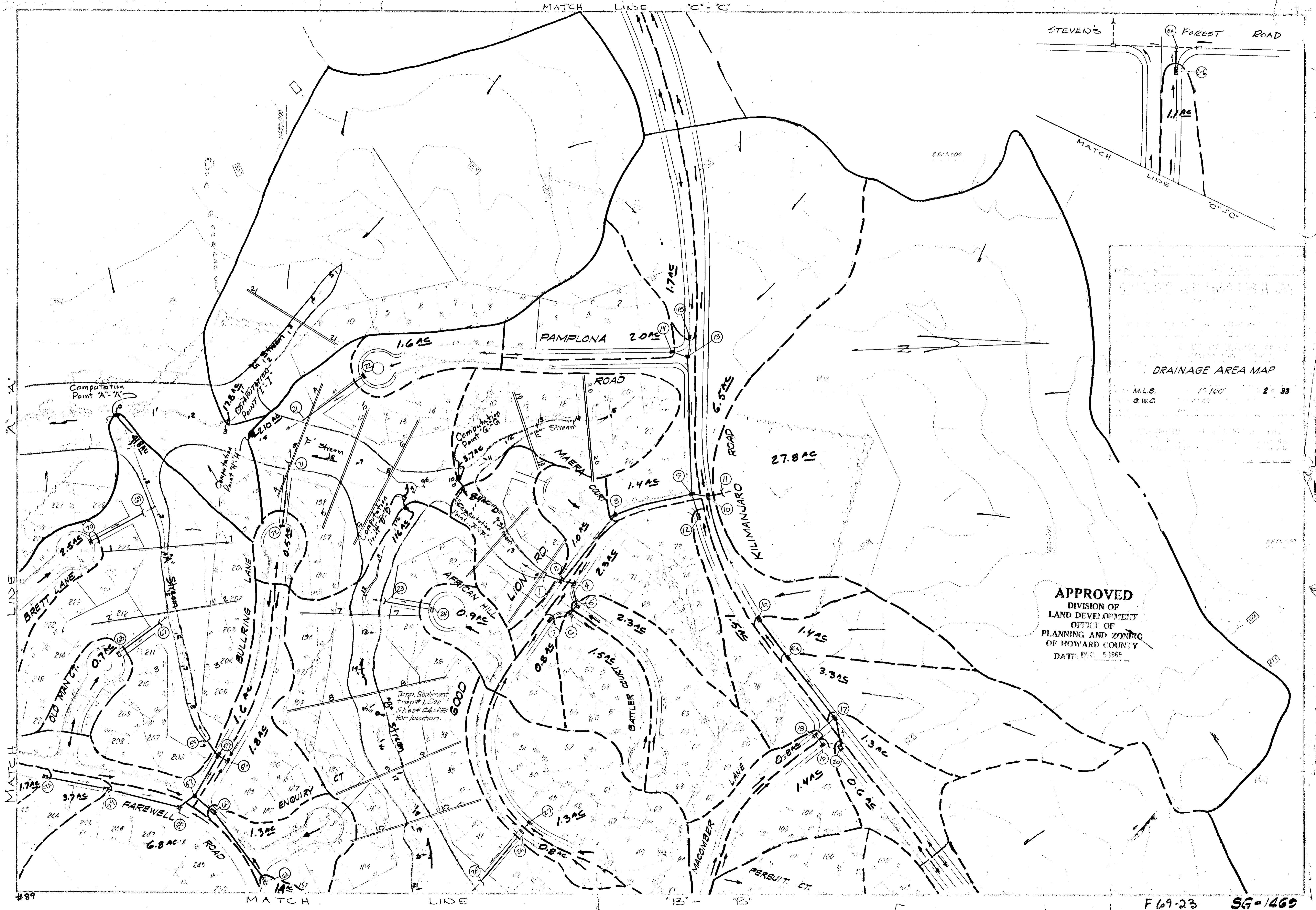
OWNER AND DEVELOPER
 THE HOWARD RESEARCH AND DEVELOPMENT CORP.
 THE VILLAGE OF CROSS KEYS
 BALTIMORE, MARYLAND

DWG. NO. 1 OF 33

GREENHORNE AND G'MARA, INC.
 ENGINEERS - ARCHITECTS - PLANNERS, SURVEYORS
 6715 KENILWORTH AVENUE RIVERDALE, MD
Stephen J. Johnson 5-5-69



ITEM	DESCRIPTION	QUANTITIES	
		UNIT	QUANTITY



DRAINAGE AREA MAP

M.L.S. 1"=100'
G.W.C. 2 33

APPROVED
DIVISION OF
LAND DEVELOPMENT
OFFICE OF
PLANNING AND ZONING
OF HOWARD COUNTY
DATE DEC. 5, 1969



Rev Date	Rev No	Revision Description
COLUMBIA		
6TH ELECTION DISTRICT HOWARD COUNTY MARYLAND		
OWNER AND DEVELOPER HOWARD RESEARCH AND DEVELOPMENT CORP. THE VILLAGE OF CROSS KEYS - BALTIMORE MARYLAND 21210		
PROJECT AREA VILLAGE OF OAKLAND MILLS SECTION 5, STEVEN'S FOREST, AREA 3		
PROJECT TITLE		
Des By	Scale	Dwg No OF
Dir By	Date APRIL 1969	C.C.F. No
Chk By	Approved	
GREENHORNE AND O'MARA, INC. ENGINEERS - ARCHITECTS - PLANNERS - SURVEYORS 6715 KENILWORTH AVENUE RIVERDALE, MD.		

APPROVED
BY THE
LAND DEPARTMENT
BALTIMORE, MARYLAND



Rev Date	Rev No	Revision Description
COLUMBIA		
6 TH. ELECTION DISTRICT HOWARD COUNTY MARYLAND		
OWNER DEVELOPER HOWARD RESEARCH AND DEVELOPMENT CORP. 10000 WOODBURN ROAD BALTIMORE MARYLAND 2120		
PROJECT AREA		
VILLAGE OF OAKLAND MILLS SECTION 5, STEVENS FOREST, AREA 3		
PROJECT TITLE		
Des. By	Scale	Dwg. No. OF
Dir. By	Date APRIL 1969	C.C.F. No
Chk. By	Approved	
GREENHORNE AND O'MARA, INC. ENGINEERS - ARCHITECTS - PLANNERS - SURVEYORS 6715 KENILWORTH AVENUE RIVERDALE, MD.		

APPROVED
DIVISION OF
LAND DEVELOPMENT
STATE OF MARYLAND
MAY 15 1969

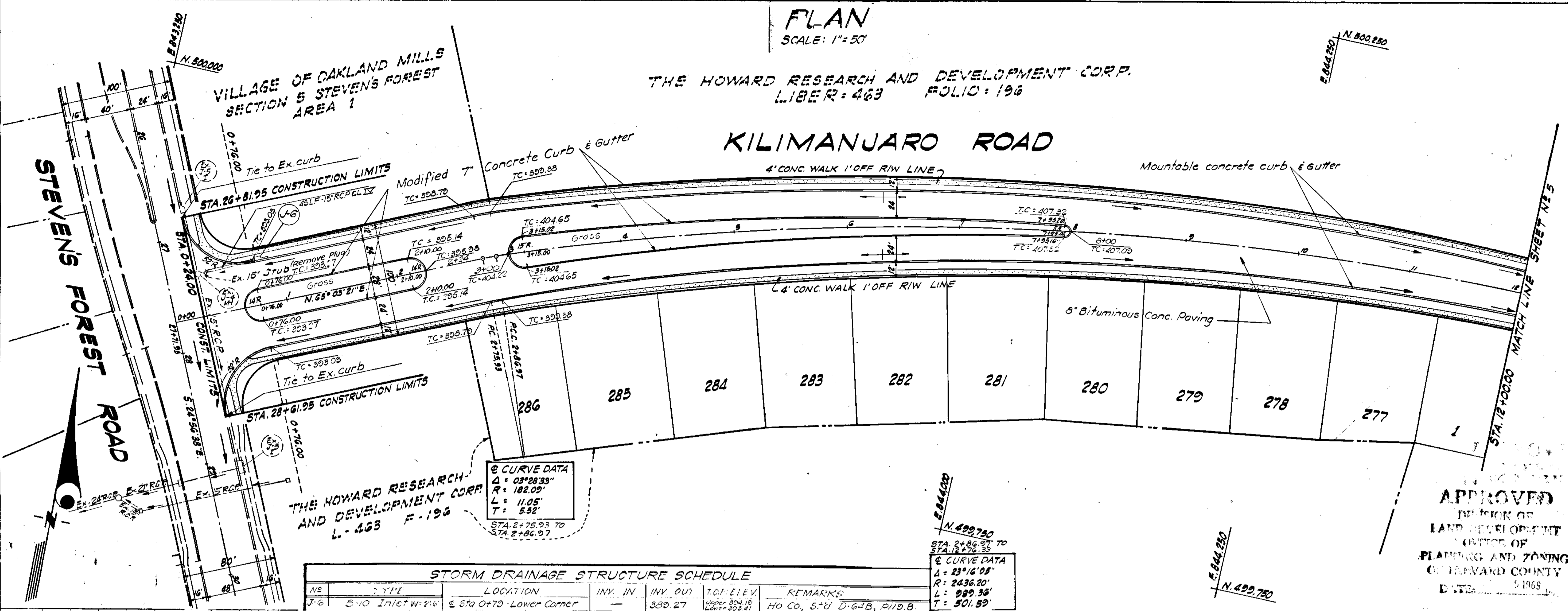
PLAN
SCALE: 1" = 50'

THE HOWARD RESEARCH AND DEVELOPMENT CORP.
LIBER: 463 FOLIO: 196



KILIMANJARO ROAD

NO.	DATE	BY	REVISIONS



THE HOWARD RESEARCH AND DEVELOPMENT CORP.
L-463 F-196

CURVE DATA
Δ = 03°28'33"
R = 182.09'
L = 11.05'
T = 5.92'

CURVE DATA
Δ = 23°16'08"
R = 2436.20'
L = 999.36'
T = 501.59'

STORM DRAINAGE STRUCTURE SCHEDULE

NO.	TYPE	LOCATION	INVERT	OUTVERT	T.O.F. ELEV.	REMARKS
J-6	5'-0" Inlet W-16" & Sta 0+70 Lower Corridor			389.27	400.00	HO CO, S+D D-64B, P119.B

Rev Date Rev No Revision Description

COLUMBIA
6TH ELECTION DISTRICT
HOWARD COUNTY MARYLAND

HOWARD RESEARCH AND DEVELOPMENT CORP.

PROJECT AREA: VILLAGE OF OAKLAND MILLS SECTION 5, STEVENS FOREST, AREA 3

PROJECT TITLE: PLAN AND PROFILE
KILIMANJARO ROAD

Des By: S.W. ASHEBROOK, S.D.E. Date: APRIL 1969
Dwn By: T.R. EGWE, Date: APRIL 1969
CHK By: Approved

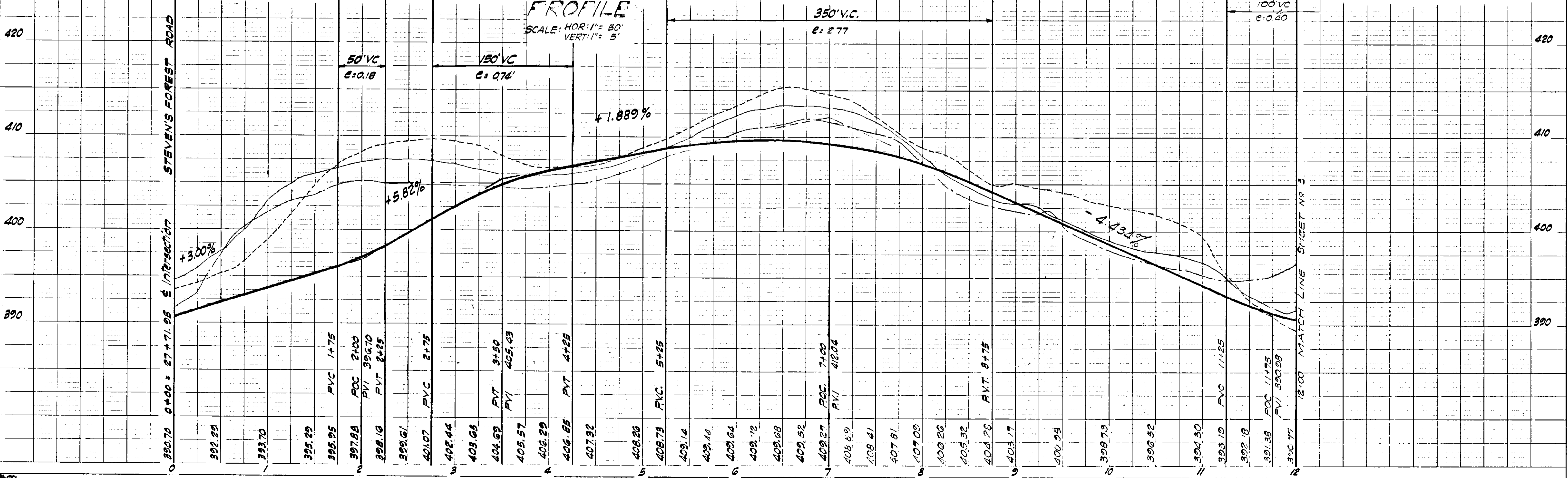
GREENHORNE AND O'MARA, INC.
ENGINEERS - ARCHITECTS - PLANNERS - SURVEYORS
6715 KENILWORTH AVENUE RIVERDALE, MD.

DEPARTMENT OF PUBLIC WORKS
CHIEF, BUREAU OF HIGHWAYS
OFFICE OF PLANNING AND ZONING
CHIEF ENGINEER, DIVISION OF LAND DEVELOPMENT

APPROVED
OFFICE OF
LAND DEVELOPMENT
OFFICE OF
PLANNING AND ZONING
OF HOWARD COUNTY
DATE: APRIL 1969

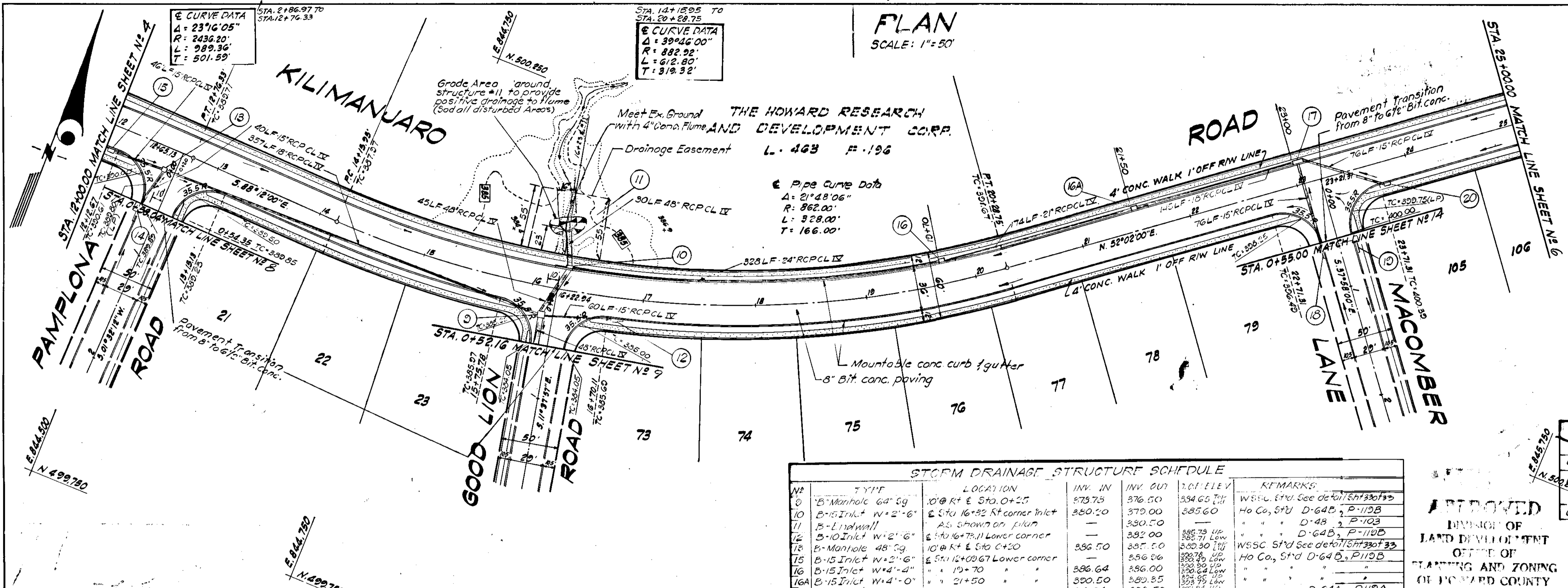
LEGEND
EX GROUND @ 5'
EX GROUND @ 20' OFF RT R/W
EX GROUND @ 20' OFF LT R/W
FINISHED GRADE @ P.G.L.

NO.	DATE	BY	REVISIONS





PLAN
SCALE: 1" = 50'



COLUMBIA
 6TH ELECTION DISTRICT
 HOWARD COUNTY MARYLAND

HOWARD RESEARCH AND DEVELOPMENT CORP.
 THE VILLAGE OF OAKLAND MILLS EASTMERE MARYLAND 21210

PROJECT TITLE
 VILLAGE OF OAKLAND MILLS
 SECTION 5, STEVEN'S FOREST, AREA 5

PROJECT TYPE
 PLAN AND PROFILE
KILIMANJARO ROAD

Des By: K.W. MANSO, Sols. 25-1-10-69, Div. No. 5 of 33
 Din By: T.K.C., Date: APRIL 1969, C.C.T. No.
 Chk By: Approved

GREENHORN AND O'MARA, INC.
 ENGINEERS - ARCHITECTS - PLANNERS - SURVEYORS
 6715 SEILWORTH AVENUE RIVERDALE, MD.

STORM DRAINAGE STRUCTURE SCHEDULE

No.	TYPE	LOCATION	INV. IN	INV. OUT	1.0' ELEV.	REMARKS
9	B-Manhole 64" dia	10+Rt & Sta. 0+25	373.75	376.50	384.65	WSSC Std. See detail SH330195
10	B-15 Inlet W=2'-6"	Sta. 16+32 Rt corner Inlet	380.20	379.00	385.60	Ho Co, Std. D-64B, P-112B
11	B-Endwall	As shown on plan	-	330.50	-	" " " " D-48, P-103
12	B-15 Inlet W=2'-6"	Sta. 16+74.11 Lower corner	-	382.00	386.75	" " " " D-64B, P-112B
13	B-Manhole 48" dia	10+Rt & Sta. 0+20	386.50	387.50	380.50	WSSC Std. See detail SH330133
14	B-15 Inlet W=2'-6"	Sta. 12+08.67 Lower corner	-	386.06	380.78	Ho Co, Std. D-64B, P-112B
15	B-15 Inlet W=4'-0"	" " 19+70	386.64	386.00	380.24	" " " " " " " "
16	B-15 Inlet W=4'-0"	" " 21+50	380.50	380.35	380.95	" " " " " " " "
16A	B-15 Inlet W=2'-6"	" " 23+00	384.34	389.50	387.94	" " " " " " " "
17	A-10 Inlet W=2'-6"	" " 23+72.31	-	397.00	397.54	" " " " " " " "
20	A-5 Inlet W=2'-6"	" " 23+72.31	-	397.00	397.54	" " " " " " " "

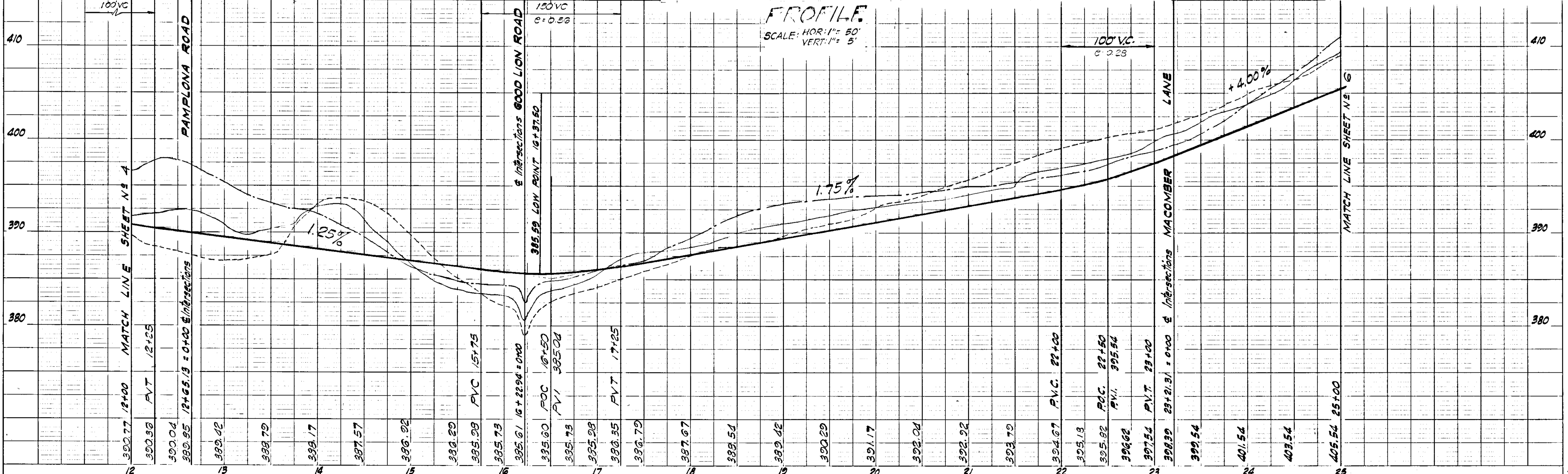
DEPARTMENT OF PUBLIC WORKS
 CHIEF, OFFICE OF HIGHWAYS
 DATE: _____

OFFICE OF PLANNING AND ZONING
 CHIEF, DIVISION OF LAND DEVELOPMENT
 DATE: _____

APPROVED
 DIVISION OF
 LAND DEVELOPMENT
 OFFICE OF
 PLANNING AND ZONING
 OF HOWARD COUNTY
 DATE: JUNE 5 1969

LEGEND
 EX. GROUND @ 6'
 EX. GROUND @ 20' OFF RT. R/W
 EX. GROUND @ 20' OFF LT. R/W
 FINISHED GRADE @ P.G.L.

PROFILE
 SCALE: HOR: 1" = 50'
 VERT: 1" = 5'



PLAN

DATE	
BY	
NO.	
REVISIONS	
NO.	
DATE	
BY	
NO.	

PROFILE

DATE	
BY	
NO.	
REVISIONS	
NO.	
DATE	
BY	
NO.	



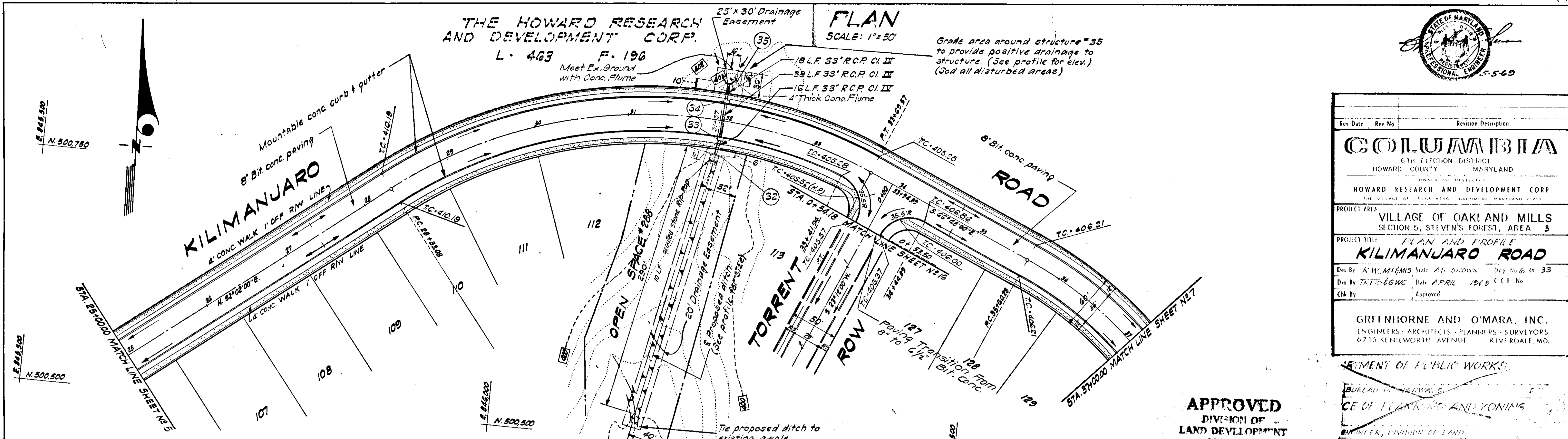
THE HOWARD RESEARCH AND DEVELOPMENT CORP.

L-463 F-196
Meet Ex. Ground with Conc. Flume

PLAN

SCALE: 1"=50'

Grade area around structure #35 to provide positive drainage to structure. (See profile for elev.) (Soil all disturbed areas)



DATE	
BY	
NO.	
PLANNED	
CHECKED	
DESIGNED	
NOTED	
STRUCTURE	
NOTATIONS	

Rev Date	Rev No	Revision Description
COLUMBIA		
6TH ELECTION DISTRICT HOWARD COUNTY MARYLAND		
HOWARD RESEARCH AND DEVELOPMENT CORP. THE VILLAGE OF OAKLAND MILLS, FARMING ME MARYLAND 21050		
PROJECT AREA VILLAGE OF OAKLAND MILLS SECTION 5, STEVEN'S FOREST, AREA 3		
PROJECT TITLE PLAN AND PROFILE KILIMANJARO ROAD		
Des By: K.W. MEMIS Scale: AS SHOWN Draw No: 6 of 33		
Dim By: T.R.E.G.W.C. Date: APRIL 1968 C.C.F. No.		
Chk By: Approved		
GREENHORNE AND O'MARA, INC. ENGINEERS - ARCHITECTS - PLANNERS - SURVEYORS 6715 KENILWORTH AVENUE RIVERDALE, MD.		

DEPARTMENT OF PUBLIC WORKS
BUREAU OF HIGHWAYS
OFFICE OF PLANNING AND ZONING
ENGINEER, DIVISION OF LAND

APPROVED
DIVISION OF LAND DEVELOPMENT
OFFICE OF PLANNING AND ZONING
OF HOWARD COUNTY
DATE: 4/15/68

LEGEND
EX. GROUND @ 2' OFF RT. R/W
EX. GROUND @ 20' OFF LT. R/W
FINISHED GRADE @ P.G.L.

