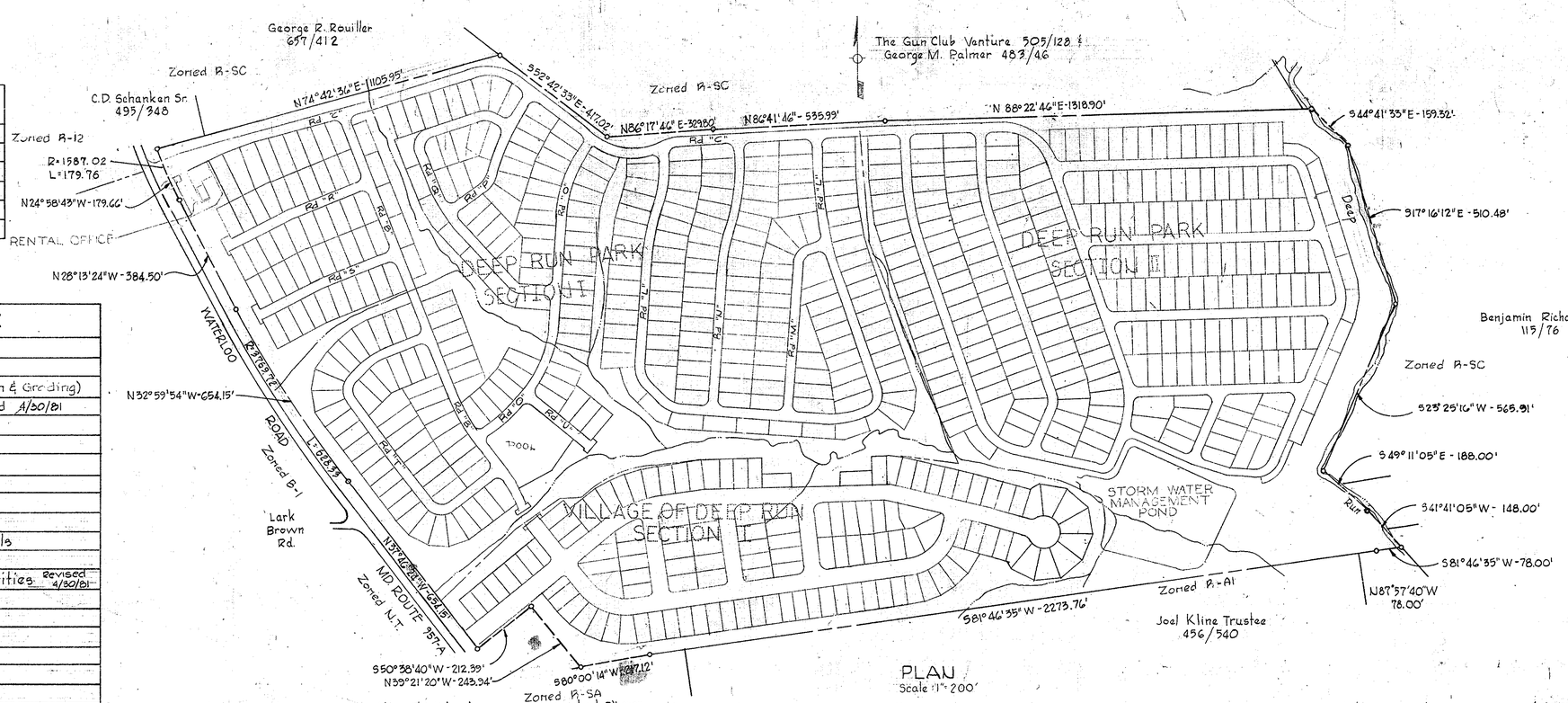
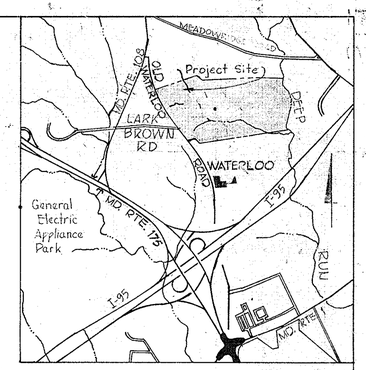
DEVELOPMENT SUMMARY SECTION I
55.8 Ac. Total Development
11.9 Ac. Open Space
306 Lots - 0.11 Ac. Avg.
1 Swimming Pool w/Bath House
1 Rental Office Building
12,500 L.F. Road - 30'



PLAN
Scale: 1" = 200'



VICINITY MAP
Scale: 1" = 2000'

LEGEND

- Street Light
- Limit of Flood Plain
- Woods Line
- Existing Tree
- Property or Right of Way Line
- Existing Contour
- Mail Box
- Chain Link Fence
- Proposed Ditch
- Existing Ditch
- 6" Perforated Underdrain Pipe
- Storm Trench Collector
- Tot Lot (Limits of Play Area)
- Proposed Contour
- Concrete Sidewalk
- Handicapped Parking
- Handicapped Ramp

SHEET INDEX

No.	DESCRIPTION
1	Cover Sheet
2	Plan (Water, sewer, Storm Drain & Grading)
3	" Revised 4/30/81
4	"
5	Road Profiles
6	"
7	"
8	"
9	Lot Area Schedule
10	Sewer Plan, Profile & Details
11	Details
12	Details, Estimate of Quantities Revised 4/30/81
13 & 14	Storm Drain Profiles
15 & 16	Swale Profiles
17	Drainage Area Map
18	Sewer Profiles
19	"
20	"
21	"
22	" Revised 4/30/81
23	"
24	Water Profiles
25	" Revised 4/30/81
26	"
27	Sediment Control Plan
28	" " "
29	" " "
30	" " "
31	Sediment Control Details
32	Landscape Plan & Details
33	Details
34	Pool Details
35	Pool House
36	Pool House, Mechanical & Construction Details
37	Office Building
38	Office Building, Mechanical & Construction Details
39	Office Building, Construction Details
40	Pool Office Building Specifications
41	" " "

GENERAL NOTES

1. Approximate location of existing mains are shown. The Contractor should take all necessary precautions to protect existing mains and services and maintain uninterrupted supply. Any damage incurred shall be replaced immediately.
2. All pipe elevations shown are invert Ⓘ elevations.
3. The Contractor shall locate existing utilities a minimum of two weeks in advance of construction operations in vicinity of utilities.
4. All utility companies shall be notified 5 days in advance of construction.
5. Road and Storm Drains:
   a. All work shall be performed in accordance with the Howard County Road Construction Code and Standard Specifications.
   b. All inlets shall be Howard County Standard.
6. All water mains shall have a minimum of 3½ foot of cover.
7. Storm Water Management Basin design in Village of Deep Run shall be approved prior to the Deep Run Park Construction.
8. All exposed concrete shall be 3500 p.s.i. w/air entrainment.
9. All Roadway Boxes shall have locking covers.
10. Clear all utilities by a minimum of 6".
11. All 6" & 8" water mains shall be C.I.P. or D.I.P. 2" water shall be PVC, SDR26, ASTM D2241.
12. All W.H.C.'s shall be ¾" diameter, unless otherwise noted.
13. All valves shall be strapped to tees where applicable in accordance with Howard County Standards.
14. Buryline elevations on Fire Hydrants shall be set to elevation shown on plan.
15. All sewer mains shall be C.S.P.X., V.C.P.X., A.C.P. Class 2400 or PVC SDR35 unless otherwise noted.
16. All manholes shall be 4'-0" inside diameter.
17. The contractor shall provide a joint in all sewer mains within 2'-0" of the exterior manhole walls.
18. All Fire Hydrants shall be set 2.0' back from edge of road without sidewalk, 4.0' back with sidewalk unless otherwise noted on the plan.
19. The limits of each mobile home lot shall be clearly marked on the ground by permanent flush stakes. The location of lot limits on the ground shall be approximately the same as shown on the plans. Precise survey of lot corners is not required.
20. Trash will be picked up at curb side, twice weekly, for each individual lot.

SITE DEVELOPMENT PLAN

DEEP RUN PARK

SECTION I

Notes:

1. Present Zoning: RMH
2. Net Acreage: 46.7 Ac
3. Dwelling Units per net acre: 6.55 DU/net. Ac.
4. Total area: 55.823 Ac.
5. Open Space Area: 11.947 Ac.
6. % Open Space: 21.40%
7. Internal Road Area.: 8.476 Ac.
8. P.B. NO. 4649 - 4650

OWNER: DEEP RUN ASSOCIATES
3701 OLD COURT ROAD #11
BALTIMORE, MARYLAND 21208
BY_____ DATE _____

ENGINEER: WHITMAN, REQUARDT AND ASSOCIATES
1111 NORTH CHARLES STREET
BALTIMORE, MARYLAND 21201
BY_____ DATE _____

ENGINEER: (RENTAL OFFICE AND POOL HOUSE) CALLAHAN ASSOCIATES, INC.
57 WEST TIMONIUM ROAD, SUITE 108
TIMONIUM, MARYLAND 21093
BY_____ DATE _____

CONTRACTOR:
BY_____ DATE _____

BONDING COMPANY:
BY_____ DATE _____

MORTGAGE COMPANY
BY_____ DATE _____

CONCORD MORTGAGE
8701 GEORGIA AVENUE
SUITE 600
SILVER SPRING, MD. 20910

WHITMAN, REQUARDT & ASSOCIATES
ENGINEERS
1111 N. CHARLES STREET
BALTIMORE, MARYLAND
KENNETH A. McCORD, P.E. 1974

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING
PLANNING DIRECTOR — DATE 8-18-80
CHIEF, DIVISION OF LAND DEVELOPMENT — DATE 8-18-80

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE AND STORM DRAINAGE SYSTEMS AND ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DIRECTOR — DATE 8-11-80
CHIEF, BUREAU OF ENGINEERING — DATE 8-11-80

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT
APPROVED: William J. Rauch HOWARD S.C.D. DATE: 8-13-80
SIGNATURE: U.S. CONSERVATION SERVICE — DATE: 8-13-80

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT
COUNTY HEALTH OFFICER — DATE 8-14-80

APPROVED
DIVISION OF LAND DEVELOPMENT
HOWARD COUNTY, MARYLAND
DATE 7-8-80

OWNER AND DEVELOPER
DEEP RUN ASSOCIATES
3701 OLD COURT ROAD UNIT #11
BALTIMORE, MARYLAND 21208

SITE DEVELOPMENT PLAN
DEEP RUN PARK SECTION I
COVER SHEET
FIRST ELECTION DISTRICT OF HOWARD COUNTY, MARYLAND
TAX MAP 37 PARCEL 163
DATE: November 15, 1979 SCALE: As Noted

J.O.
FILE
SHEET 1 OF 33

7-1-80

SDP-80-95

PLAN

Scale: 1"=50'

