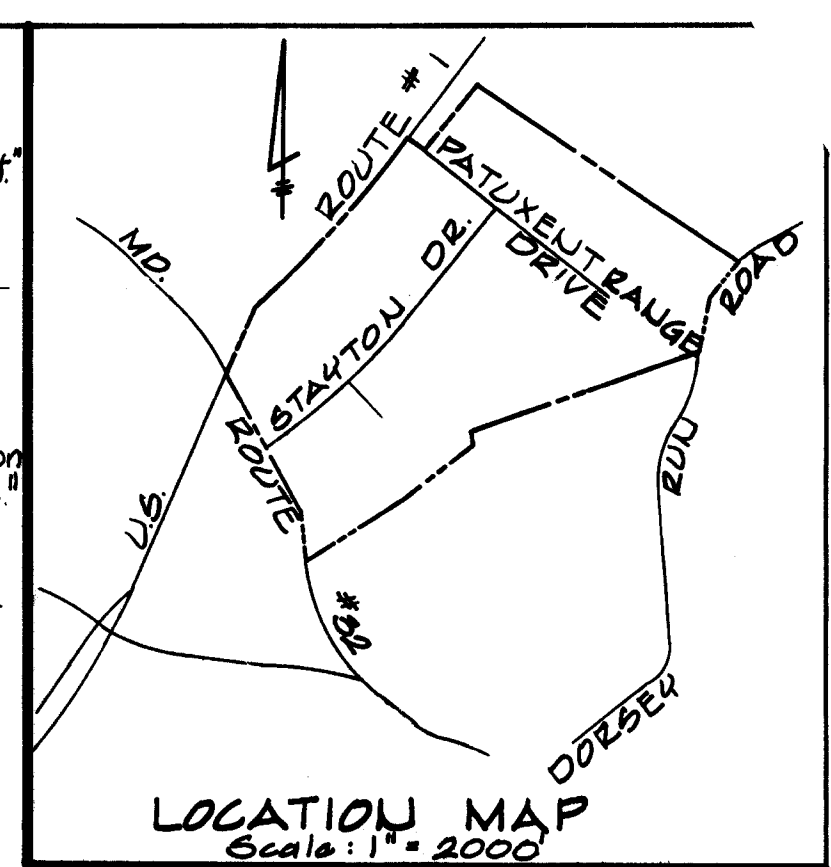


NOTE:  
 HORIZONTAL CONTROL:  
 BASED ON "PLANE COORDINATES-  
 MARYLAND STATE SYSTEM"  
 BERKE AZIMUTH MARK 1964  
 N 477,803.34  
 E 854,187.53

VERTICAL CONTROL:  
 PIPES & MONUMENTS SHOWN ON PLAN

\* This Development Plan Is Approved For Soil Erosion And Sediment Control By The Howard Soil Conservation District.  
 Approved Robert W. J. [Signature] 8/15/76  
 Howard S.C.D. Date

\* Reviewed For Howard Soil Conservation District And Meets Technical Requirements.  
Eric V. Norman 8/15/76  
 Signature Date  
 U.S. Soil Conservation Service