STORM DRAINAGE STRUCTURE SCHEDULE

NO.	TYPE	LOCATION	INV. IN	INV. OUT	T.O. ELEV.	REMARKS
32	C Endwall	As shown on plan		596.62		Ho. Co. Sta. D-52, P-107
33	A-5 Inlet W-2'-6"	@ E Sta. 32+00	397.00	396.70	401.98	" " " D-64-A, P-118-A
34	A-5 Inlet W-2'-6"	" " " " " "	397.50	397.18	401.98	" " " D-64-A, P-118-A
35	B-Endwall *	As shown on plan		398.04		" " " D-48, P-103 *

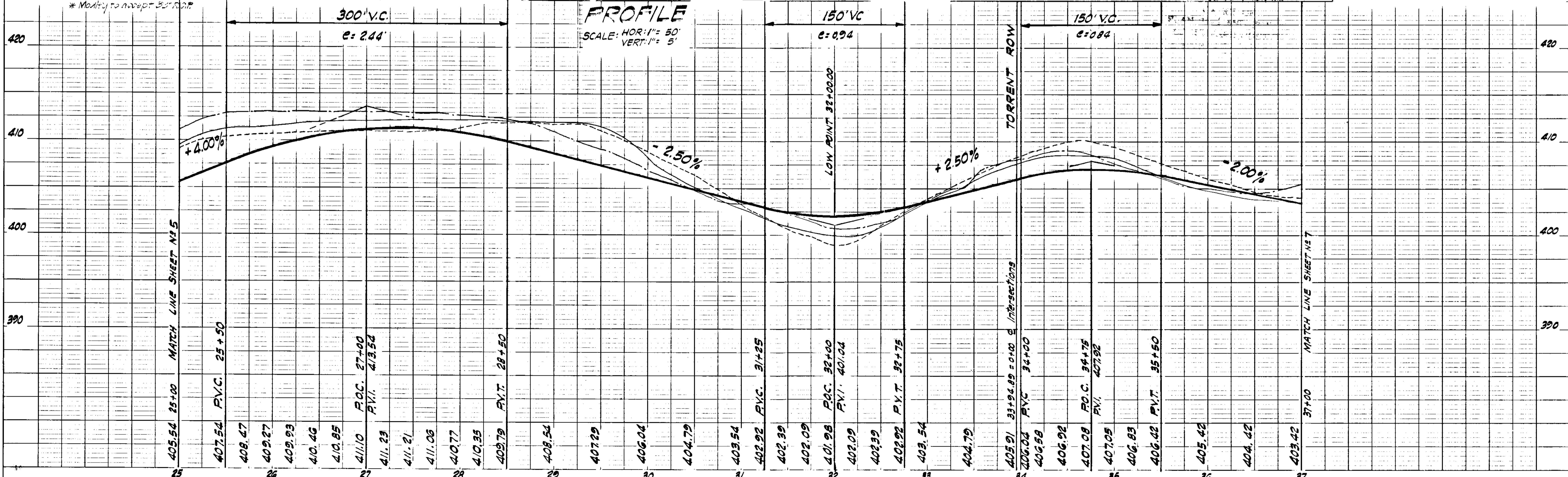
* Modify to accept 33" R.C.P.

STA. 28+33.08 TO STA. 33+62.57
E CURVE DATA
Δ = 61° 10' 00"
R = 502.53'
L = 536.48'
T = 297.00'

STA. 35+60.28 TO STA. 39+24.22
E CURVE DATA
Δ = 50° 58' 00"
R = 409.13'
L = 363.94'
T = 195.00'

PROFILE

SCALE: HOR: 1"=50'
VERT: 1"=5'

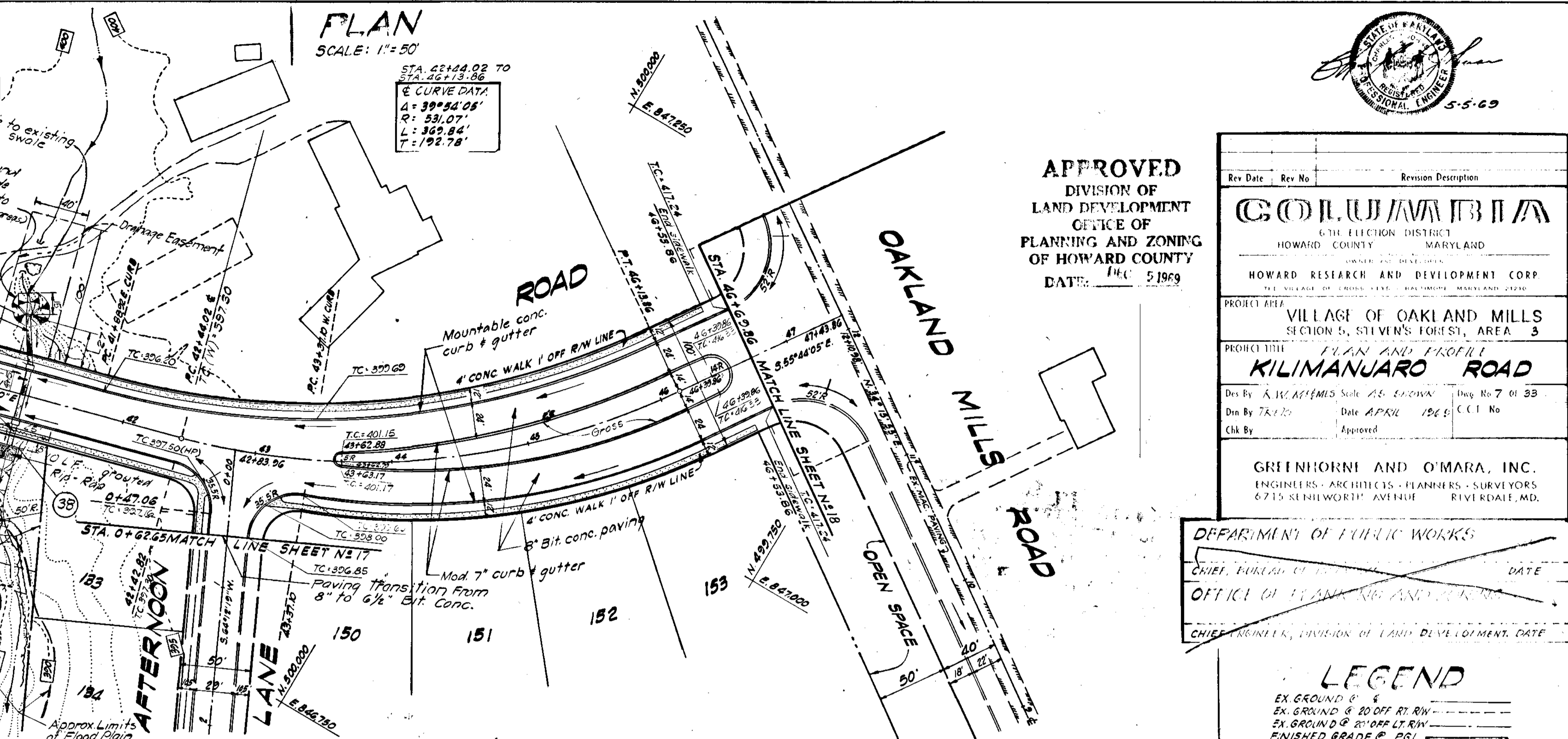


DATE	
BY	
NO.	
PLANNED	
CHECKED	
DESIGNED	
NOTED	
STRUCTURE	
NOTATIONS	

STORM DRAINAGE STRUCTURE SCHEDULE

No.	Type	Location	Inv. In	Inv. Out	T.C. Elev.
38	"B" Endwall	As shown on plan	389.37	389.45	395.42
39	"A-5" Inlet	Sta 41+25	389.82	390.00	395.42
40	"C" Endwall	As shown on plan	390.44	390.57	395.42

* Manly to Accept 42" R.O.P.



APPROVED
DIVISION OF
LAND DEVELOPMENT
OFFICE OF
PLANNING AND ZONING
OF HOWARD COUNTY
DATE: DEC 5 1969

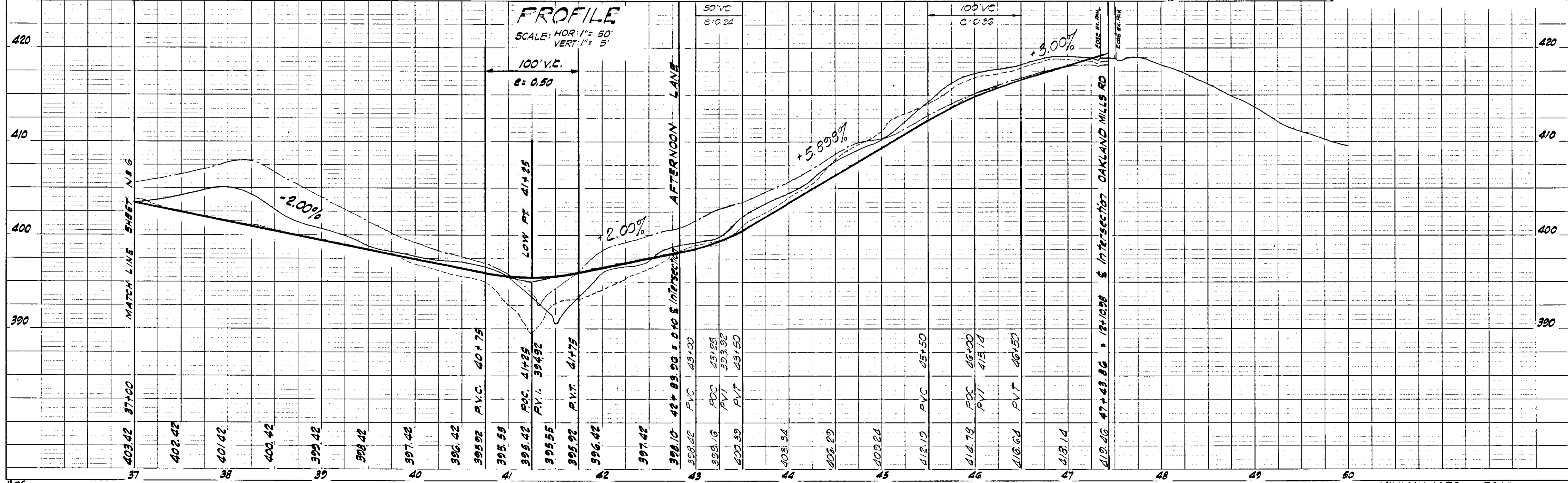
Rev. Date	Rev. No.	Revision Description

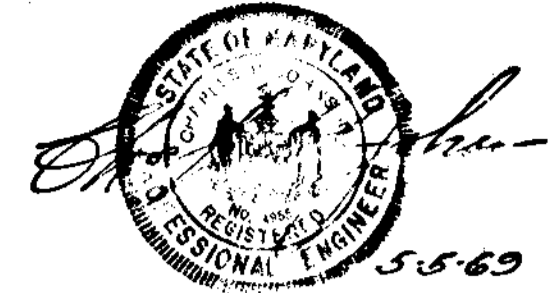
COLUMBIA
6th ELECTION DISTRICT
HOWARD COUNTY MARYLAND
HOWARD RESEARCH AND DEVELOPMENT CORP.
VILLAGE OF OAKLAND MILLS
SECTION 5, STEVEN'S FOREST, AREA 3
KILIMANJARO ROAD
Des. By: K.W. MEMIS, Scale: AS SHOWN, Day No. 7 of 33
Din By: 7/2/69, Date: APRIL 1969, C.C.I. No.
Chk. By: Approved

GREENHORN AND O'MARA, INC.
ENGINEERS - ARCHITECTS - PLANNERS - SURVEYORS
6715 KENSINGTON AVENUE RIVERDALE, MD.

DEPARTMENT OF PUBLIC WORKS
CHIEF, BUREAU OF PUBLIC WORKS
OFFICE OF PLANNING AND ZONING
CHIEF, ENGINEER, DIVISION OF LAND DEVELOPMENT

LEGEND
EX. GROUND @ 5'
EX. GROUND @ 20' OFF RT. R/W
EX. GROUND @ 20' OFF LT. R/W
FINISHED GRADE @ P.G.L.

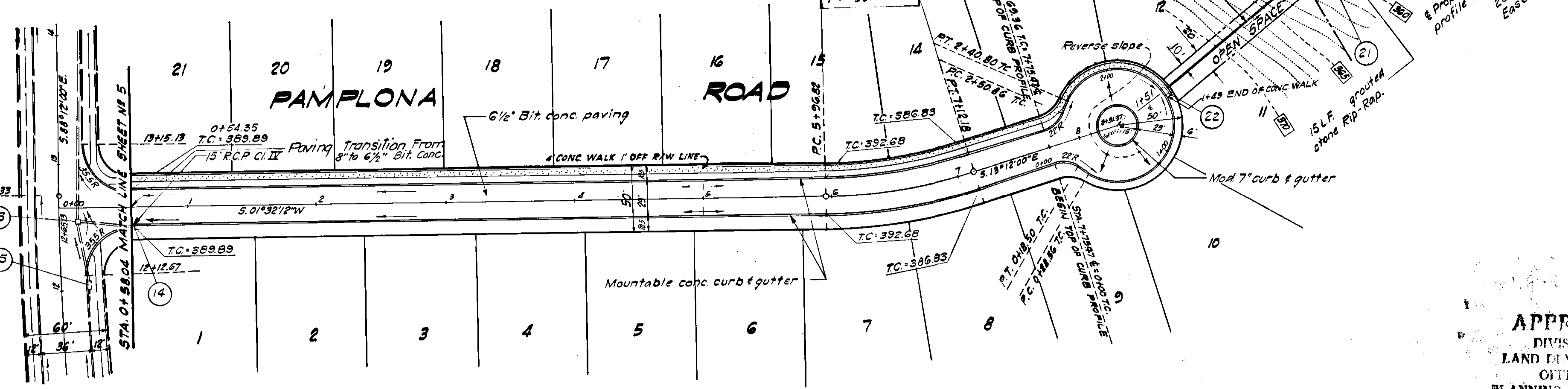




PLAN

SCALE: 1" = 50'

KILIMANJARO ROAD



Rev. No.	Rev. Date	Revision Description

COLUMBIA
 CIVIL ENGINEERING DISTRICT
 HOWARD COUNTY MARYLAND
 HOWARD RESEARCH AND DEVELOPMENT CORP.
 THE VILLAGE OF OAKLAND MILLS, PATENTERS MARYLAND 21210

PROJECT AREA: VILLAGE OF OAKLAND MILLS SECTION 5, STEVEN'S FOREST, AREA 3
 PROJECT TITLE: PLAN AND PROFILE PAMPLONA ROAD
 Des. By: K. W. ADAMS Scale: AS SHOWN Tie to B of 33
 Dwn. By: T. J. G. M. C. Date: APRIL 1968 C.C.T. No.
 Chk. By: Approved

APPROVED
 DIVISION OF LAND DEVELOPMENT
 OFFICE OF PLANNING AND ZONING
 OF HOWARD COUNTY
 DATE: DEC. 5, 1968

GREENHORNE AND O'MARA, INC.
 ENGINEERS - ARCHITECTS - PLANNERS - SURVEYORS
 6715 STENILWORTH AVENUE RIVERDALE, MD.

DEPARTMENT OF PUBLIC WORKS
 CHIEF, DIVISION OF ENGINEERING AND ZONING
 DATE: _____

STORM DRAINAGE STRUCTURE SCHEDULE

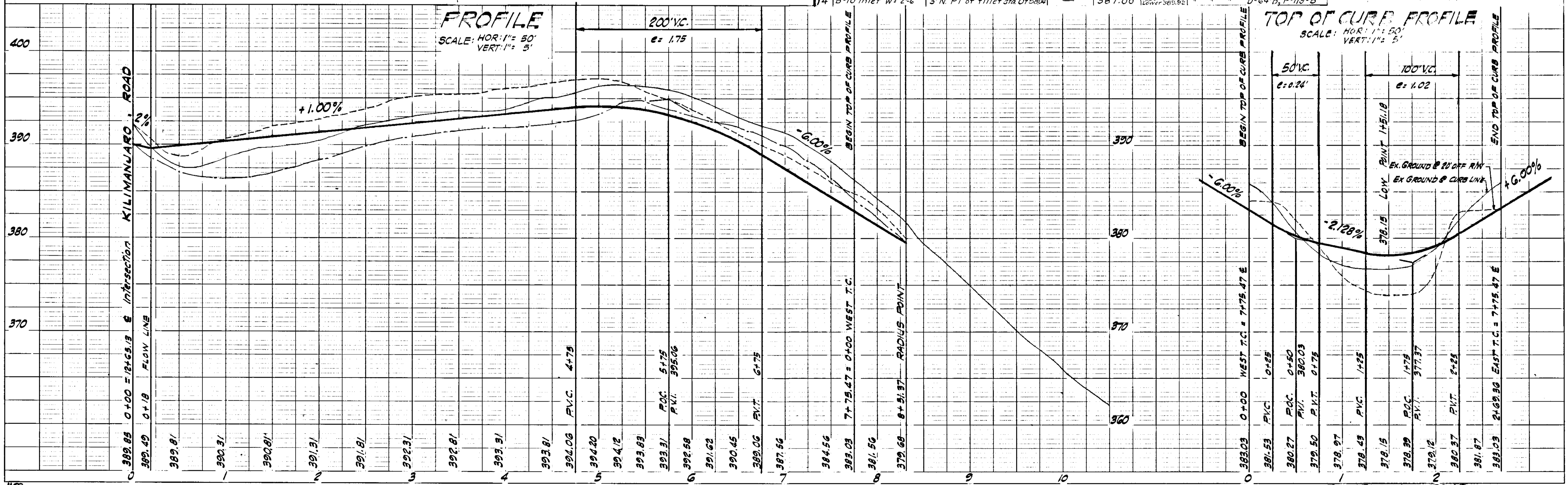
No.	TYPE	LOCATION	INV. IN	INV. OUT	TOP ELEV.	REMARKS
21	C Endwall	As shown on plan	---	358.21	---	Ho. Co. Sy. D-52, P-107
22	A-5 Inlet w=2'-6"	"	---	375.59	378.15	" " " D-64-A, P-119-A
14	B-10 Inlet w=2'-6"	5' N. PT. OF FILLET STA 0+5804	---	387.00	389.65	" " " D-64-B, P-119-B

LEGEND

EX. GROUND @ 20' OFF RT. RW
 EX. GROUND @ 20' OFF LT. RW
 EX. GROUND @ 20' OFF C&G
 FINISHED GRADE @ P&L

PROFILE

SCALE: HOR: 1" = 50'
 VERT: 1" = 5'



DATE	BY	SAVED

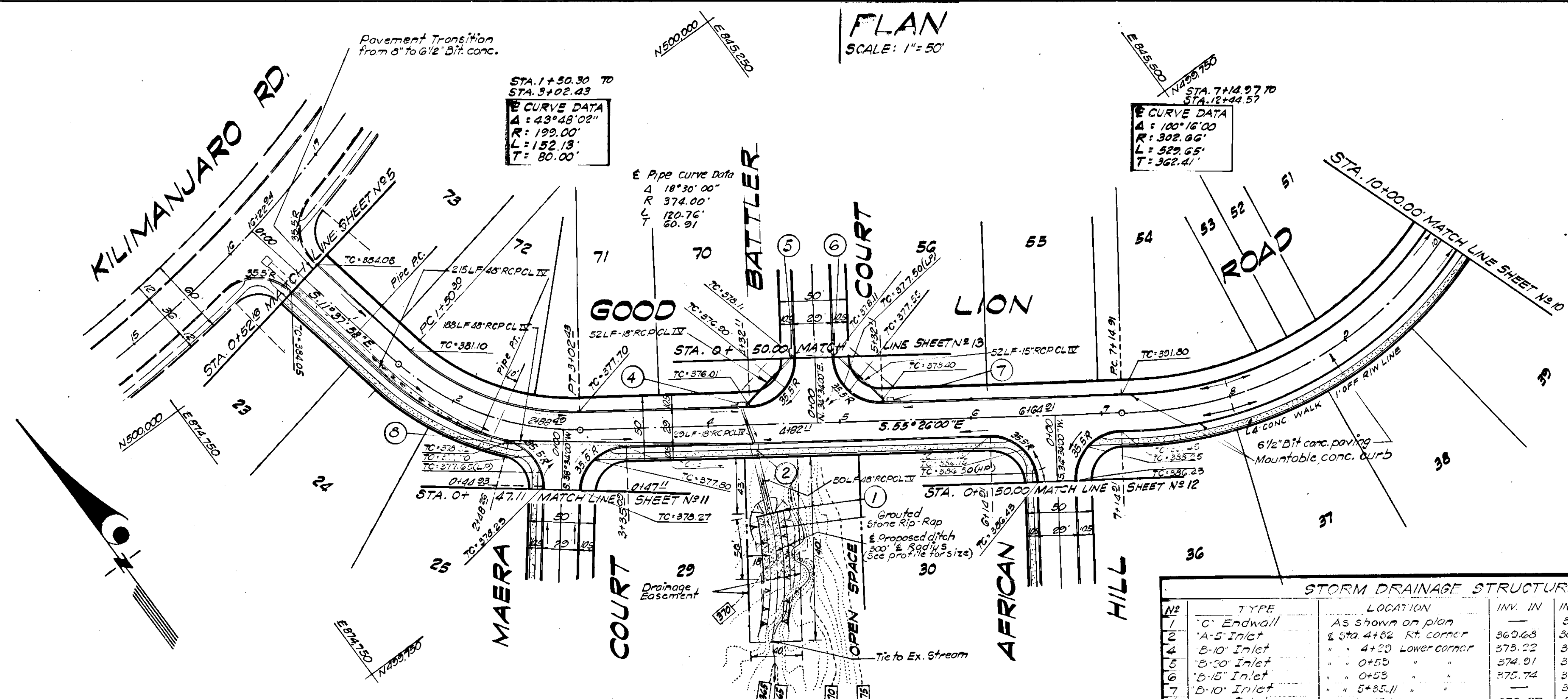
PLAN
 SURVEYED
 PLOTTED
 NOTE BOOK
 ALUMINUM CHECKED
 BY: _____

DATE	BY	SAVED

PROFILE
 SURVEYED
 PLOTTED
 NOTE BOOK
 STRUCTURE NOTATIONS CHECKED
 BY: _____



PLAN
SCALE: 1" = 50'



APPROVED
 DIVISION OF
 LAND DEVELOPMENT
 OFFICE OF
 PLANNING AND ZONING
 OF HOWARD COUNTY
 DATE: DEC 5 1969

Rev Date	Rev No	Revision Description

COLUMBIA
 6TH ELECTION DISTRICT
 HOWARD COUNTY MARYLAND
 LOWER LEVEL DEVELOPER
 HOWARD RESEARCH AND DEVELOPMENT CORP
 THE VILLAGE OF OAKLAND MILLS, BALTIMORE, MARYLAND 21210

PROJECT AREA: VILLAGE OF OAKLAND MILLS
 SECTION 3, STEVEN'S FOREST, AREA 3
 PROJECT TITLE: PLAN AND PROFILE
GOOD LION ROAD
 Des By: R. W. MEHMS Scale: 1/4" = 40' Draw No: 9 of 33
 Dn By: T. K. BGC Date: APRIL 1969 CCI No:
 Chk By: Approved

GREENHORN AND O'MARA, INC.
 ENGINEERS - ARCHITECTS - PLANNERS - SURVEYORS
 6715 KENILWORTH AVENUE RIVERDALE, MD.

DEPARTMENT OF PUBLIC WORKS
 CHIEF, BUREAU OF HIGHWAYS DATE:
 OFFICE OF PLANNING AND ZONING
 CHIEF, BUREAU OF LAND DEVELOPMENT, DATE:

STORM DRAINAGE STRUCTURE SCHEDULE

No	TYPE	LOCATION	INV. IN	INV. OUT	10% ELEV.	REMARKS
1	C Endwall	As shown on plan	367.60	367.60		Ho. Co. 5" D-52-P-107
2	A-5 Inlet	Sta 4+82 Rt. corner	369.68	368.25	376.01	" D-64A, P110A-W-5-4"
3	B-10 Inlet	4+20 Lower corner	373.22	372.00	376.01	" D-64B, P110B-W-2-6"
4	B-10 Inlet	0+53	374.91	374.00	376.01	" -W-2-6"
5	B-10 Inlet	0+53	375.74	375.20	376.01	"
6	B-10 Inlet	5+85.11	376.00	376.00	376.01	"
7	A-10 Inlet	4+48.26	373.27	372.50	376.01	D-64A, P110A-N-5-4"

LEGEND
 EX. GROUND @ 4
 EX. GROUND @ 20' OFF RT. RW
 EX. GROUND @ 20' OFF LT. RW
 FINISHED GRADE @ P.S.L.

