COLUMBIA

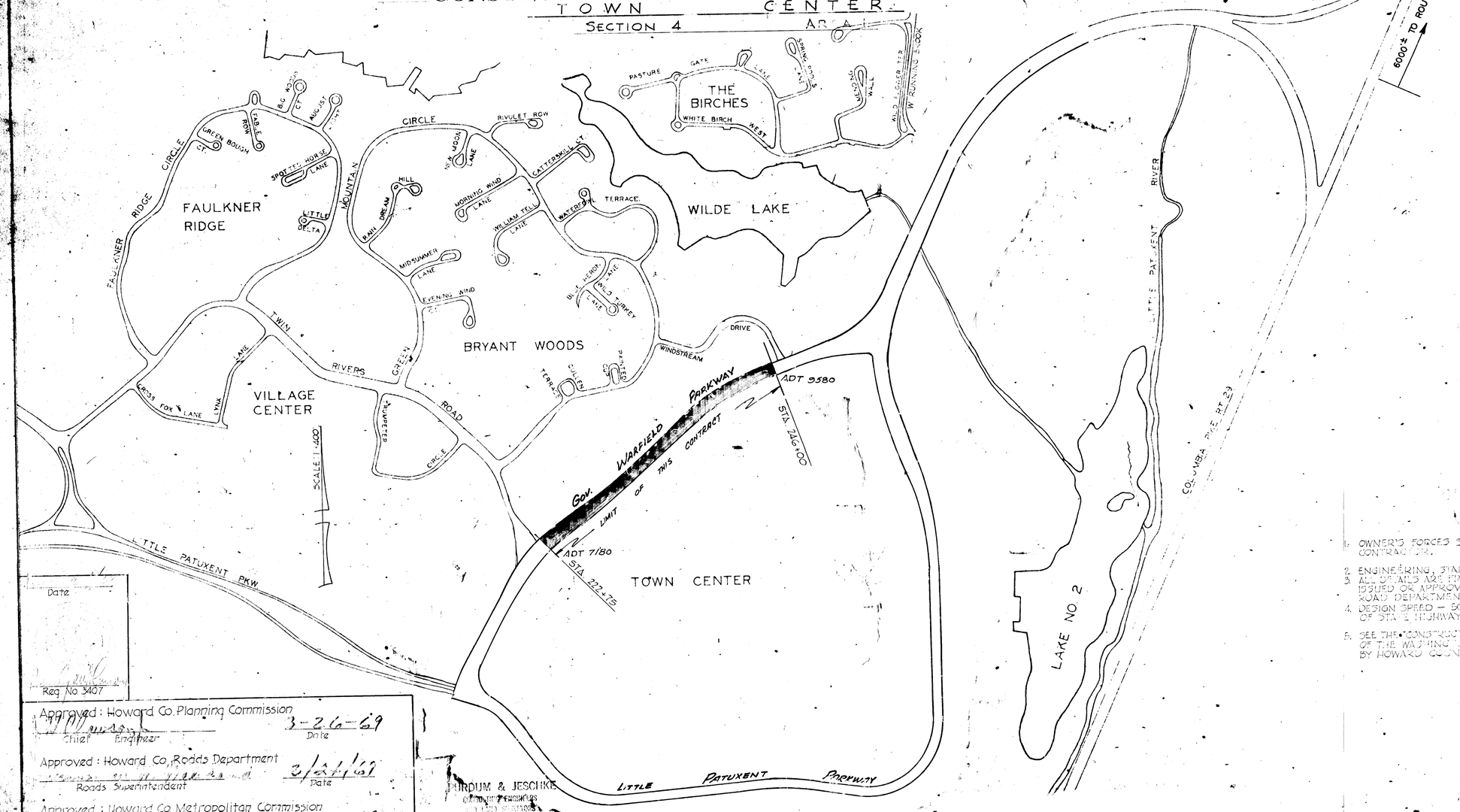
ELECTION DISTRICT 5

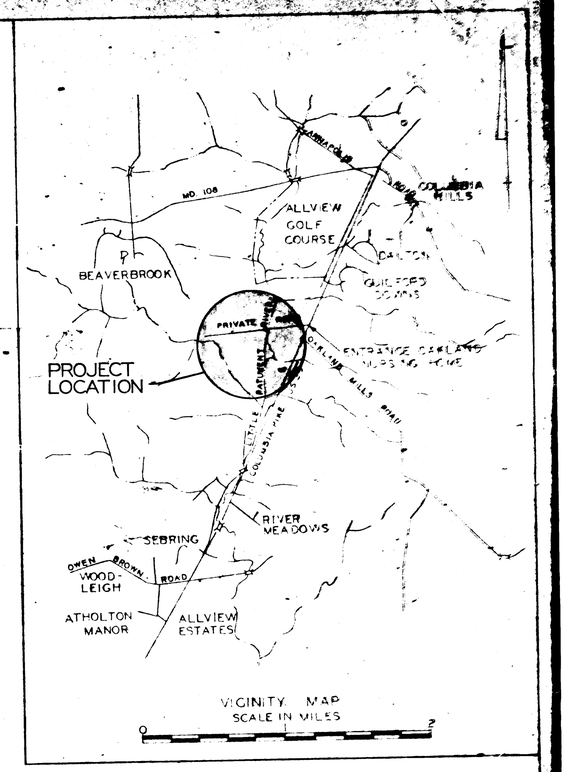
GOVERNOR WARFIELD PARKWAY
ROADWAYS – DRAINAGE

HOWARD RESEARCH & DEVELOPMENT CORP.

HOWARD COUNTY, MARYLAND

CONSTRUCTION PLANS MARCH 1968





INDEX

SHEET NO.	DESCRIPTION
1.	TITLE SHEET
2.	TYPICAL SECTIONS & DETAILS
3.	GOVERNOR WARFIELD PARKWAY - STA. 213 TO STA. 224
4.	" " " STA. 224 TO STA. 234
5.	" " " STA. 234 TO STA. [illegible]
6.	" " " STA. 244 TO STA. [illegible]
7.	STORM DRAIN PROFILES
8.	SUPERELEVATION TRANSITIONS

LEGEND - CONVENTIONAL SIGNS & SYMBOLS

808.040	FINISHED GRADE ELEVATION
	DRAINAGE FLOW ARROW - TYPICAL SECTION, GUTTER
0.016	SUPERELEVATION TRANSITION LOCATIONS & PAVT. CROSS SLOPE
591	EXISTING GROUND & SURVEY LINE (B) & B. OF CONSTRUCTION
	PROFILE GRADE LINE - E.B.L. & W.B.L. (SEE TYPICAL SECTIONS FOR POINT OF APPLICATION)
	E.B.L.
	RIGHT OF WAY LINE

GENERAL NOTES

1. OWNER'S FORCES SHALL DO ALL SODDING, SEEDING AND MULCHING AT NO COST TO THE CONTRACTOR.
2. ENGINEERING, STAKING AND CONTROL SHALL BE ESTABLISHED BY OWNER.
3. ALL OF AND ARE FROM "ROAD CONSTRUCTION CODE AND STANDARD SPECIFICATIONS" ISSUED OR APPROVED BY THE COUNTY COMMISSIONERS OR THE HOWARD COUNTY ROAD DEPARTMENT.
4. DESIGN SPEED – 50 M.P.H. TRAFFIC SPEED IN ACCORDANCE WITH AMERICAN ASSOCIATION OF STATE HIGHWAY OFFICIAL STANDARDS.
5. SEE THE "CONSTRUCTION SPECIFICATIONS FOR GOVERNOR WARFIELD PARKWAY" FOR DETAILS OF THE WASHINGTON SUBURBAN SANITARY COMMISSION "TYPE 'B' INLET", APPROVED BY HOWARD COUNTY DATED JUNE 14, 1968.