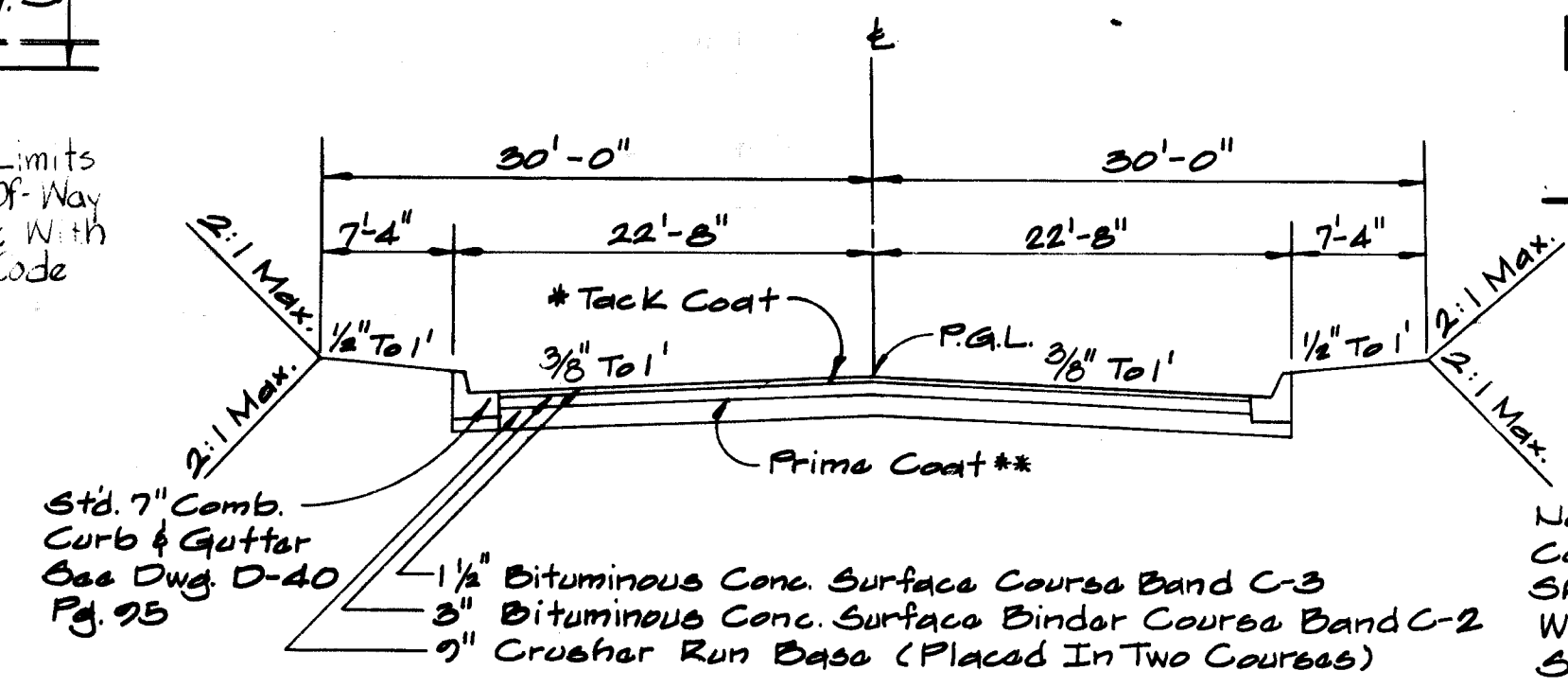
APPROVED  
 DIVISION OF LAND DEVELOPMENT

HOWARD COUNTY, MARYLAND  
 DATE JUNE 10, 1976

Developers Certification  
 "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 On-Site Inspection By The Howard Soil Conservation District Or Their Authorized Agents, As Are Deemed Necessary."  
Joseph J. Hook  
 Signature Of Developer  
 5/12/76  
 Date

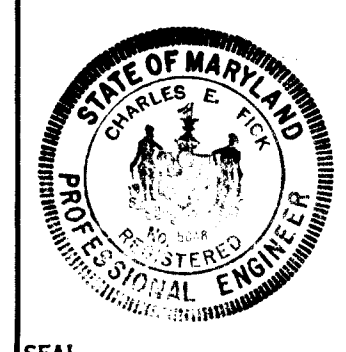
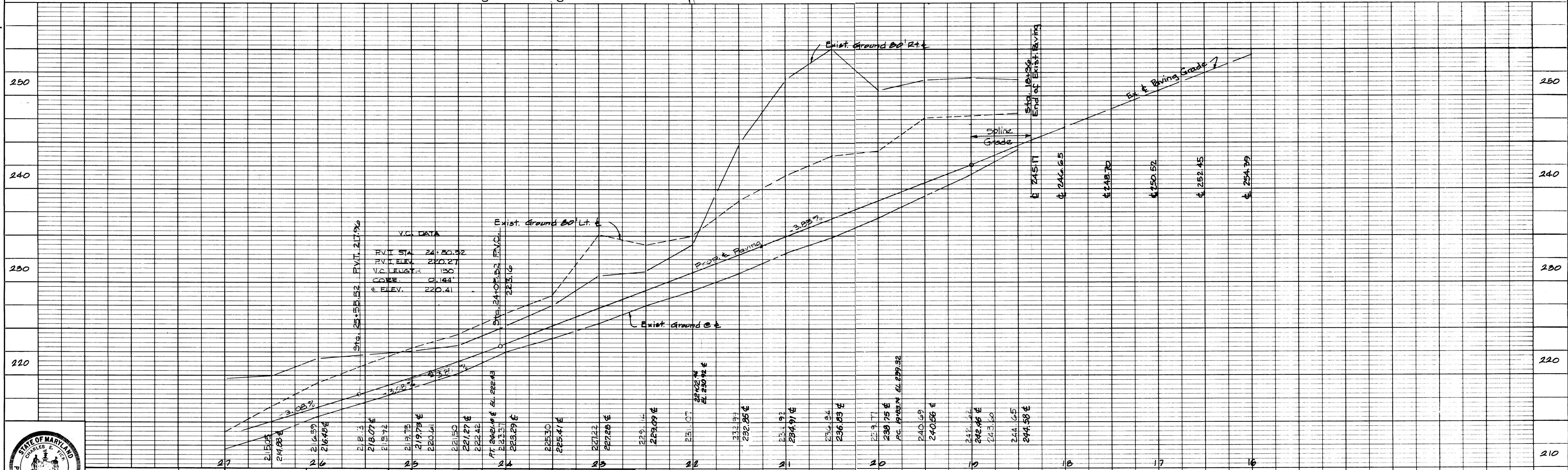
Engineers Certification  
 "I Certify This Plan For Erosion And Sediment Control Represents A Practical & Workable Plan Based On My Personal Knowledge Of The Site Conditions And That It Was Prepared In Accordance With The Requirements Of The Howard Soil Conservation District."  
Charles E. Fick  
 Signature Of Engineer  
 5/13/76  
 Date