Note:
For Landscaping Details
See Sheet 32

State Road
Commission
Plat No. 12447

CURVE DATA TABLE

No.	Chord	Arc	Radius	P.C.	Bearing	Delta	Tan.	P.T.
1	112.22'	112.28'	1000.00'	1+10.47	N68° 24' 46"E	6° 26' 00"	56.20'	2+22.75
2	53.76'	53.77'	1000.00'	5+10.43	N73° 10' 11"E	3° 04' 50"	26.89'	5+64.19
3	36.09'	36.10'	1000.00'	7+31.48	N73° 40' 33"E	2° 04' 05"	18.05'	7+67.58
4	233.79'	249.69'	200.00'	10+23.02	S 71° 35' 32"E	71° 31' 55"	114.06'	12+72.71
5	193.55'	202.03'	200.00'	13+52.68	S 64° 45' 54"E	57° 52' 40"	110.58'	15+54.71
6	83.82'	83.87'	719.00'	2+59.78	S 65° 07' 06"W	6° 41' 00"	41.98'	3+43.65
7	56.54'	56.57'	485.00'	2+59.78	S 65° 07' 06"W	6° 41' 00"	28.32'	3+16.36
8	186.95'	187.66'	624.00'	0+81.57	S 23° 24' 23"W	17° 13' 51"	94.54'	2+69.23
9	69.12'	70.55'	100.78'	2+69.23	S 34° 50' 45"W	40° 06' 36"	36.79'	3+39.78
10	39.08'	40.15'	50.00'	0+59.73	S 84° 37' 07"E	46° 00' 14"	21.23'	0+99.88
11	72.84'	81.59'	50.00'	2+61.12	N25° 37' 46"E	93° 30' 00"	53.15'	3+42.71
12	133.57'	134.39'	350.00'	4+58.02	S32° 07' 13"E	22° 00' 00"	68.03'	5+92.41
13	36.65'	37.53'	50.00'	8+40.69	N64° 37' 14"W	43° 00' 00"	19.70'	8+78.21
14	194.71'	196.79'	390.00'	0+31.50	S18° 20' 07"W	28° 54' 41"	100.54'	2+28.30

WHITMAN, REQUARDT AND ASSOCIATES
ENGINEERS
1111 N. CHARLES STREET
BALTIMORE, MARYLAND

KENNETH A. McCORD, P.E. 1974

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING
PLANNING DIRECTOR — DATE 8-18-80
CHIEF DIVISION OF LAND DEVELOPMENT — DATE 8-18-80
APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE AND STORM DRAINAGE SYSTEMS AND ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DIRECTOR — DATE 8-11-80
CHIEF, BUREAU OF ENGINEERING — DATE 8-11-80

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
APPROVED: William J. Rane HOWARD S.C.D. — DATE 8-13-80
SIGNATURE: U.S. SOIL CONSERVATION SERVICE — DATE 8-13-80
APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS HOWARD COUNTY HEALTH DEPARTMENT
COUNTY HEALTH OFFICER — DATE 8-14-80

APPROVED
DIVISION OF LAND DEVELOPMENT
HOWARD COUNTY, MARYLAND
DATE 7-8-80

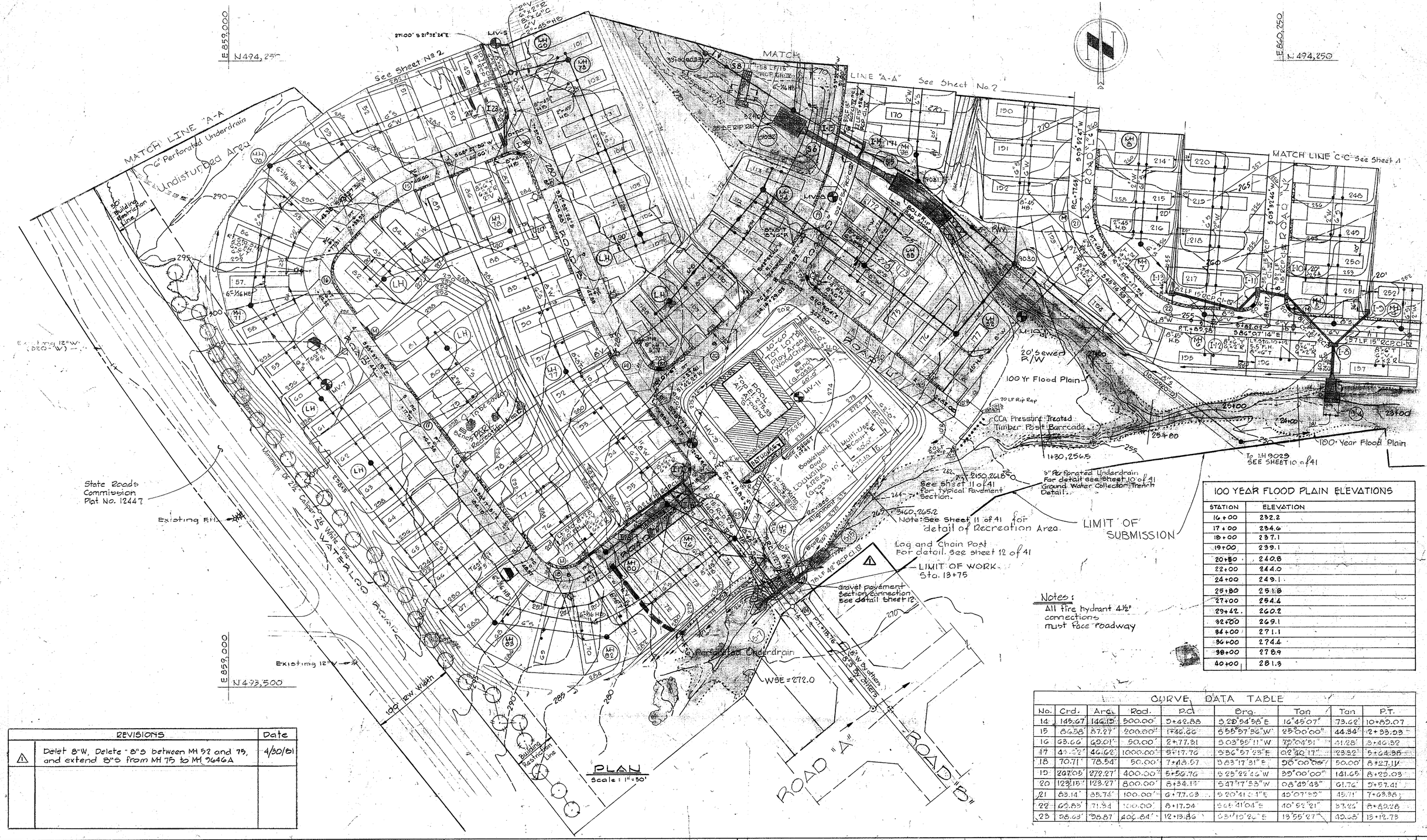
OWNER AND DEVELOPER
DEEP RUN ASSOCIATES
3701 OLD COURT ROAD UNIT #11
BALTIMORE, MARYLAND 21208

SITE DEVELOPMENT PLAN
DEEP RUN PARK - SECTION I
PLAN
FIRST ELECTION DISTRICT OF HOWARD COUNTY, MARYLAND
TAX MAP 37 — PARCEL 163
DATE: November 16, 1979 — SCALE: As Noted

SHEET 2 OF 33

7-1-80

SDP-80-95



100 YEAR FLOOD PLAIN ELEVATIONS	
STATION	ELEVATION
16+00	232.2
17+00	234.6
18+00	237.1
19+00	239.1
20+80	240.8
22+00	244.0
24+00	249.1
25+80	251.8
27+00	254.4
29+42	260.2
32+00	269.1
34+00	271.1
36+00	274.4
38+00	278.9
40+00	281.3

Notes:
All fire hydrant 4½" connections must face roadway

CURVE DATA TABLE								
No.	Crd.	Arc.	Rad.	P.C.	Brg.	Tan	Tan	P.T.
14	145.67'	146.13'	500.00'	9+42.88	S 28°54'56" E	16°45'07"	73.62'	10+89.07
15	86.38'	87.27'	200.00'	11+46.66	S 55°57'36" W	25°00'00"	44.34'	12+33.93
16	63.66'	69.01'	50.00'	2+77.21	S 03°55'11" W	79°04'51"	41.28'	3+46.32
17	43.72'	46.62'	1000.00'	8+17.76	S 36°57'25" E	02°40'17"	23.32'	5+64.38
18	70.71'	78.54'	50.00'	7+13.57	S 83°17'31" E	90°00'00"	50.00'	8+27.11
19	207.05'	272.27'	400.00'	5+56.76	S 25°22'26" W	39°00'00"	141.65'	8+29.03
20	123.15'	123.27'	800.00'	8+34.14'	S 47°17'33" W	08°49'43"	61.76'	9+57.41
21	83.14'	85.74'	100.00'	6+77.63	S 20°41'51" E	49°07'39"	45.71'	7+63.38
22	69.85'	71.34	100.00'	8+17.24	S 64°41'04" E	40°52'21"	37.26'	8+59.28
23	98.63'	98.87	406.84'	12+13.86	S 81°19'24" E	13°55'27"	49.65'	13+12.73

REVISIONS		Date
1	Delet 8"W, Delete 8"S between MH 92 and 75, and extend 8"S from MH 75 to MH 9646A	4/30/81

WHITMAN REQUARDT AND ASSOCIATES
ENGINEERS
1111 N. CHARLES STREET
BALTIMORE, MARYLAND

KENNETH A. McCORD, P.E. 1974

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING
PLANNING DIRECTOR — DATE 7-16-80
CHIEF, DIVISION OF LAND DEVELOPMENT — DATE 8-18-80
APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE & STORM DRAINAGE SYSTEM & ROADS HOWARD COUNTY DEPT. OF PUBLIC WORKS
DIRECTOR — DATE 8-11-80
CHIEF BUREAU OF ENGINEERING — DATE 8-11-80

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
APPROVED: William T Rave HOWARD S.C.D. DATE: 8-13-80
SIGNATURE: U.S. SOIL CONSERVATION SERVICE — 8-13-80 DATE
APPROVED: FOR PUBLIC, WATER AND PUBLIC SEWERAGE SYSTEMS HOWARD COUNTY HEALTH DEPARTMENT
COUNTY HEALTH OFFICER — 8-14-80 DATE

APPROVED
DIVISION OF LAND DEVELOPMENT
HOWARD COUNTY, MARYLAND
DATE 7-8-80

OWNER AND DEVELOPER
DEEP RUN ASSOCIATES
3701 OLD COURT ROAD UNIT #11
BALTIMORE, MARYLAND 21208

SITE DEVELOPMENT PLAN
DEEP RUN PARK - SECTION I
PLAN
FIRST ELECTION DISTRICT OF HOWARD COUNTY MARYLAND
TAX MAP 37 — PARCEL 163
DATE: November 16, 1979 — SCALE: AS NOTED