Date

Reg. No 3407

Approved: Howard Co. Planning Commission — 3-26-69
Chief Engineer — Date

Approved: Howard Co. Roads Department — 3/27/69
Roads Superintendent — Date

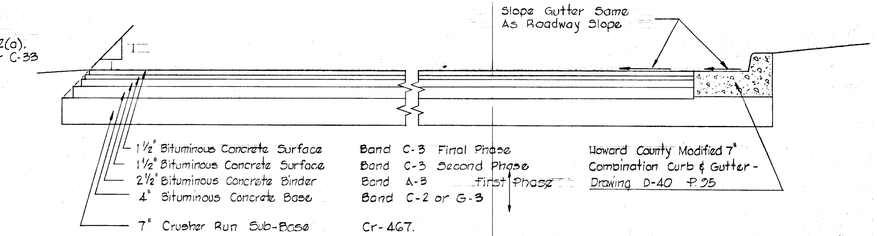
Approved: Howard Co Metropolitan Commission — 3-31-69
Chief Engineer — Date

HURDUM & JESCHKE
CIVIL ENGINEERS
LAND SURVEYORS
[illegible] SILVER STREET
BALTIMORE, MARYLAND 21202

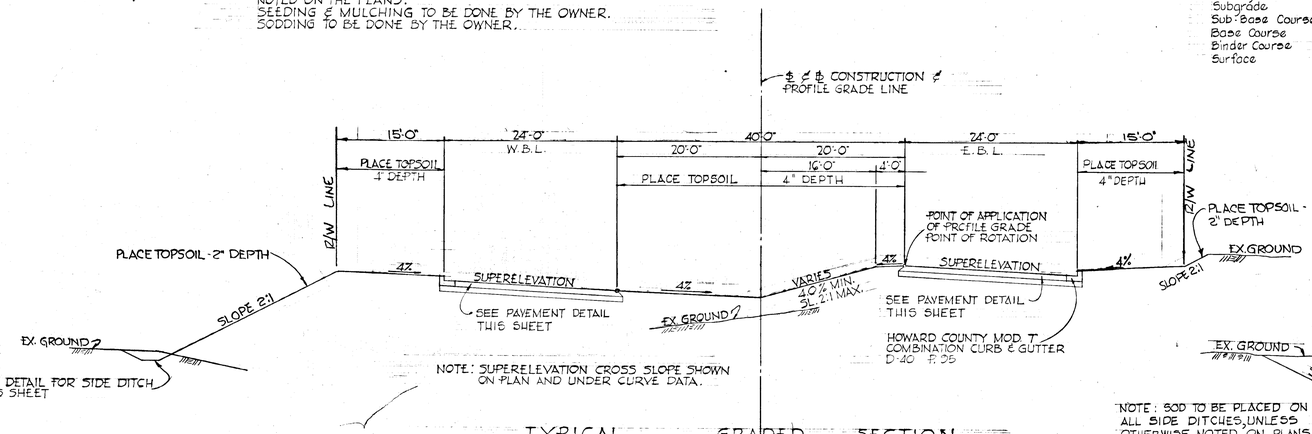
SHEET 1 OF 8

NOTE: 4" & 2" TOPSOIL, SEED (ART. 36.04) & MULCH (ART. 36.05) TO BE PLACED AS INDICATED ON TYPICAL SECTIONS & DETAILS, UNLESS OTHERWISE NOTED ON THE PLANS.
SEEDING & MULCHING TO BE DONE BY THE OWNER.
SODDING TO BE DONE BY THE OWNER.

Clearing and Grading	Article C-1
Subgrade	Article C-2
Sub-Base Course	Article C-25-2(a).
Base Course	Article C-31 or C-33
Binder Course	Article C-31
Surface	Article C-31

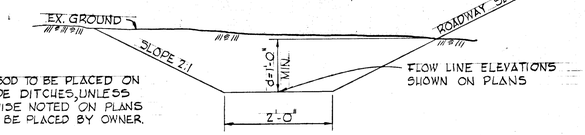


TYPICAL PAVING DETAIL
SCALE: ½"=1'-0"
SEE D-112, #165 b



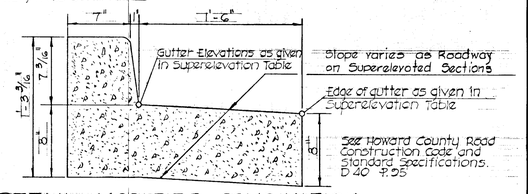
NOTE: SUPERELEVATION CROSS SLOPE SHOWN ON PLAN AND UNDER CURVE DATA.

TYPICAL GRADED SECTION
SCALE: 1"=10'
STA. 236+ TO STA. 246+

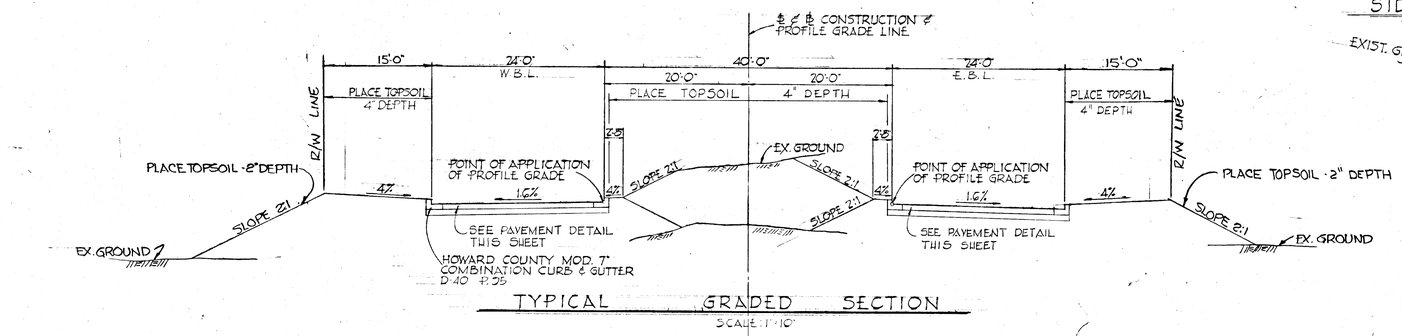


NOTE: SOD TO BE PLACED ON ALL SIDE DITCHES, UNLESS OTHERWISE NOTED ON PLANS. SOD TO BE PLACED BY OWNER.