NOTE: Trench Compaction Within Limits Of Road Or Street Right-Of-Way To Be Done In Accordance With The Howard County Road Code



Note: All Materials And Construction Methods Shall Be In Accordance With Howard County Standards.

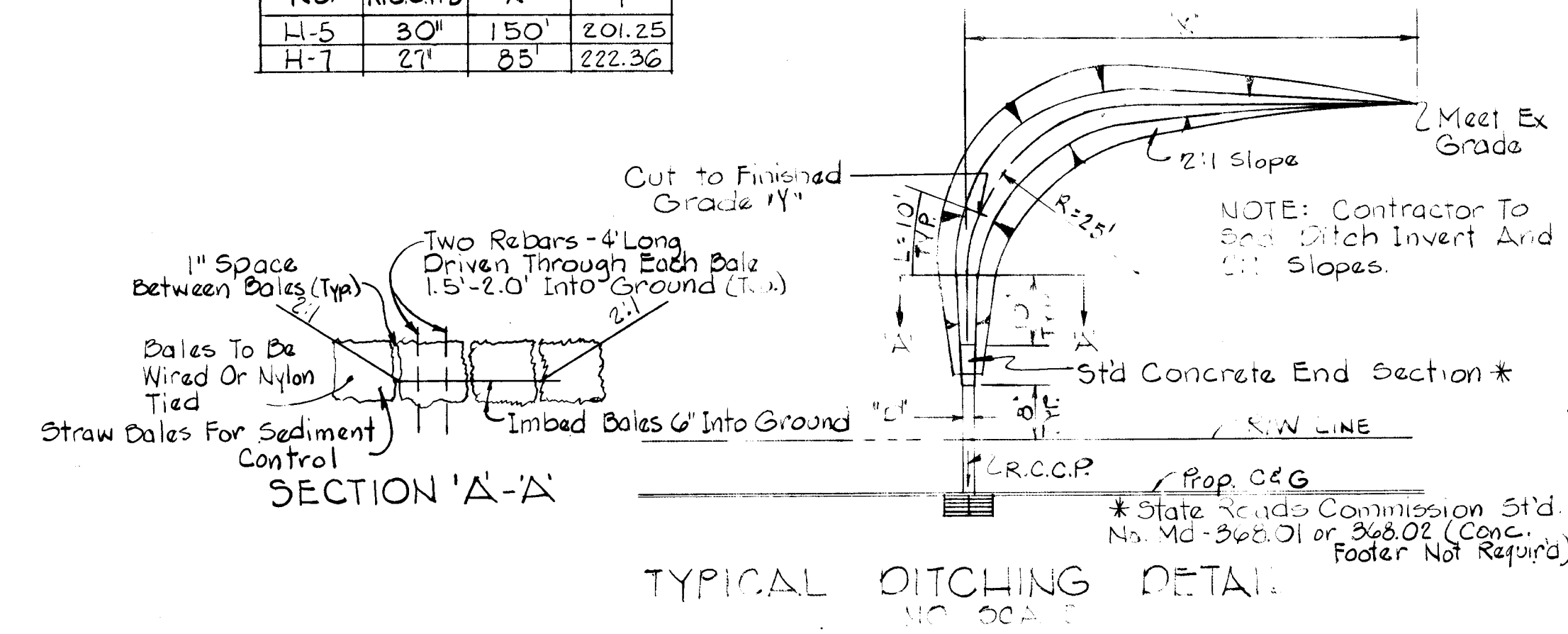
\* Tack Coat As Per Howard Co. Specs, Section C-81-A  
 \*\* Prime Coat As Per Howard Co. Specs, Section C-80-S