PLAN
 SURVEYED
 ALIGNED
 CHECKED
 NO. OF WAY CHECKED

PROFILE
 SURVEYED
 GRADES CHECKED
 B.M.'S NOTED
 STRUCTURE NOTATIONS CHECKED

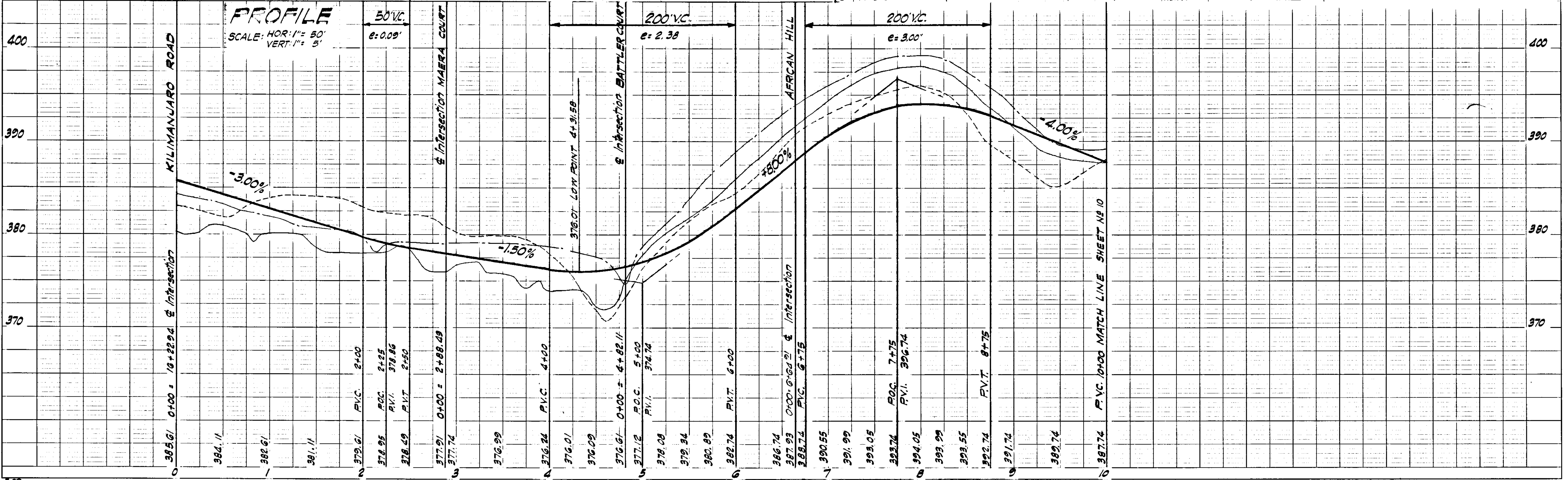
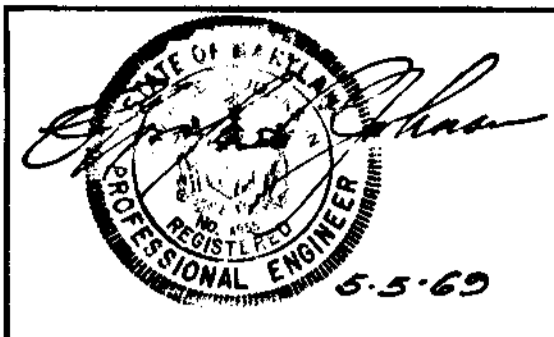
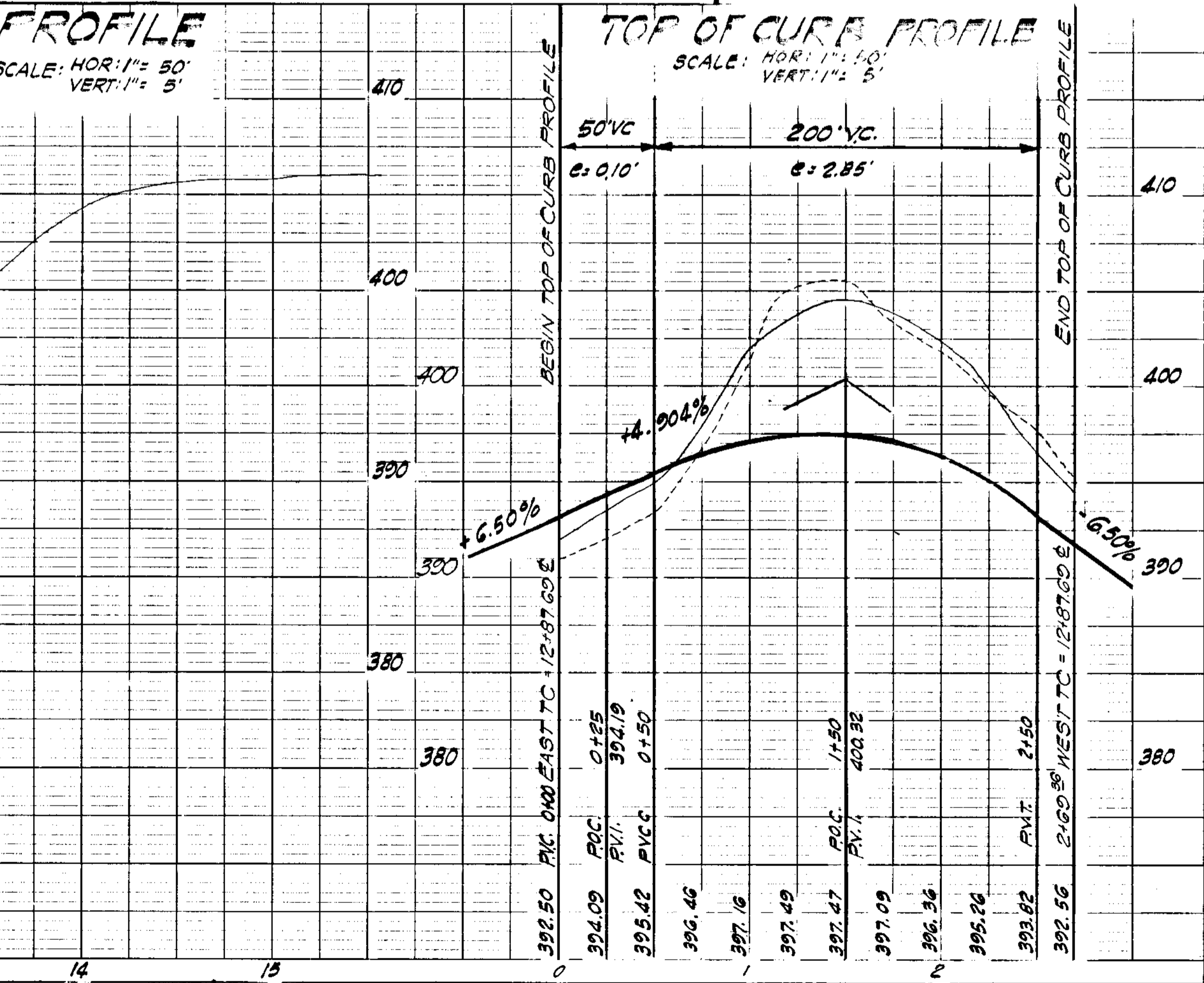
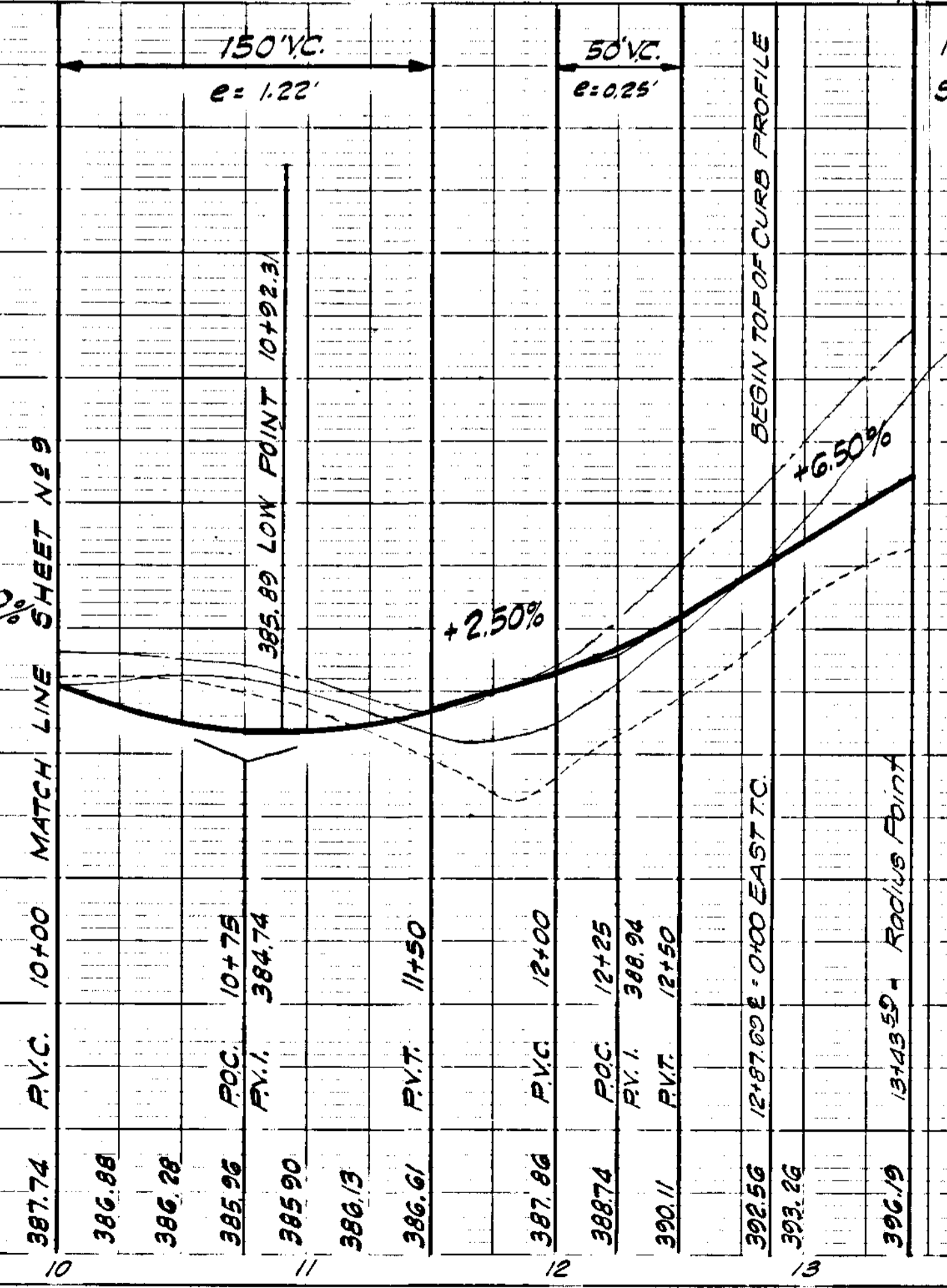
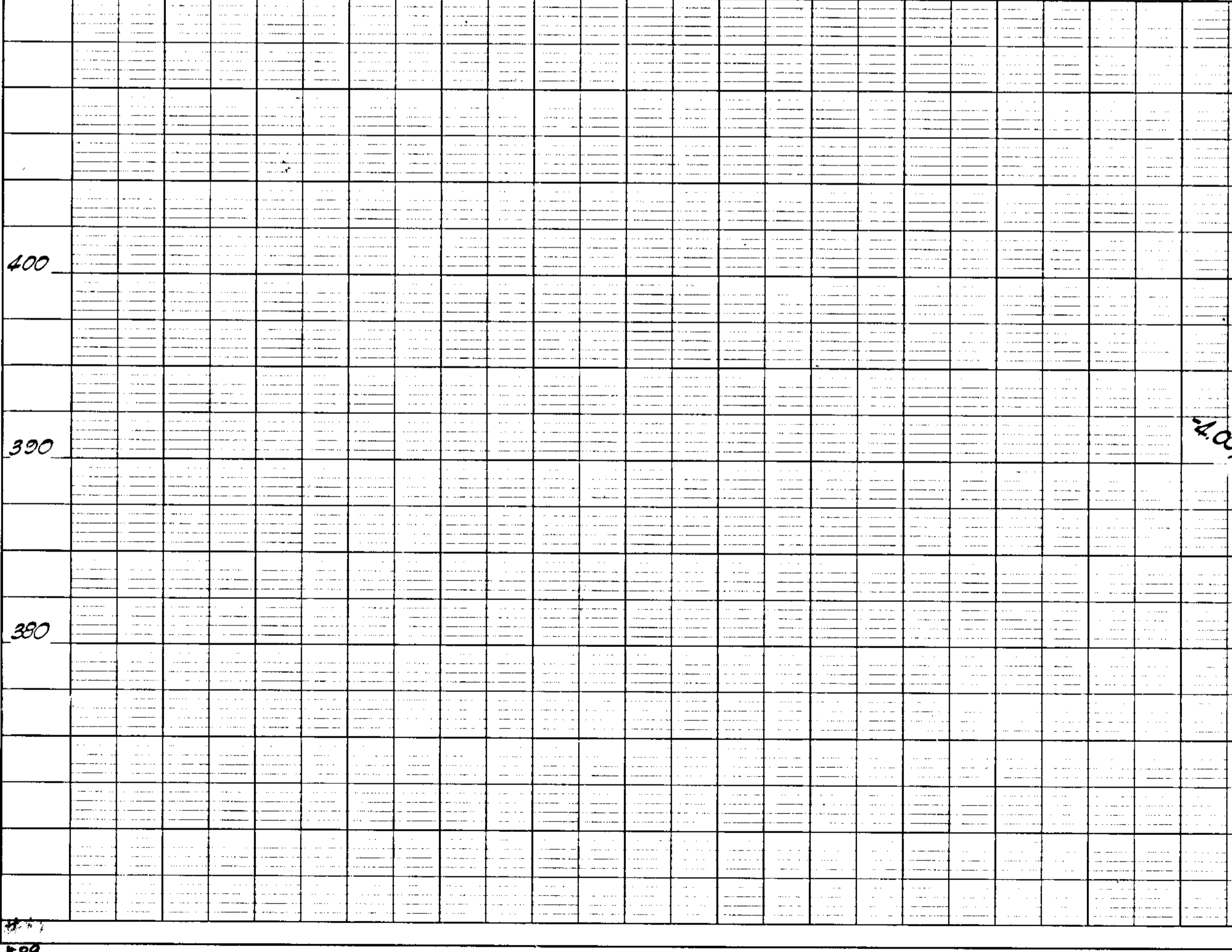
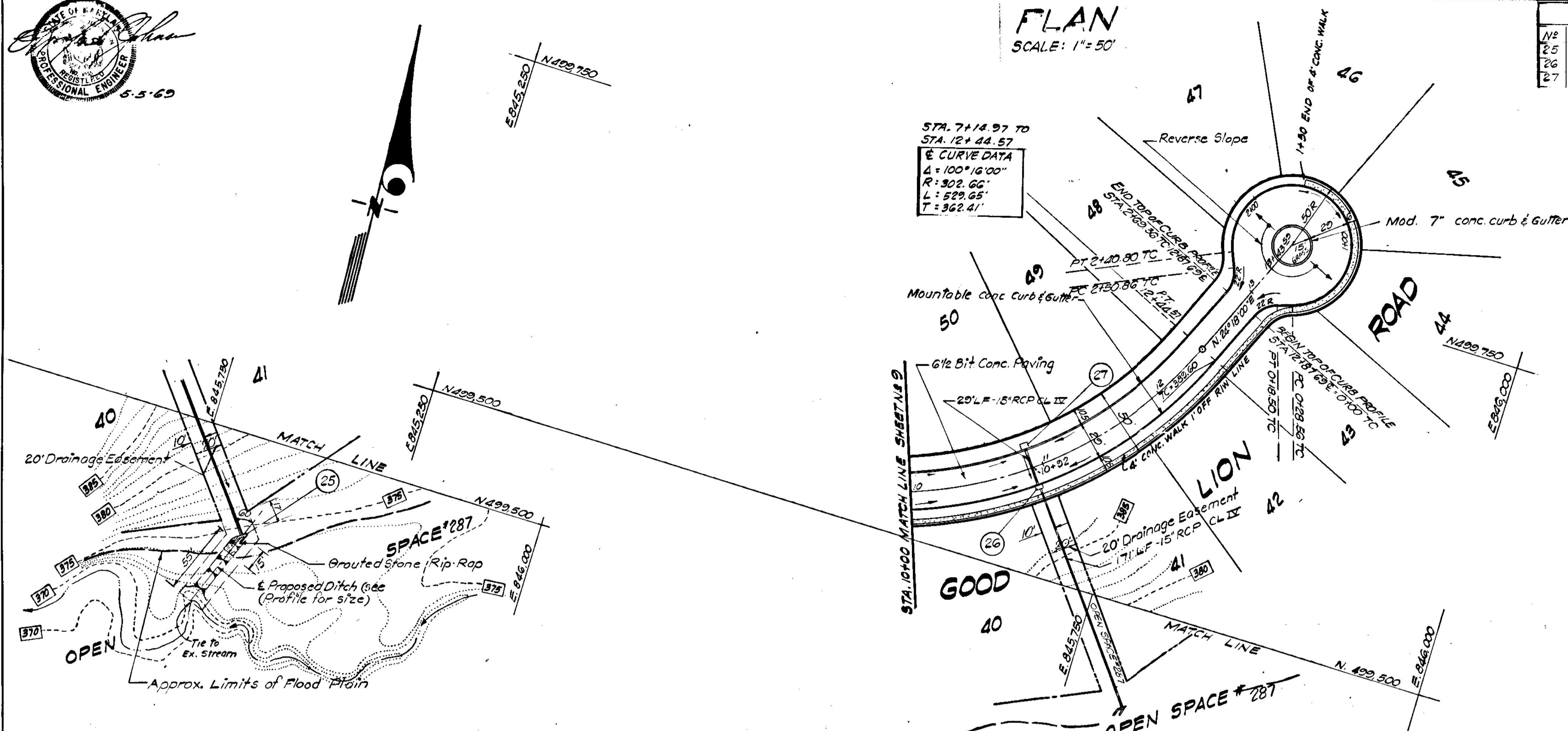


PLATE 1 PLAN - PROFILE & P.R. STANDARD
 ENGINE BROTHER CO. CHICAGO - NEW YORK



DATE	BY	REVISION

DATE	BY	REVISION



STORM DRAINAGE STRUCTURE SCHEDULE

NO	TYPE	LOCATION	INV. IN	INV. OUT	1.01' ELEV.	REMARKS
25	"6" Endwall *	AS shown on plan	382.85	375.20		Ho. Co. S+rd O-GT. P-110 *
26	"A-5" Inlet w=2'-6"	@ Sta. 10+82	382.50	382.50	385.80	" " O-64A P-119A
27	" " w=2'-6"	" " "	382.50	383.00	" " "	" " " " " "

* Mod. wings to 60° Angle

COLUMBIA
 6TH ELECTION DISTRICT
 HOWARD COUNTY MARYLAND
 HOWARD RESEARCH AND DEVELOPMENT CORP

PROJECT AREA: VILLAGE OF OAKLAND MILLS
 SECTION 5, STEVEN'S FOREST, AREA 3

PROJECT TITLE: PLAN AND PROFILE
GOOD LION ROAD

DES. BY: R.W. AHEM Scale 1/8"=1'-0" Day 10/0 of 33
 Dwn. BY: F.G.M. Date APRIL 1969 C-1 No.
 CHK. BY: Approved

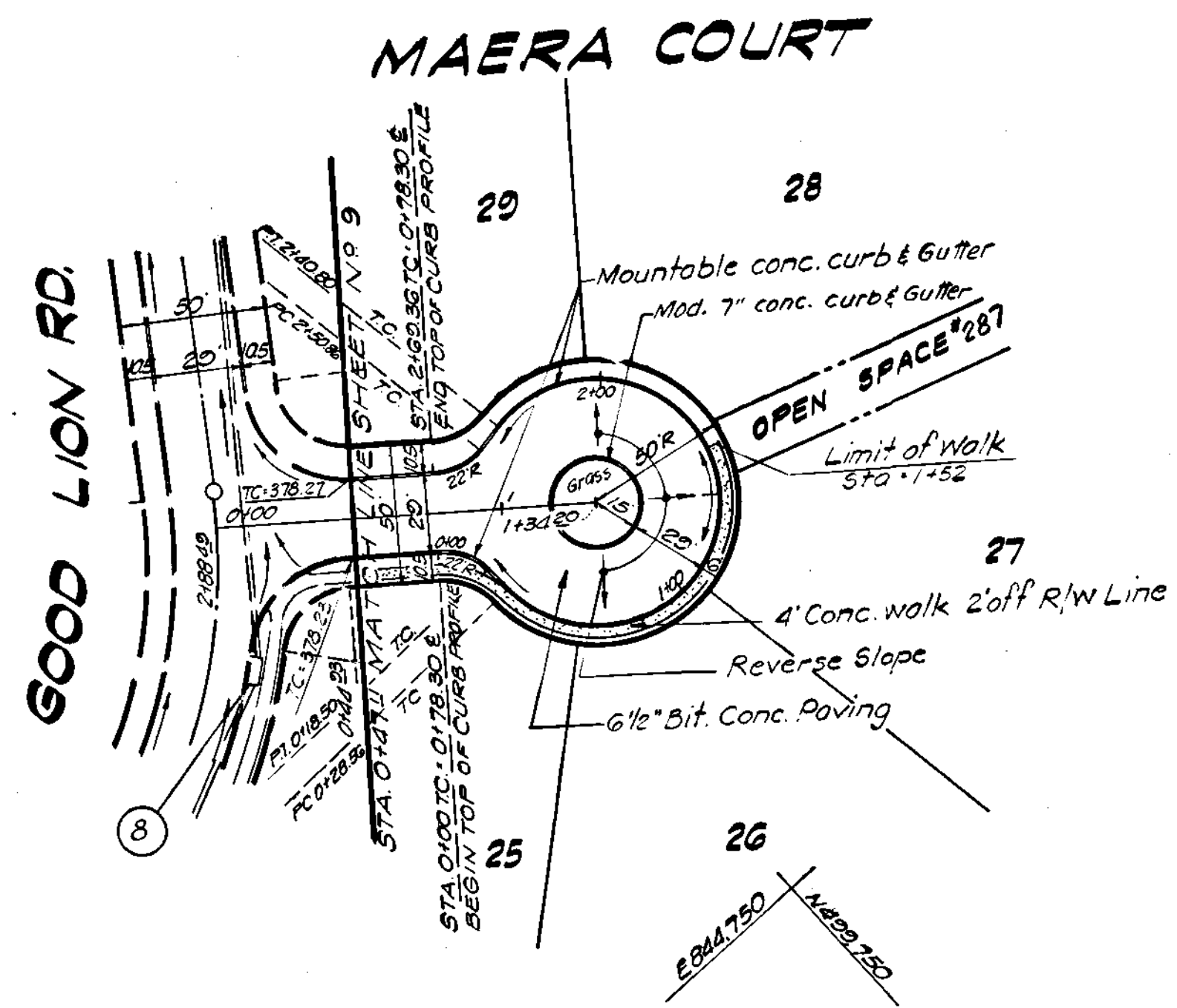
GREENHORNE AND O'MARA, INC.
 ENGINEERS - ARCHITECTS - PLANNERS - SURVEYORS
 6715 KENILWORTH AVENUE RIVERDALE, MD.

APPROVED
 DIVISION OF LAND DEVELOPMENT
 OFFICE OF PLANNING AND ZONING
 COUNTY OF HOWARD COUNTY
 DATE: DEC 5 1969

LEGEND:
 EX. GROUND @ -
 EX. GROUND @ 2'-0" OFF R.O.W.
 EX. GROUND @ 2'-0" OFF L.R.W.
 FINISHED GRADE @ F.S.L.



PLAN
SCALE: 1" = 50'



APPROVED
DIVISION OF
LAND DEVELOPMENT
OFFICE OF
PLANNING AND ZONING
PLANNING BOARD OF HOWARD COUNTY
DATE: DEC 5 1969

Rev. Date	Rev. No.	Revision Description
COLUWBITA		
6TH ELECTION DISTRICT HOWARD COUNTY MARYLAND		
HOWARD RESEARCH AND DEVELOPMENT CORP.		
PROJECT AREA: VILLAGE OF OAKLAND MILLS SECTION 5, STEVEN'S FOREST, AREA 3		
PROJECT TITLE: PLAN AND PROFILE MAERA COURT		
Des. By: A.W. MEYERS Scale: AS SHOWN Draw. No. 11 OF 33		
Dwn. By: R.E. EGWC Date: APRIL 1968 C.C.F. No.		
Chk. By: Approved		

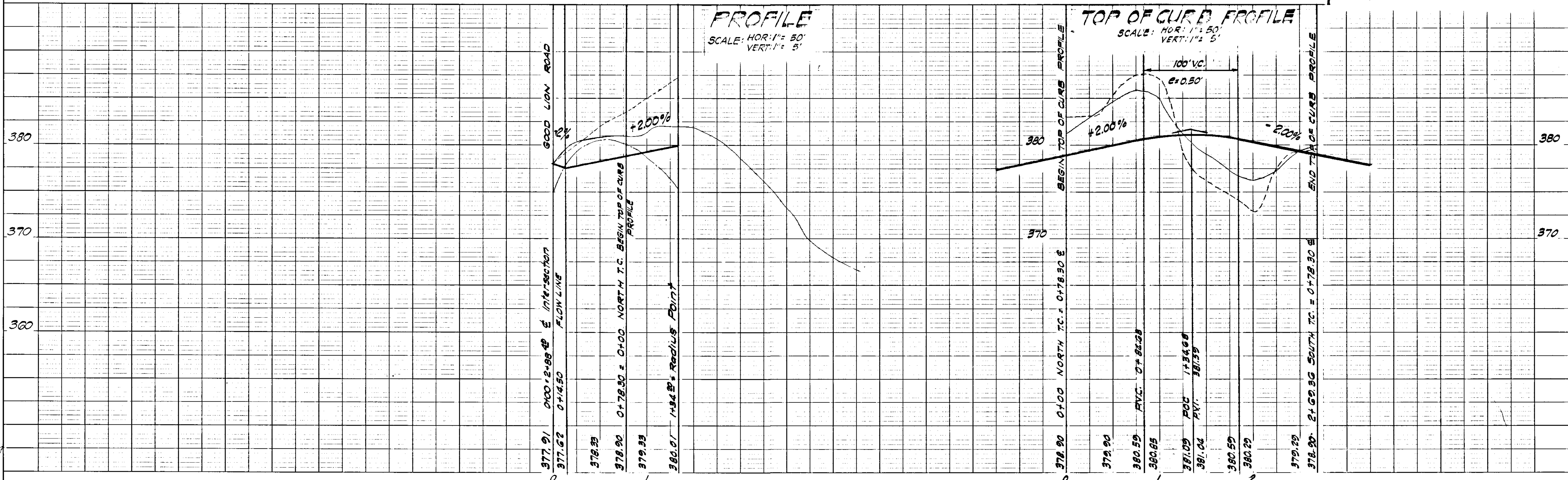
GREENHORN AND O'MARA, INC.
ENGINEERS - ARCHITECTS - PLANNERS - SURVEYORS
6715 KENILWORTH AVENUE RIVERDALE, MD.

DEPARTMENT OF PUBLIC WORKS
CHIEF, BUREAU OF HIGHWAYS DATE
OFFICE OF PLANNING AND ZONING
ENGINEER, DIVISION OF LAND DEVELOPMENT, DATE

LEGEND
EX. GROUND @ 9
EX. GROUND @ 20' OFF RT. RW
EX. GROUND @ 20' OFF LT. RW
FINISHED GRADE @ P.G.L.

PROFILE
SCALE: HOR: 1" = 50'
VERT: 1" = 5'

TOP OF CURB PROFILE
SCALE: HOR: 1" = 50'
VERT: 1" = 5'

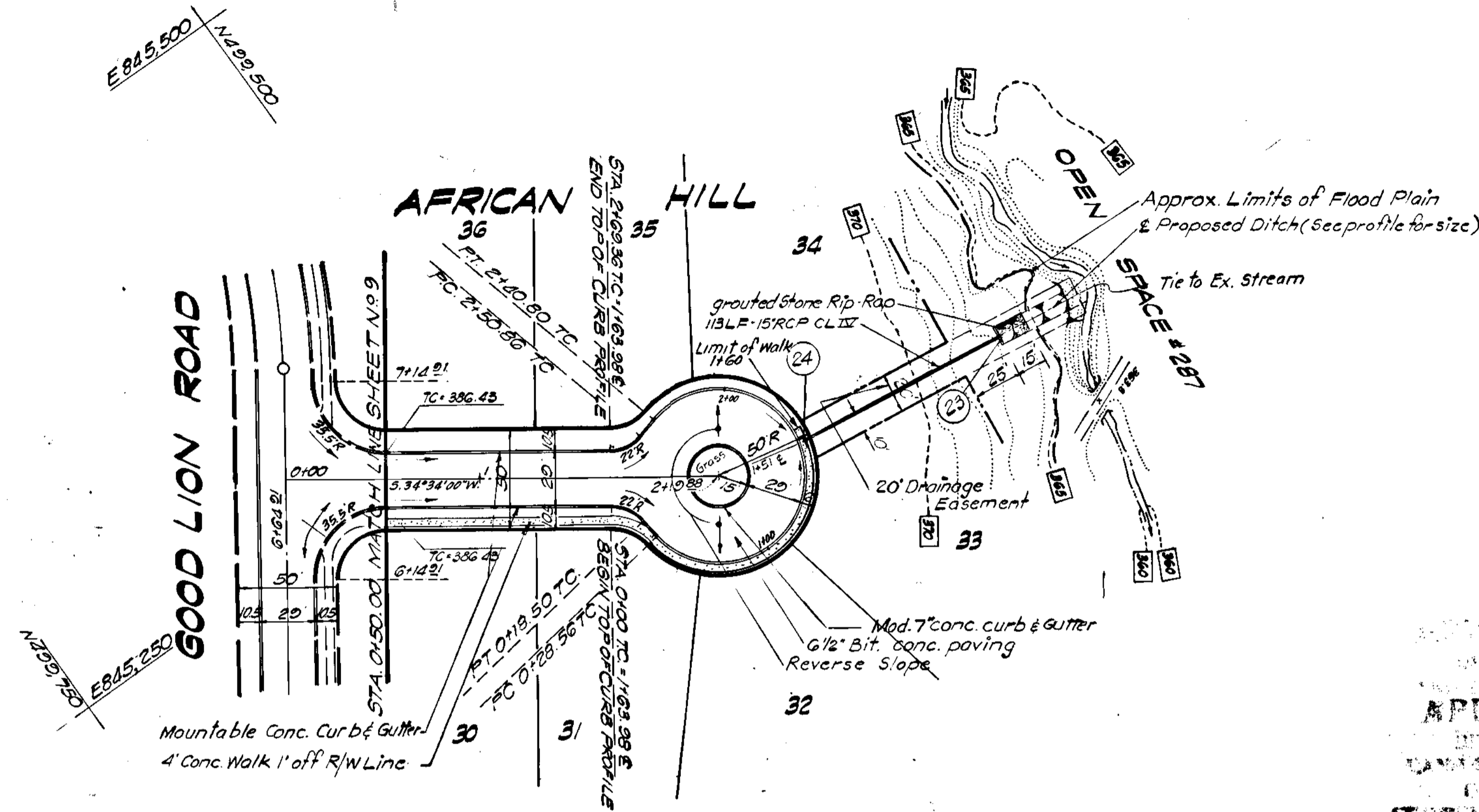


PLAN	DATE
NO.	
BY	
CHECKED	
NOTED	
ALIGNED	
GRADES	
STRUCTURE	
NOTES	
DATE	

PROFILE	DATE
NO.	
BY	
CHECKED	
NOTED	
GRADES	
STRUCTURE	
NOTES	
DATE	



PLAN
SCALE: 1" = 50'



Rev. Date: Rev. No: Revision Description:

GREENHORN AND O'MARA, INC.
6715 KENILWORTH AVENUE RIVERDALE, MD.