SHEET 3 OF 33

7-1-80

500-30-95

Notes:
All fire hydrant 4½" connections must face roadway

100 YEAR FLOOD PLAIN ELEVATIONS	
STATION	ELEVATION
16+00	232.2
17+00	234.6
18+00	237.1
19+00	239.1
20+50	240.8
22+00	244.0
24+00	249.1
25+80	251.8
27+00	254.4
29+42	260.2
32+00	269.1
34+00	271.1
36+00	274.4
38+00	278.9
40+00	281.3

CURVE DATA TABLE

No.	Crd.	Arc.	Rad.	P.C.	Brg.	Tan	Tan	P.T.
14	145.67'	146.15'	500.00'	9+46.56	[illegible]	16°45'07"	[illegible]	10+65.07
15	[illegible]	87.27'	[illegible]	[illegible]	S 55°57'26"W	25°00'00"	44.34'	[illegible]
16	[illegible]	[illegible]	50.00'	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
17	[illegible]	[illegible]	1000.00'	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
18	70.71'	78.54'	50.00'	[illegible]	[illegible]	90°00'00"	[illegible]	[illegible]
19	[illegible]	[illegible]	400.00'	[illegible]	[illegible]	39°00'00"	141.65'	[illegible]
20	123.15'	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
21	[illegible]	[illegible]	100.00'	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
22	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
23	[illegible]	95.37	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

[redacted] I hereby [redacted] that these [redacted] or approved by me, and that I [redacted] licensed professional engineer under the laws of the State of Maryland.
License No. 16597 Expiration Date: 8/15/2011

STATE OF MARYLAND PROFESSIONAL ENGINEER
FOR REV 2 ONLY 9/24/09

	REVISIONS	Date
1	Delet 8"W, Delete 8"S between MH 52 and 75, and extend 8"S from MH 75 to MH 9646A	4/30/81
2	REMOVE EXISTING BATHHOUSE & CONSTRUCT NEW 1200 SF BLDG	8/26/09

WHITMAN REQUARDT AND ASSOCIATES
ENGINEERS
1111 N. CHARLES STREET
BALTIMORE, MARYLAND
KENNETH A. McCORD, P.E. 1974

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING
PLANNING DIRECTOR — DATE
CHIEF, DIVISION OF LAND DEVELOPMENT — DATE
APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE & STORM DRAINAGE SYSTEM & ROADS HOWARD COUNTY DEPT. OF PUBLIC WORKS
DIRECTOR — DATE 8-11-80
CHIEF BUREAU OF ENGINEERING — DATE 8-11-80

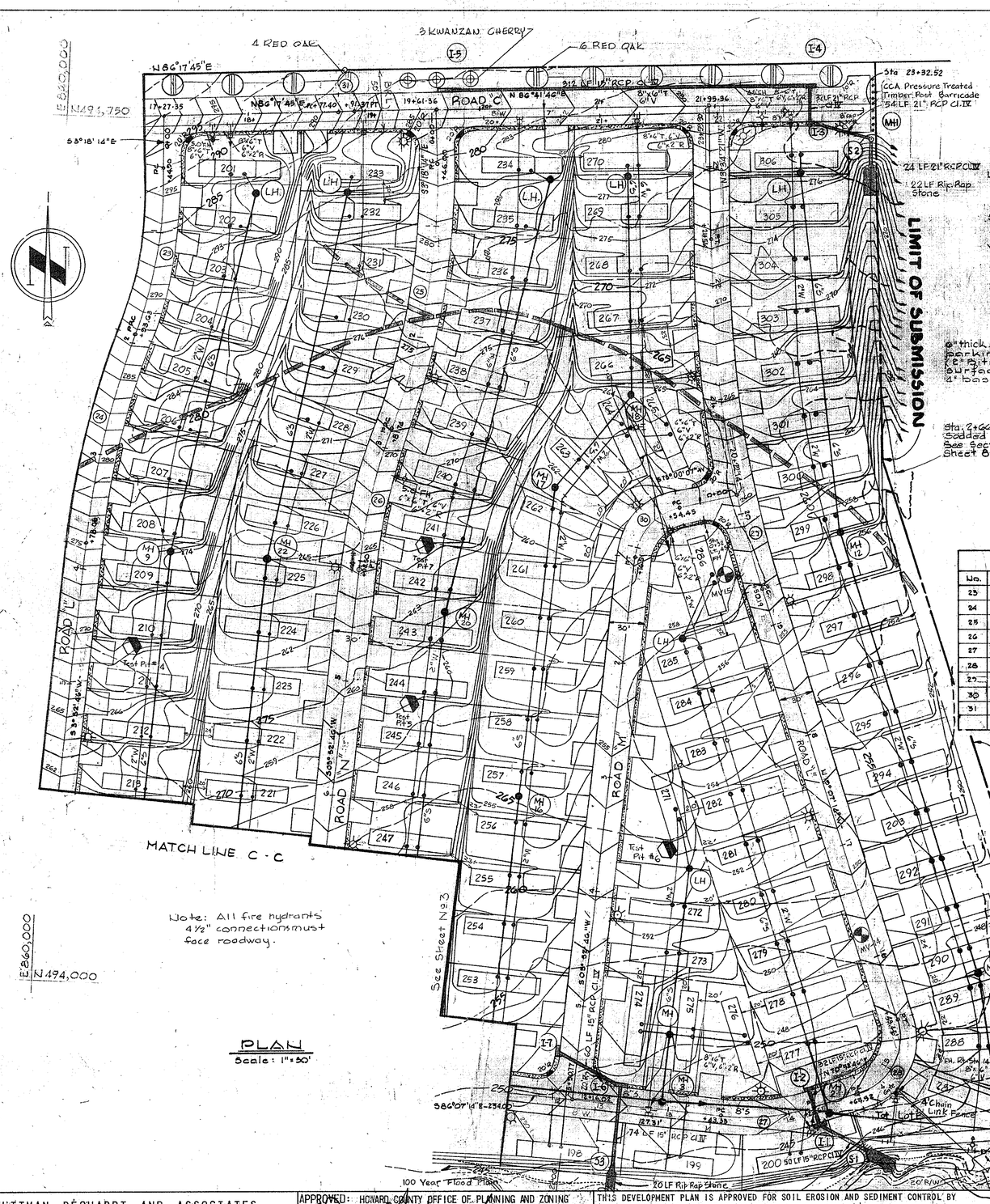
THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
APPROVED: William T. Rowe HOWARD S.C.D. DATE: 8-13-80
SIGNATURE: U.S. SOIL CONSERVATION SERVICE — DATE 8-13-80
APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS HOWARD COUNTY HEALTH DEPARTMENT
COUNTY HEALTH OFFICER — DATE 8-14-80

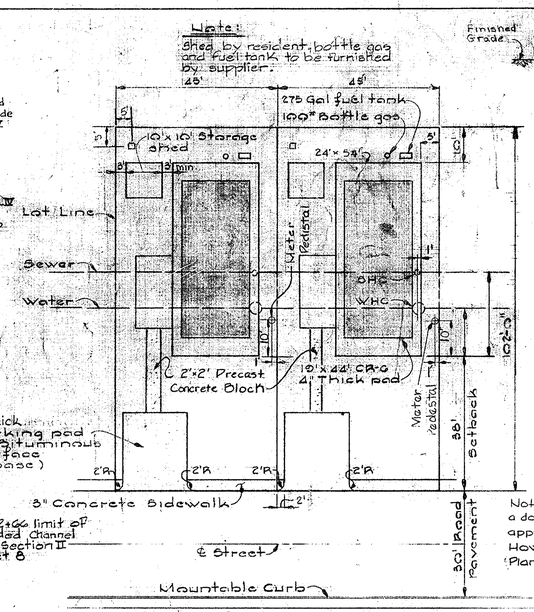
APPROVED DIVISION OF LAND DEVELOPMENT HOWARD COUNTY, MARYLAND DATE 7-8-80

OWNER AND DEVELOPER
DEEP RUN ASSOCIATES
3701 OLD COURT ROAD UNIT #11
BALTIMORE, MARYLAND 21208

SITE DEVELOPMENT PLAN
DEEP RUN PARK - SECTION I
PLAN
FIRST ELECTION DISTRICT OF HOWARD COUNTY MARYLAND
TAX MAP 37 — PARCEL 63
DATE: November 16, 1979 — SCALE: AS NOTED
SHEET 3 OF 33

SDP-80-95





TYPICAL LOT LAY-OUT
DOUBLE MOBILE HOME
Scale: 1"=20'

TYPICAL LOT LAYOUT
SINGLE MOBILE HOME
Scale: 1"=20'

Note:
ITE Pedestal, Model MHP-B-2, 42" with MP-200 Panel. Pedestal to be buried 34" and set in concrete.

CURVE DATA TABLE

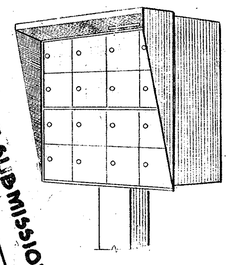
No.	Chord	Arc	Radius	P.C.	Bearing	Del.	Tan.	P.T.
23	147.87'	148.78'	400.00'	0+44.00	S07°20'53"W	21°18'14"	75.23'	1+92.23
24	188.97'	184.45'	748.35'	1+92.23	S10°50'23"W	14°07'14"	92.69'	3+78.06
25	234.58'	235.74'	634.00'	0+46.00	S07°20'53"W	21°18'14"	119.25'	2+81.74
26	120.44'	120.70'	514.35'	2+85.74	S10°50'23"W	14°07'14"	65.70'	4+08.50
27	79.75'	80.28'	200.00'	13+48.33	N82°22'46"E	23°00'00"	40.67'	14+23.61
28	70.71'	78.54'	50.00'	14+64.92	N 25°52'46"E	90°00'00"	50.00'	15+43.46
29	270.97	271.31	1000.00'	17+15.19	N 11° 20'47"W	15° 32'54"	136.52'	22+21.56
30	58.16'	62.07	50.00'	0+54.45	S37°24'26"W	71°07'21"	35.75	1+16.51
31	13.77'	13.77'	2000.00'	18+77.44	N 86°27'46"E	00°24'01"	6.98'	18+31.97