DESIGNED: H.F.S.	AW. STEPHENS JR. & ASSOC.	GEORGE W. STEPHENS JR. & ASSOC.	CONSULTING ENGINEERS	303 ALLEGHELY AVE.	TOWSON, MARYLAND 21204
DRAWN: G.R.G.	ENGINEER: Charles E. Fick	OFFICE OF PLANNING & ZONING	DEPARTMENT OF PUBLIC WORKS	OWNER & DEVELOPER	Joseph J. Hook, Inc.
CHECKED: H.F.S.	DATE: 5/12/76 LIC. NO. 5048	Chief, Division of Land Development	Chief, Bureau of Highways	5501 Belle Grove Road	Baltimore, Maryland 21225
SCALE	PLAN: 1"=50'	PROFILE: HOR. 1"=50'	VERT. 1"=5'	DATE	REVISION
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS BUREAU OF ENGINEERING			SHEET 1 OF 5		
Baltimore Washington Industrial Park			DWG. NO.		
STAYTON DRIVE			FILE:		
Howard County, Maryland			EL. DISTRICT NO. 6		
BALTIMORE COUNTY TYPE NUMBER 3			AS-BUILT AUG. 16, 1979 F-76-61		



CONG. END SECTION SCHEDULE			
No.	R.C.C.P. D	X'	Y'
H-5	30"	150'	201.25
H-7	27"	85'	222.36



APPROVED  
DIVISION OF LAND DEVELOPMENT

HOWARD COUNTY, MARYLAND  
DATE JUNE 10, 1976  
JNCT

Reviewed For Howard Soil Conservation District And Meets Technical Requirements  
Eric D. Herman  
Signature  
U.S. Soil Conservation Service  
Date 6/5/76

This Development Plan Is Approved For Soil Erosion And Sediment Control By The Howard Soil Conservation District.  
Approved: Robert W. [Signature]  
Howard S.C.D.  
Date 6/15/76

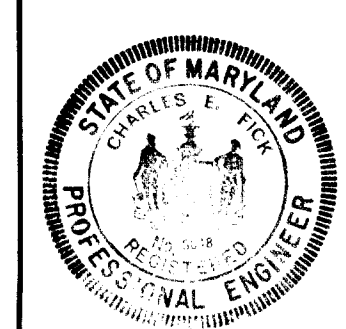
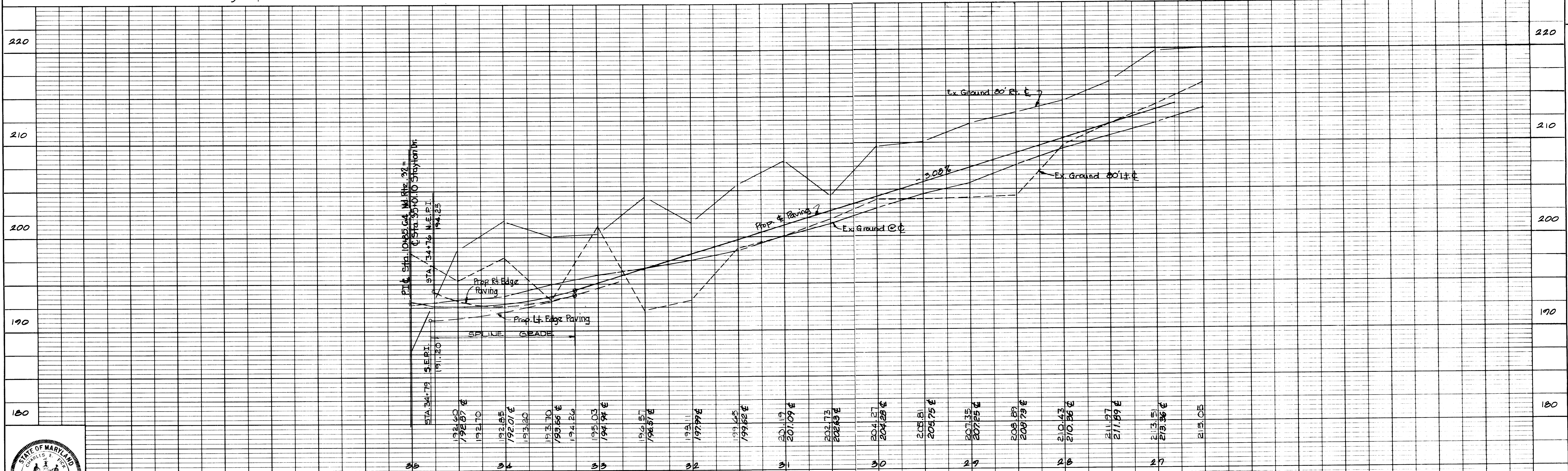
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Joseph J. Hock  
Signature Of Developer  
Date 5/12/76

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"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."