PROJECT AREA: VILLAGE OF OAKLAND MILLS SECTION 5, SILVER FOREST, AREA 3

PROJECT TITLE: **AFRICAN HILL**

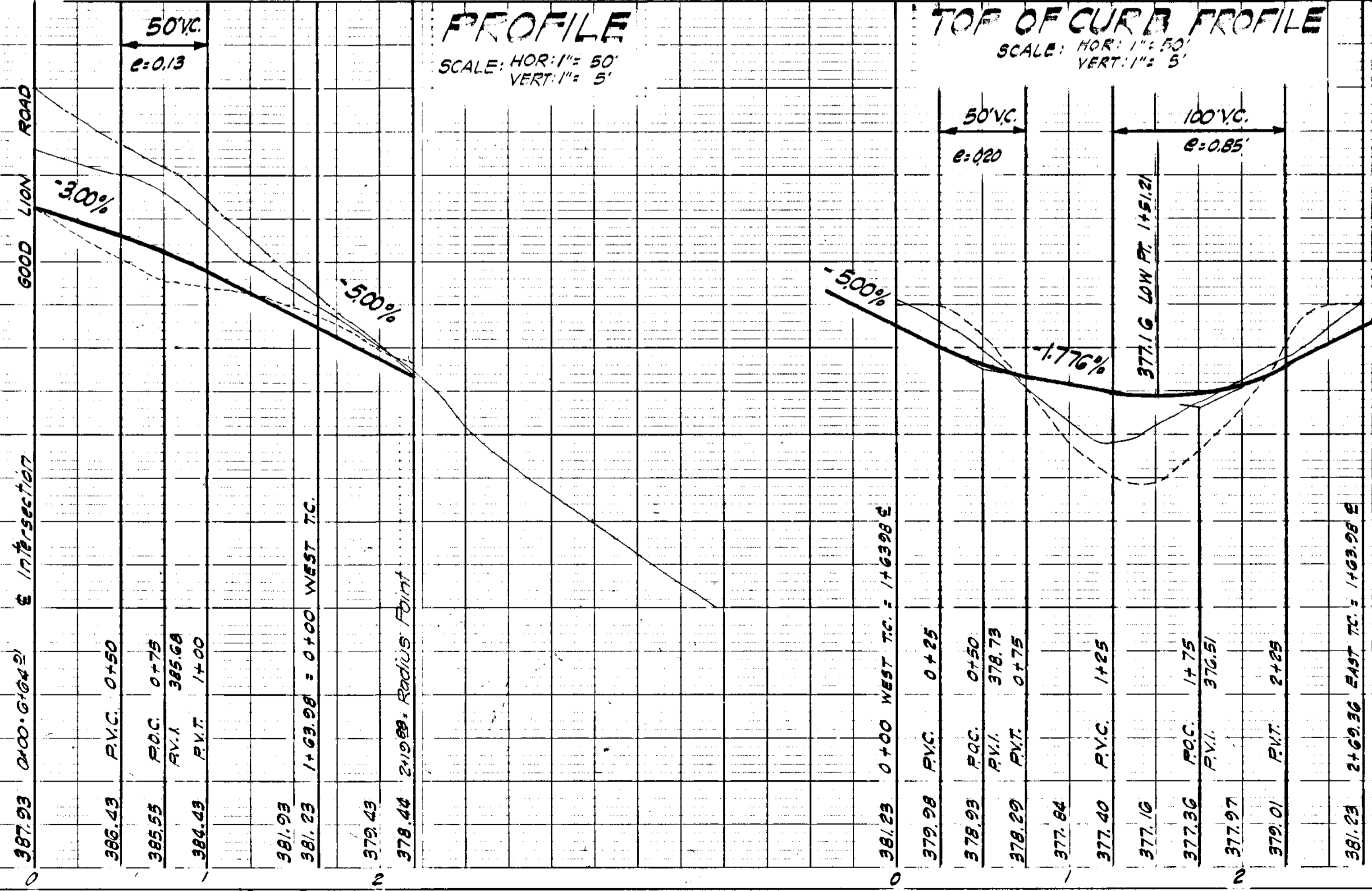
Des. By: A.W. MEMIS Scale: 1/8" = 1'-0" Dep. No: 12 of 33
 Dim. By: T.S. Date: 1/1/69 DC: CCL No.
 Chk. By: Approved

APPROVED
DIVISION OF LAND DEVELOPMENT
OFFICE OF PLANNING AND ZONING
HOWARD COUNTY
DATE: DEC 5 1968

LEGEND
EX. GROUND @
EX. GROUND @ 20' OFF RT. RW
EX. GROUND @ 20' OFF LT. RW
FINISHED GRADE @ PGL

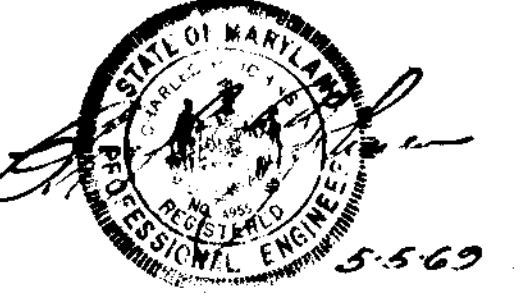
STORM DRAINAGE STRUCTURE SCHEDULE

NO.	TYPE	LOCATION	INV. IN	INV. OUT	TOP ELEV.	REMARKS
23	C. Erowall	As shown on plan	364.50			HO Co. Std. D-32, P-107
24	A-5" In. x W-2'6"	Curb Sto. 1+51	374.50		377.16	D-64A, P-119A



PLAN
SURVEYED BY: _____
NOTES CHECKED BY: _____
DATE: _____

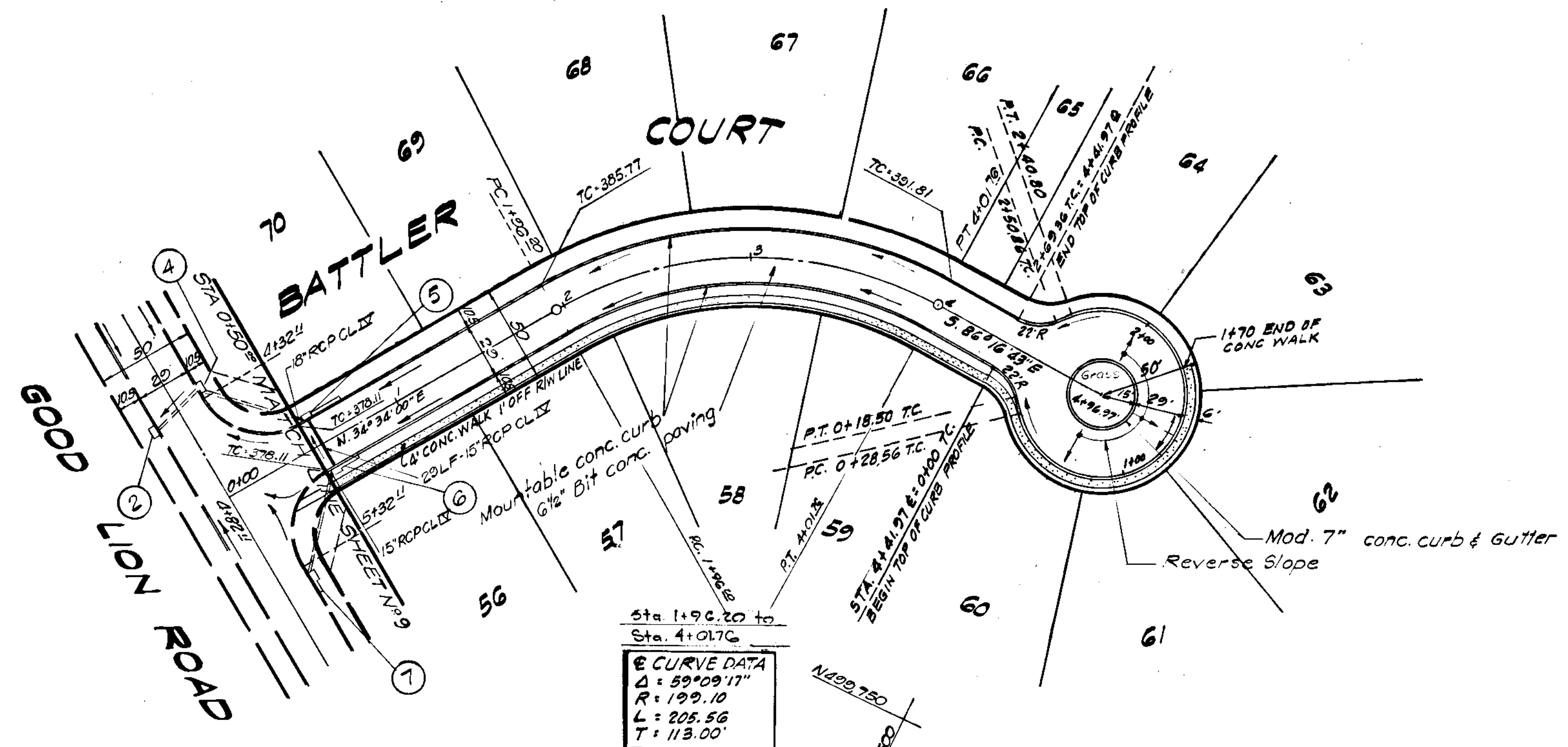
PROFILE
SURVEYED BY: _____
NOTES CHECKED BY: _____
DATE: _____



DATE	
BY	
NO.	
NO.	
NO.	
NO.	

DATE	
BY	
NO.	
NO.	
NO.	
NO.	

FLAN
SCALE: 1" = 50'



Sta 1+90.20 to Sta. 4+01.76

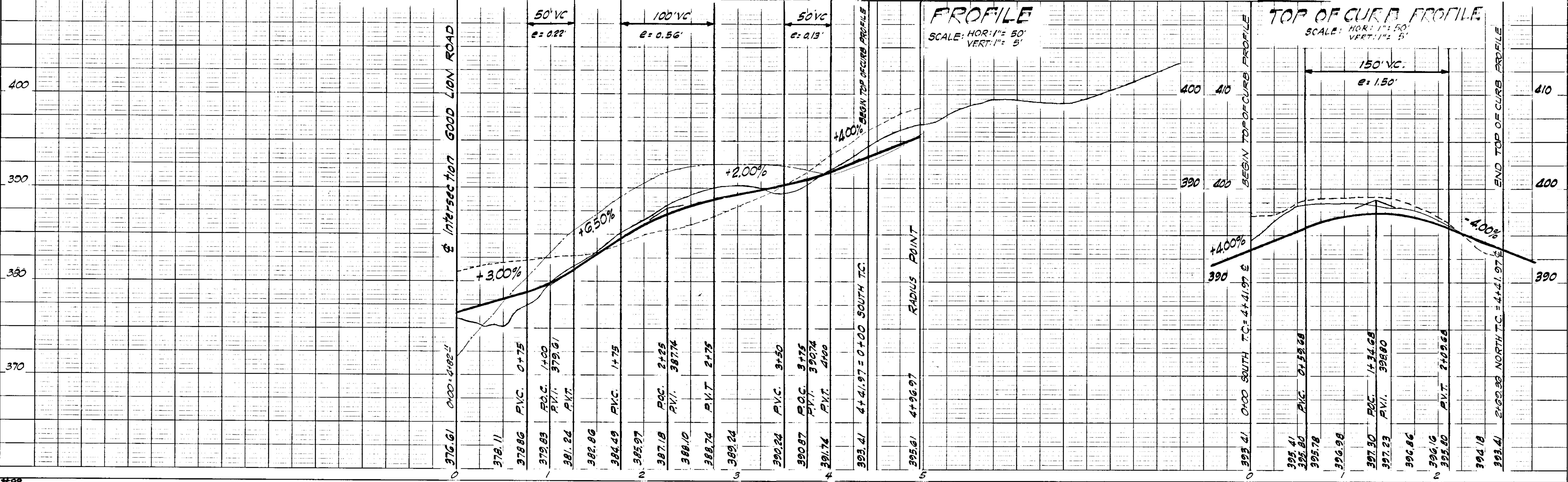
E CURVE DATA
Δ = 59°29'17"
R = 199.10
L = 205.56
T = 113.00

APPROVED
DIVISION OF
LAND DEVELOPMENT
OFFICE OF
PLANNING AND ZONING
OF HOWARD COUNTY
DATE: DEC. 5 1969

Rev Date	Rev No	Revision Description
COLUMBIA 6TH ELECTION DISTRICT HOWARD COUNTY MARYLAND		
HOWARD RESEARCH AND DEVELOPMENT CORP		
PROJECT AREA: VILLAGE OF OAKLAND MILLS SECTION 5, STEVEN'S FOREST, AREA 3		
PROJECT TITLE: PLAN AND PROFILE BATTLE COURT		
Des By	Scale	Proj No
Drn By	Date	Doc No
Chk By	Approved	
GREENHORN AND O'MARA, INC. ENGINEERS - ARCHITECTS - PLANNERS - SURVEYORS 6715 SUNBURY AVENUE RIVERDALE, MD.		
DEPARTMENT OF PUBLIC WORKS		
CHIEF, BUREAU OF HIGHWAYS		DATE
OFFICE OF PLANNING AND ZONING		
CHIEF ENGINEER, DIVISION OF LAND DEVELOPMENT		DATE
LEGEND		
EX. GROUND E		
EX. GROUND @ 20' OFF RT. RW		
EX. GROUND @ 20' OFF LT. RW		
FINISHED GRADE @ 1' SL		

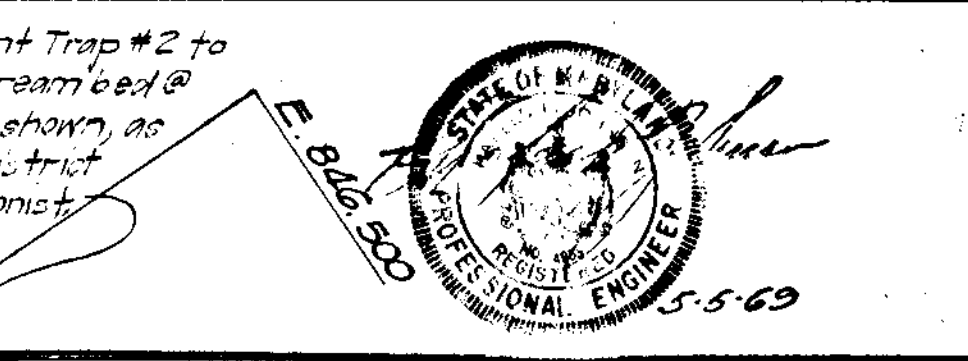
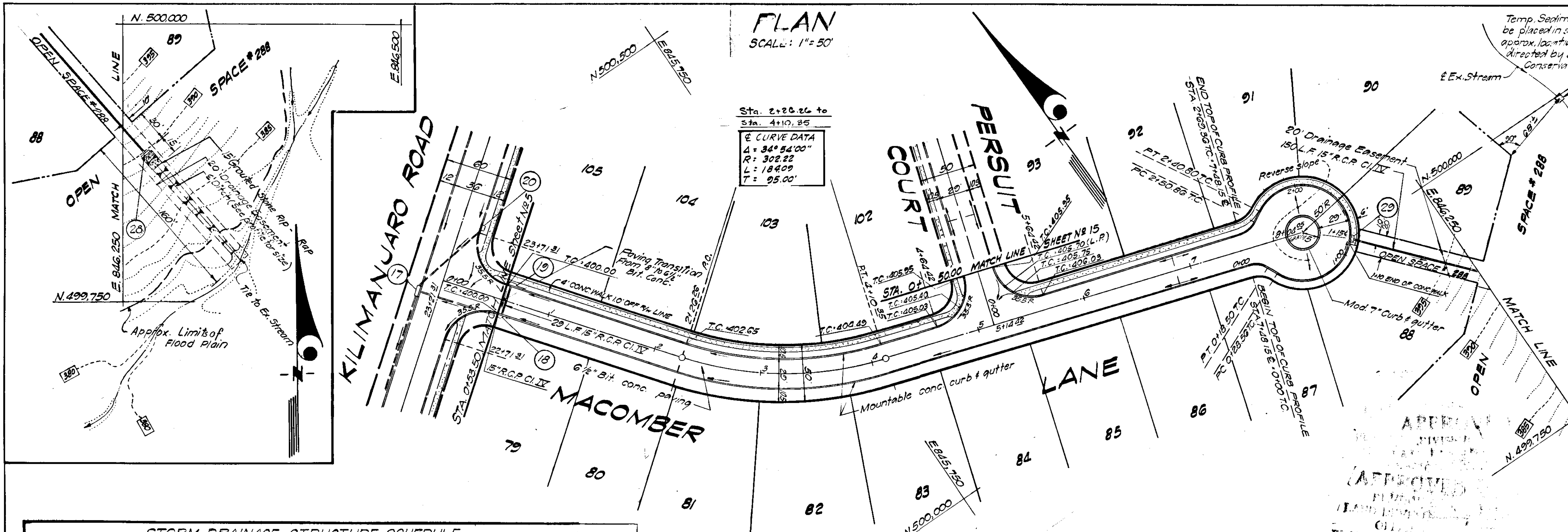
STORM DRAINAGE STRUCTURE SCHEDULE

No.	Type	Location	Inv. In	Inv. Out	1.01' Elev.	Remarks
5	"B-20" 2'-6" x 2'-6"	E Sta. 0+53 Lower Corner	374.91	374.00	5' 6" 50' 11"	Ho. Co. S+D D-6+6-P.1119B
6	"B-15" 2'-0" x 2'-0"	"	375.75	375.20	5' 0" 50' 11"	"



PLATT 1 PLAN, PROFILE & P.R. STANDARD
ENGINEERING CO., CHICAGO, ILL. U.S.A.

DATE	
BY	
PLAN	
NO.	
DATE	
BY	
PROFILE	
NO.	
DATE	
BY	
TOP OF CURB	
NO.	
DATE	
BY	



Rev Date: Rev No: Revision Description:

COLUMBIA
 GEORGETOWN, MARYLAND
 HOWARD COUNTY, MARYLAND

PROJECT AREA: VILLAGE OF OAKLAND MILLS
 SECTION 5, STEVENS FOREST, AREA 3

PROJECT TITLE: PLAN AND PROFILE
MACOMBER LANE

Des. By: R. W. McEMES Scale: AS SHOWN Page No. 14 of 33
 Dwn. By: T. E. GWC Date: AFK 1965 (C) No.
 Chk. By: Approved:

GREENHORN AND O'MARA, INC.
 ENGINEERS - ARCHITECTS - PLANNERS - SURVEYORS
 6715 SHELWORTH AVENUE RIVERDALE, MD.

DEPARTMENT OF PUBLIC WORKS
 CHIEF, BUREAU OF HIGHWAYS DATE:
 OFFICE OF PLANNING AND ZONING
 CHIEF ENGINEER, DIVISION OF LAND DEVELOPMENT, DATE:

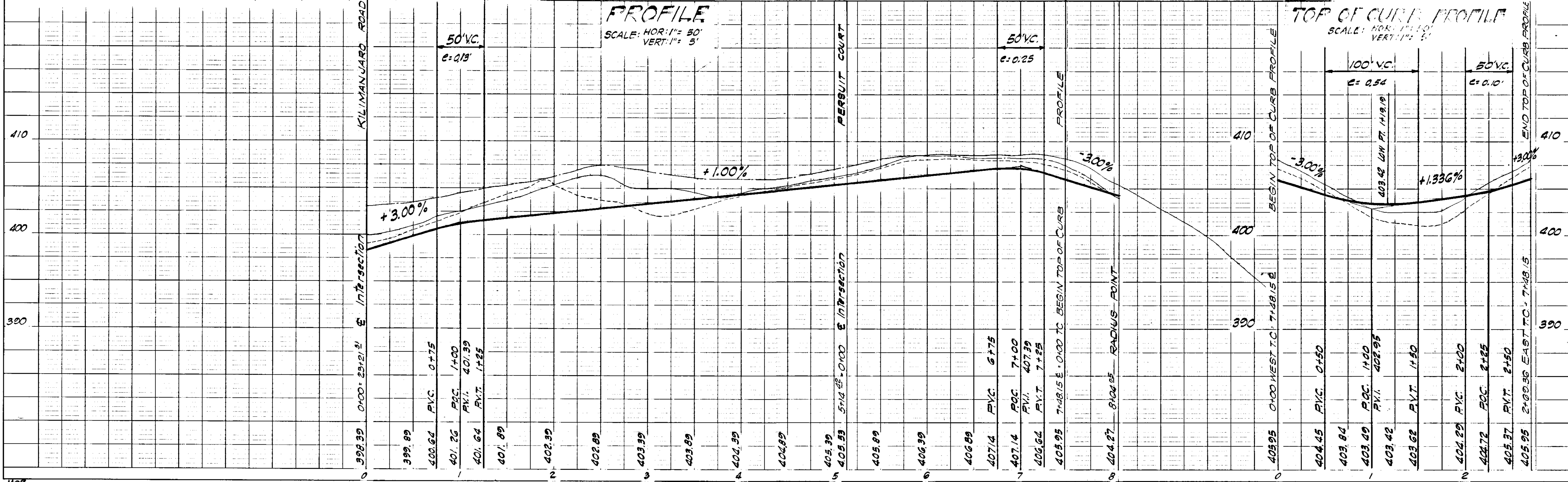
STORM DRAINAGE STRUCTURE SCHEDULE

NO.	TYPE	LOCATION	INV. IN	INV. OUT	1.0' ELEV.	REMARKS
18	"B-10" Inlet w/2'6"	3.500' of 11'0" RT	396.60	396.25	400.00	Ho. Co. Ltd D-64B, P-119B
19	"B-15" w/2'6"			396.75	400.00	" " " " " " " "
28	"C" Endwall	AS SHOWN ON PLAN	357.05		400.00	" " " " " " " "
29	"A 5" Inlet w/2'6"		400.50		408.42	" " " " " " " "

LEGEND

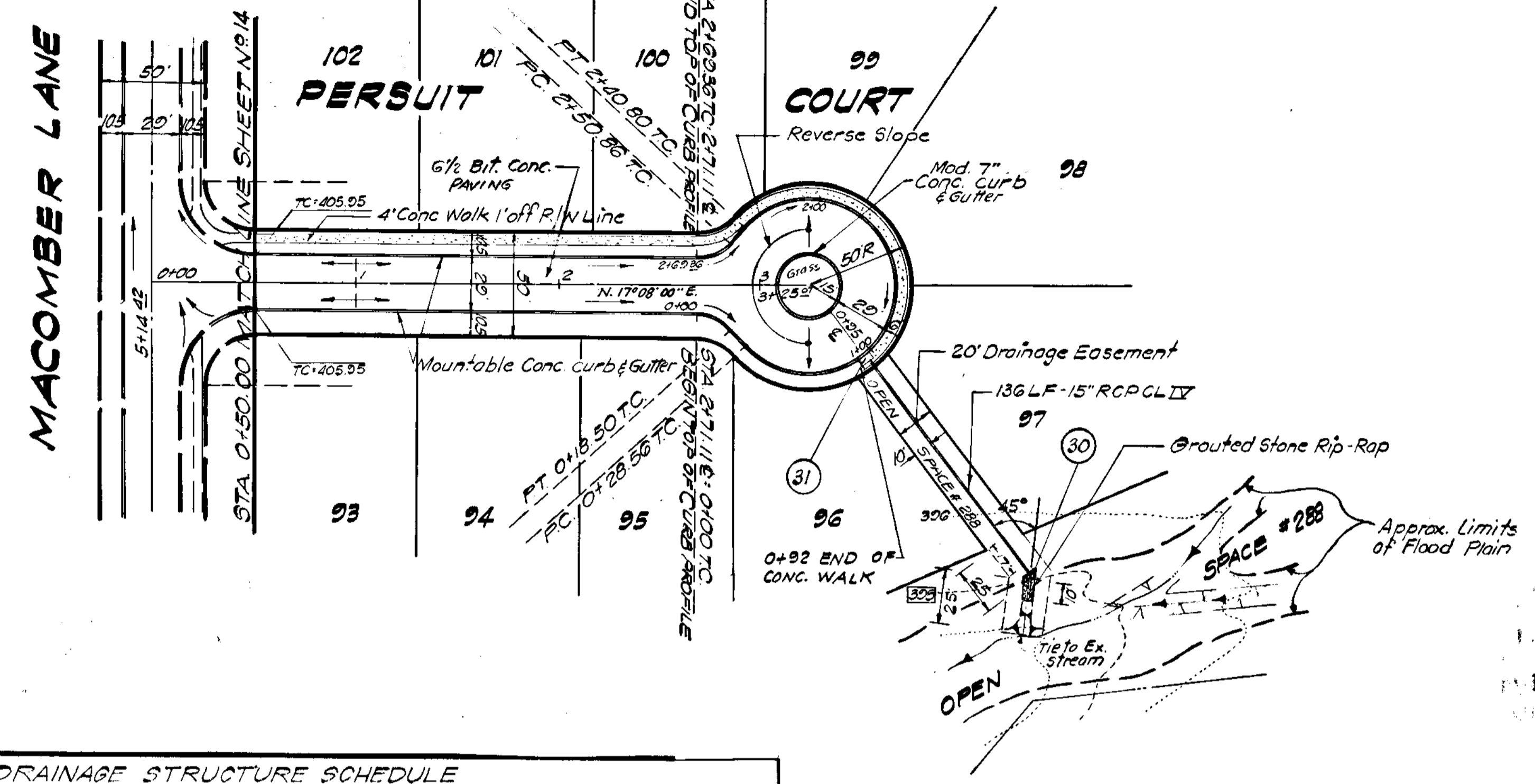
EX. GROUND:
 EX. GROUND: 8' TO 10' TO ROW
 EX. GROUND: 2' TO 12' TO ROW
 FINISHED GRADE: F&G

DATE	
BY	
PROFILE	
NO.	
DATE	
BY	
TOP OF CURB	
NO.	
DATE	
BY	





PLAN
SCALE: 1" = 50'



DATE	
BY	
NO.	
PLANNED	
GRADES CHECKED	
STRUCTURE NOTES CHECKED	

DATE	
BY	
NO.	
PLANNED	
GRADES CHECKED	
STRUCTURE NOTES CHECKED	

Rev. Date: Rev. No: Revision Description:

COLUWABA
6TH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

HOWARD RESEARCH AND DEVELOPMENT CORP

PROJECT AREA: VILLAGE OF OAKLAND MILLS
SECTION 5, STEVEN'S FOREST, AREA 3

PROJECT TITLE: **PERSUIT COURT**

Des. By: A.W. ASSUMES State AS-CONCA Date: 10/15/03
Dwn By: T.R.S. & G.W.C. Date: APRIL 1963, C.C.I. No.
Chk. By: Approved

GREENHORNE AND O'MARA, INC.
ENGINEERS - ARCHITECTS - PLANNERS - SURVEYORS
6715 KENILWORTH AVENUE RIVERDALE, MD.