STORM DRAIN STRUCTURE SCHEDULE

Inlet	Type	Location Sta.	Side	Rd.	Top Elev.	Inv. In.	Inv. Out	Remarks
I-1	A-10	14+23.88	Rt	L	246.39	239.60	239.30	
I-2	A-5	14+23.88	Lt	L	246.39	——	242.80	
I-3	A-5	22+81.39	Rt	C	278.51	273.18	272.80	
I-4	A-10	22+81.39	Lt	C	278.51	273.70	273.30	
I-5	A-10	19+09.39	Lt	C	248.60	——	270.94	w/deflectors
I-6	A-10	12+50.03	Lt	L	248.27	243.59	243.21	
I-7	A-10	5+50.10	Rt	M	249.29	——	244.19	
I-8	A-10	10+58.28	Rt	L	251.90	248.03	244.60	
I-9	C	10+99.02	24'Lt	L	251.23	——	246.46	
I-10	A-5	8+08.90	Lt	M	253.56	247.94	246.97	W/deflectors
I-11	A-10	8+08.10	Rt	M	253.59	248.82	247.59	
I-12	A-10	0+41.95	Lt	L	252.04	250.03	249.66	
I-13	C	0+18.29	117'Rt	N	254.63	——	251.01	
I-14	A-5	6+19.00	Lt	O	271.47	——	267.00	
I-15	A-5	6+04.00	Rt	O	271.47	264.76	263.75	
I-16	A-5	9+75.61	Rt	T	274.20	268.80	268.53	
I-17	A-5	9+75.61	Lt	T	274.20	268.04	268.04	
I-18	C	8+08.11	20'Lt	T	277.00	——	271.80	
I-19	A-5	8+66.98	Rt	Q	274.18	268.03	267.68	
I-20	A-5	8+67.67	Lt	Q	274.18	268.82	268.54	
I-21	A-5	5+80.44	Lt	B	281.21	275.00	270.47	
I-22	A-5	5+80.44	Rt	B	281.21	275.80	274.28	
I-23	A-5	5+80.44	Rt	B	282.42	277.80	277.35	W/deflectors
I-24	A-5	5+80.44	Lt	B	282.69	277.80	277.00	W/deflectors
I-25	A-5	5+80.44	Rt	B	282.97	278.33	277.89	W/deflectors
I-26	A-5	5+80.44	Rt	Q	270.89	274.40	274.01	W/deflectors
I-27	A-5	5+85.40	Lt	Q	270.66	282.50	274.75	W/deflectors
I-28	A-5	0+36.17	Lt	R	288.18	281.22	282.18	W/deflectors
I-29	A-5	0+60.00	Rt	R	288.56	283.50	283.14	W/deflectors
I-30	A-5	7+.8.46	Rt	C	298.10	287.25	286.60	
I-31	A-5	5+89.37	Rt	C	297.77	——	292.26	W/deflectors
I-32	A-10	7+ 8.46	Lt	C	298.10	——	287.90	
I-33	C	9+55.90	117'Rt	O	277.33	——	272.03	
MH-1	Stand.	25+34	90°Rt	C	277.90	272.24	271.80	Ho. Co. Standard Dwg. D104, Pg. 150
I-34	C	0+60.00	117'Rt	S	284.83	——	280.79	
I-35	C	0+60.00	117'Rt	R	292.33	——	287.64	
I-36	A-5	0+38.17	Lt	T	282.89	——	278.09	W/deflectors
I-37	A-5	5+01.33	Lt	Q	281.05	——	276.04	W/deflectors

Struc	Type	Location					
S-1	15" Precast	14+59.24, 52' Rt Rd L	——	254.80	——		Standard Precast Outlet
S-2	21" Precast	23+34, 52' Rt Rd C	——	271.26	——		
S-3	15" Precast	12+56.69, 58' Rt Rd L	——	239.89	——		
S-4	24" Precast	10+58.28, 50' Rt Rd L	——	244.20	——		
S-5	Type C	6+43.48 Lt Rd O	264.70	258.70	——		See Detail Sheet 13
S-6	54" Precast	6+19.34' Rt Rd O	——	——	250.64		Standard Precast Inlet
S-7	84" Precast	13+60.35' Rt Rd B	——	——	266.88		Standard Precast Inlet
S-8	15" Precast	8+08.38 76' Rt Rd Q	——	268.50	——		Standard Precast Outlet
S-9	30" Precast	5+00.44 48' Lt Rd B	——	270.23	——		Standard Precast Outlet
S-10	30" Precast	5+00.44 38' Rt Rd B	——	——	275.52		Standard Precast Inlet
S-11	15 Precast	5+71.51 64' Rt Rd Q	——	278.20	——		Standard Precast Outlet
S-12	15" Precast	2+46.17 79' Lt Rd B	——	277.90	——		
S-13	42" Precast	7+24 50' Rt Rd C	——	280.50	——		
S-14	Type "A"	7+24 38' Lt Rd C	——	——	283.82		See Detail sheet 16
S-15	42" Precast	13+62 39' Lt Rd B	——	286.10	——		Standard Precast Outlet
MH 2	Special	7+24, 20' 21.2 Rd C	293.60	281.50	280.80		See Detail Sheet 16

1. For detail of A-5 & A-10 inlets see sheet 12, and Standard Howard County Drawing 64-A Pg. 110-A.
2. For detail of Type C inlet see Standard Howard County Drawing 64-C Pg. 110-C.
3. All A-5 and A-10 inlets are offset 16.17 feet from the Road ℄.



APPROVED MANUFACTURERS

1. Superior Marina Product, Inc. Superior Service Division 15-03 126th Street College Point, NY 11356.
2. Bommer Industries, Inc. Landrum, SC. 29356
3. American Device Manufacturing Co. P.O. Box 8 Steeleville, IL. 62288

Notes:
1. A complete set of instructions, including illustration for assembling, installing, and mounting the boxes shall be provided with each box.
2. Each compartment in these units will be 6 inches wide by 5 inches high by 15 inches deep.
3. Height adjustment from 32 to 40 inches high at 4" inch increment. The height adjusting machanism shall not be exposed after the height of pedastal is set to preluce tampering or vandalism.
4. Rear loaded through master door.

TYPE III - COLLECTION BOXES
PEDESTAL-MOUNTED INSTALLATION
No Scale

WHITMAN, REQUARDT AND ASSOCIATES
ENGINEERS
1111 N. CHARLES STREET
BALTIMORE, MARYLAND

KENNETH A. McCORD, P.E. 1974

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING
PLANNING DIRECTOR — DATE 8-8-80
CHIEF, DIVISION OF LAND DEVELOPMENT — DATE 8/8/80
APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE AND STORM DRAINAGE SYSTEMS AND ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DIRECTOR — DATE 8-11-80
CHIEF, BUREAU OF ENGINEERING — DATE 8-11-80

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
APPROVED: William T Rowe HOWARD S.C.D. DATE 8-12-80
SIGNATURE - U.S. SOIL CONSERVATION SERVICE — DATE 8-13-80
APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS HOWARD COUNTY HEALTH DEPARTMENT
COUNTY HEALTH OFFICER — DATE 8-14-80

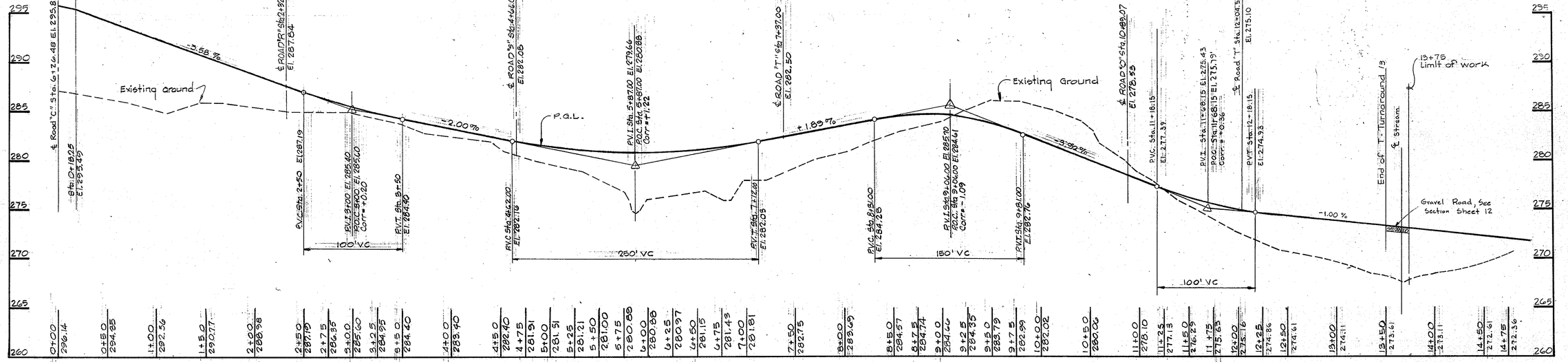
APPROVED
DIVISION OF LAND DEVELOPMENT
HOWARD COUNTY, MARYLAND
DATE 7-8-80

OWNER AND DEVELOPER
DEEP RUN ASSOCIATES
3701 OLD COURT ROAD UNIT #11
BALTIMORE, MARYLAND 21208

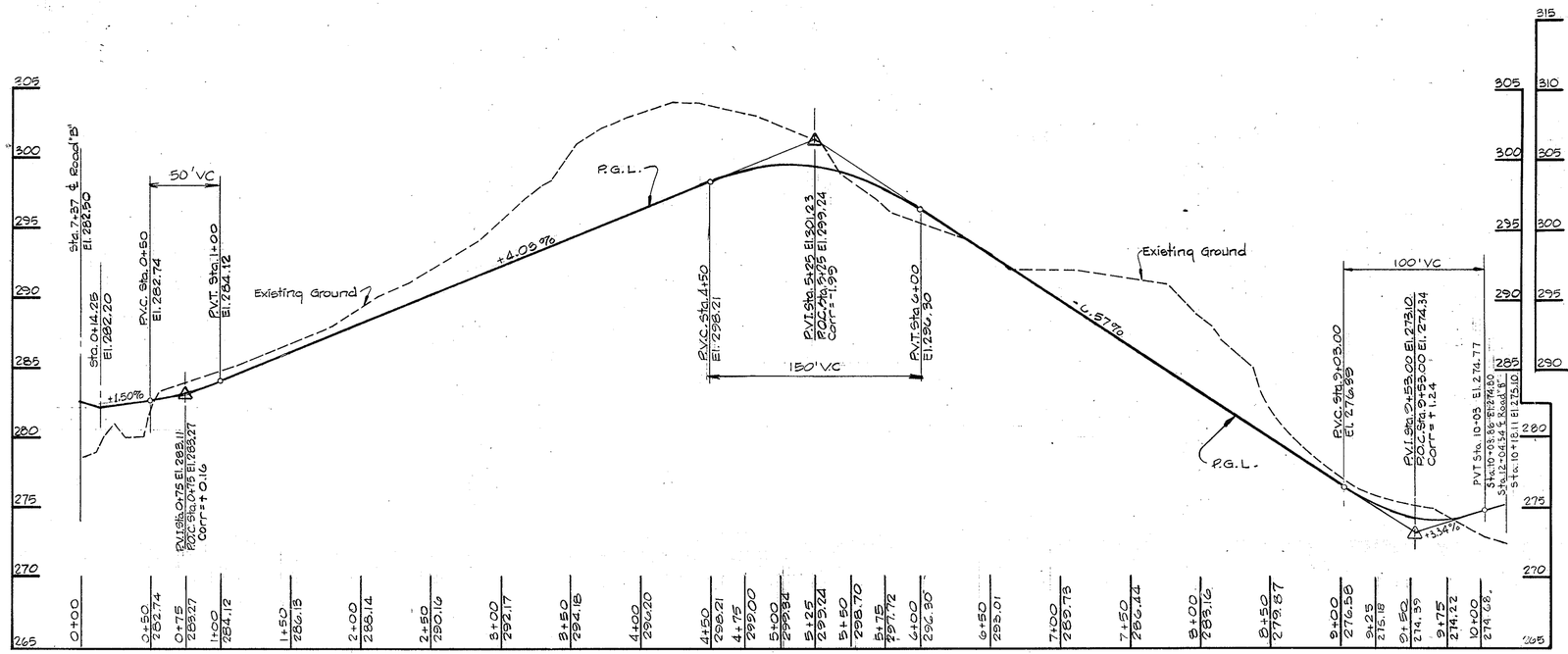
SITE DEVELOPMENT PLAN
DEEP RUN PARK - SECTION I
PLAN AND DETAILS
FIRST ELECTION DISTRICT OF HOWARD COUNTY MARYLAND
TAX MAP 37 — PARCEL 163
DATE: November 16, 1979 — SCALE: As noted
SHEET 4 OF 37