Charles E. Fiel  
Signature Of Engineer  
Date 5/12/76

Design Speed 30 M.P.H.



OFFICE OF PLANNING & ZONING DWS. COMPLETED

DESIGNED: H.F.S. AW STEPHENS JR & ASSOC.  
DRAWN: H.F.S. ENGINEER: Charles E. Fiel  
CHECKED: H.F.S. DATE: 2/12/76 LIC. NO. 5048  
GEORGE W. STEPHENS JR & ASSOC.  
CONSULTING ENGINEERS  
303 ALLEGHENY AVE.  
TOWSON, MARYLAND 21286

OFFICE OF PLANNING & ZONING  
Chief, Division Of Land Development  
JN Clayton Date 6/13/76

DEPARTMENT OF PUBLIC WORKS  
Chief, Bureau Of Highways  
JN Clayton Date 5/9/76  
OWNER & DEVELOPER  
Joseph J. Hock, Inc.  
501 Belle Grove Rd.  
Baltimore, Maryland 21225

DATE	REVISION	BY

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

HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS BUREAU OF ENGINEERING  
**BALTIMORE WASHINGTON INDUSTRIAL PARK**  
**STAYTON DRIVE**  
Howard County, Maryland  
EL. DISTRICT NO. 6  
BALTIMORE COUNTY TYPE NUMBER 3

Contract No. \_\_\_\_\_  
SHEET 2 OF 5  
DWG. NO. \_\_\_\_\_  
FILE: \_\_\_\_\_







# STORM DRAIN DESIGN DATA

Location From To	Area	Acres	Co-eff. C	C.A.	E.C.A.	Time Inlet	Concn. Min.	I	R <sup>2</sup> c.f.s.	Pipe n°	Size	Slope	Vel.	Lgth.	Remarks
M-7	1	11.15	0.21	8.41	8.99	9.9	2.1	9.84	2.0	20"	2.0	11.0	2.92'		
M-7	2	10.68	0.21	8.41	17.40	9.9	2.1	5.55	2.0	20"	2.0	14.2	2.31'		
M-7	3	21.80	0.21	8.41	22.25	9.9	2.1	10.65	2.0	20"	2.0	14.2	2.31'		
H-7	I-7	A	6.86	0.77	5.28	10.0	6.1	33.86	27"	1.3	8.4	20'			
I-7	Wye	A+B	0.34	0.78	0.265	10.0	6.1	10.65	27"	2.0	14.2	2.31'			
I-7	Wye	A+B+H+2	7.20	0.78	0.265	10.0	6.1	10.65	27"	2.0	14.2	2.31'			
Bulkhead	I-8	C	3.26	0.8	2.60	9.0	6.25	16.25	21"	1.2	6.6	8'			
I-8	D	0.46	0.78	0.36	9.0	6.25	2.33	7.5	21"	1.5	7.5	23'			
I-8	Wye	C+D	3.72	0.78	0.36	9.0	6.25	18.50	21"	1.5	7.5	23'			
Wye	M-6	A-D+H+2	22.72	0.8	7.11	10.65	0.11	10.76	42"	2.6	16.0	25'			
Bulkhead	M-6	E	8.89	0.8	7.11	13.0	5.65	40.17	27"	1.9	10.0	30'			
M-6	M-5	A-E+H+2	41.61	0.68	6.65	10.76	0.03	10.79	48"	2.1	15.6	48.0'			
H-5	I-5	F	9.78	0.68	6.65	9.0	6.25	41.56	30"	1.15	8.3	8'			
I-5	G	0.41	0.79	0.324	9.0	6.25	2.12	7.4	30"	1.3	8.6	25'			
I-5	M-5	F+G	10.19	0.80	4.32	9.0	6.25	27.00	24"	1.6	8.4	8'			
Bulkhead	I-6	H	5.4	0.80	4.32	9.0	6.25	27.00	24"	1.6	8.4	8'			
I-6	I	0.34	0.79	0.27	9.0	6.25	1.78	7.0	27"	1.0	7.1	25'			
I-6	M-5	H+I	5.74	0.80	4.32	9.0	6.25	28.69	27"	1.0	7.1	25'			
M-5	M-4	A+H+2	57.54	0.80	4.32	10.79	0.52	11.31	54"	1.9	16.4	51.0'			
Bulkhead	I-4	J	1.26	0.80	1.01	9.0	6.25	33.0	27"	1.25	8.1	18'			
I-4	K	0.36	0.81	0.29	9.0	6.25	1.02	6.0	15"	0.03	0.80	8'			
I-4	M-4	J+K	1.62	0.81	0.29	9.0	6.25	33.0	27"	1.25	8.1	18'			
Bulkhead	Wye	L	6.4	0.78	4.99	9.0	6.25	31.19	18"	1.0	7.6	13'			
I-3	M-4	L+M	0.36	0.81	0.29	9.0	6.25	33.0	27"	1.25	8.1	18'			
M-4	M-1	A+M+H+2	65.92	0.80	4.32	11.31	0.52	11.83	60"	1.40	15.1	26'			
E-1	M-3	N	4.09	0.76	1.02	9.0	6.25	20.44	24"	0.9	6.4	5'			
Bulkhead	M-3	N	4.09	0.80	3.27	9.0	6.25	20.44	24"	0.9	6.4	5'			
M-3	M-2	O	4.09	0.80	3.27	9.0	6.25	20.44	24"	0.9	6.4	5'			
I-2	M-2	N	0.22	0.70	0.15	9.0	6.25	1.02	15"	0.03	0.80	8'			
M-2	M-1	N+O	4.31	0.76	1.02	9.0	6.25	20.44	24"	0.9	6.4	5'			
M-1	S-1	A-O+H+2	70.23	0.80	4.32	11.83	0.03	11.86	60"	1.6	16.0	22'			
S-1	A-O+H+2	70.23	0.80	4.32	11.83	0.03	11.86	60"	1.6	16.0	22'				
E-2	Wye	Z	6.44	0.82	5.28	9.0	6.25	33.0	36"	0.24	4.6	32'			
I-1	Wye	Z	0.86	0.78	0.44	9.0	6.25	2.97	15"	0.24	2.4	13'			
Wye	Z	0.86	0.78	0.44	9.0	6.25	2.97	15"	0.24	2.4	13'				
E-3	A-Q+H+2	77.23	0.80	4.32	12.10	0.02	12.12	5.75	72"	0.70	12.2	40'			