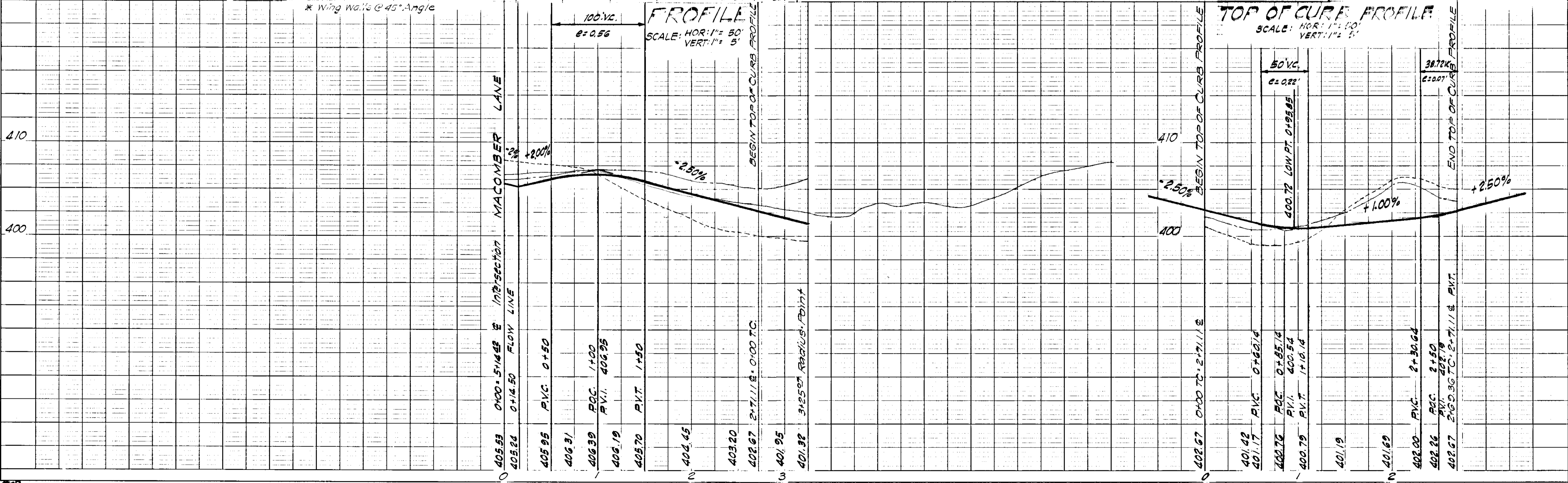
DEPARTMENT OF PUBLIC WORKS
CHIEF, BUREAU OF ENGINEERS DATE
OFFICE OF PLANNING AND ZONING
CHIEF ENGINEER, DIVISION OF LAND DEVELOPMENT DATE

LEGEND
EX. GROUND @ 8'
EX. GROUND @ 2' OFF R.W.
EX. GROUND @ 2' OFF L.R.W.
FINISHED GRADE @ P.S.L.

STORM DRAINAGE STRUCTURE SCHEDULE

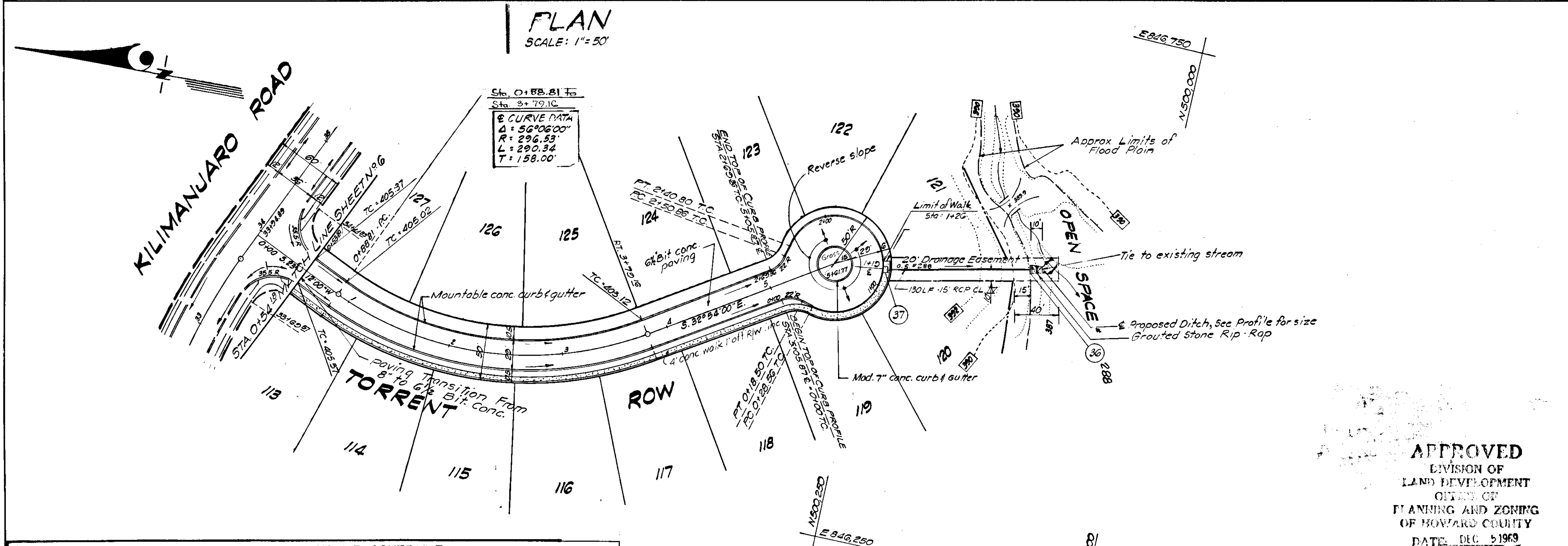
NO.	TYPE	LOCATION	INV. IN	INV. OUT	TOP ELEV.	REMARKS
80	6" ENLOW * AS SHOWN ON PLAN	AS SHOWN ON PLAN	394.26		400.00	Ho Co. 6" x 4" D-61-118 *
81	12" x 12" x 6" W=2.6" FILLER STA 0+95	FILLER STA 0+95	399.00		400.73	" " " " D-64A, DT. 9A

* Wing Walls @ 45° Angle





PLAN
SCALE: 1" = 50'



Rev. Date	Rev. No.	Revision Description

COLUMBIA
 CIVIL ENGINEERING DISTRICT
 HOWARD COUNTY, MARYLAND

HOWARD RESEARCH AND DEVELOPMENT CORP.

PROJECT AREA: VILLAGE OF OAKLAND MILLS SECTION 5, STEVEN'S FOREST, AREA 3

PROJECT TITLE: PLAN AND PROFILE TORRENT ROW

Des. By: R. W. ARTHUR, Scale 1/8" = 1'-0", Date: APRIL 1968, Draw No. 16 of 33
 Dim. By: R. W. ARTHUR, Scale 1/8" = 1'-0", Date: APRIL 1968, C.C.T. No.
 Chk. By: Approved

GREENHORN AND O'MARA, INC.
 ENGINEERS - ARCHITECTS - PLANNERS - SURVEYORS
 6715 SHELWORTH AVENUE, RIVERDALE, MD.

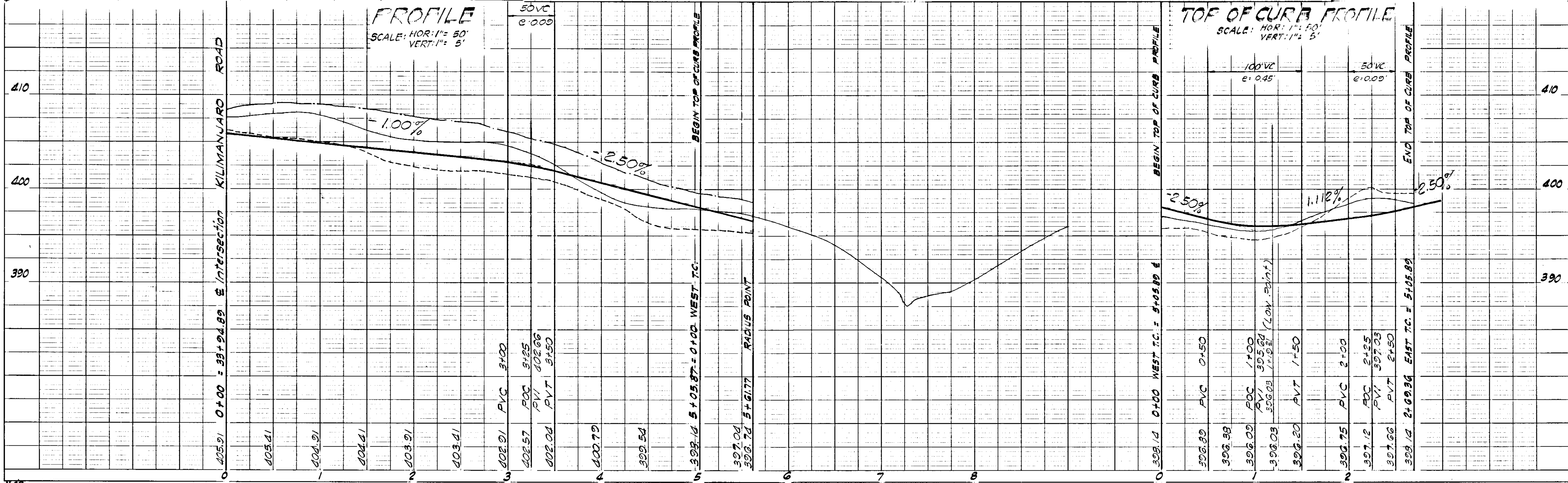
DEPARTMENT OF PUBLIC WORKS
 CHIEF, BUREAU OF HIGHWAYS DATE: _____
 OFFICE OF PLANNING AND ZONING DATE: _____
 CHIEF ENGINEER, DIVISION OF LAND DEVELOPMENT, DATE: _____

APPROVED
 DIVISION OF LAND DEVELOPMENT
 OFFICE OF PLANNING AND ZONING
 OF HOWARD COUNTY
 DATE: DEC. 5, 1968

LEGEND
 EX. GROUND @ 8'
 EX. GROUND @ 20' OFF RT. R/W
 EX. GROUND @ 20' OFF LT. R/W
 FINISHED GRADE @ FGL

STORM DRAINAGE STRUCTURE SCHEDULE

NO.	TYPE	LOCATION	INV. IN	INV. OUT	TOT. ELEV.	REMARKS
36	C-Endwall	As shown on plan	387.11			Ho Co. S-4 D-52 P-107
37	A-5 Inlet w=2'-6"	Curb Sta. 1+19.8 & Inlet	388.61		396.03	D-64A P-119-A

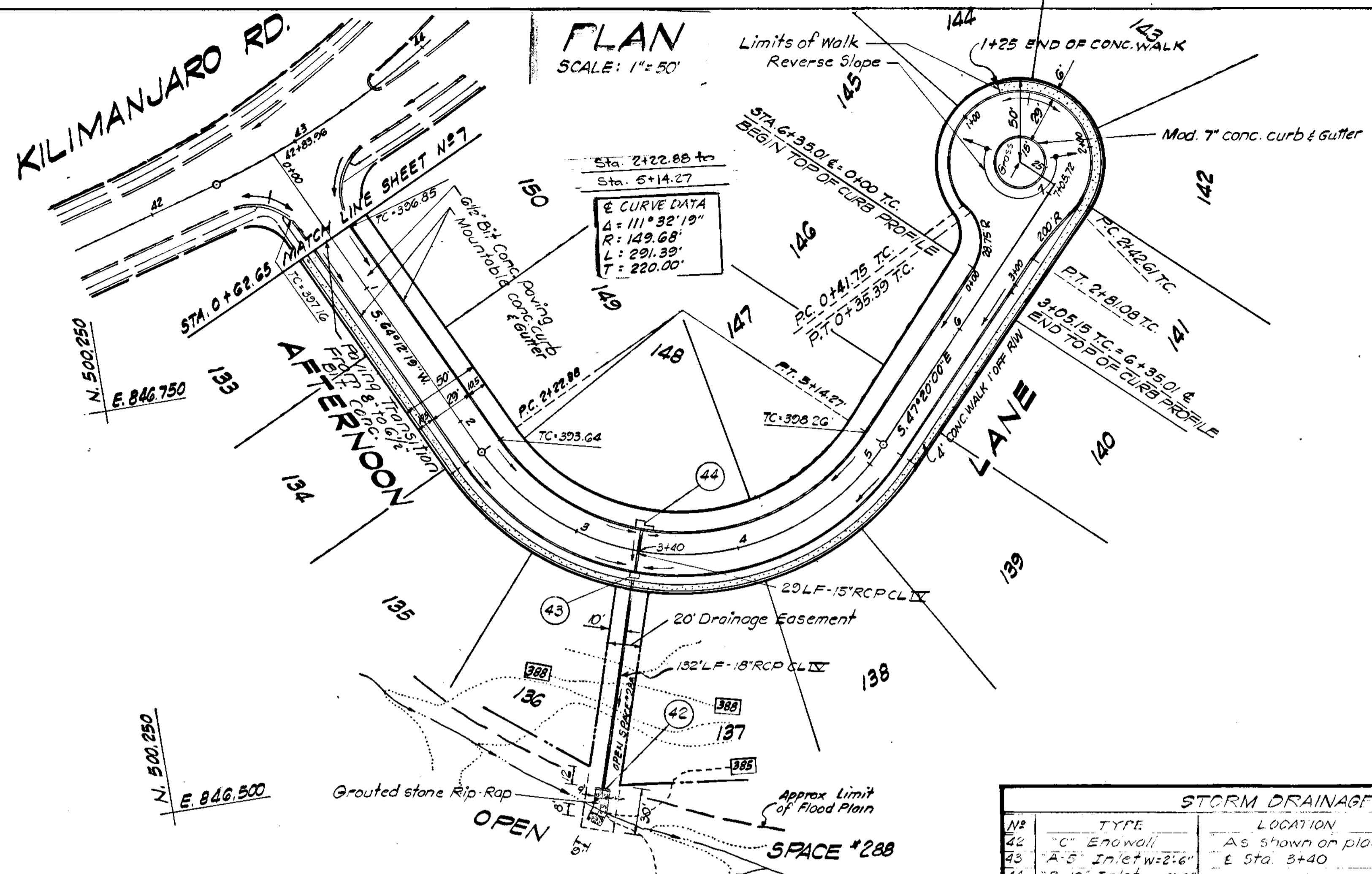


DATE	BY	REVISION

DATE	BY	REVISION



N. 499,250
E. 846,750



FLAN
SCALE: 1"=50'

STATIONING
Sta. 2+22.88 to
Sta. 6+14.27
E CURVE DATA
Δ = 111° 32' 19"
R = 149.68'
L = 291.39'
T = 220.00'

No.	TYPE	LOCATION	INV. IN	INV. OUT	I.C. ELEV.	REMARKS
42	C' Erowall	AS SHOWN ON PLAN	—	385.19	—	HO CO., S'D D 52 P 107
43	A-5 Inlet w=2'-6"	E Sta. 3+40	387.86	387.30	391.70	D 64A P 119A
44	S-10 Inlet w=2'-6"		—	388.50	—	D 64B P 119B

APPROVED
DIVISION OF
LAND DEVELOPMENT
OFFICE OF
PLANNING AND ZONING
OF HOWARD COUNTY
DATE: DEC 5 1973

Rev. Date Rev. No. Revision Description

COLUMBIA
6th ELECTION DISTRICT
HOWARD COUNTY MARYLAND

HOWARD RESEARCH AND DEVELOPMENT CORP.
THE VILLAGE OF OAKLAND MILLS, BETHESDA, MARYLAND

PROJECT AREA: VILLAGE OF OAKLAND MILLS
SECTION 5, STEVEN'S FOREST, AREA 3

PROJECT TITLE: PLAN AND PROFILE
AFTERNOON LANE

Des. By: K. W. MEMES, Scale: AS SHOWN, Date: NOV 17 1973
Dir. By: K. E. GWC, Date: APRIL 1973, No. 1001
Chk. By: Approved

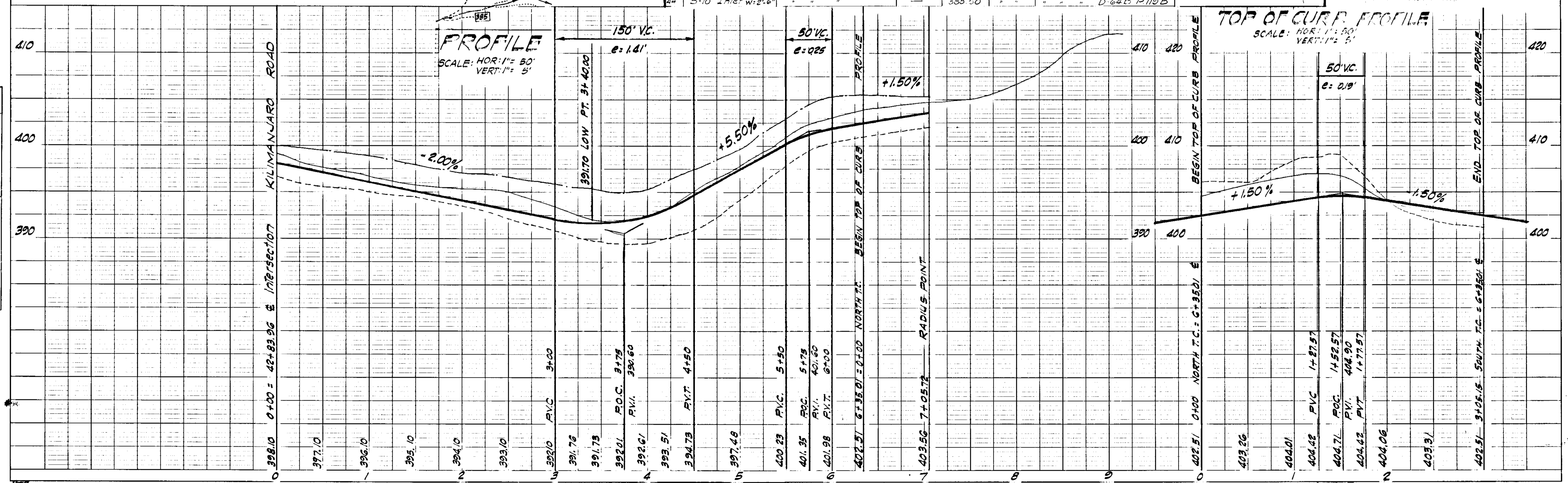
GREENHORN AND O'MARA, INC.
ENGINEERS - ARCHITECTS - PLANNERS - SURVEYORS
6715 SUNSHINE AVENUE RIVERDALE, MD.

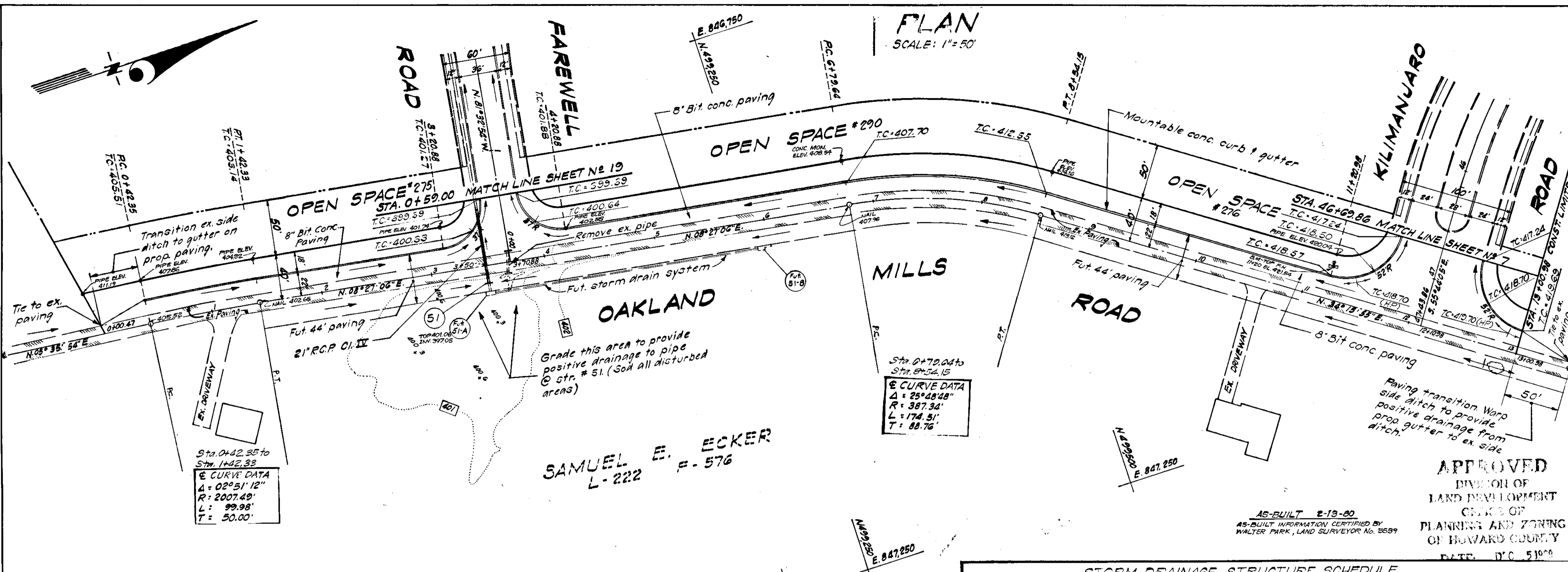
DEPARTMENT OF PUBLIC WORKS
CHIEF, BUREAU OF THE DATE
OFFICE OF PLANNING AND ZONING
CHIEF, ENGINEER, DIVISION OF LAND DEVELOPMENT

LEGEND
EX. GROUND 5' ±
EX. GROUND 6' 20" OFF RD. RW.
EX. GROUND 6' 20" OFF LD. RW.
FINISHED GRADE & PGL

PLAN
CHECKED BY: []
DATE: []
NOTE BOOK NO. []
SCALE: []
BY: []

PROFILE
CHECKED BY: []
DATE: []
NOTE BOOK NO. []
SCALE: []
BY: []





SAMUEL E. ECKER
L-222 P-576

PLAN
SCALE: 1"=50'

Rev. Date: Rev. No.: Revision Description:

COLUWANA, INC.
6TH ELECTION DISTRICT
HOWARD COUNTY MARYLAND

HOWARD RESEARCH AND DEVELOPMENT CORP.
THE VILLAGE OF OAKLAND, BETHESDA, MARYLAND 20814

PROJECT AREA: **VILLAGE OF OAKLAND MILLS**
SECTION 3, STEVEN'S FOREST, AREA 3

PROJECT TITLE: **PLAN AND PROFILE OAKLAND MILLS ROAD**

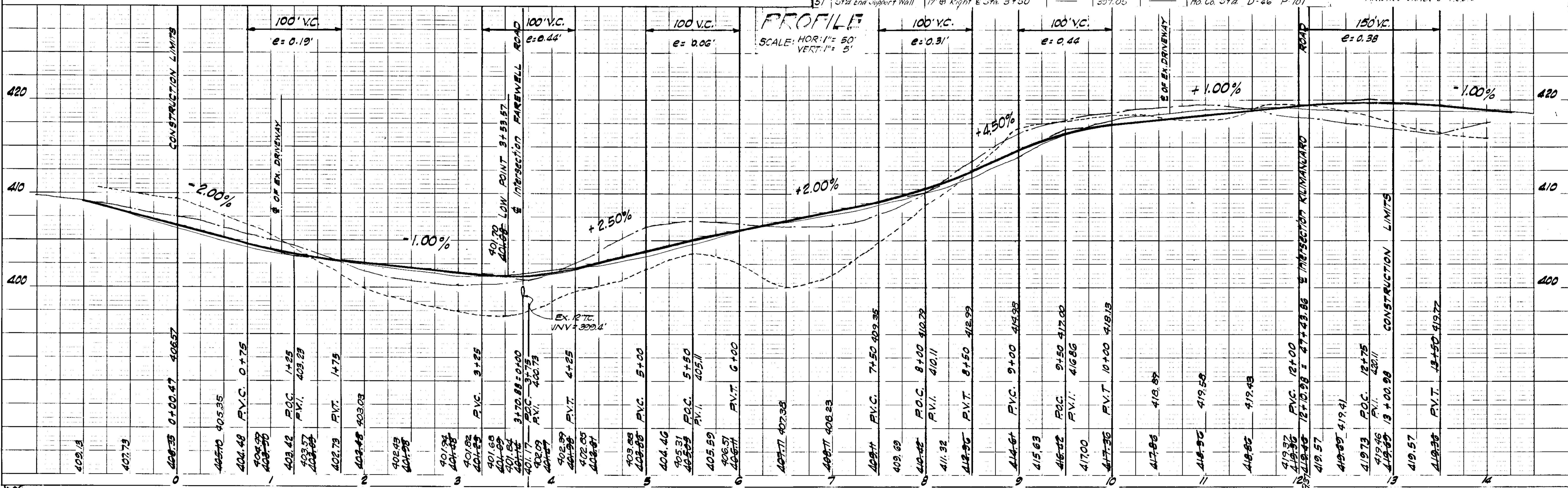
Des. By: K.W. MEYERS Scale: AS SHOWN Date: APRIL 1968
Dwn. By: J.E. GWG Date: APRIL 1968
Chk. By: Approved

GREENHORN AND O'MARA, INC.
ENGINEERS - ARCHITECTS - PLANNERS - SURVEYORS
6715 KENILWORTH AVENUE RIVERDALE, MD.

DEPARTMENT OF PUBLIC WORKS
CHIEF, BUREAU OF HIGHWAYS DATE:
OFFICE OF PLANNING AND ZONING DATE:
CITY ENGINEER, DIVISION OF LAND DEVELOPMENT DATE:

STORM DRAINAGE STRUCTURE SCHEDULE

NO.	TYPE	LOCATION	INV. IN	INV. OUT	T.O.P. ELEV.	REMARKS
51	57th End Support Wall	17' @ Right @ Sta. 3+50		397.05		No. Co. 57th D-46 P 101

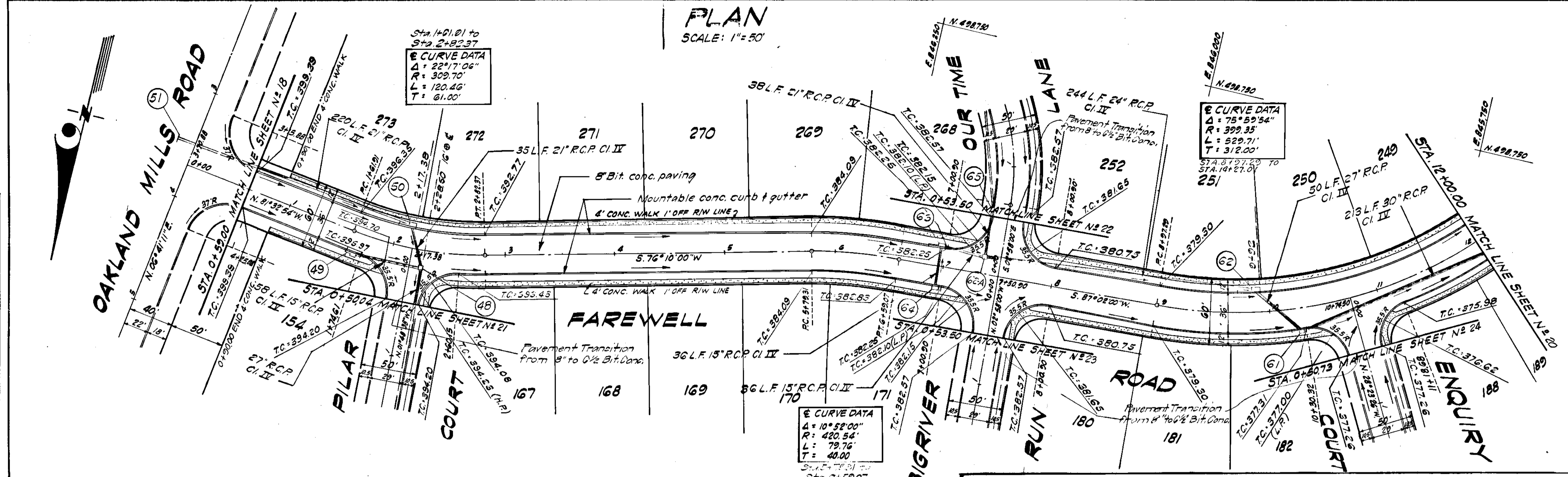


LEGEND

EX. GROUND @ 5'
EX. GROUND @ 20' OFF RT. RW.
EX. GROUND @ 20' OFF LT. RW.
FINISHED GRADE @ P.G.L.