7-1-80

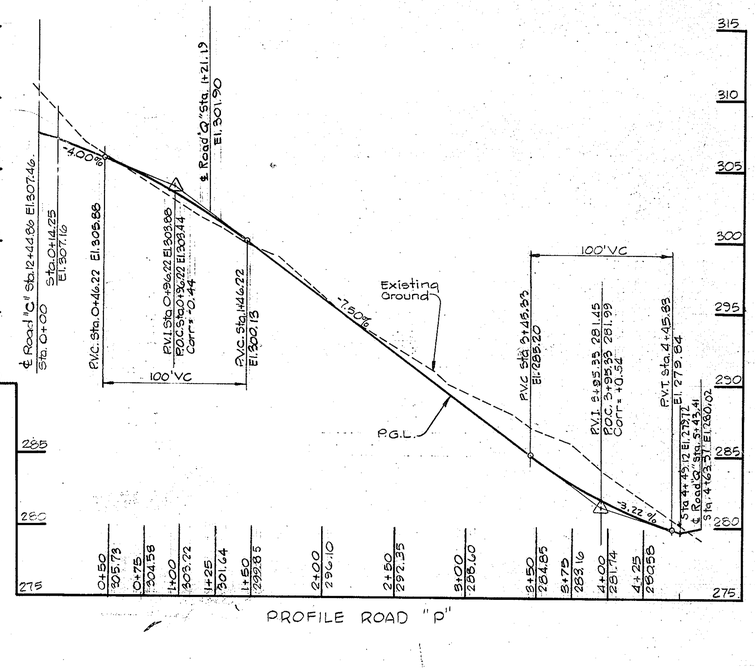
SDP-80-95



PROFILE ROAD "B"



PROFILE ROAD "T"



PROFILE ROAD "P"

WHITMAN, REQUARDT AND ASSOCIATES
ENGINEERS
1111 N. CHARLES STREET
BALTIMORE, MARYLAND

KENNETH A. McCORD, P.E. 1974

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING
PLANNING DIRECTOR — DATE 8-18-80
CHIEF, DIVISION OF LAND DEVELOPMENT — DATE 8-18-80
APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE AND STORM DRAINAGE SYSTEMS AND ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DIRECTOR — DATE 8-11-80
CHIEF, BUREAU OF ENGINEERING — DATE 8-11-80

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
APPROVED: HOWARD S.C.D. — DATE 8-13-80
SIGNATURE: U.S. SOIL CONSERVATION SERVICE — DATE 8-18-80
APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT
COUNTY HEALTH OFFICER — DATE 8-14-80

APPROVED
DIVISION OF LAND DEVELOPMENT
HOWARD COUNTY, MARYLAND
DATE 7-8-80

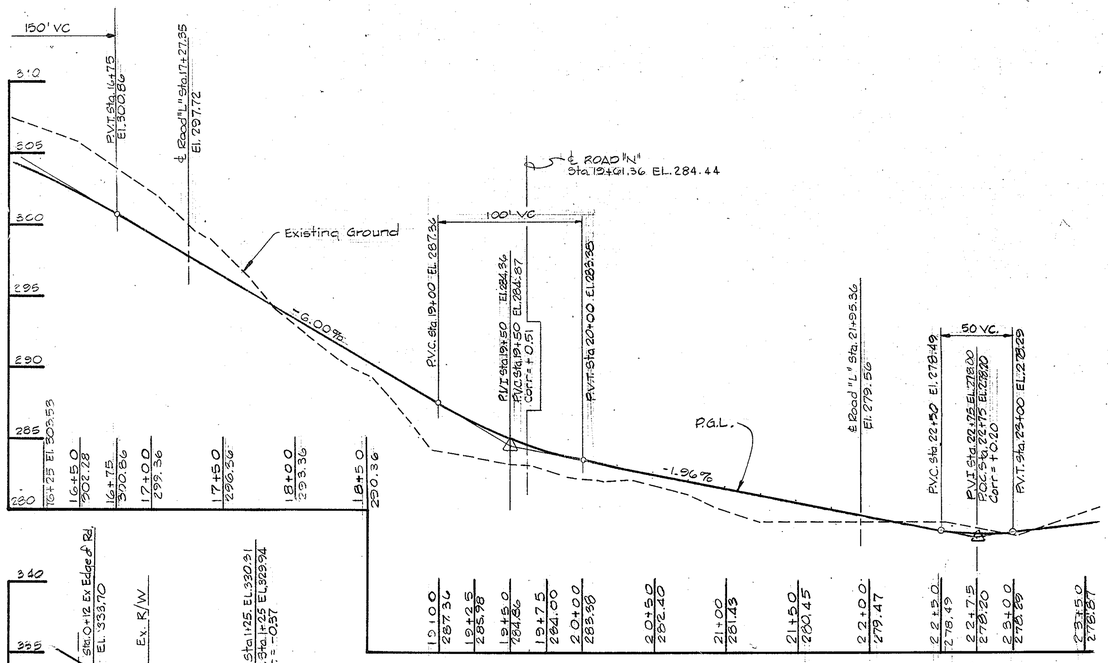
OWNER AND DEVELOPER
DEEP RUN ASSOCIATES
3701 OLD COURT ROAD UNIT #11
BALTIMORE, MARYLAND 21208

SITE DEVELOPMENT PLAN
DEEP RUN PARK - SECTION I
ROAD PROFILES
FIRST ELECTION DISTRICT OF HOWARD COUNTY, MARYLAND
TAX MAP 37 — PARCEL 163
DATE: February 27, 1980 — SCALE: Hor. 1"=50' Vert. 1"=5'

SHEET 5 OF 33

SDP-80-95

6-4-80



WHITMAN REQUARDT AND ASSOCIATES
ENGINEERS
1111 N. CHARLES STREET
BALTIMORE, MARYLAND

KENNETH A. McCORD, P.E. 1974

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

APPROVED: William T. Reine HOWARD S.C.D. DATE 8-13-80

SIGNATURE: James McHale U.S. SOIL CONSERVATION SERVICE 8-13-80 DATE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS
HOWARD COUNTY HEALTH DEPARTMENT

COUNTY HEALTH OFFICER 8-14-80 DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING

PLANNING DIRECTOR Thomas H. Harrigan 8-8-80 DATE

CHIEF, DIVISION OF LAND DEVELOPMENT 8-8-80 DATE

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE AND STORM DRAINAGE SYSTEMS AND ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

DIRECTOR 8-11-80 DATE

CHIEF BUREAU OF ENGINEERING 8-11-80 DATE

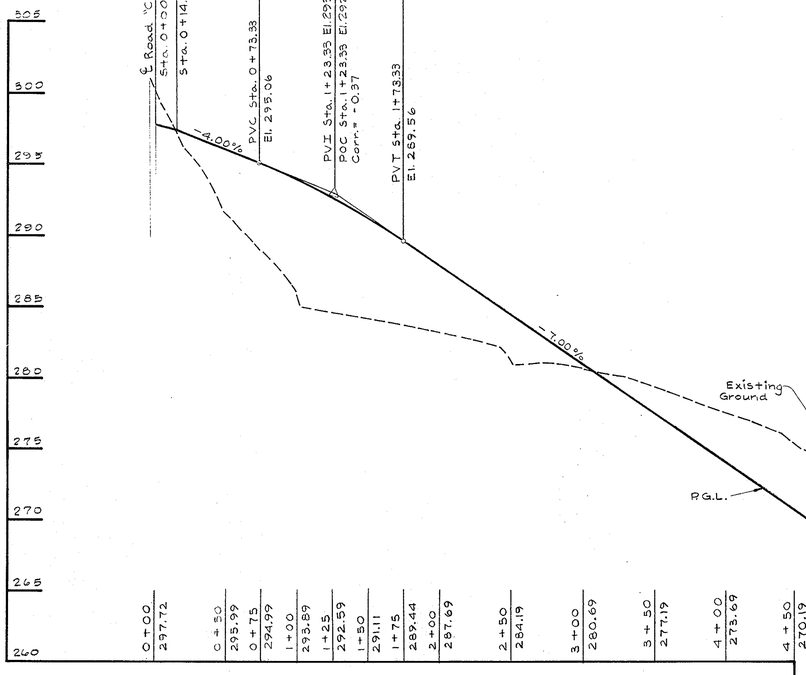
OWNER AND DEVELOPER
DEEP RUN ASSOCIATES
3701 OLD COURT ROAD UNIT #11
BALTIMORE, MARYLAND 21208

SITE DEVELOPMENT PLAN
DEEP RUN PARK - SECTION I
ROAD PROFILES
FIRST ELECTION DISTRICT OF HOWARD COUNTY, MARYLAND
TAX MAP 37 PARCEL 163
DATE: February 27, 1980 SCALE: Hor. 1"=50' Vert. 1"=5'