### INLET SCHEDULE

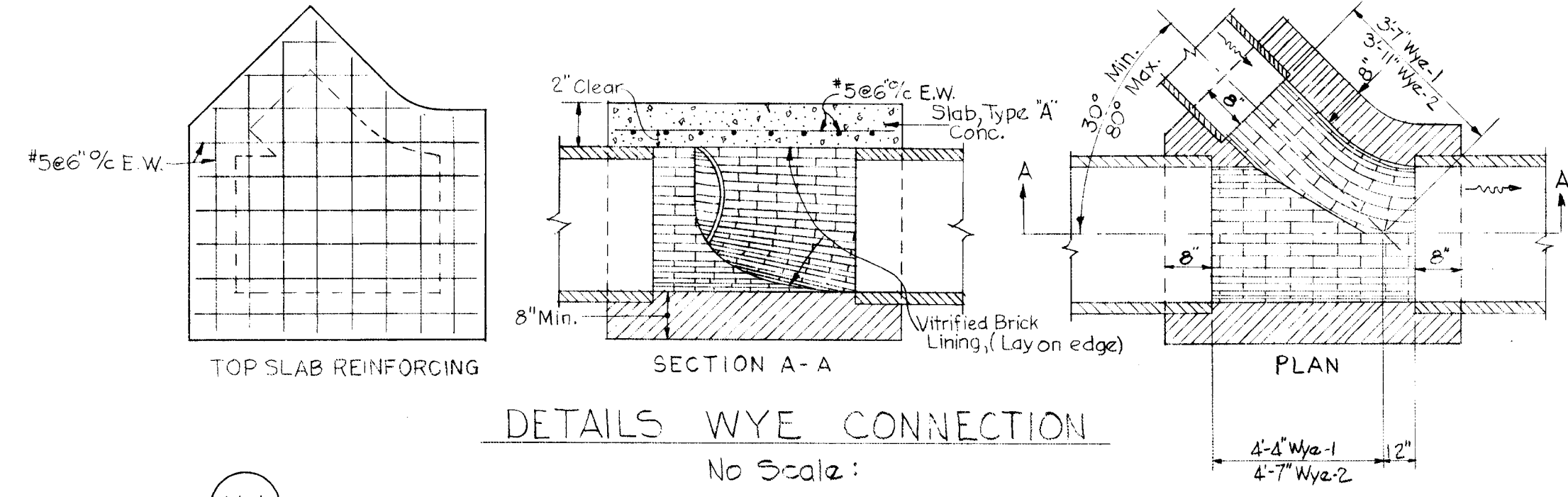
No.	Type	R	Inv. Out	Top Elev.	Remarks
1	'S' Comb.	2.97	179.15	179.60	182.96 TC.
2	'S' Comb.	1.02	192.78	193.78	198.08 TC.
3	'S' Comb.	1.91	188.91	189.30	193.11 TC.
4	'S' Comb.	1.91	188.93	189.78	192.04 TC.
5	'S' Comb.	2.12	199.44	200.81	206.68 TC.
6	'S' Comb.	1.78	199.82	201.06	206.65 TC.
7	'S' Comb.	1.76	221.18	221.98	226.50 TC.
8	'S' Comb.	2.33	216.66	218.34	223.06 TC.