PLAN
SCALE: 1"=50'



Rev. Date: Rev. No: Revision Description:

COLUMBIA
6TH ELECTION DISTRICT
HOWARD COUNTY MARYLAND

OWNER AND DEVELOPER:
HOWARD RESEARCH AND DEVELOPMENT CORP.
THE VILLAGE OF CROSS KEYS - BALTIMORE MARYLAND 21210

PROJECT AREA:
VILLAGE OF OAKLAND MILLS
SECTION 5, STEVEN'S FOREST, AREA 3

PROJECT TITLE:
PLAN AND PROFILE
FAREWELL ROAD

Des. By: R.W. MEMLS Scale AS SHOWN Dwg. No. 19 OF 33
 Dwn. By: TRT:EGWC Date: APRIL 1963 C.C.F. No.
 Chk. By: Approved

GREENHORNE AND O'MARA, INC.
ENGINEERS - ARCHITECTS - PLANNERS - SURVEYORS
6715 KENILWORTH AVENUE RIVERDALE, MD.

DEPARTMENT OF PUBLIC WORKS
CHIEF, BUREAU OF HIGHWAYS DATE:
OFFICE OF PLANNING AND ZONING DATE:
CHIEF ENGINEER DIVISION OF LAND DEVELOPMENT, DATE:

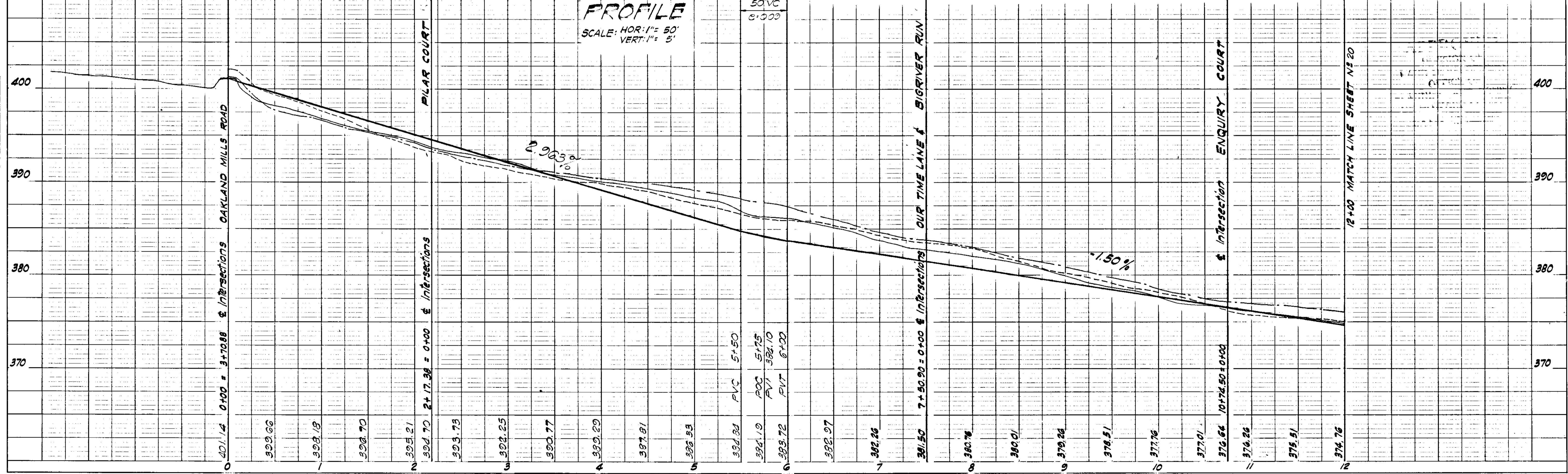
STORM DRAINAGE STRUCTURE SCHEDULE

No.	TYPE	LOCATION	INV. IN	INV. OUT	T.O.P. ELEV.	REMARKS
48	B Manhole 48" 59	As shown on plan	389.55	389.42	Prop'd 389.50	WS.S.C. STM. (See detail sht. 33 of 33)
49	B-10 Inlet W=2'-6"	@ Sta. 11+71.01 lower corner	392.00	392.00	Upper 388.36	Ho. Co. STM. D-64-B, P-119-B
50	B-15 Inlet W=4'-4"	@ Sta. 17+28 "	391.00	390.34	Upper 384.74	"
61	B-10 Inlet W=3'-0"	@ Sta. 10+27.32 "	371.90	371.00	Upper 374.50	"
62	B-20 Inlet W=4'-8"	@ Sta. 9+92 "	372.81	372.40	Upper 374.18	"
62A	B Manhole 48" 59	As shown on plan	376.18	376.00	Prop'd 376.53	WS.S.C. STM. (See detail sht. 33 of 33)
63	B-15 Inlet W=2'-6"	@ Sta. 6+197.90 lower corner	376.82	376.00	Upper 382.56	Ho. Co. STM. D-64-B, P-119-B
64	A-5 Inlet W=2'-6"	@ Sta. 6+197.90 "	375.00	375.00	Upper 382.56	D-64-A, P-119-A

LEGEND

EX. GROUND @ -
 EX. GROUND @ 20' OFF RT. R/W -
 EX. GROUND @ 20' OFF LT. R/W -
 FINISHED GRADE @ P.G.L. -

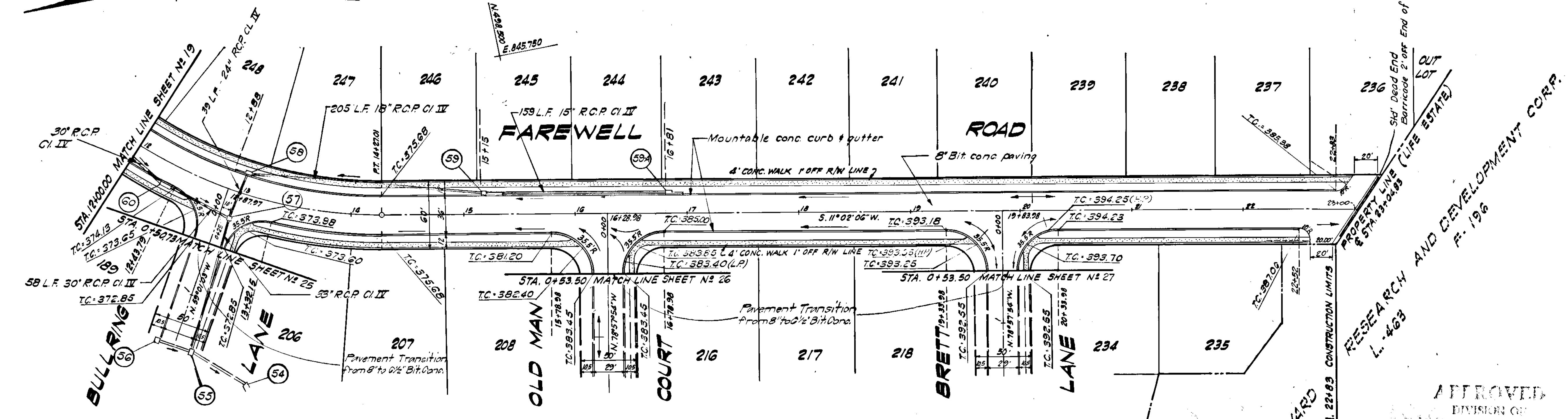
PROFILE
SCALE: HOR: 1"=50' VERT: 1"=5'





PLAN
SCALE: 1" = 50'

STA. 8+97.29 TO
STA. 14+27.01
E CURVE DATA
Δ = 75°59'54"
R = 399.35'
L = 529.71'
T = 312.00'



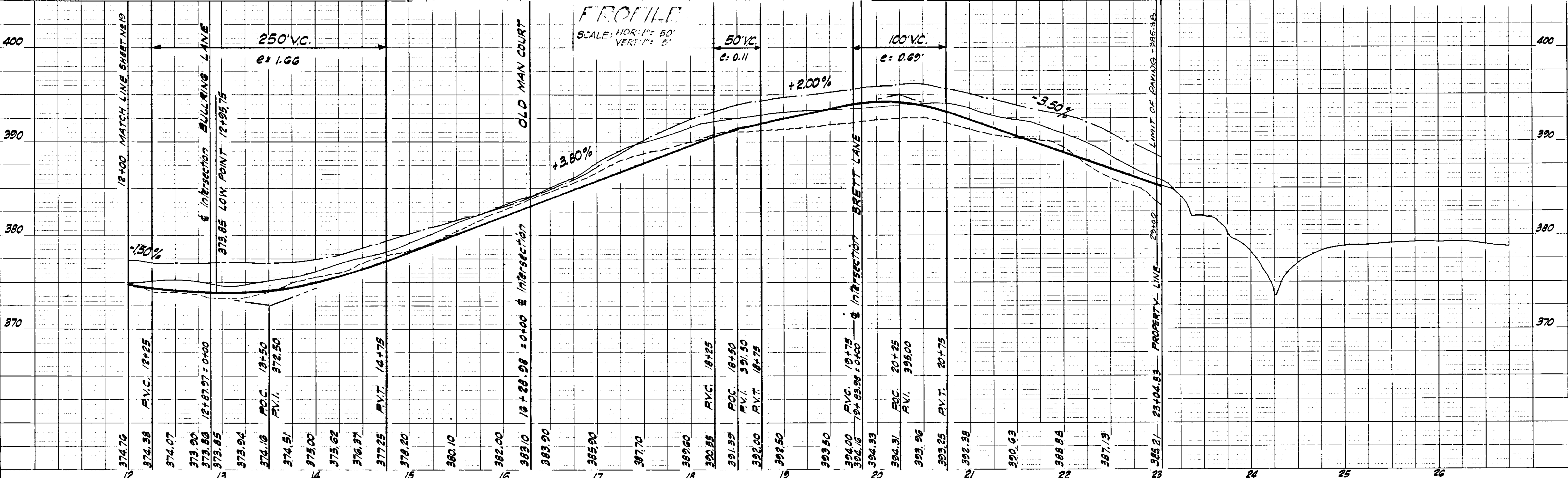
DATE	
BY	
DESIGNED	
PLOTTED	
GRADES CHECKED	
NOTE BOOK	
NO.	

Rev. Date	Rev. No.	Revision Description
COLUMBIA		
6-TH ELECTION DISTRICT HOWARD COUNTY MARYLAND		
OWNED AND DEVELOPED BY HOWARD RESEARCH AND DEVELOPMENT CORP. THE VILLAGE OF OAKLAND MILLS, BALTIMORE, MARYLAND 21210		
PROJECT AREA VILLAGE OF OAKLAND MILLS SECTION 5, STEVEN'S FOREST, AREA 3		
PROJECT TITLE PLAN AND PROFILE FAREWELL ROAD		
Des. By: R.W. MEMIS Scale: AS SHOWN		Drawn No: 20 of 33
Dwn. By: TRF-GWC		Date: APRIL 1968 C.C.T. No.
Chk. By: Approved		
GREENHORN AND O'MARA, INC. ENGINEERS - ARCHITECTS - PLANNERS - SURVEYORS 6715 KENILWORTH AVENUE RIVERDALE, MD.		
DEPARTMENT OF PUBLIC WORKS		
CHIEF, BUREAU OF HIGHWAYS		
OFFICE OF PLANNING AND ZONING		
DATE: DEC. 5, 1968		

STORM DRAINAGE STRUCTURE SCHEDULE

NO.	TYPE	LOCATION	INV. IN	INV. OUT	TOP ELEV.	REMARKS
60	A-10 Inlet w=3'-4"	E Sta. 12+40.79 Lower Corner	370.22	369.58	374.50	Ho. Co. Sta. D-64-A, P-119-A
59A	B-15 Inlet w=2'-6"	E Sta. 16+81	381.79	381.79	386.66	" " " D-64-B, P-119-B
59	B-20 Inlet w=4'-0"	E Sta. 15+15	375.75	375.15	385.04	" " " D-64-B, P-119-B
58	B-15 Inlet w=2'-6"	E Sta. 15+188	370.00	369.45	378.59	" " " D-64-B, P-119-B
57	B-Manhole 48" dia	E Sta. 0+25 10' Lt. E	369.00	367.60	372.85	W.S.S.C. Sta. See detail SH. 330733

PROFILE
SCALE: HOR: 1" = 50'
VERT: 1" = 5'



DATE	
BY	
DESIGNED	
PLOTTED	
GRADES CHECKED	
NOTE BOOK	
NO.	

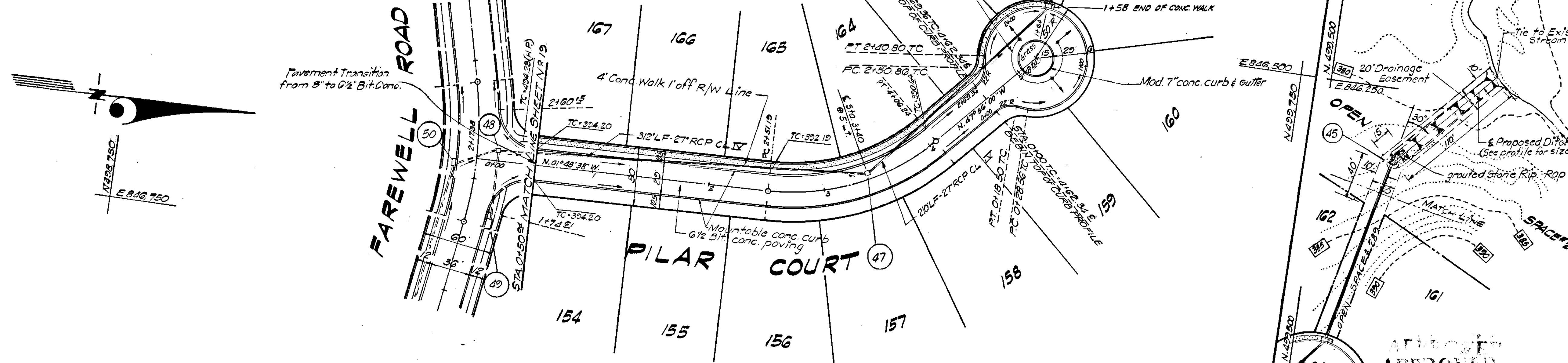


PLAN

SCALE: 1" = 50'

Sta. 2+51.19 to
Sta. 4+06.24

± CURVE DATA
 $\Delta = 46^{\circ}07'22''$
 $R = 192.61$
 $L = 155.05$
 $T = 82.00'$



Rev. Date: Rev. No. Revision Description

COLUMBIA
 CIVIL ENGINEERING DISTRICT
 HOWARD COUNTY, MARYLAND

HOWARD RESEARCH AND DEVELOPMENT CORP.

PROJECT TITLE: **VILLAGE OF OAKLAND MILLS**
 SECTION 5, STEVENS FOREST, AREA 3

PROJECT: **PLAN AND PROFILE**
PILAR COURT

Des. By: **AS/AC/MS/SL** Date: **7/21/68** Draw No: **2104-33**
 Dir. By: **AS/AC/MS/SL** Date: **7/21/68** Date of Issue: **7/21/68**
 Chk. By: **AS/AC/MS/SL** Date: **7/21/68**

GREENHORNE AND O'MARA, INC.
 ENGINEERS - ARCHITECTS - PLANNERS - SURVEYORS
 6715 SENECA AVENUE, FIVERDALL, MD.

DEPARTMENT OF PUBLIC WORKS

CHIEF, BUREAU OF PLANNING AND ZONING DATE: _____
 OFFICE OF PLANNING AND ZONING
 CHIEF ENGINEER, DIVISION OF LAND DEVELOPMENT, DATE: _____

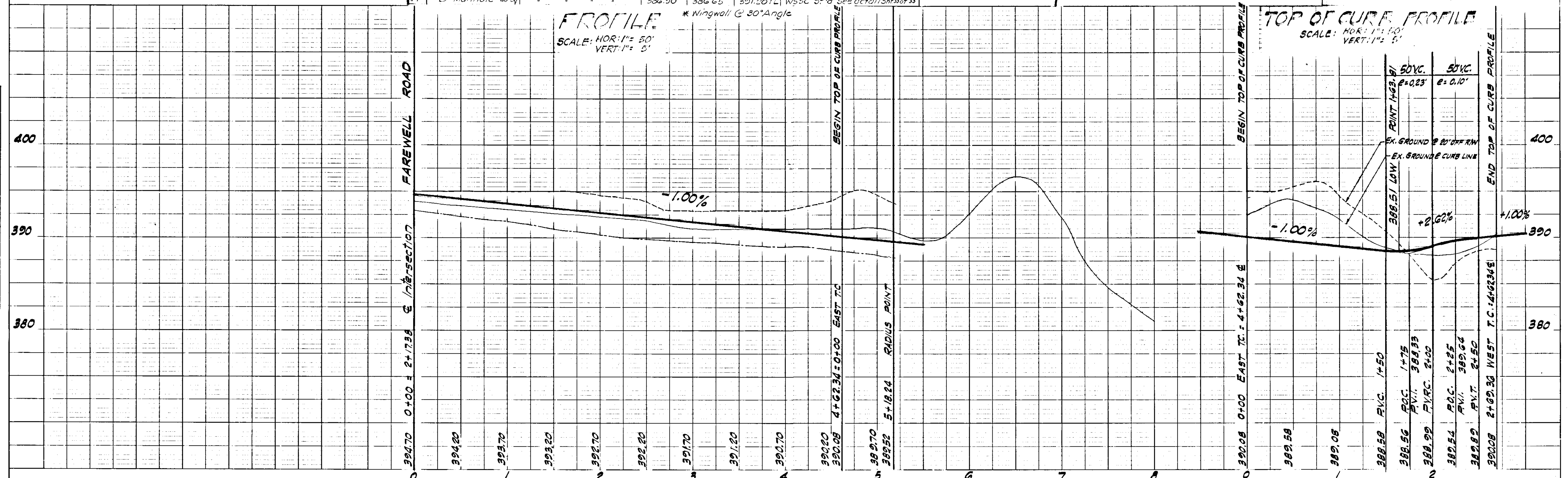
STORM DRAINAGE STRUCTURE SCHEDULE

No.	TYPE	LOCATION	INV. IN	INV. OUT	10' ELEV.	REMARKS
45	6" Endwall *	As shown on plan	379.15	379.15	380.00	Ho. Co. Sta. 0 D-61, P-110 *
46	4.5" Inlet w/ 6" *	"	384.35	383.50	383.51	" " " " D-62A, P-110A
47	6" Manhole 48" sq	"	386.90	386.65	391.20	WSB 5" x 5" See Detail 5/15/30/33

* Wingwall @ 30° Angle

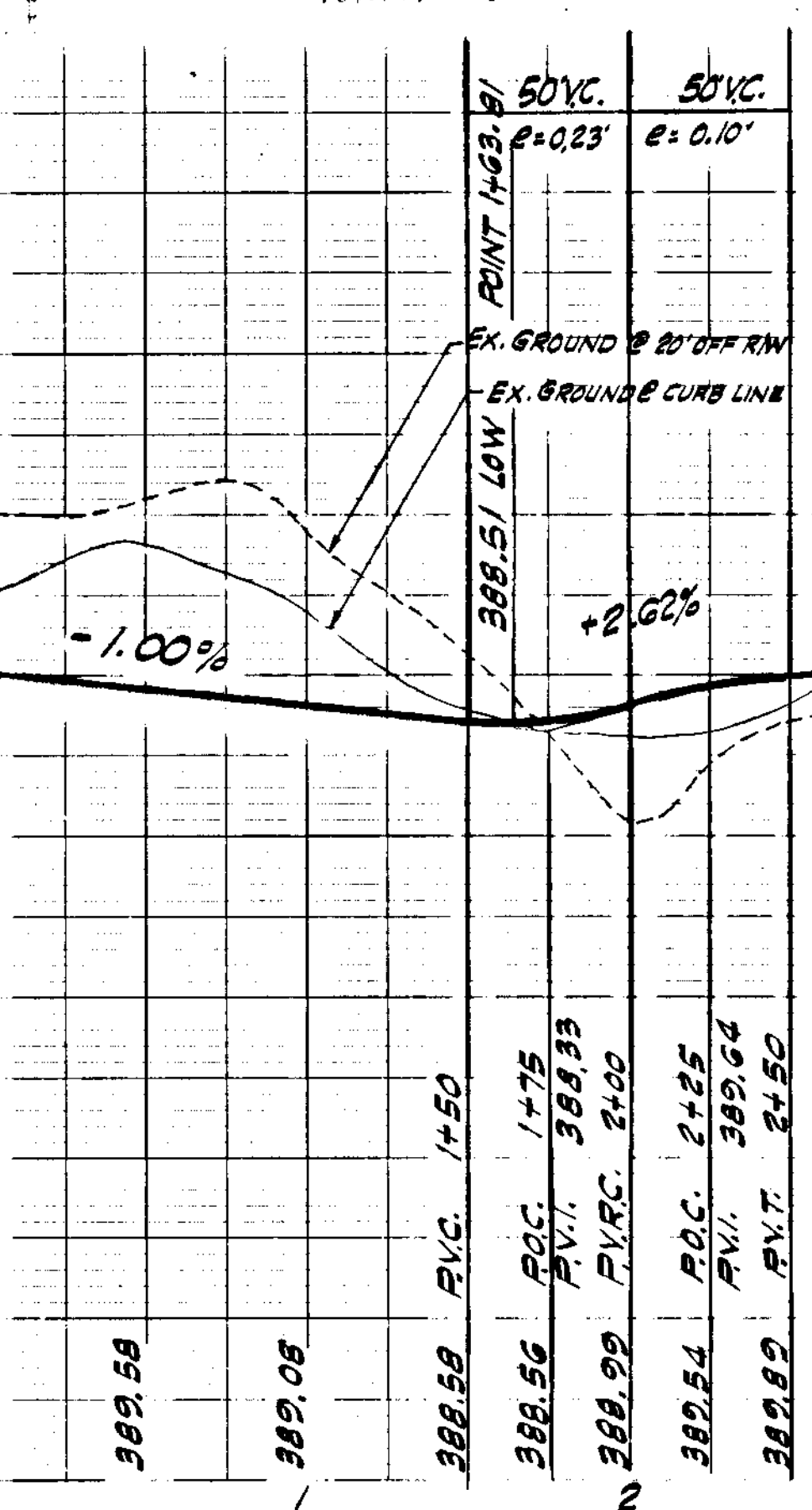
PROFILE

SCALE: HOR: 1" = 50'
 VERT: 1" = 5'



TOP OF CURB PROFILE

SCALE: HOR: 1" = 50'
 VERT: 1" = 5'

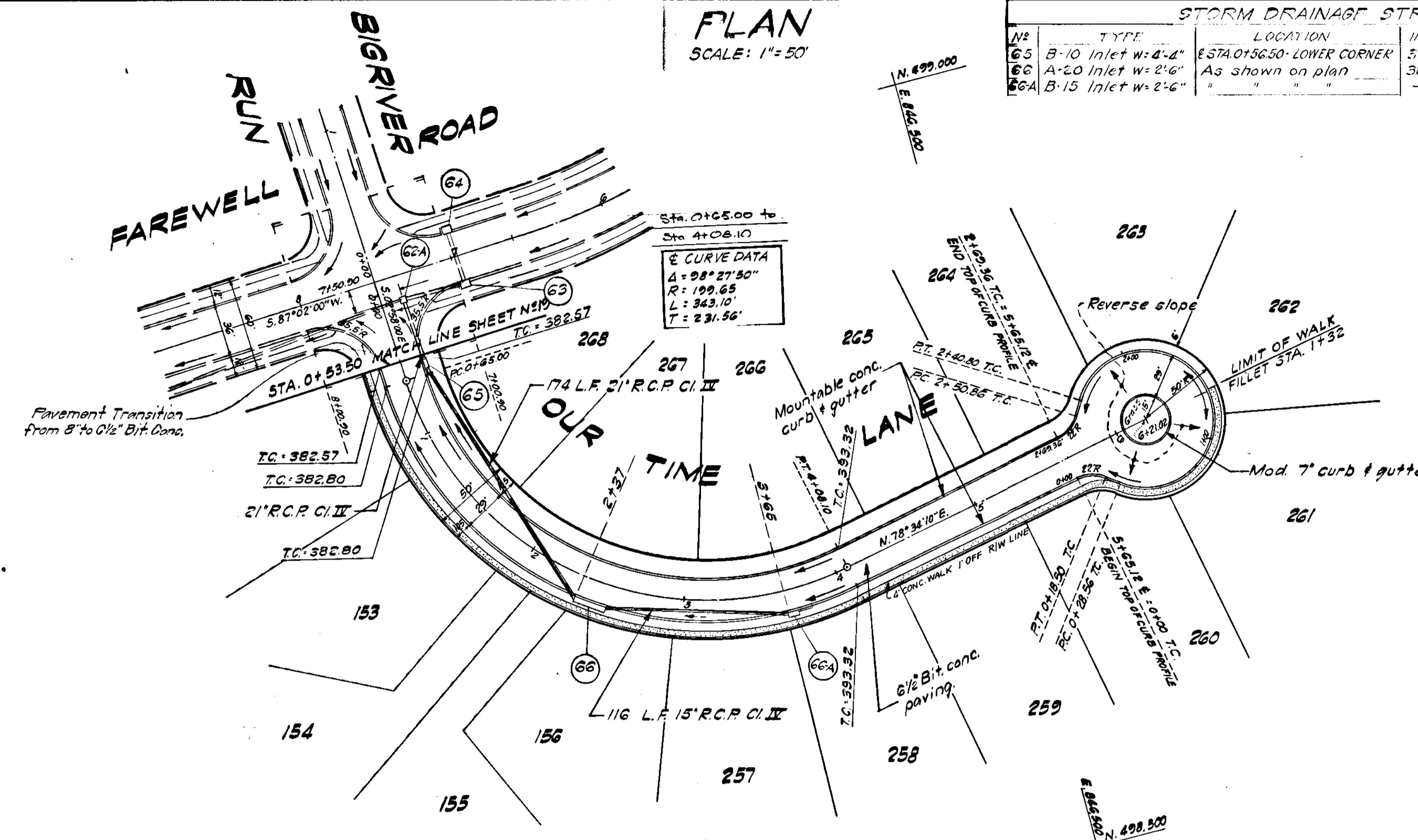


PILAR COURT
VILLAGE OF OAKLAND MILLS 56-1481



No.	TYPE	LOCATION	INV. IN	INV. OUT	VERT. ELEV.	REMARKS
65	B-10 Inlet w: 4'-4"	E STA. 0+56.50 - LOWER CORNER	379.42	378.75	Upper 382.63 Lower 382.63	No. Co. Sta. D-64-B, P-119-B
66	A-20 Inlet w: 2'-6"	As shown on plan	383.84	382.90	Upper 382.58 Lower 382.58	" " " D-64-A, P-119-A
66A	B-15 Inlet w: 2'-6"	" " "	" " "	388.25	Upper 391.20 Lower 391.20	" " " D-64-B, P-119-B

PLAN
SCALE: 1" = 50'



Rev. No.	Rev. Description

COLUMBIA
 GEORGETOWN DISTRICT
 HOWARD COUNTY, MARYLAND

HOWARD RESEARCH AND DEVELOPMENT CORP.