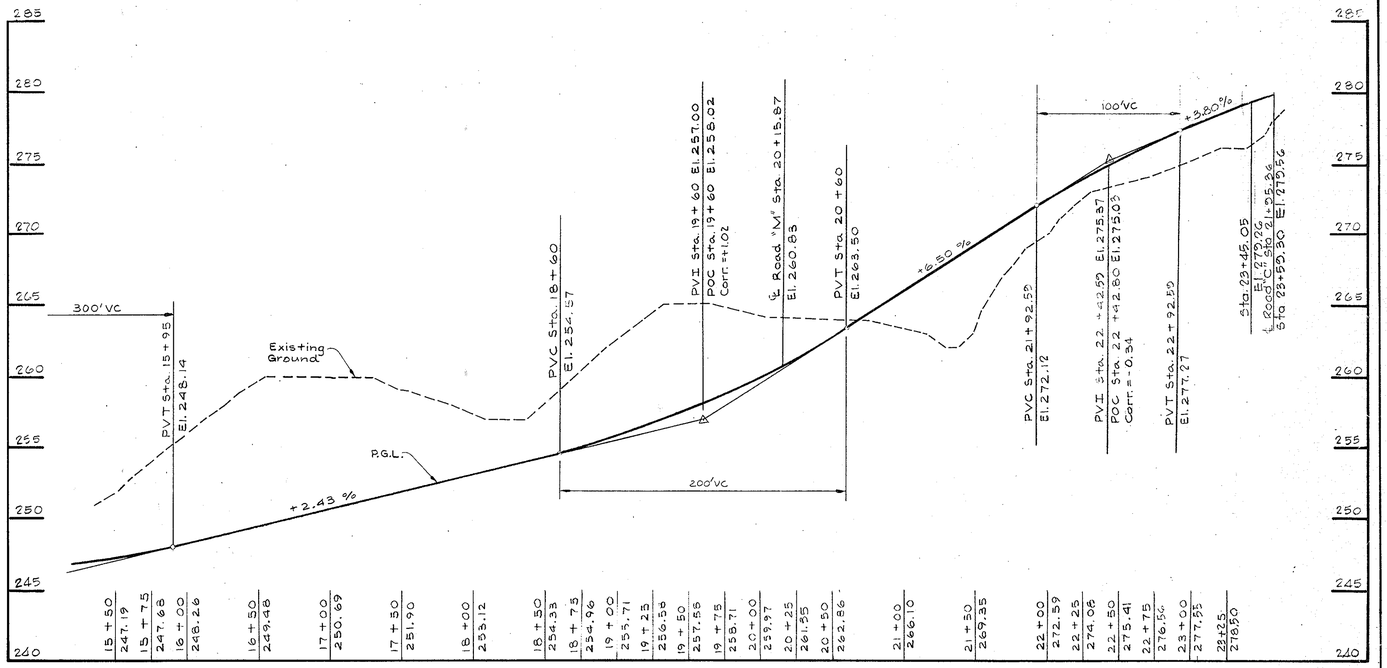
SHEET 6 OF 33

6-11-80

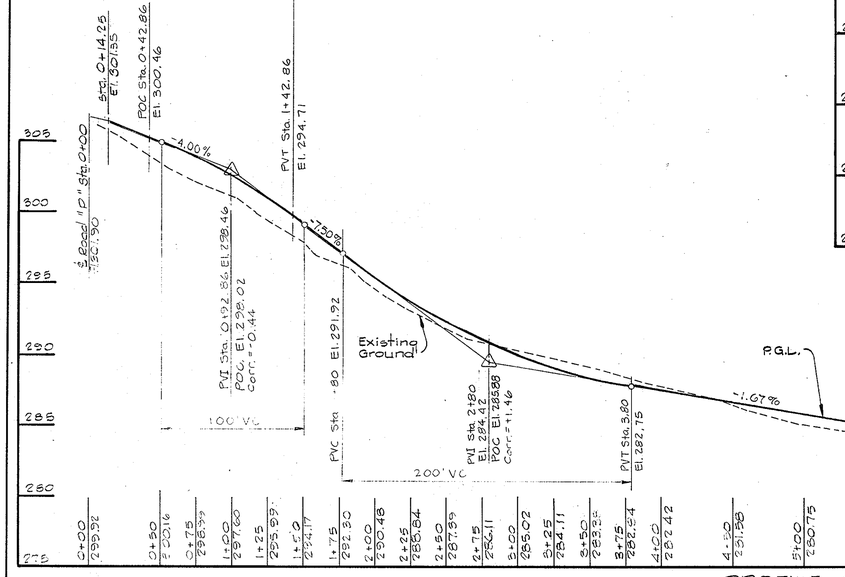
SDP-80-95



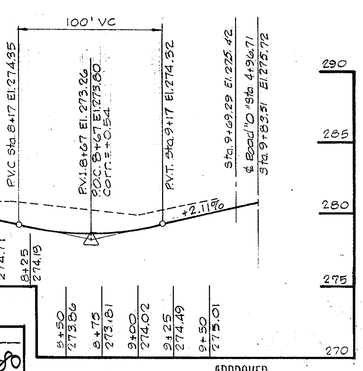
PROFILE ROAD "L"



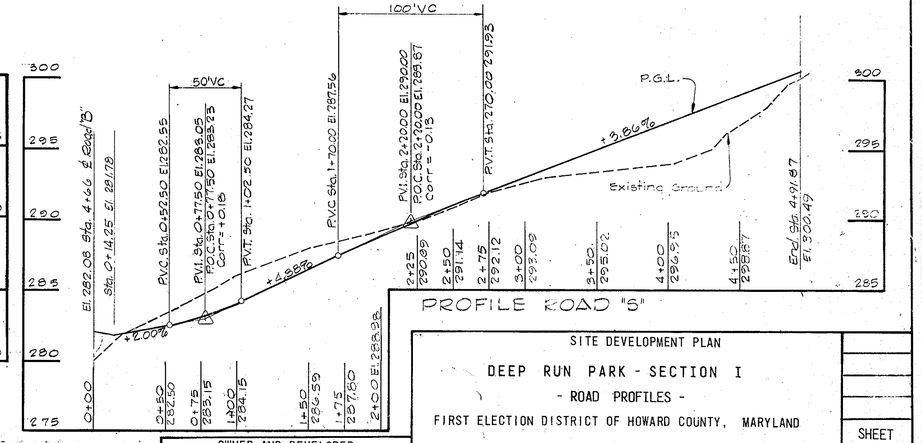
PROFILE ROAD "L"



PROFILE ROAD "Q"



APPROVED
DIVISION OF LAND DEVELOPMENT
HOWARD COUNTY, MARYLAND
DATE 7-8-80



PROFILE ROAD "S"

WHITMAN, REQUARDT AND ASSOCIATES
ENGINEERS
1111 N. CHARLES STREET
BALTIMORE MARYLAND

KENNETH ARMSTRONG McCORD
No. 5974
REGISTERED PROFESSIONAL ENGINEER & LAND SURVEYOR
STATE OF MARYLAND
DEC. 1974

Kenneth A. McCord
KENNETH A. McCORD, P.E. 1974

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

APPROVED: William T. Rame HOWARD S.C.D. DATE 8-13-80

SIGNATURE: U.S. SOIL CONSERVATION SERVICE DATE 8-13-80

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS HOWARD COUNTY HEALTH DEPARTMENT.

COUNTY HEALTH OFFICER DATE 8-14-80

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING

PLANNING DIRECTOR DATE 8-18-80

CHIEF DIVISION OF LAND DEVELOPMENT DATE 8-18-80

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE AND STORM DRAINAGE SYSTEMS AND ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

DIRECTOR DATE 8-11-80

CHIEF BUREAU OF ENGINEERING DATE 8-11-80

OWNER AND DEVELOPER
DEEP RUN ASSOCIATES
3701 OLD COURT ROAD UNIT #11
BALTIMORE, MARYLAND 21208

SITE DEVELOPMENT PLAN

DEEP RUN PARK - SECTION I

- ROAD PROFILES -

FIRST ELECTION DISTRICT OF HOWARD COUNTY, MARYLAND

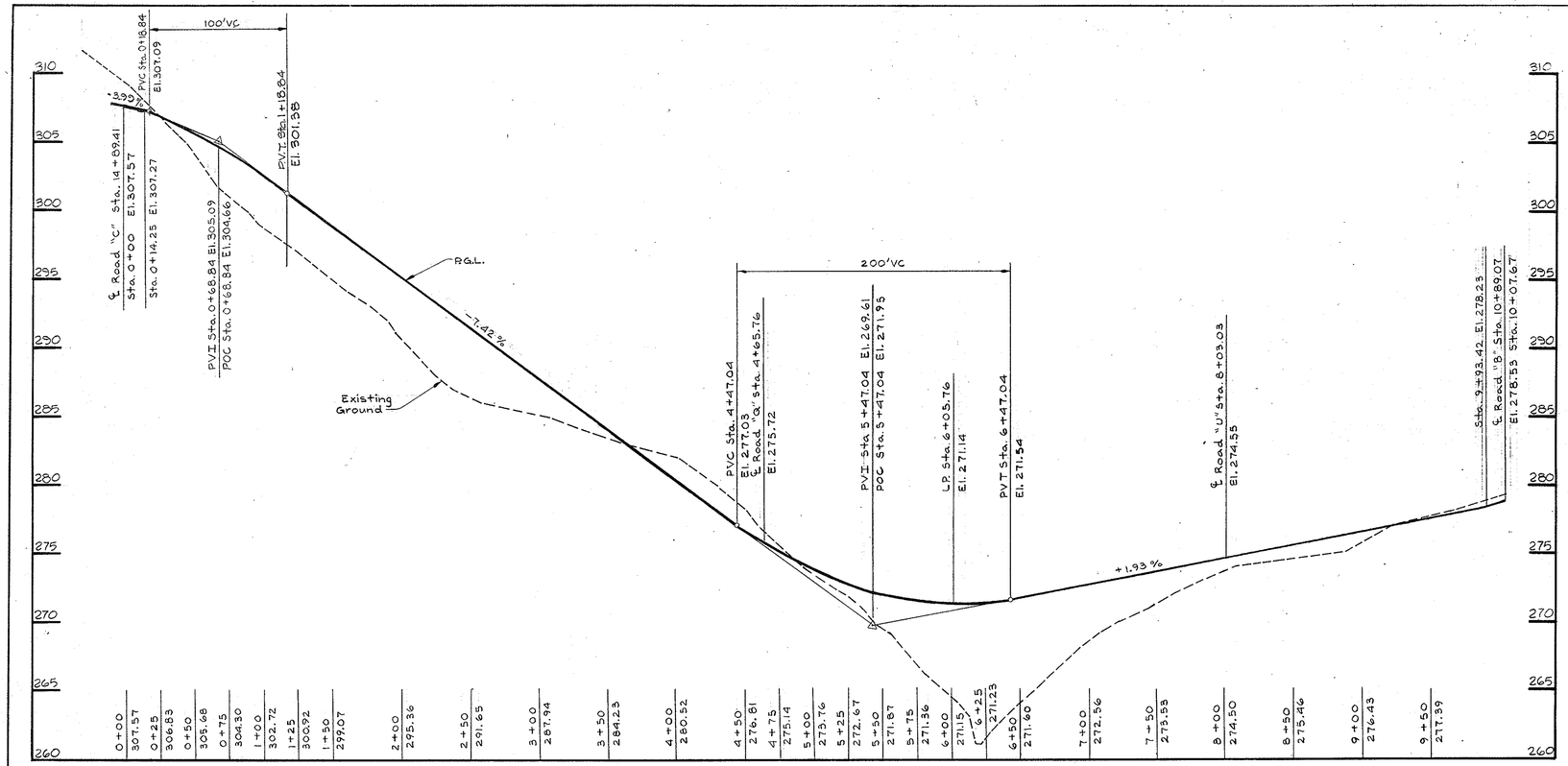
TAX MAP 37 PARCEL 163

DATE: February 27, 1980 SCALE: Hor. 1"=50' Vert. 1"=5'