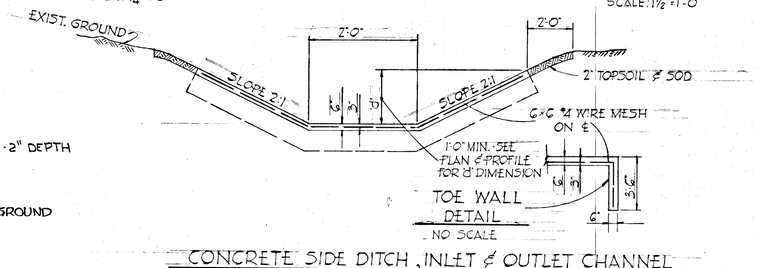
DETAIL
SIDE DITCH
SCALE: ¾"=1'-0"



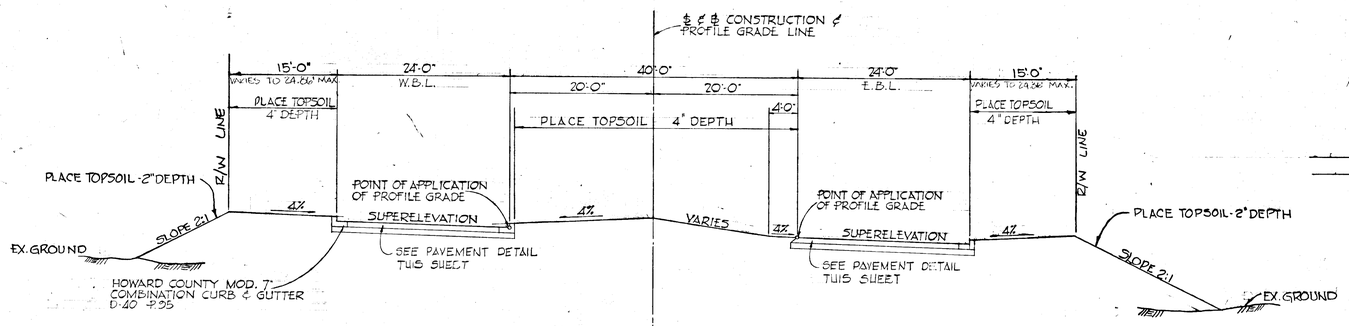
DETAIL - MODIFIED COMBINATION CURB & GUTTER
SCALE: 1½"=1'-0"



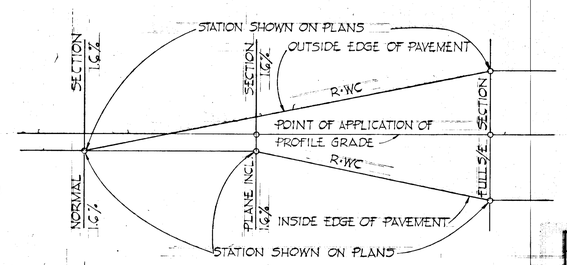
TYPICAL GRADED SECTION
SCALE: 1"=10'
STA. 223+ TO STA. 236+



CONCRETE SIDE DITCH, INLET & OUTLET CHANNEL
NO SCALE



TYPICAL GRADED SECTION
SCALE: 1"=10'
STA. 223 TO STA. 228+25
(R/W VARIES FROM 118.00 MIN TO 137.71 MAX FROM STA 223+75 TO STA 226+49.35)



W = WIDTH OF PAVEMENT

R = RATE OF CHANGE OF A GIVEN POINT ON THE PAVEMENT WITH RESPECT TO THE POINT OF APPLICATION OF PROFILE GRADE

C = 0.0002 FT/FT.

DETAIL
SUPERELEVATION TRANSITION

APPROVED
PLANNING COMMISSION
OF HOWARD COUNTY
DATE 3-26-69

4/68		ADDED TYPICALS STA. 223 TO STA. 246+

MARYLAND

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

GOV. WARFIELD PARKWAY

TYPICAL SECTIONS & DETAILS

D.E.H.	AS SHOWN	
D.E.H.		
B.M.J.		

PURDUM & JESCHKE
CONSULTING ENGINEERS & LAND SURVEYORS
1023 N. CALVERT STREET
BALTIMORE, MARYLAND 21202

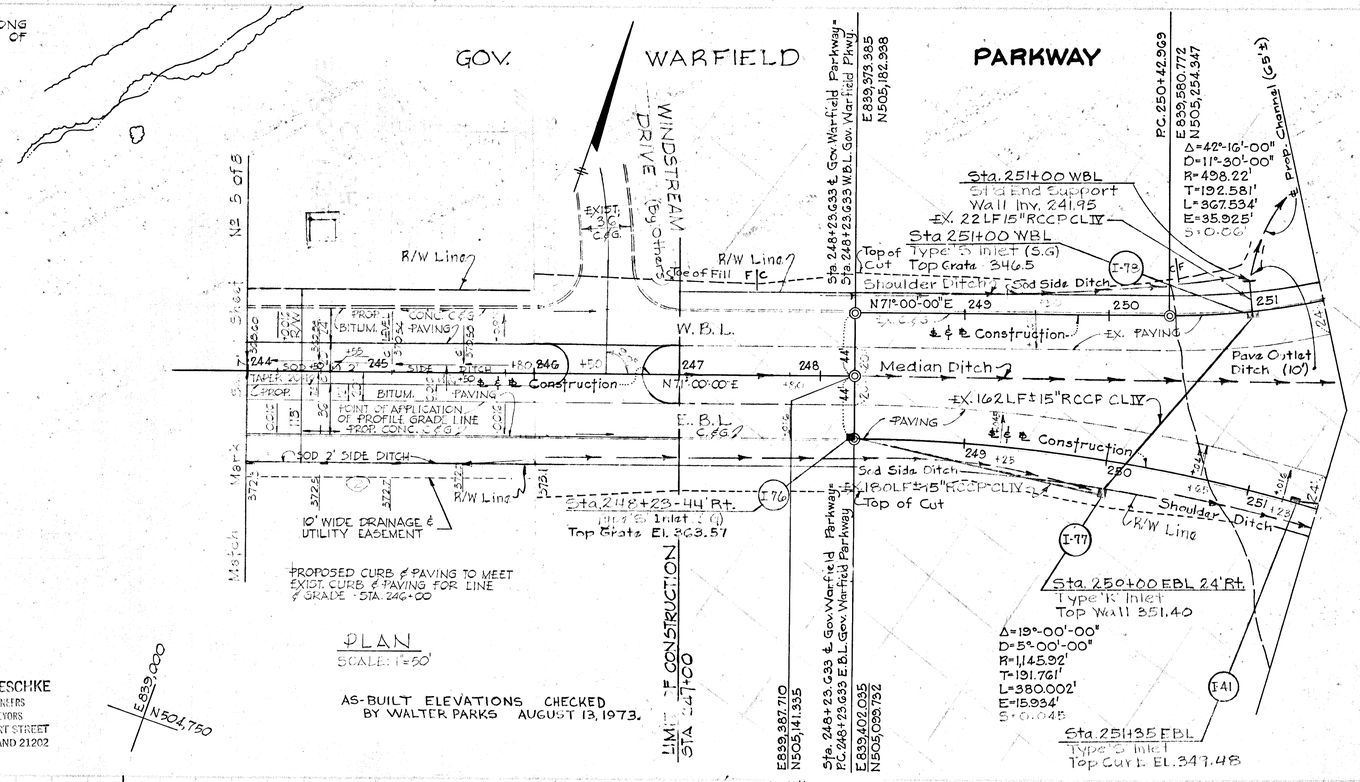
STATE OF MARYLAND
WILLIAM D. PURDUM
No. 4470 REGISTERED
Professional Engineers & Land Surveyor

William D. Purdum
MARCH 26, 1969

#55

F-68-57 6-26-68 SHEET 2 OF 8

NOTE: "VEHICULAR INGRESS AND EGRESS IS RESTRICTED ALONG THE ENTIRE ROADWAY SHOWN HEREON EXCEPT AT POINTS OF ACCESS APPROVED BY THE HOWARD COUNTY PLANNING COMMISSION."