PROJECT AREA: VILLAGE OF OAKLAND MILLS
 SECTION 5, STEVEN'S FOREST, AREA 3

PROJECT TITLE: PLAN AND PROFILE
OUR TIME LANE

Des. By: R.W. NICHOLS Scale: AS SHOWN Date: APRIL 1968
 Dwn. By: J.E.G. Date: APRIL 1968
 Chk. By: Approved

GREENHORNE AND O'MARA, INC.
 ENGINEERS - ARCHITECTS - PLANNERS - SURVEYORS
 6725 SENECAWOOD AVENUE RIVERDALE, MD.

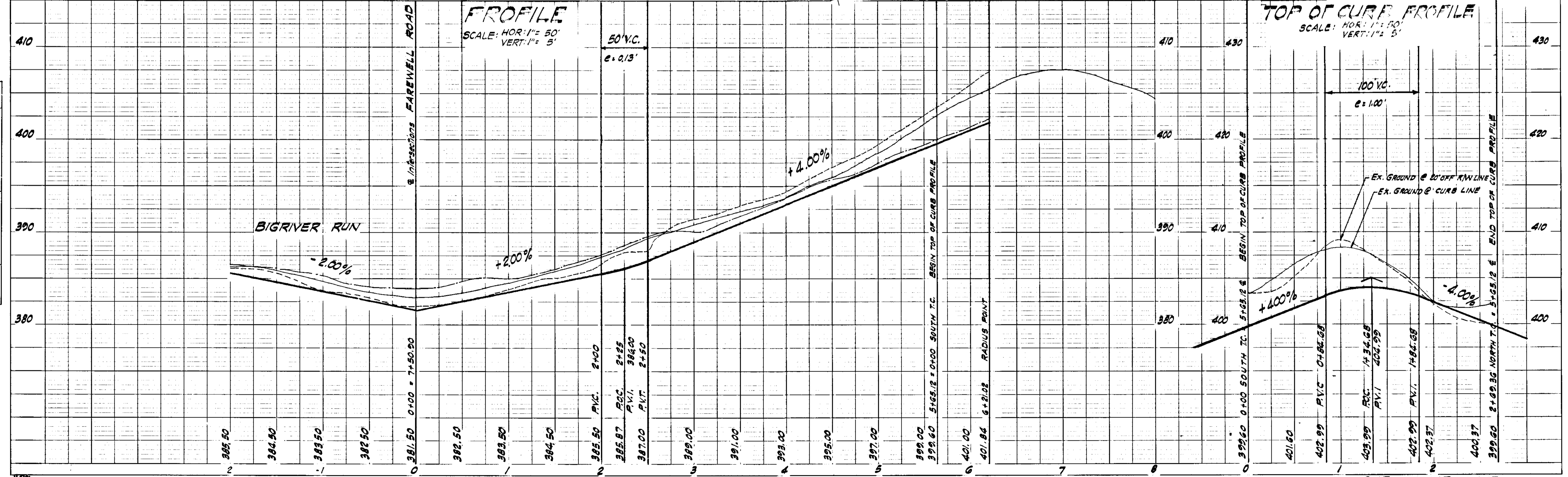
DEPARTMENT OF PUBLIC WORKS
 CHIEF, BUREAU OF PLANNING AND ZONING
 OFFICE OF PLANNING AND ZONING
 CHIEF ENGINEER, DIVISION OF LAND DEVELOPMENT

APPROVED
 DIVISION OF
 LAND DEVELOPMENT
 OFFICE OF
 PLANNING AND ZONING
 OF HOWARD COUNTY
 DATE: APR 15 1968

LEGEND
 EX. GROUND @ 5' OFF RWLINE
 EX. GROUND @ 20' OFF RWLINE
 EX. GROUND @ 20' OFF LT. RWLINE
 FINISHED GRADE @ F.S.L.

PROFILE
 SCALE: HOR: 1" = 50'
 VERT: 1" = 5'

TOP OF CURB PROFILE
 SCALE: HOR: 1" = 50'
 VERT: 1" = 5'



DATE	BY

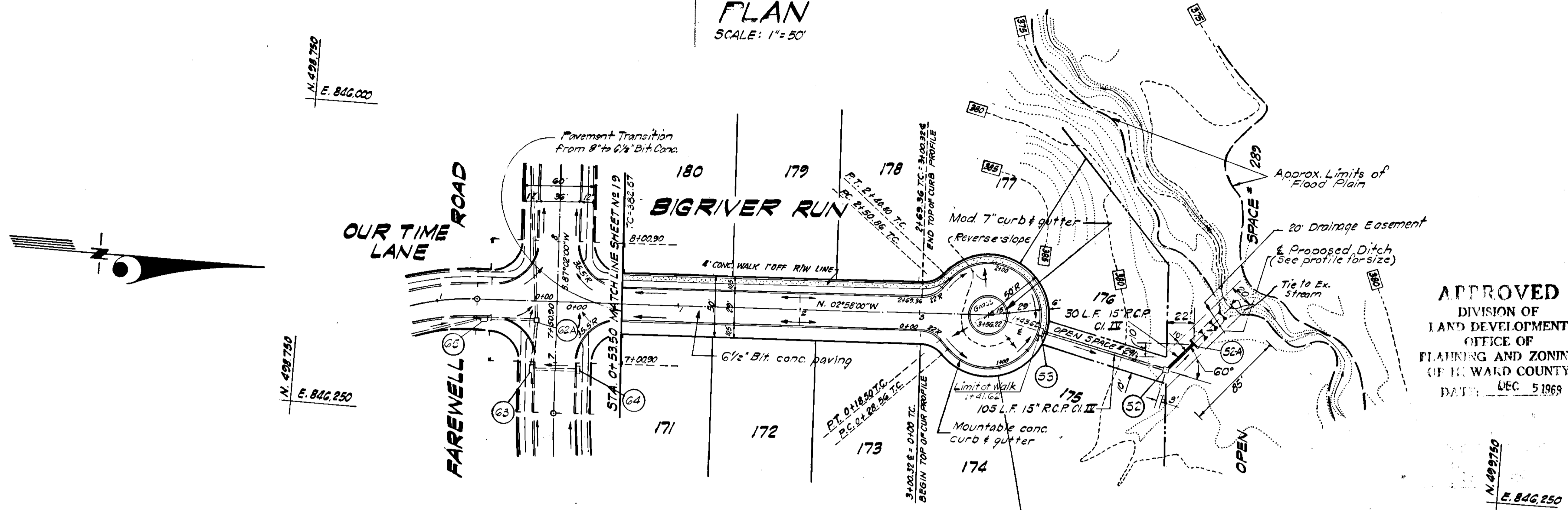
PLAN
 SURVEYED, GRADES CHECKED, B.M.'S NOTED, STRUCTURE NOTATIONS CHECKED, NOTE BOOK NO. 17, DATE OF WAY CHECKED.

DATE	BY

PROFILE
 SURVEYED, GRADES CHECKED, B.M.'S NOTED, STRUCTURE NOTATIONS CHECKED, NOTE BOOK NO. 18, DATE OF WAY CHECKED.



PLAN
SCALE: 1" = 50'



APPROVED
DIVISION OF
LAND DEVELOPMENT
OFFICE OF
PLANNING AND ZONING
OF HOWARD COUNTY
DATE: DEC 5 1969

Rev Date	Rev No	Revision Description

COLUMBIA
6TH ELECTION DISTRICT
HOWARD COUNTY MARYLAND
OWNER AND DEVELOPER
HOWARD RESEARCH AND DEVELOPMENT CORP
THE VILLAGE OF OAKLAND MILLS, BALTIMORE MARYLAND 21210

PROJECT TITLE: VILLAGE OF OAKLAND MILLS SECTION 5, STEVEN'S FORB ST., AREA 3
PROJECT TITLE: PLAN AND PROFILE **BIG RIVER RUN**

Des By: KIV MEMIS Scale: AS SHOWN Date: 10/23/69
Din By: TRILIS EGWC Date: 11/11/69 C.C.I. No.
Chk By: Approved

GREENHORN AND O'MARA, INC.
ENGINEERS - ARCHITECTS - PLANNERS - SURVEYORS
6715 SILVERWORTH AVENUE RIVERDALE, MD.

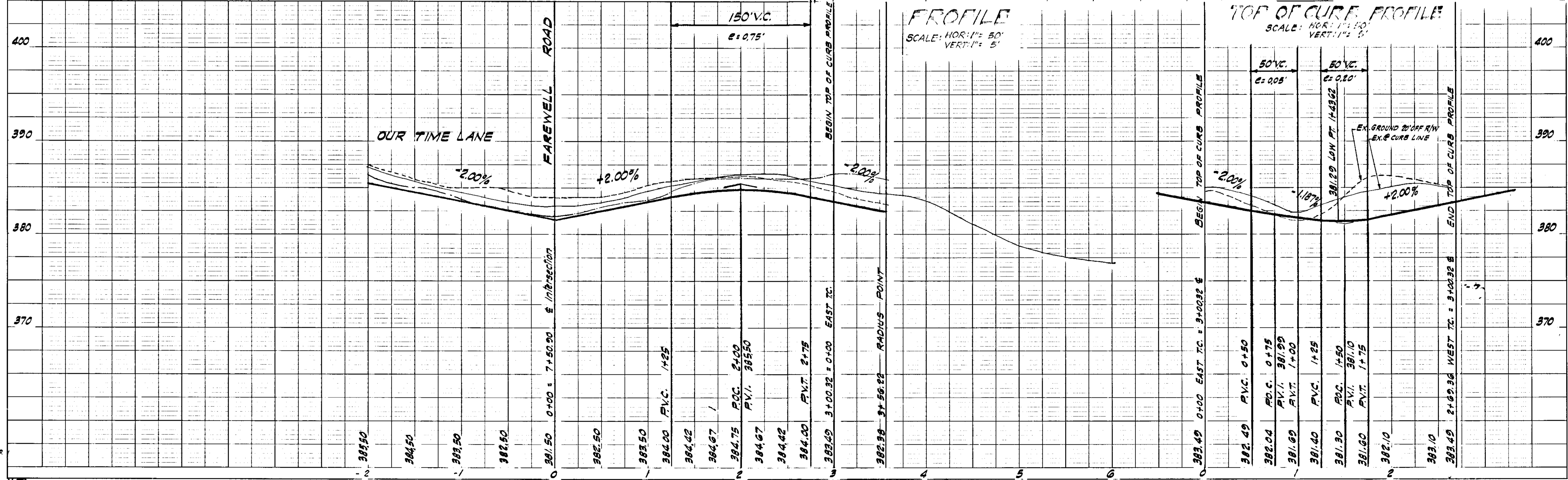
DEPARTMENT OF PUBLIC WORKS
~~CHIEF, BUREAU OF HIGHWAYS~~ DATE:
~~OFFICE OF PLANNING AND ZONING~~
CHIEF ENGINEER, DIVISION OF LAND DEVELOPMENT, DATE:

STORM DRAINAGE STRUCTURE SCHEDULE

No	TYPE	LOCATION	INV. IN	INV. OUT	T.O.P. ELEV.	REMARKS
50A	"C" Endwall	AS shown on plan		375.75		Ho. Co. S'd D-52, 2-07
52	"B" Manhole 48" dia		376.05	376.05	379.00 T.L.	W.S.S.C. S'd D See detail: 557.33(133)
53	"A" 5' Inlet W=2'-6"	Filet Sta 1+43.62		378.35	381.20	Ho. Co. S'd D-64A, 2-13A

PROFILE
SCALE: HOR: 1" = 50'
VERT: 1" = 5'

TOP OF CURB PROFILE
SCALE: HOR: 1" = 50'
VERT: 1" = 5'



BIG RIVER RUN
VILLAGE OF OAKLAND MILLS SG-483

DATE	BY

PLAN
CHECKED: _____
NOTED: _____
NO. _____

DATE	BY

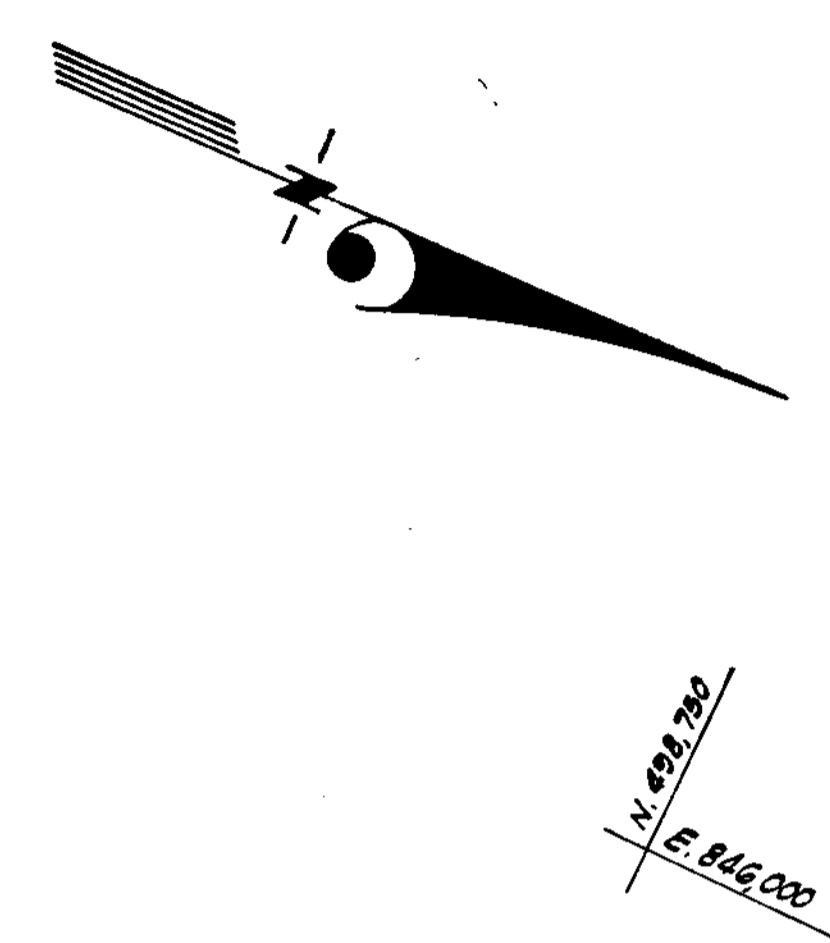
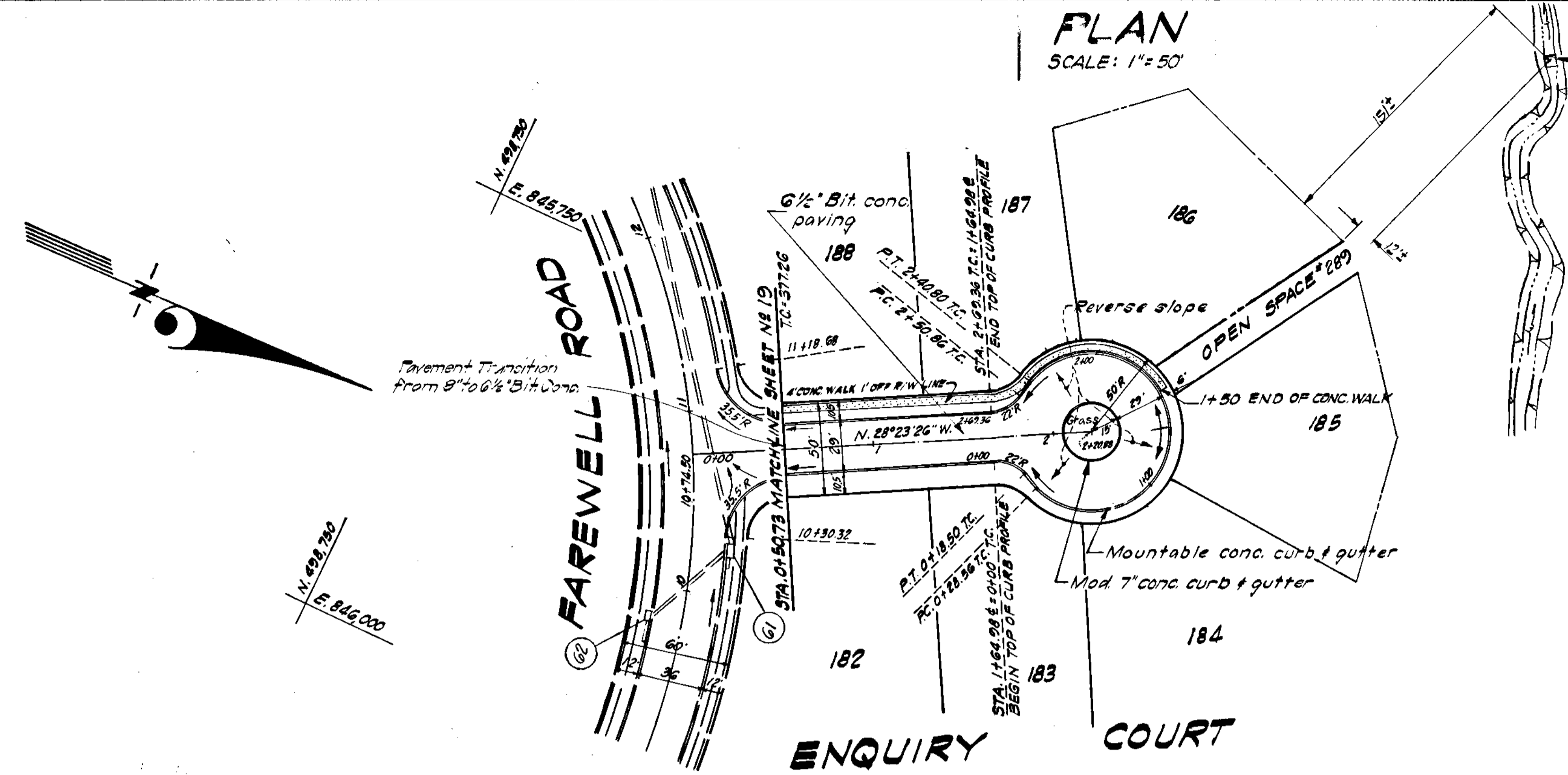
PROFILE
CHECKED: _____
NOTED: _____
NO. _____



PLAN

SCALE: 1" = 50'

Temporary Sediment Trap #1 to be placed in stream bed @ approx. location shown, as directed by District Conservationist.



APPROVED
DIVISION OF
LAND DEVELOPMENT
OFFICE OF
PLANNING AND ZONING
OF HOWARD COUNTY
ESTABLISHED 1959

Rev Date	Rev No	Revision Description

COLUMBIA
6715 KENILWORTH AVENUE
RIVERDALE, MD.

HOWARD RESEARCH AND DEVELOPMENT CORP
1815 WOODLAND DRIVE
GREENBELT, MD.

PROJECT AREA
VILLAGE OF OAKLAND MILLS
SECTION 5, STEVENS FOREST, AREA 3

PROJECT TITLE
PLAN AND PROFILE
ENQUIRY COURT

Des. By: K. W. GEMIS Scale: AS SHOWN Date: APRIL 1969 Proj. No: 24 of 33
 Dwn. By: T. J. EGWC Date: APRIL 1969 C.C.F. No.
 Chk. By: Approved

GREENHORN AND O'MARA, INC.
ENGINEERS - ARCHITECTS - PLANNERS - SURVEYORS
6715 KENILWORTH AVENUE RIVERDALE, MD.

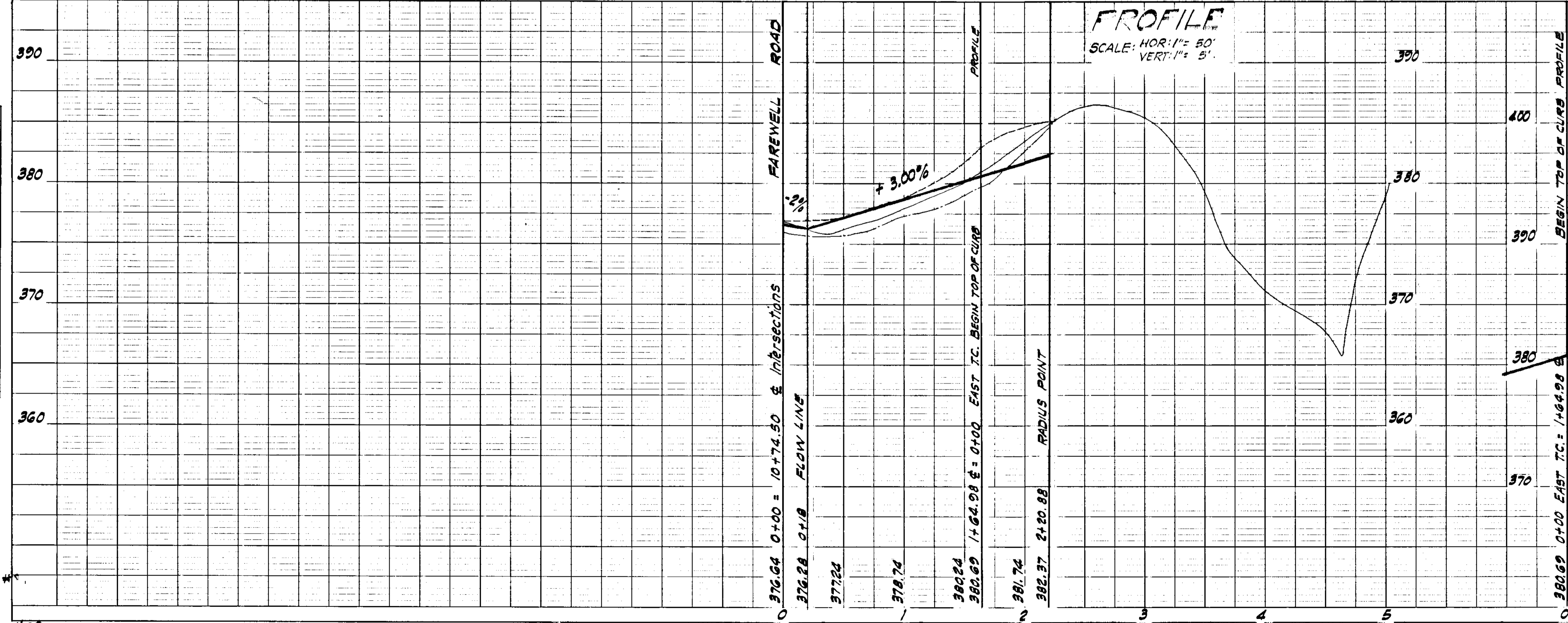
DEPARTMENT OF PUBLIC WORKS
CHIEF, BUREAU OF HIGHWAYS
OFFICE OF PLANNING AND ZONING
CHIEF ENGINEER, DIVISION OF LAND DEVELOPMENT

LEGEND

- EX. GROUND @ \dots
- EX. GROUND @ 20' OFF R. RW \dots
- EX. GROUND @ 20' OFF L. RW \dots
- FINISHED GRADE @ F.G.L. \dots

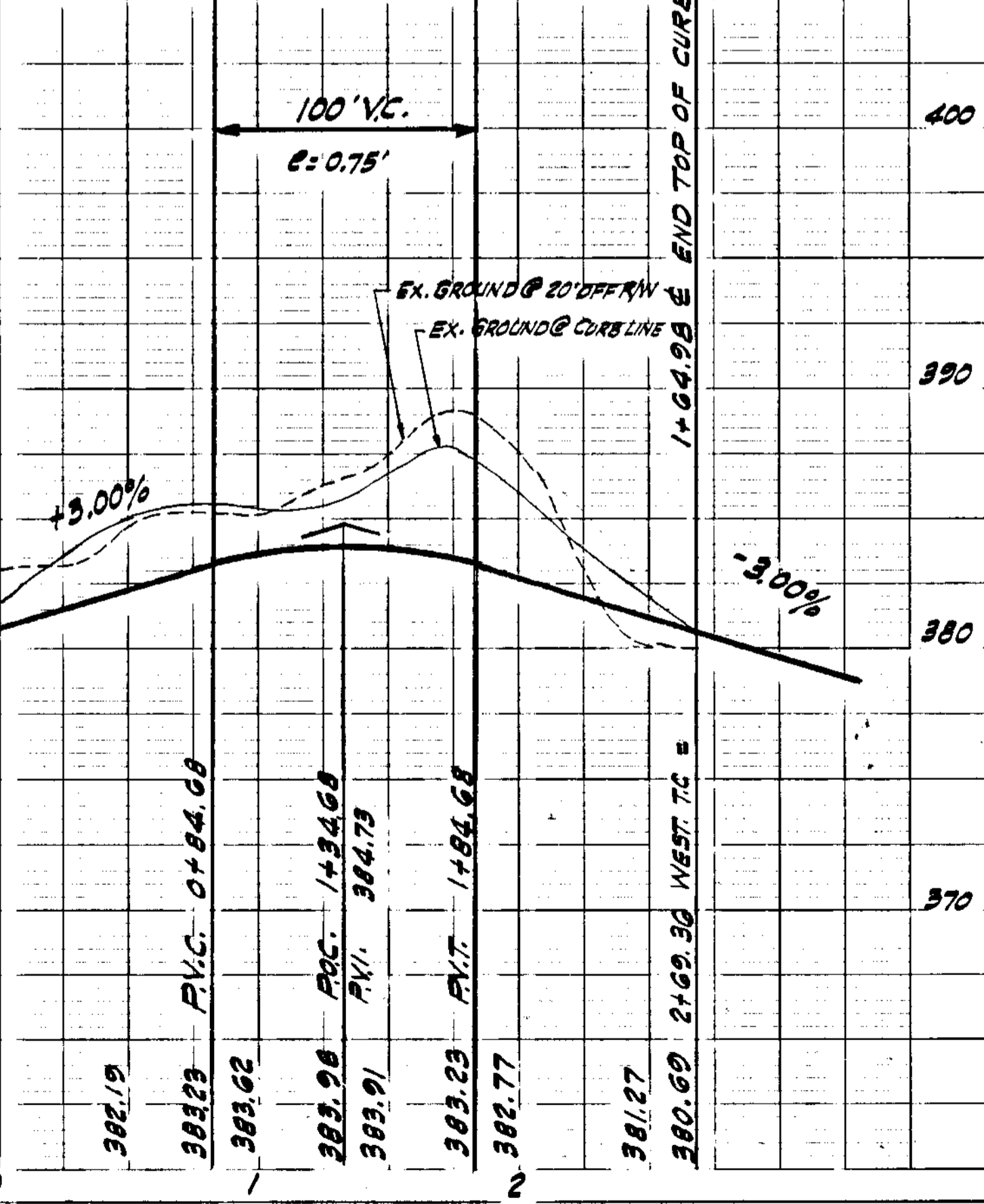
PROFILE

SCALE: HOR: 1" = 50' VERT: 1" = 5'



TOP OF CURB PROFILE

SCALE: HOR: 1" = 50' VERT: 1" = 5'



DATE	BY	NO.