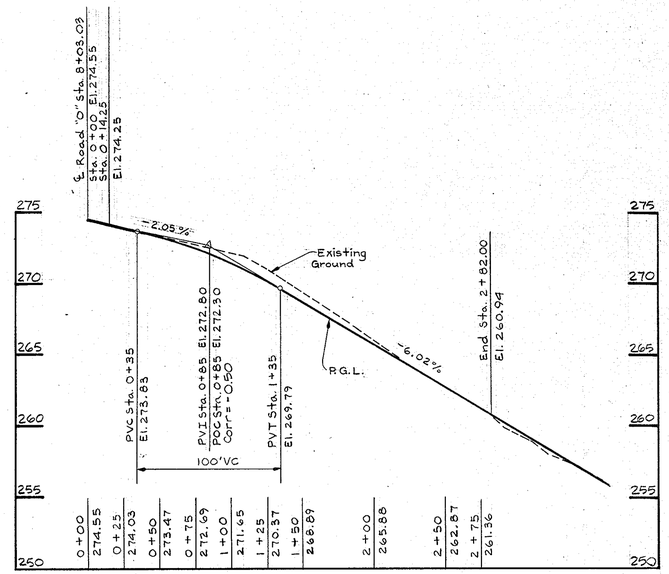
SHEET 7 OF 33

6-11-80

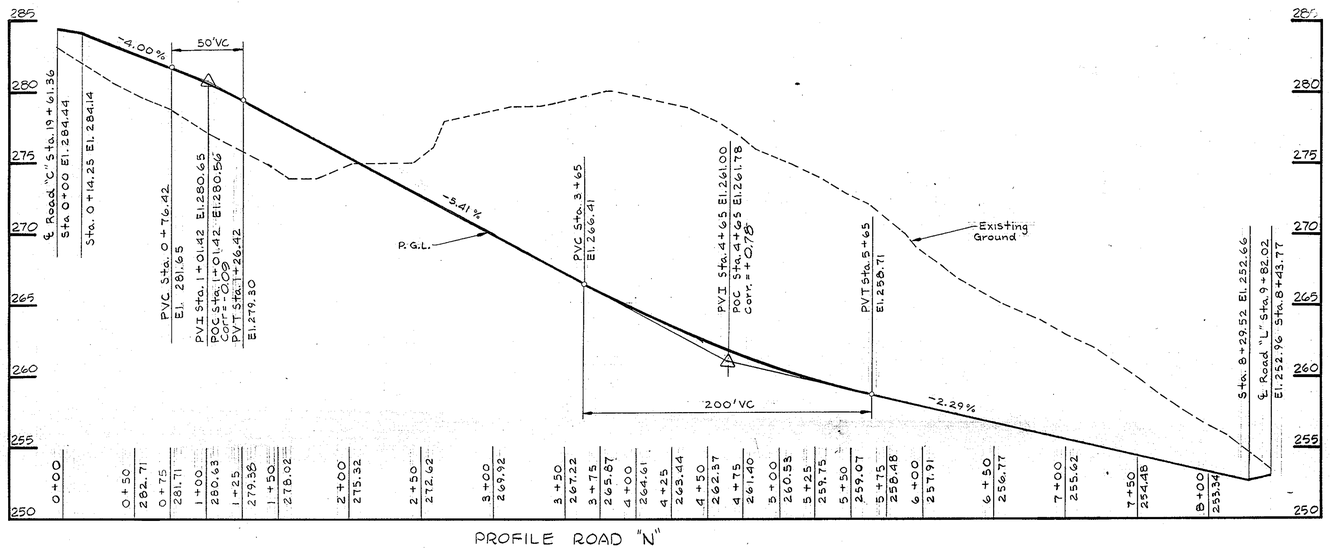
SDP-80-95



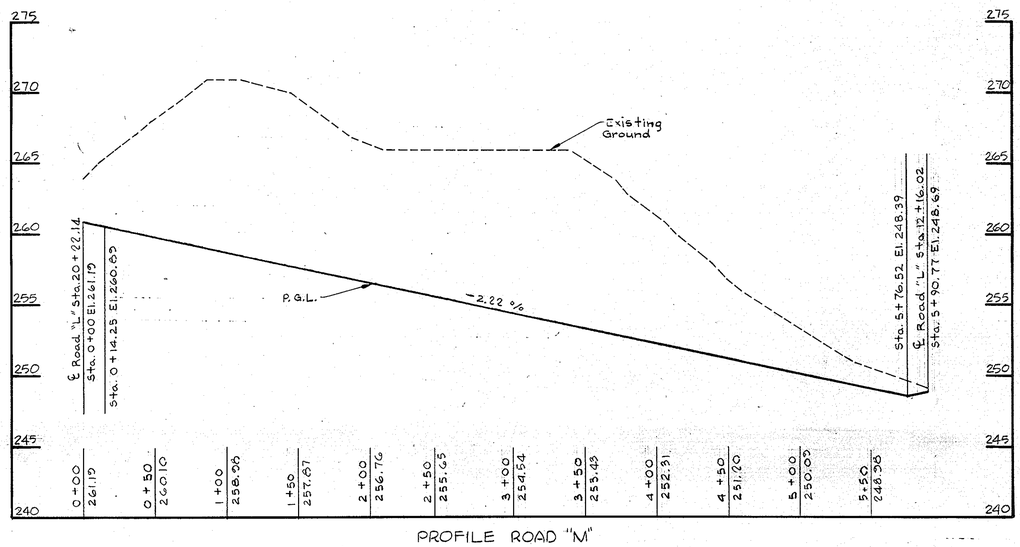
PROFILE ROAD "O"



PROFILE ROAD "U"



PROFILE ROAD "N"



PROFILE ROAD "M"

WHITMAN, REQUARDT AND ASSOCIATES
ENGINEERS
1111 N. CHARLES STREET
BALTIMORE, MARYLAND

KENNETH A. McCORD, P.E. 1974

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING

PLANNING DIRECTOR — DATE 8-18-80

CHIEF/DIVISION OF LAND DEVELOPMENT — DATE 8-8-80

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE AND STORM DRAINAGE SYSTEMS AND ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

DIRECTOR — DATE 8-11-80

CHIEF, BUREAU OF ENGINEERING — DATE 8-11-80

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

APPROVED: HOWARD S.C.D. — DATE 8-13-80

SIGNATURE: U.S.SOIL CONSERVATION SERVICE — DATE 8-15-80

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS HOWARD COUNTY HEALTH DEPARTMENT.

COUNTY HEALTH OFFICER — DATE 8-14-80

APPROVED
DIVISION OF LAND DEVELOPMENT
HOWARD COUNTY, MARYLAND
DATE 7-8-80

OWNER AND DEVELOPER
DEEP RUN ASSOCIATES
3701 OLD COURT ROAD UNIT #11
BALTIMORE, MARYLAND 21208

SITE DEVELOPMENT PLAN
DEEP RUN PARK - SECTION I
ROAD PROFILES
FIRST ELECTION DISTRICT OF HOWARD COUNTY, MARYLAND
TAX MAP 37 — PARCEL 163
DATE: February 27, 1980 — SCALE: Hor. 1"=50' Vert. 1"=5'

SHEET 8 OF 33

6-11-80

SDP-80-95

LOT AREA SCHEDULE

Lot #	Area (sf)	Lot #	Area (sf)	Lot #	Area (sf)	Lot #	Area (sf)	Lot #	Area (sf)	Lot #	Area (sf)
1	6092	53	4627	105	4590	157	4664	209	4,600	261	4,590
2	6629	54	4802	106	4590	158	4975	210	4,590	262	4,505
3	6171	55	5,028	107	4795	159	6904	211	4,590	263	4,964
4	5396	56	5,022	108	4536	160	4777	212	4,590	264	5,276
5	5077	57	5,022	109	4683	161	4,777	213	4,590	265	5,884
6	4965	58	4,811	110	4683	162	4750	214	4,590	266	6021
7	4852	59	4555	111	4824	163	4,590	215	4,590	267	5,177
8	4,710	60	4507	112	4707	164	4,590	216	7,565	268	4,770
9	4467	61	4460	113	4707	165	4,590	217	4,680	269	4,699
10	4504	62	4515	114	4718	166	4,590	218	4,794	270	4,538
11	4590	63	4437	115	5467	167	4,590	219	4,794	271	7,962
12	4590	64	4478	116	4590	168	4,590	220	4,794	272	4,647
13	4590	65	4525	117	4477	169	4,590	221	4,794	273	5,090
14	4590	66	4572	118	5189	170	4,677	222	4,794	274	4,514
15	4,776	67	4,836	119	4510	171	4,595	223	4,794	275	4,600
16	4,728	68	5,022	120	5593	172	5504	224	4,794	276	5,065
17	4591	69	5,023	121	5000	173	4972	225	4,795	277	4,375
18	4,590	70	5,022	122	5,104	174	4603	226	4,768	278	4,500
19	4,590	71	4,767	123	4,741	175	5948	227	4,771	279	4,500
20	4569	72	4590	124	4652	176	5693	228	4,742	280	4,500
21	4590	73	4590	125	4643	177	5438	229	4,778	281	4,500
22	4590	74	4605	126	4752	178	4617	230	4,802	282	4,500
23	5320	75	4507	127	4425	179	4,707	231	4,827	283	4,500
24	5208	76	4,770	128	4417	180	4,707	232	4,835	284	4,500
25	4590	77	4,770	129	4,398	181	4,652	233	5,431	285	4,500
26	4590	78	4917	130	4494	182	4,560	234	4,698	286	7,869
27	4590	79	5,561	131	4,590	183	4,560	235	4,687	287	4,796
28	4590	80	6114	132	4590	184	4,560	236	4,809	288	4,796
29	4504	81	8389	133	4590	185	4,571	237	4,648	289	4,666
30	4504	82	4,736	134	4,524	186	4,590	238	4,468	290	4,590
31	4590	83	4652	135	4,961	187	4,590	239	4,490	291	4,590
32	4,590	84	4,546	136	4,797	188	4,590	240	4,568	292	4,590
33	4,590	85	4372	137	4,791	189	4,590	241	4,655	293	4,590
34	4590	86	4337	138	4,548	190	4,590	242	4,760	294	4,590
35	4722	87	4251	139	4,514	191	4,590	243	4,590	295	4,590
36	4640	88	4590	140	4,510	192	4,614	244	4,590	296	4,590
37	4590	89	4,590	141	4,514	193	4,854	245	4,590	297	4,590
38	4,590	90	4639	142	4858	194	4,955	246	4,590	298	4,601
39	4,590	91	4691	143	6,125	195	4,693	247	4,590	299	4,628
40	4,562	92	4708	144	5015	196	4,590	248	4,590	300	4,628
41	4,583	93	4758	145	4,753	197	4,590	249	4,590	301	4,628
42	4,583	94	4725	146	4,753	198	4,590	250	4,590	302	4,628
43	4582	95	4639	147	4,753	199	4,650	251	4,504	303	4,628
44	4,650	96	4590	148	5968	200	4,821	252	4,504	304	4,601
45	4,590	97	4590	149	5257	201	4,531	253	4,590	305	4,590
46	4,590	98	4590	150	4590	202	4,536	254	4,590	306	4,499
47	4590	99	4590	151	4590	203	4,554	255	4,590		
48	4590	100	4590	152	5,461	204	4,571	256	4,590		
49	5014	101	4590	153	5480	205	4730	257	4590		
50	4590	102	4590	154	5030	206	4,624	258	4,590		
51	5003	103	4590	155	4729	207	4,631	259	4,590		
52	4636	104	4,590	156	4683	208	4,630	260	4,590		