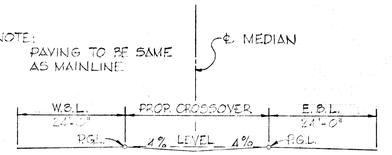


F-68-57 6-2668 SHEET 6 OF 8

M. CARSKI 3-12-74

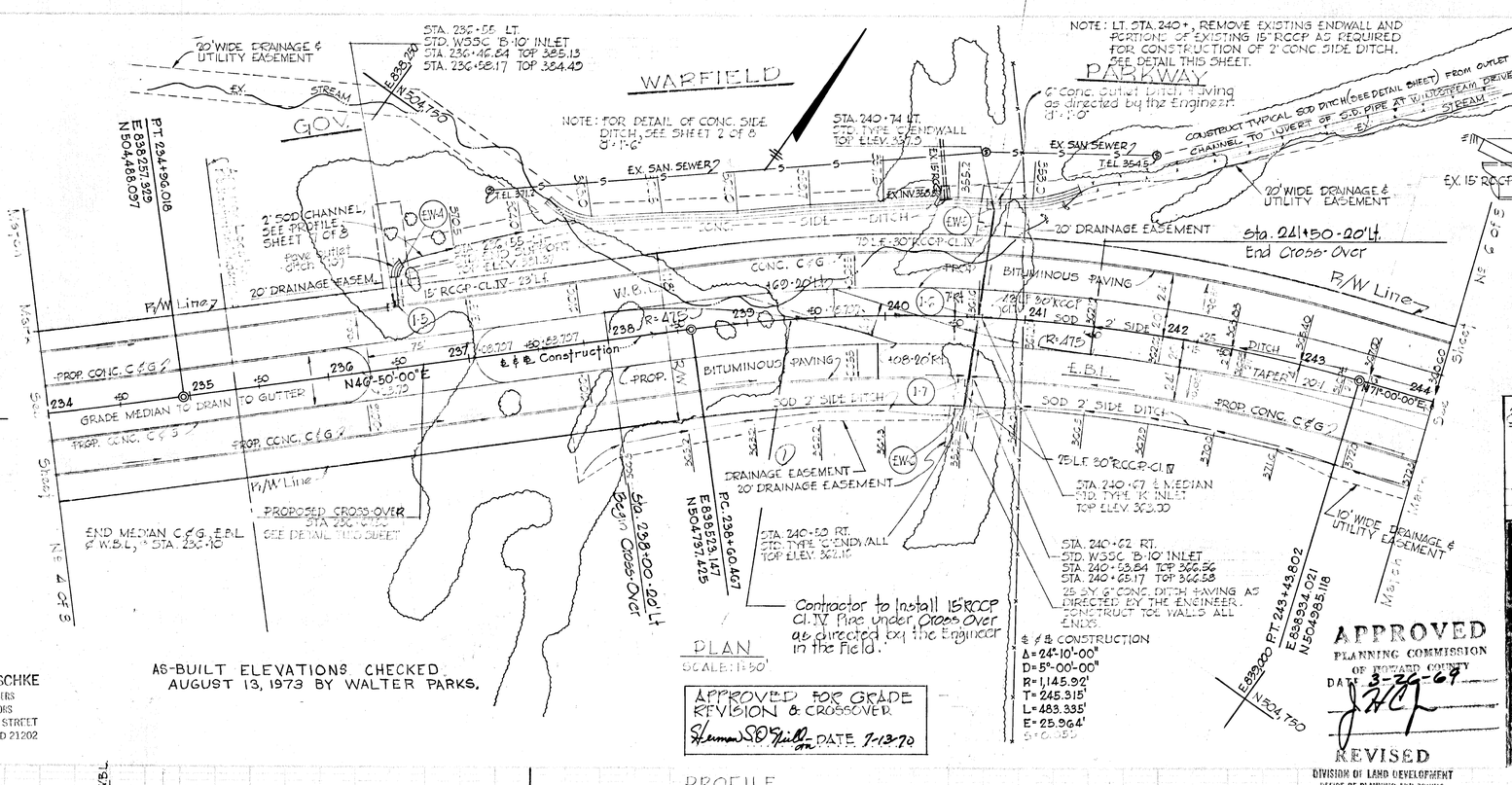
STRUCTURE SCHEDULE			
NO.	TYPE	TOP ELEV.	REMARKS
EW-4	—	381.37	STANDARD END SUPPORT WALL, SEE DRWG. D-46, P. 101
I-5	W35C B-10	380.18 384.40	SEE GENERAL NOTES SEE SHEET 1 OF 8
EW-5	'C'	387.0	HOWARD COUNTY STANDARD ENDWALL DRWG. D-52, P. 107
I-6	'K'	363.0	HOWARD COUNTY STANDARD DRAWING D-93, P. 148
I-7	W35C B-10	366.56 366.58	SEE GENERAL NOTES SEE SHEET 1 OF 8
EW-6	'C'	362.16	HOWARD COUNTY STANDARD ENDWALL DRWG. D-52, P. 107

NOTE:
PAVING TO BE SAME AS MAINLINE

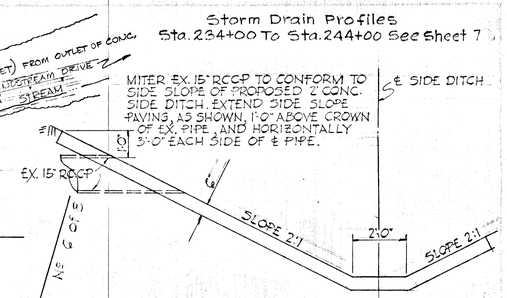


TYPICAL CROSS-OVER DETAIL
NO SCALE
STA. 236+67.50

NOTE: VEHICULAR INGRESS AND EGRESS IS RESTRICTED ALONG THE ENTIRE ROADWAY SHOWN HEREON EXCEPT AT POINTS OF ACCESS APPROVED BY THE HOWARD COUNTY PLANNING COMMISSION.