### MANHOLE SCHEDULE

No.	Type	Size	Inv. Out	Top Elev.	Remarks
1	'C'	60"	182.78	181.00	192.66
2	Standard	48"	192.76	197.45	NOT BUILT
3	Standard	48"	205.49	209.50	209.93
4	'C'	60"	182.67	184.06	192.96
5	'C'	54"	197.38	197.31	206.27
6	Standard	48"	212.14	212.45	221.27
7	Standard	48"	223.33	223.38	232.15

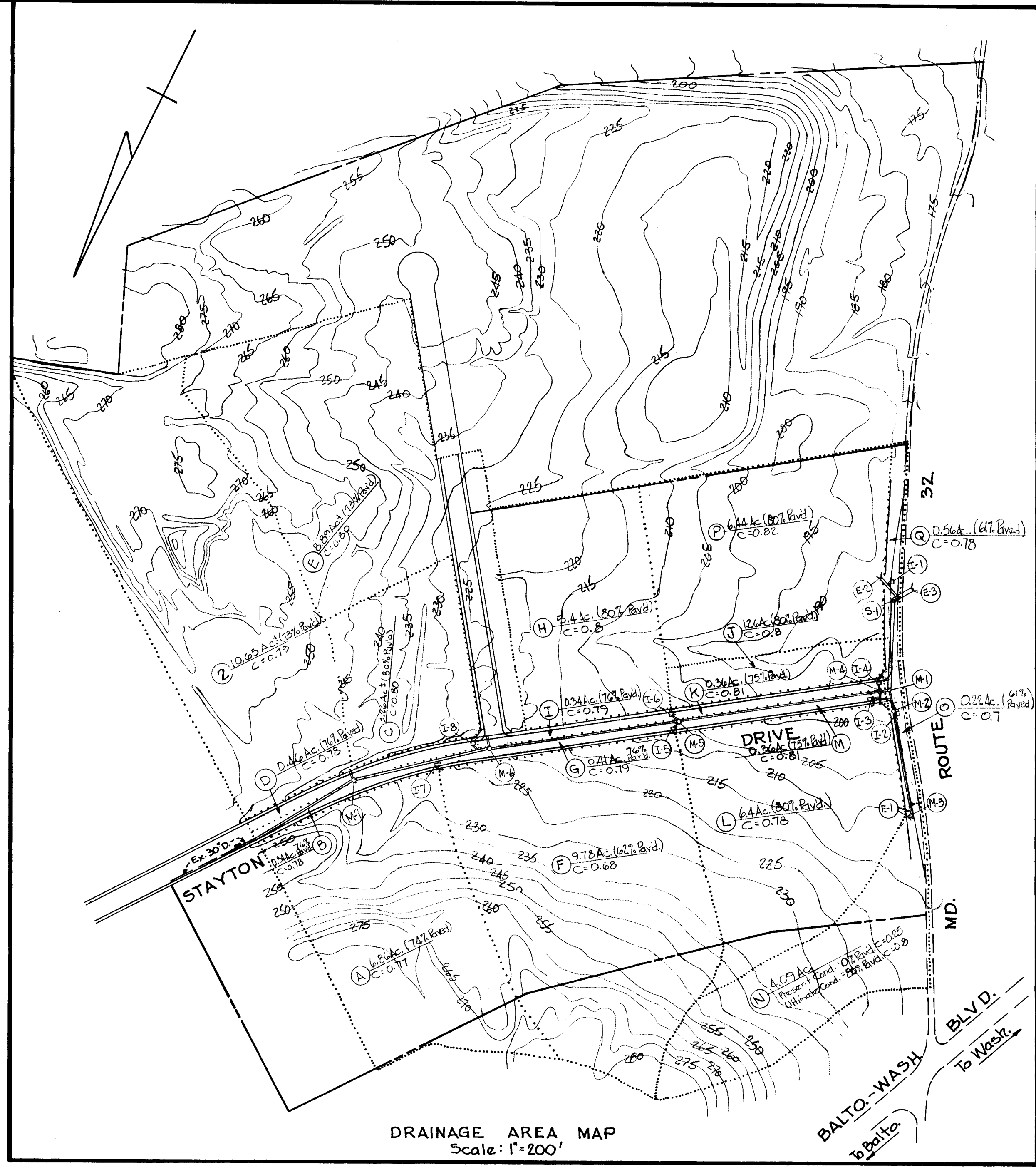
### STRUCTURE SCHEDULE

No.	Type	Size	Inv. Out	Top Elev.	Remarks
E-1	'C'	15"	205.69	207.58	207.71
E-2	'F'	36"	179.36	177.26	181.26
E-3	'B-72"	72"	173.68	180.73	

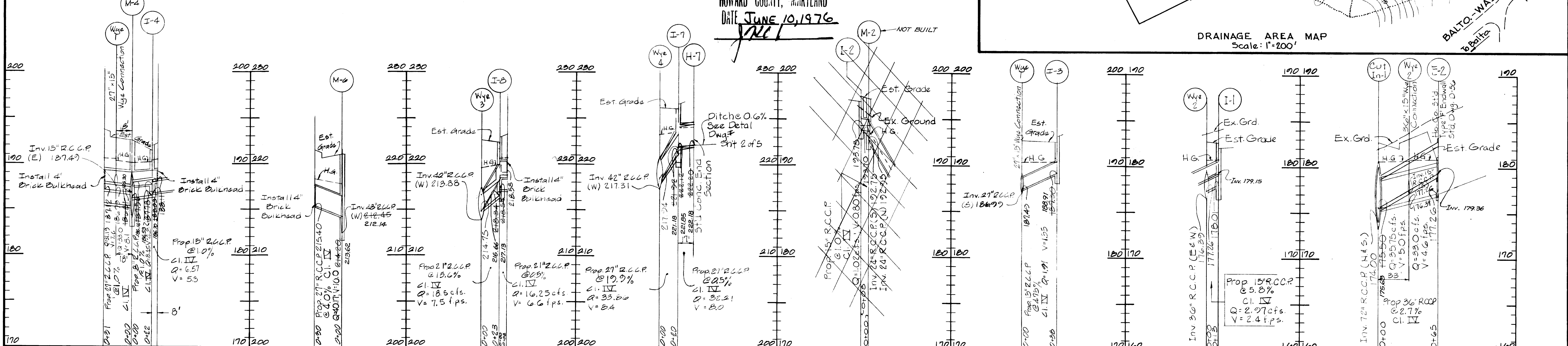


DETAILS WYE CONNECTION  
No Scale:

APPROVED  
DIVISION OF LAND DEVELOPMENT  
HOWARD COUNTY, MARYLAND  
DATE JUNE 10, 1976  
*J.H.C.*



DRAINAGE AREA MAP  
Scale: 1"=200'



DESIGNED H.F.S.	G.W. STEPHENS JR. & ASSOC.	ENGINEER	OWNER & DEVELOPER	OFFICE OF PLANNING & ZONING	DEPARTMENT OF PUBLIC WORKS	HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS BUREAU OF ENGINEERING	DATE	REVISIONS	BY	SHEET NO 4 OF 5
DRAWN G.R.A.	ENGINEER: <i>Charles P. Sieb</i> R.E.A. NO. 5248	GEORGE W. STEPHENS JR. & ASSOC. 303 ALLEGHEMY AVE. TONSOL, MARYLAND 21204	JOSEPH J. HOCH, INC. 5501 BELLE GROVE RD. BALTIMORE, MARYLAND 21205	CHIEF DIVISION OF LAND DEVELOPMENT <i>J.H. Clawson</i>	CHIEF, BUREAU OF HIGHWAYS <i>E. W. Wickland</i>	BALTIMORE WASHINGTON INDUSTRIAL PARK STAYTON DRIVE STORM DRAINS HOWARD COUNTY, MARYLAND ELECT. DISTRICT #6				DRAWING NO. CONTRACT NO. FILE
CHECKED	DATE: 2/18/76			DATE: 8/13/76	DATE: 8/9/76					