PLAN
SURVEYED
NOTE BOOK
ALIGNED CHECKED
RE. OF WAY CHECKED

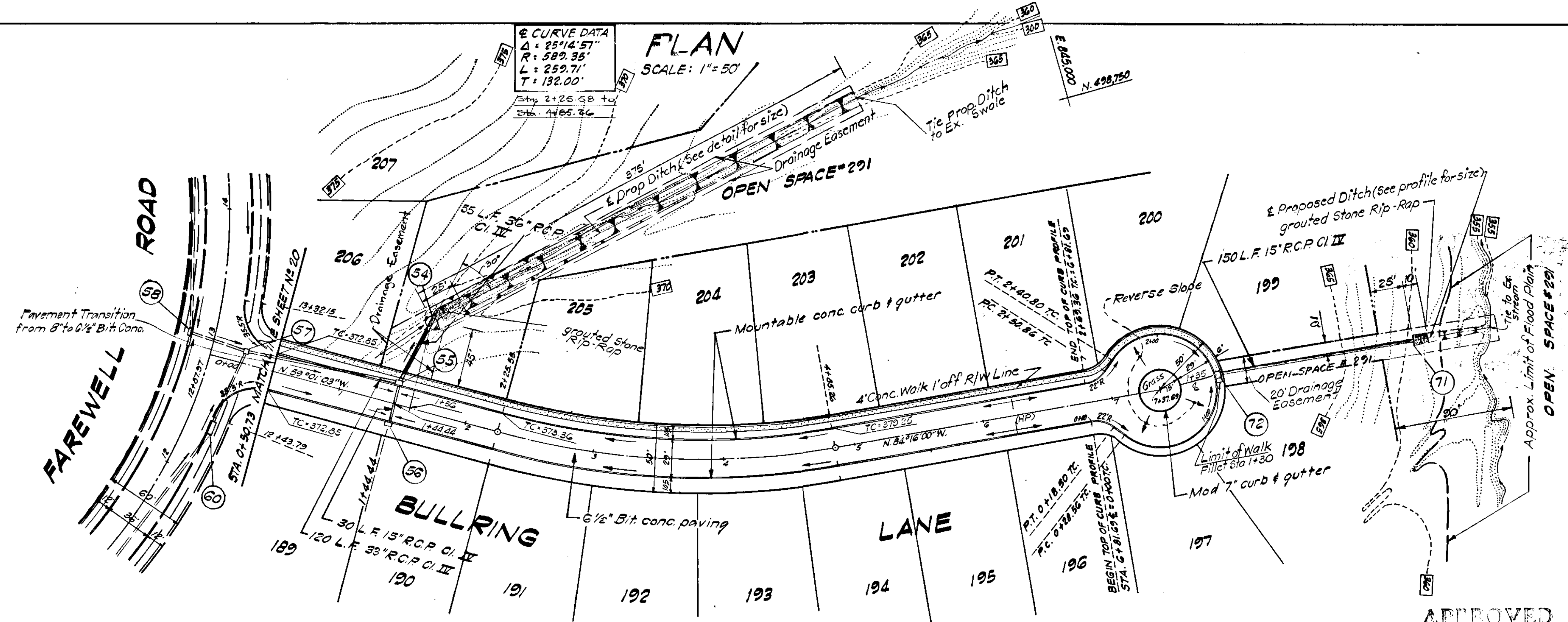
DATE	BY	NO.

PROFILE
SURVEYED
NOTE BOOK
GRADES CHECKED
S.M. NOTED
STRUCTURE NOTATION CHECKED



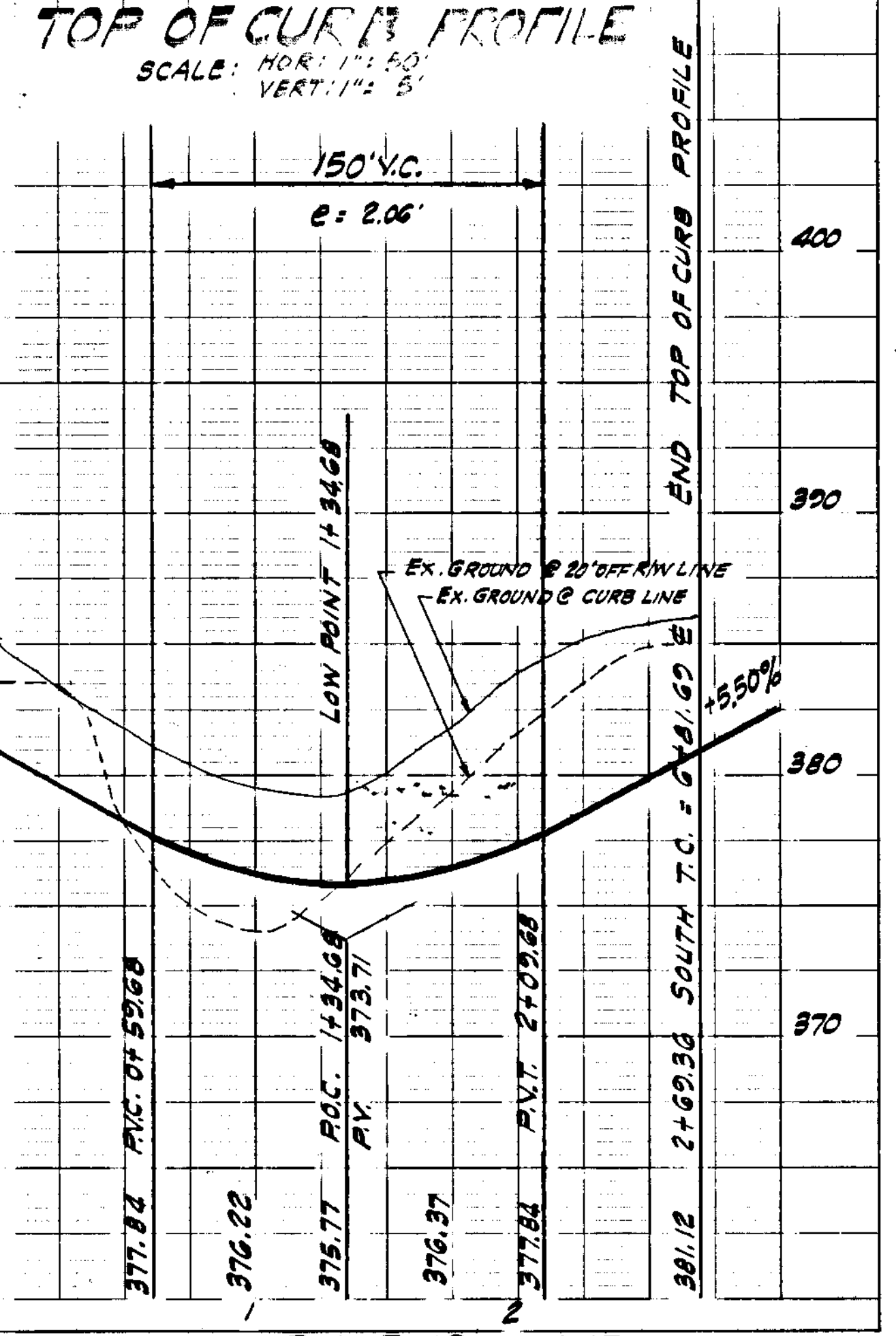
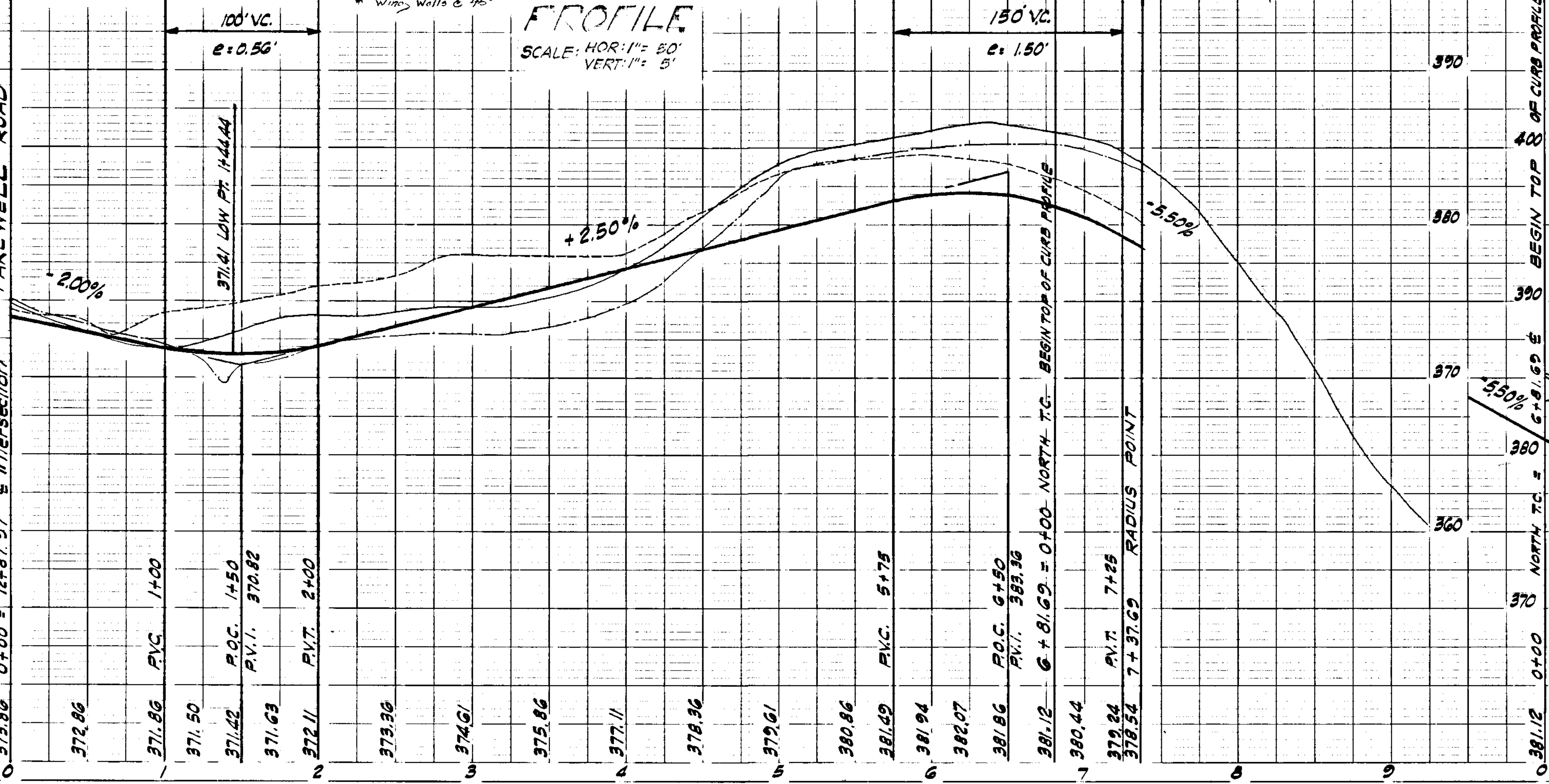
DATE	
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DATE	
BY	
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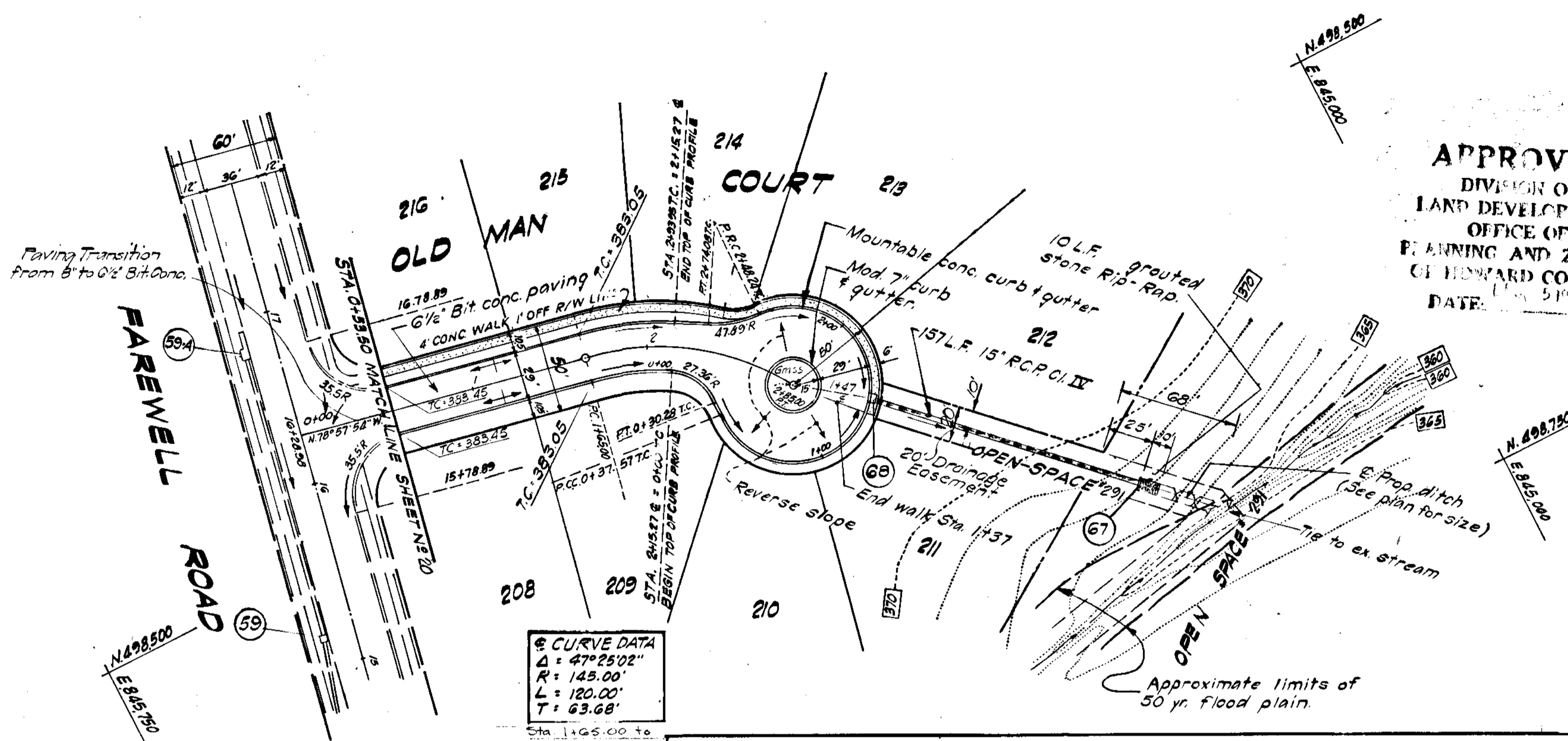
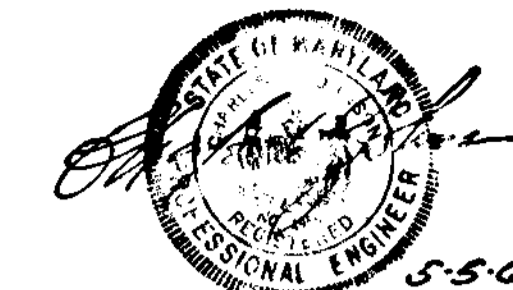


Rev. Date	Rev. No.	Revision Description
COLUMBIA		
6TH ELECTION DISTRICT HOWARD COUNTY MARYLAND		
HOWARD RESEARCH AND DEVELOPMENT CORP THE VILLAGE OF OAKLAND MILLS, 80 PARKWAY, ANNAPOLIS, MARYLAND 21403		
PROJECT AREA: VILLAGE OF OAKLAND MILLS SECTION 5, STEVEN'S FOREST, AREA 5		
PROJECT TITLE: PLAN AND PROFILE BULLRING LANE		
Des. By	K. W. MEEMES, State License No. 25018	Dwg. No. 25018-33
Dist. By	T. K. E. G. W. C.	Date APRIL 1965
Chk. By	Approved	
GREENHORNE AND O'MARA, INC. ENGINEERS - ARCHITECTS - PLANNERS - SURVEYORS 6715 KENILWORTH AVENUE RIVERDALE, MD.		
DEPARTMENT OF PUBLIC WORKS		
CHIEF, BUREAU OF HIGHWAYS		DATE
OFFICE OF PLANNING AND ZONING		
CHIEF ENGINEER, DIVISION OF LAND DEVELOPMENT		DATE

NO.	TYPE	LOCATION	INV. IN	INV. OUT	10' ELEV.	REMARKS
54	"G" Endwall *	AS SHOWN ON PLAN	364.62	364.62		HO CO, S+8 D-61 0-110 *
55	"A-5" Inlet W=31.4"		366.25	371.41	E	D-64A 0-110A
56	"A-5" Inlet W=21.6"		367.90	371.41	E	D-64A 0-110A
71	"C" Endwall		357.87	357.87		D-52 0-107
72	"A-5" Inlet W=21.6"		373.25	375.77		D-64A 0-110A



PLAN
SCALE: 1" = 50'



APPROVED
DIVISION OF
LAND DEVELOPMENT
OFFICE OF
PLANNING AND ZONING
OF HOWARD COUNTY
DATE: 5/1/63

Rev Date	Rev No	Revision Description
COLUMBIA		
CITY ELECTION DISTRICT HOWARD COUNTY MARYLAND		
HOWARD RESEARCH AND DEVELOPMENT CORP THE VILLAGE OF OAKLAND MILLS, BALTIMORE MARYLAND 21210		
PROJECT: VILLAGE OF OAKLAND MILLS SECTION 5, STEVEN'S FOREST, AREA 3		
PROJECT TITLE: PLAN AND PROFILE OLD MAN COURT		
Des By: K.W. MEMIS Scale: AS SHOWN Deg: E-26 of 33		
Din By: T.E. & G.W.C. Date: APRIL 1963 C.C.T. No.		
Chk By: Approved		
GREENHORNE AND O'MARA, INC. ENGINEERS - ARCHITECTS - PLANNERS - SURVEYORS 6715 SHILWORTH AVENUE RIVERDALE, MD.		
DEPARTMENT OF PUBLIC WORKS		
CHIEF, BUREAU OF HIGHWAYS DATE		
OFFICE OF PLANNING AND ZONING		
CHIEF ENGINEER, DIVISION OF LAND DEVELOPMENT DATE		

CURVE DATA
Δ = 47° 25' 02"
R = 145.00'
L = 120.00'
T = 63.68'

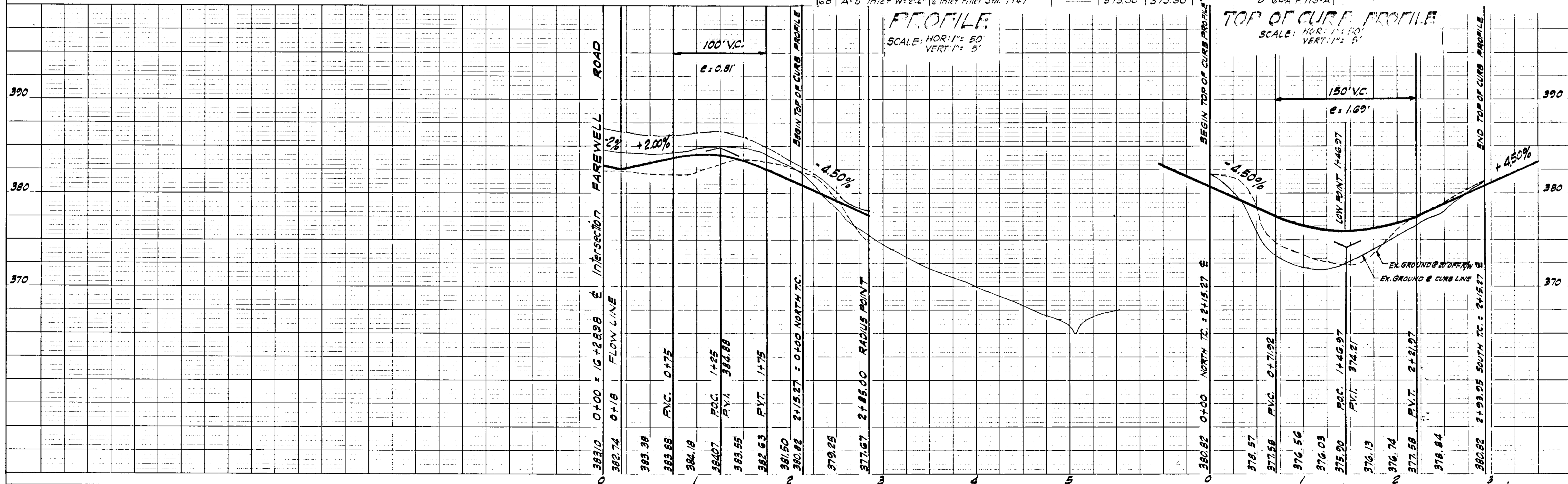
STORM DRAINAGE STRUCTURE SCHEDULE

NO	TYPE	LOCATION	INLET IN	INLET OUT	TO ELEV.	REMARKS
67	C-Endwall	See Plan for Location	368.72	375.90		Ho. Co. 3714 D-5C, P. 107
68	A-5 Inlet w/ 2'x6"	See Plan for Location	373.00	375.90		D-64A P. 119-A

LEGEND
EX. GROUND @ 20' OFF R.L. RW
EX. GROUND @ 2' OFF LT. RW
EX. GROUND @ 2' OFF RT. RW
FINISHED GRADE @ P.C.L.

PROFILE
SCALE: HOR: 1" = 50'
VERT: 1" = 5'

TOP OF CURB PROFILE
SCALE: HOR: 1" = 50'
VERT: 1" = 5'



PLAN	SURVEYED	DATE
NOTE BOOK	ALIGNED CHECKED	
	BY WAY CHECKED	

PROFILE	SURVEYED	DATE
NOTE BOOK	PLOTTED	
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	

N. 497.750' E. 642.330'

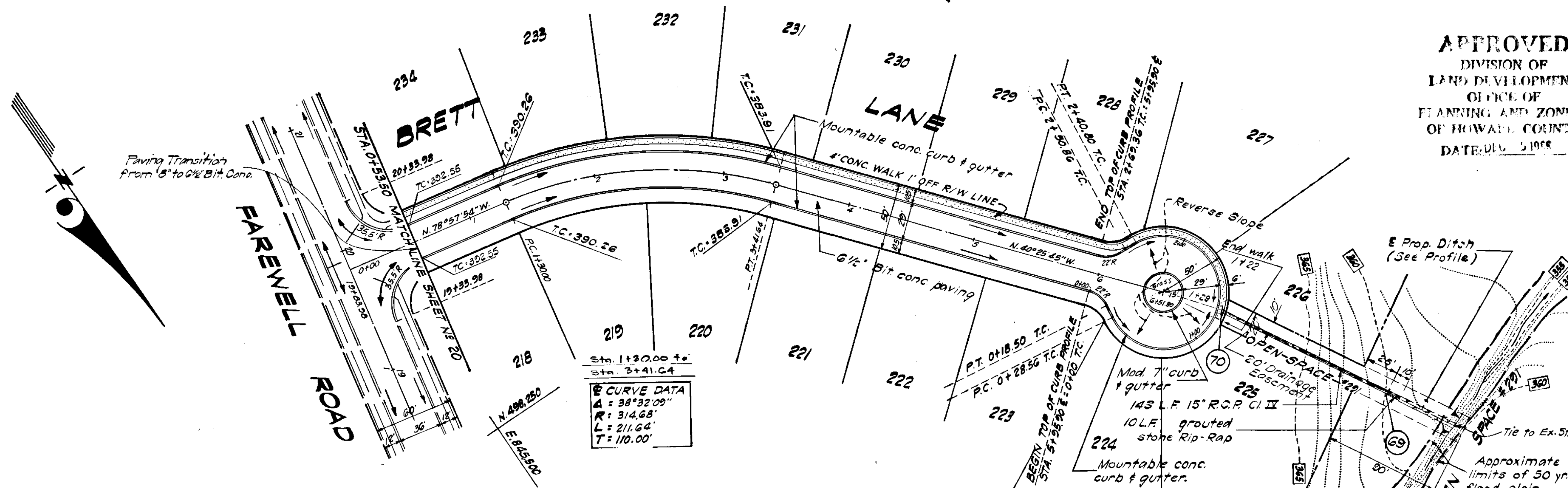
PLAN
SCALE: 1" = 50'

N. 498.250' E. 642.330'



PLAN	SURVEYED	DATE
	PLOTTED	
	ALIGNED	
	CHECKED	
	BY	
	NO.	

PROFILE	SURVEYED	DATE
	PLOTTED	
	GRADES	
	CHECKED	
	BY	
	NO.	

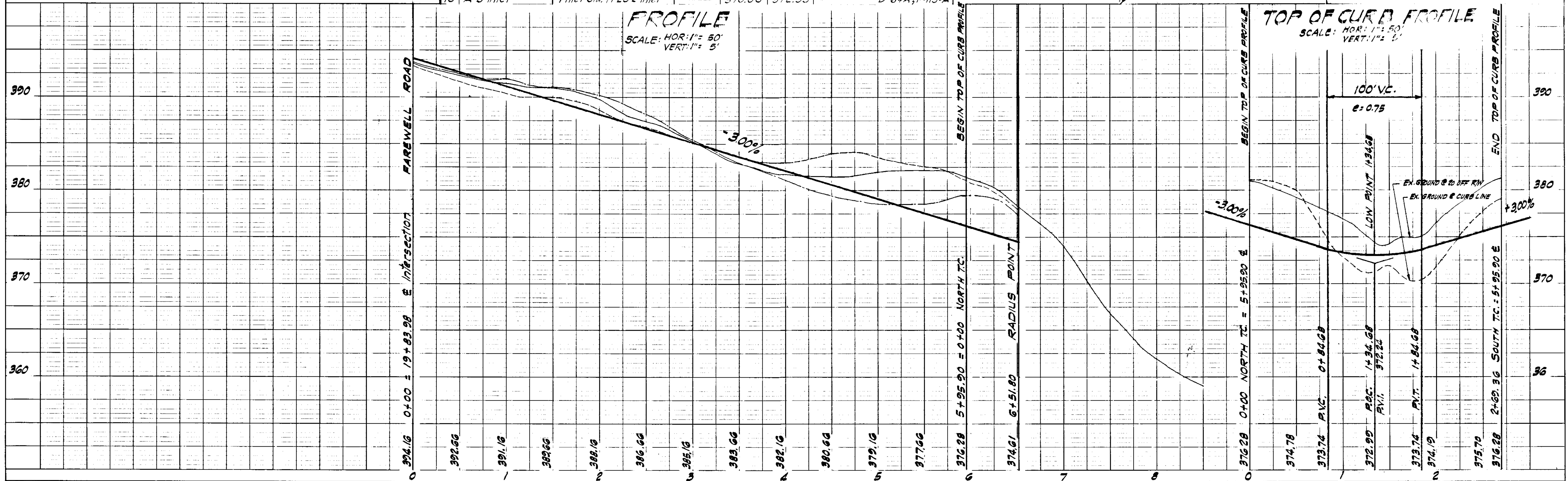


APPROVED
DIVISION OF
LAND DEVELOPMENT
OFFICE OF
PLANNING AND ZONING
OF HOWARD COUNTY
DATE: APRIL 5 1969

Rev. Date	Rev. No.	Revision Description
COLUMBIA		
6TH ELECTION DISTRICT HOWARD COUNTY MARYLAND		
HOWARD RESEARCH AND DEVELOPMENT CORP.		
PROJECT AREA: VILLAGE OF OAKLAND MILLS SECTION 5, STEVEN'S FOREST, AREA 3		
PROJECT TITLE: BRETT LANE		
Des. By: R.W. MEMMS, SUE A.G. SNOW	Dwg. No. 27 of 33	
Dir. By: TRET & GWC	Date: APRIL 1969	C.C.F. No.
Chk. By:	Approved:	
GREENHORNE AND O'MARA, INC. ENGINEERS - ARCHITECTS - PLANNERS - SURVEYORS 6715 KENILWORTH AVENUE RIVERDALE, MD.		
DEPARTMENT OF PUBLIC WORKS		
CHIEF, BUREAU OF HIGHWAYS	DATE	
OFFICE OF PLANNING AND ZONING		
CHIEF, ENGINEER, DIVISION OF LAND DEVELOPMENT, DATE		

STORM DRAINAGE STRUCTURE SCHEDULE

NO.	TYPE	LOCATION	INV. IN.	INV. OUT.	T.O. ELEV.	REMARKS
69	C Endwall	As shown on plan	359.00			Ho. Co. Sta. D-52, P-107
70	A-5 Inlet	Fillet Sta. 19+29.6	370.00	372.99		" " " " D-64A, P-119-A



LEGEND
EX. GROUND @ E
EX. GROUND @ 20' OFF RT. RW
EX. GROUND @ 20' OFF LT. RW
FINISHED GRADE @ P.C.L.