Storm Drain Profiles
Sta. 234+00 To Sta. 244+00 See Sheet 7



SECTION - LEFT OF STA. 240+

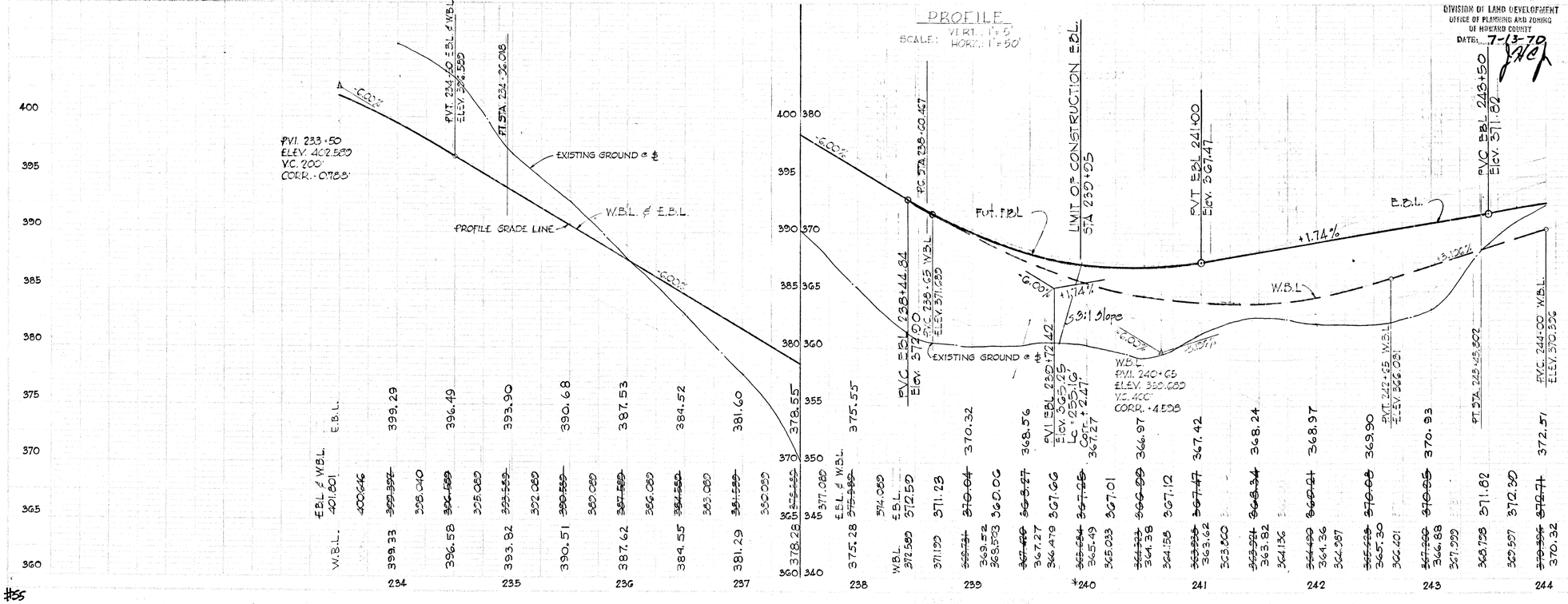
Added Cross Over Sta 238+00 to Sta. 241+50
Grade Revised Sta. 238+44± to Sta 244 EBL 7/7/70
REVISED FOR COMMENT 3/3/68
W.P.&A. Comments - Oct. 28, 1966
Drainage Added Sept 22, 1966
Drainage Added Aug 22, 1966
Grade Change Aug. 12, 1966
Grade Change July 22, 1966

GOV. WARFIELD PARKWAY
Sta. 234+00 To Sta. 244+

Horz. 1"=50', Vert. 1"=5' July 22, 1966

AS-BUILT ELEVATIONS CHECKED AUGUST 13, 1973 BY WALTER PARKS.

PURDUM & JESCHKE
CONSULTING ENGINEERS AND LAND SURVEYORS
1023 NORTH CALVERT STREET
BALTIMORE, MARYLAND 21202



Revision Only
March 26, 1969
July 10, 1970

#55

F-68-57 6-26-68 SHEET 8 OF 8
M. CARSKI - 3-12-74

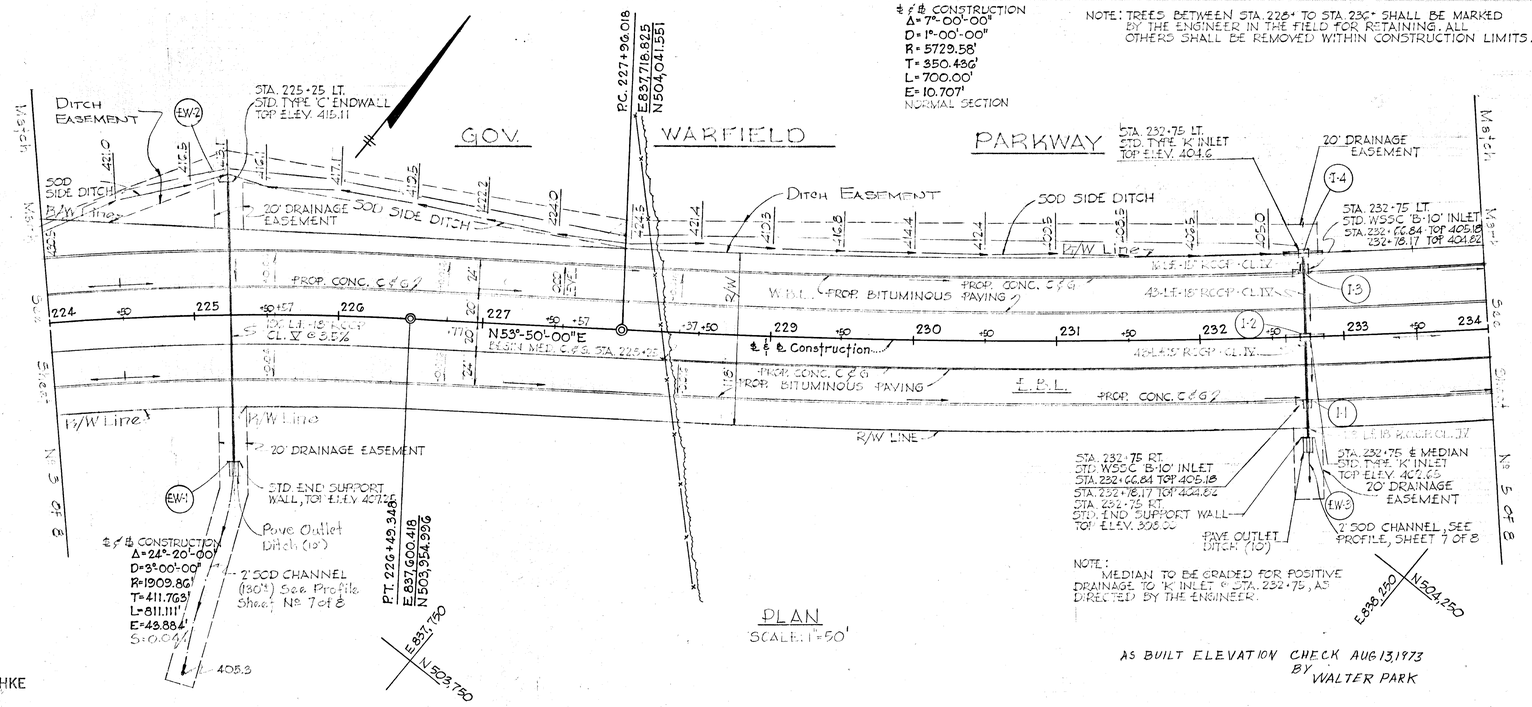
STRUCTURE SCHEDULE			
NO.	TYPE	TOP ELEV.	REMARKS
EW-2	'C'	415.11	HOWARD COUNTY STANDARD ENDWALL DRWG. D-52, P.107
EW-1	—	407.25	STANDARD END SUPPORT WALL SEE DRWG. D-46, P.101
EW-3	—	305.00	STANDARD END SUPPORT WALL SEE DRWG D-46, P.101
I-1	WSSC B-10'	405.18 404.82	SEE GENERAL NOTES SHEET 1 OF 8.
I-2	'K'	402.65	HOWARD COUNTY STANDARD DRAWING D-98, P.148
I-3	WSSC B-10'	405.18 404.82	SEE GENERAL NOTES SHEET 1 OF 8
I-4	'K'	404.6	HOWARD COUNTY STANDARD DRAWING D-98, P.148

℄ & ⅊ CONSTRUCTION
Δ = 7°-00'-00"
D = 1°-00'-00"
R = 5729.58'
T = 350.43'
L = 700.00'
E = 10.707'
NORMAL SECTION

NOTE: TREES BETWEEN STA. 228+ TO STA. 236+ SHALL BE MARKED BY THE ENGINEER IN THE FIELD FOR RETAINING. ALL OTHERS SHALL BE REMOVED WITHIN CONSTRUCTION LIMITS.

Storm Drain Profiles
Sta. 224+00 To 234+00 See Sheet No. 7 of 8

NOTE: VEHICULAR INGRESS AND EGRESS IS RESTRICTED ALONG THE ENTIRE ROADWAY SHOWN HEREON EXCEPT AT POINTS OF ACCESS APPROVED BY THE HOWARD COUNTY PLANNING COMMISSION.



PLAN
SCALE: 1"=50'

AS BUILT ELEVATION CHECK AUG 13, 1973
BY WALTER PARK

APPROVED
PLANNING COMMISSION
OF HOWARD COUNTY
DATE 3-26-69

STATE OF MARYLAND — WILLIAM DONALD SCHAEFER — REGISTERED PROFESSIONAL ENGINEER — No. 8000

William Donald Schaefer
April 26, 1969

REVISED FOR CONSTRUCTION PLANS	3-2-68
Drainage Added Sept 22, 1966	
Drainage Added Aug. 22, 1966	
Grade Change Aug 12, 1966	
Grade Change July 22, 1966	

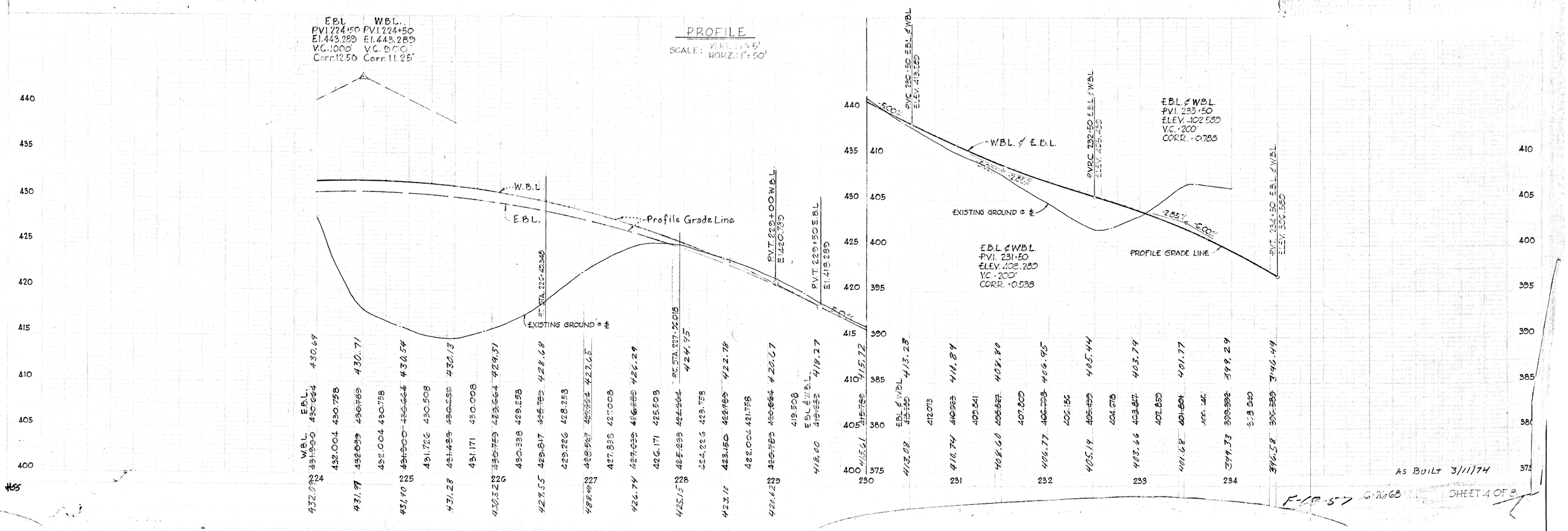
GOV. WARFIELD PARKWAY

Sta. 224+ To Sta. 234+

COLUMBIA

Scale: Horz. 1"=50' Vert. 1"=5' | July 22, 1966

PURDUM & JESCHKE
CONSULTING ENGINEERS
AND LAND SURVEYORS
1023 NORTH CALVERT STREET
BALTIMORE, MARYLAND 21202



As Built 3/11/74

E-10-57 6-26-68

SHEET 4 OF 8

For Construction of Gov Warfield Parkway From Little Patuxent Parkway to Station 813
See Sheet 12

Sta. 216+00 75' Lt
St'd End Support
Wall Inv. 398.00

30 LF± 15" BCCMP Type B, 16 Ga.
2-20° 15" BCCMP
Elbows Type B, 16 Ga.

St'd. End Support Wall
Inv. 392.0

398.0

Sod Side Ditch By Owner

Sod Side Ditch By Owner

Pave Inlet Ditch (10')

Pipe Inv.
El. 394.5

Sta. 217+50 Pedestrian Underpass 12'-2'x10'-0" CMPA
(Not in this Contract)

Sta. 216+00-43' Lt
Type 5 Inlet (Sag)
Top Grate El. 404.58

Sta. 216+00-℄
Type K Inlet
Top Wall El. 404.33

Δ = 10°-00'-00"
D = 4°-00'-00"
R = 1432.39'
T = 125.32'
L = 250.002'
E = 5.472'
S = 4.0%

P.T. 214+80.865
E. 836,889.259
N. 503,042.578

42 LF± 15" RCCP (Cl. IV)

Pave Outlet Ditch (10')

198 L.F. 30" RCCP (Cl. IV)
Pipe Inv.
El. 392.7

St'd. End Support Wall
Inv. 388.0

Note: For Details
See Special Plans
(Constructed Previously)

℄ Proposed Channel (80')
See Profile Sheet No. 23

℄ Prop. Channel (145')
See Profile Sheet No. 23

P.C. 218+38.237
E. 837,065.238
N. 503,353.619

Sta. 222+43.793 Gov. Warfield Parkway =
Sta. 0+21.30 Twin Rivers Road
E. 837,300.790
N. 503,682.830

℄ & ℄ CONSTRUCTION
Δ = 24°-20'-00"
D = 3°-00'-00"
R = 1,909.86'
T = 411.763'
L = 811.111'
E = 43.884'
S = 4.0%

GOV WARFIELD PARKWAY

TWIN RIVERS ROAD

W.B.L.

E.B.L.

P.C.C.

P.T.

P.C.

Woods

Bldg.

Proposed Curb & Paving to meet existing curb & paving for line and grade. (Sta. 222+75) E. 837,750 N. 504,000

Storm Drain Profiles
Sta. 2+79 See Sheet No. 9
Sta. 23+00 to 22+00 See Sheet No. 9

NOTE: VEHICULAR INGRESS AND EGRESS IS RESTRICTED ALONG THE ENTIRE ROADWAY SHOWN HEREON EXCEPT AT POINTS OF ACCESS APPROVED BY THE HOWARD COUNTY PLANNING COMMISSION.

APPROVED
PLANNING COMMISSION
OF HOWARD COUNTY
DATE 3-26-69

Revised For Construction Plans	3/1/8
Added Duct For Street Lighting, Added Note Line	5-1-87
Revised For Contract Plans	3-6-87
Added Drainage	9-22-86
Grade Revised	5-12-86
Grade Revised	7-22-81
Drainage	5-23-81
Grade	6/24/80
[illegible]	[illegible]

[redacted]

PLAN
SCALE: 1" = 50'

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

Limit of Construction
STATION 222+75

W.B.L.
P.V.I. 216+64.472
El. 404.013
V.C. 400'
Corr. 2.25'

E.B.L.
P.V.I. 216+64.472
El. 404.013
V.C. 400'
Corr. 2.25'

Existing Ground At ℄

Profile Grade Line

E.B.L.
P.V.I. 224+50
El. 443.289
V.C. 1000'
Corr. 12.50'

W.B.L.
P.V.I. 224+50
El. 445.289
V.C. 800'
Corr. 11.25'

Station	W.B.L.	E.B.L.
213	401.783	
214	402.080	
215	402.440	
216	402.680	
217	402.946	
218	403.071	
219	403.261	
220	403.621	
221	403.852	
222	404.252	
223	404.723	
224	405.245	
225	405.746	
226	406.556	
227	407.811	
228	408.35	
229	409.126	
230	409.679	
231	411.003	
232	412.127	
233	413.364	
234	414.530	
235	415.783	
236	416.893	
237	417.506	
238	418.133	
239	419.044	
240	420.133	
241	421.130	
242	422.223	
243	423.758	
244	424.064	
245	425.363	
246	426.269	
247	427.008	
248	427.644	
249	427.644	
250	428.235	
251	428.789	
252	429.235	
253	429.644	
254	430.064	
255	430.289	
256	430.506	
257	430.664	
258	430.900	

K+E PLATE 1, PLAN-PROFILE
KEUFFEL & ESSER CO.

46 7013 IMPERIAL™ TRACING CLOTH 27790

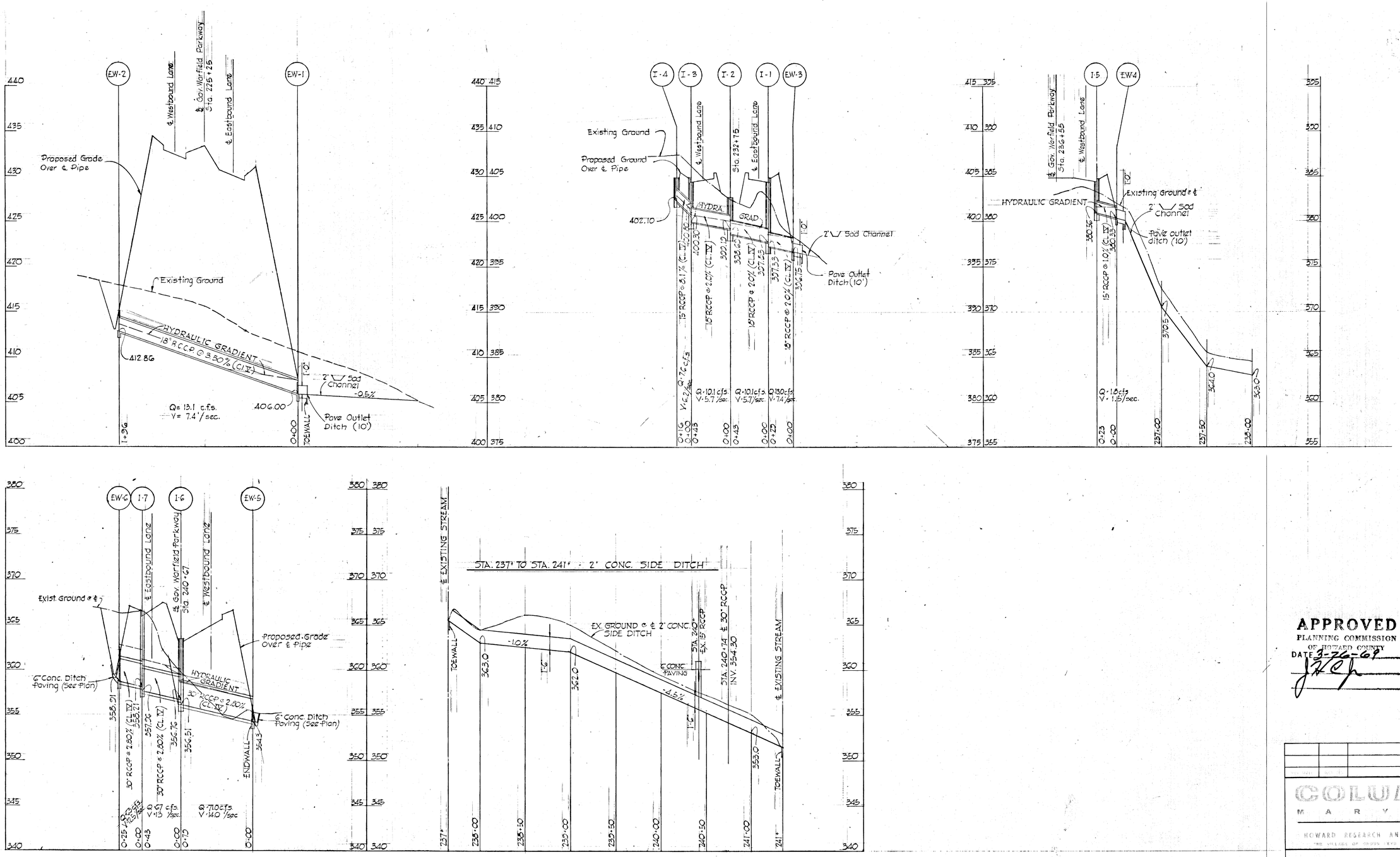
6-26-63

SHEET 3 OF 8

68-5

PLAN		BY	DATE
SURVEYED			
PLOTTED			
NOTE BOOK	ALIGNMENT CHECKED		
	RT. OF WAY CHECKED		
NO.			

PROFILE		BY	DATE
SURVEYED			
PLOTTED			
NOTE BOOK	GRADES CHECKED		
	B. M.'S NOTED		
NO.	STRUCTURE NOTAT'NS CH'KD		



STATE OF MARYLAND
WILLIAM G. PORTER
No. 5275
REGISTERED
Professional Engineers & Land Surveyors
William G. Porter
March 26, 1969

APPROVED
PLANNING COMMISSION
OF HOWARD COUNTY
DATE 3-26-69

COLUMBIA
MARYLAND
HOWARD RESEARCH AND DEVELOPMENT CORP.
THE VILLAGE OF WOODY LEVEL - BALTIMORE, MARYLAND 21210

GOV. WARFIELD PARKWAY

STORM DRAIN PROFILES

D.E.H.	HOR. 1"=50' VER. 1"=5'
D.E.H.	
B.M.J.	

PURDUM & JESCHKE
CONSULTING ENGINEERS &
LAND SURVEYORS
1023 N. CALVERT STREET
BALTIMORE, MARYLAND 21202

#55

F-68-57 6-26-68 SHEET 7 OF 8

TRANSITION SCHEDULE

WEST BOUND LANE

24' TRAFFIC LANE							12' DECELERATION LANE			
LEFT GUTTER	LEFT CORR.	LT. EDGE OF GUTTER	LT. EDGE CORR.	RATE	PGL ELEV.	STATION	SLOPE	DIST. RT. PGL	RIGHT CORR.	DECEL. LA. EDGE ELEV.
	+0.26		+0.30	0.0048		225+57				
432.04	+0.87	431.99	+0.82		431.17	+75				
431.54	+0.75	431.50	+0.71		430.79	226+00				
430.97	+0.63	430.93	+0.59		430.34	+25				
430.34	+0.52	430.30	+0.48		429.82	+49.35				
430.33	+0.51	430.30	+0.48		429.82	+50				
429.62	+0.30	429.60	+0.37		429.23	+75				
	+0.385		+0.36			+77				
428.84	+0.27	428.83	+0.26		428.57	227+00				
427.99	+0.15	427.98	+0.14		427.84	+25				
427.07	+0.03	427.07	+0.03		427.04	+50				
	+0.00		+0.00			+57				
426.08	-0.09	426.09	-0.08		426.17	+75				
425.02	-0.21	425.03	-0.20		425.23	228+00				
423.90	-0.33	423.92	-0.31		424.23	+25				
	-0.38		-0.36	0.0048		+37				
	-0.38		-0.36	0.0048		236+23.80				
385.71	-0.38	385.73	-0.36		386.09	+25				
384.33	-0.26	384.35	-0.24		384.59	+50				
382.95	-0.14	382.96	-0.13		383.09	+75				
381.57	-0.02	381.57	-0.02		381.59	237+00				
	0.00		0.00			+03.80				
380.19	+0.10	380.19	+0.10		380.09	+25				
378.81	+0.22	378.80	+0.21		378.59	+50				
377.43	+0.34	377.41	+0.32		377.09	+75				
	+0.384		+0.36			+83.80				
376.05	+0.46	376.02	+0.43		375.59	238+00				
374.67	+0.58	374.64	+0.55		374.09	+25				
373.29	+0.70	373.25	+0.66		372.59	+50				
	+0.75		+0.71			+00.47				
372.02	+0.82	371.97	+0.77		371.20	+75				
370.67	+0.94	370.61	+0.88		369.73	239+00				
369.56	+1.06	369.50	+1.00		368.50	+25				
368.60	+1.18	368.53	+1.11		367.42	+50				
367.78	+1.30	367.70	+1.22		366.48	+75				
	+1.32		+1.24	0.0048		+78.80				
366.31	+1.32	366.23	+1.24	0.0048	364.99	242+25				
366.83	+1.20	366.76	+1.13		365.63	+50				
367.48	+1.08	367.41	+1.01		366.40	+75				
368.16	+0.96	368.10	+0.90		367.20	243+00				
368.84	+0.84	368.79	+0.79		368.00	+25				
	+0.75		+0.70			+43.80				
369.52	+0.72	369.48	+0.68		368.80	+50				
372.20	+0.60	370.16	+0.56		369.60	+75				
370.88	+0.48	370.85	+0.45		370.40	244+00				
	+0.38		+0.40			+20.47				
371.48	+0.36	371.46	+0.34		371.12	+25				
371.92	+0.24	371.91	+0.23		371.68	+50				
372.21	+0.12	372.21	+0.12		372.09	+75				
372.34	0.00	372.34	0.00		372.34	245+00				
372.32	-0.12	372.33	-0.11		372.44	+25				
372.14	-0.24	372.16	-0.22		372.38	+50				
371.80	-0.36	371.82	-0.34		372.16	+75				
	-0.38		-0.36	0.0048		+80				

EAST BOUND LANE

12' DECELERATION LANE				24' TRAFFIC LANE						
DECEL. LA. EDGE ELEV.	LEFT CORR.	DIST. LEFT PGL	SLOPE	STATION	PGL ELEV.	RATE	RT. EDGE CORR.	RT. EDGE OF GUTTER	RIGHT CORR.	RIGHT GUTTER
				225+57		0.0048	-0.30		-0.36	
				+75	430.01		-0.82	422.19	-0.87	429.14
				226+00	429.66		-0.71	428.95	-0.75	428.91
				+25	429.26		-0.59	428.67	-0.63	428.63
				+49.35	428.79		-0.48	428.31	-0.52	428.27
				+50	428.79		-0.48	428.31	-0.51	428.28
				+75	428.26		-0.37	427.89	-0.39	427.87
				+77		0.0048	-0.36		-0.38	
				237+83.80		0.0048	-0.36		-0.38	
				238+00	375.59		-0.43	375.16	-0.46	375.13
				+25	374.09		-0.55	373.54	-0.58	373.51
				+50	372.67		-0.66	372.01	-0.70	371.97
				+60.47			-0.71		-0.75	
				+75	371.42		-0.77	370.65	-0.82	370.60
				239+00	370.32		-0.88	369.44	-0.94	369.38
				+25	369.40		-1.00	368.40	-1.06	368.34
				+50	368.63		-1.11	367.52	-1.18	367.45
				+75	368.00		-1.22	366.78	-1.30	366.70
				+78.80		0.0048	-1.24		-1.32	
				242+25	370.66	0.0048	-1.24	369.42	-1.32	369.34
				+50	371.45		-1.13	370.32	-1.20	370.25
				+75	372.24		-1.01	371.23	-1.08	371.16
				243+00	373.02		-0.90	372.12	-0.96	372.06
				+25	373.75		-0.79	372.96	-0.84	372.91
				+43.80			-0.70		-0.75	
				+50	374.35		-0.68	373.67	-0.72	373.63
				+75	374.83		-0.56	374.27	-0.60	374.23
				244+00	375.18		-0.45	374.73	-0.48	374.70
				+20		0.0048	-0.36		-0.38	

STATE OF MARYLAND
WILLIAM M. JESCHKE
No. 119
Registered Professional Engineer & Land Surveyor

William M. Jeschke
March 24, 1969

APPROVED
PLANNING COMMISSION
OF HOWARD COUNTY
DATE 3-26-69

Rev. Date	Rev. No	Desc.

COLUMBIA
MARYLAND

OWNER
HOWARD RESEARCH AND DEVELOPMENT CORP.

PROJECT AREA:
GOV. WARFIELD PARKWAY

PROJECT TITLE:
SUPERELEVATION TRANSITIONS

Des. By: D.E.H.	Scale:	Dwg. No.
Drn. By: D.E.H.	Date:	C.C.F. No.
Chk. By:	Approved:	

PURDUM & JESCHKE
CONSULTING ENGINEERS &
LAND SURVEYORS
1023 N. CALVERT STREET
BALTIMORE, MARYLAND 21202

#55

F-68-57 6-26-68 SHEET 8 OF 8