CERTIFICATION

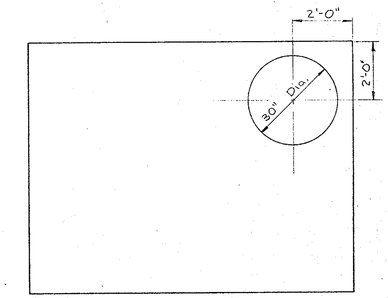
I certify that all lots and mobile home locations for Deep Run Park Section I meet the Howard County Zoning Regulations III, C.2.b. and III, C.2.c.. These requirements include:

1.) 4000 SF. minimum lot size
2.) 45' average width of lot at mobile home location
3.) Building/Mobile Home Setbacks
   a.) 100' from principal arterial R.O.W.
   b.) 50' from other external public R.O.W.
   c.) 5' from internal public R.O.W.
   d.) 30' from ℄ of interior private street
   e.) 5' from side lot line
   f.) 10' from rear lot line
   g.) 50' from differently zoned district
   h.) 20' from another building/mobile home
4.) 20% open space

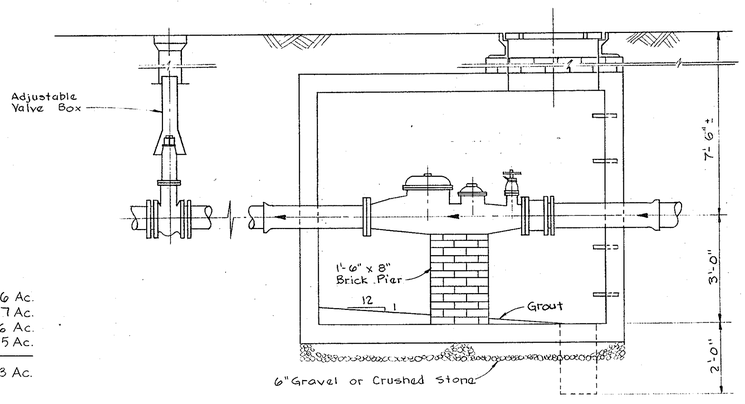
Kenneth A. McCord — 2/27/80
KENNETH A. MC CORD — DATE

AREA TABULATION

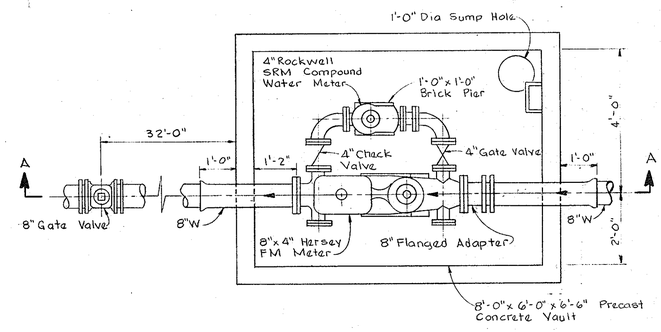
1.) Lot Area, Including Tot Lots –	33.926 Ac.
2.) Open Space Area –	11.947 Ac.
3.) Road Area –	8.476 Ac.
4.) Pool and Office –	1.475 Ac.
5.) Total –	55.823 Ac.



TOP VIEW



SECTION A-A



PLAN VIEW

8" DETECTOR VALVE WITH 4" METER

SCALE: 1/2" = 1'-0"

WHITMAN, REQUARDT AND ASSOCIATES
ENGINEERS
1111 N. CHARLES STREET
BALTIMORE, MARYLAND

Kenneth A. McCord
KENNETH A. McCORD, P.E. 1974

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING
PLANNING DIRECTOR — DATE 8-18-80
CHIEF, DIVISION OF LAND DEVELOPMENT — DATE 8-18-80

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE AND STORM DRAINAGE SYSTEMS AND ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DIRECTOR — DATE 8-11-80
CHIEF BUREAU OF ENGINEERING — DATE 8-11-80

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
APPROVED: William T Rame — HOWARD S.C.D. — DATE: 8/13/80
SIGNATURE / U.S. SOIL CONSERVATION SERVICE — DATE 8-18-80

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS
HOWARD COUNTY HEALTH DEPARTMENT
COUNTY HEALTH OFFICER — DATE 8-14-80

APPROVED
DIVISION OF LAND DEVELOPMENT
HOWARD COUNTY, MARYLAND
DATE 7-8-80

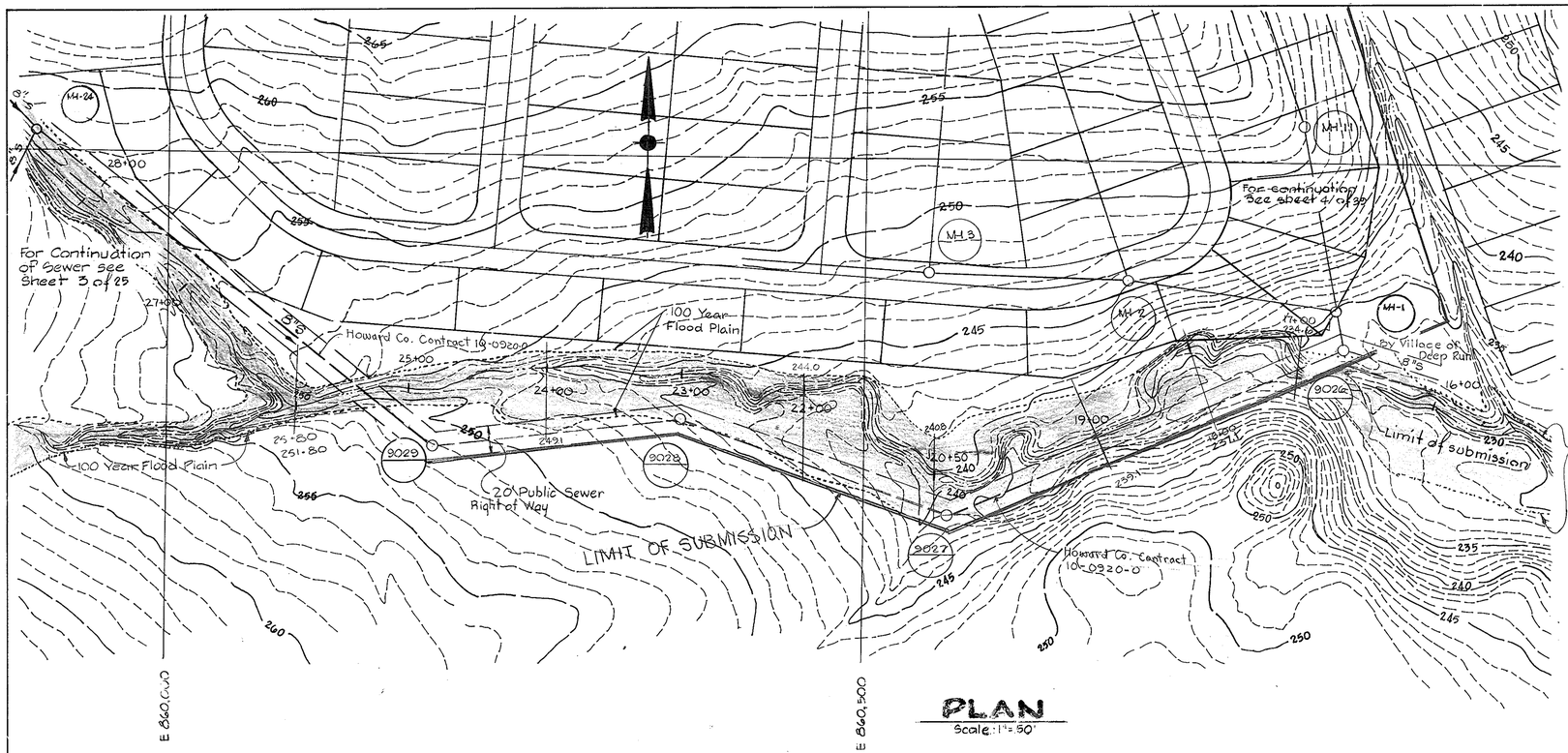
OWNER AND DEVELOPER
DEEP RUN ASSOCIATES
3701 OLD COURT ROAD UNIT #11
BALTIMORE, MARYLAND 21208

SITE DEVELOPMENT PLAN
DEEP RUN PARK - SECTION I
LOT AREA SCHEDULE
FIRST ELECTION DISTRICT OF HOWARD COUNTY, MARYLAND
TAX MAP 37 — PARCEL 163
DATE: February 27, 1980 — SCALE:

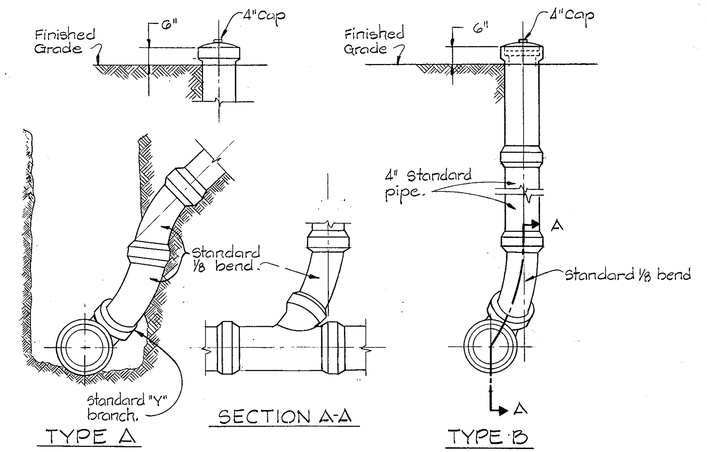
SHEET 2 OF 33

7-1-80

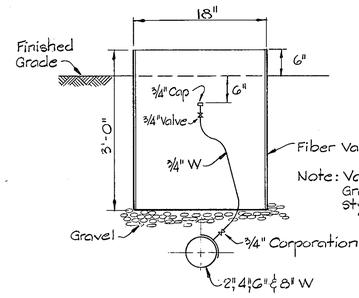
SDP-80-95



PLAN
Scale: 1"=50'

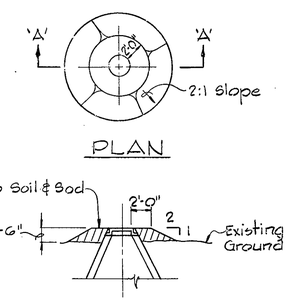


STANDARD HOUSE DROP CONNECTION
Scale: None

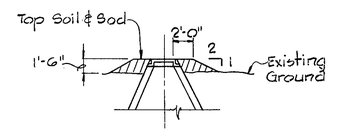


Note: Vault to be set on Gravel and Filled with Styrofoam for insulation.

TYPICAL WATER CONNECTION
Scale: 3/4"=1'-0"

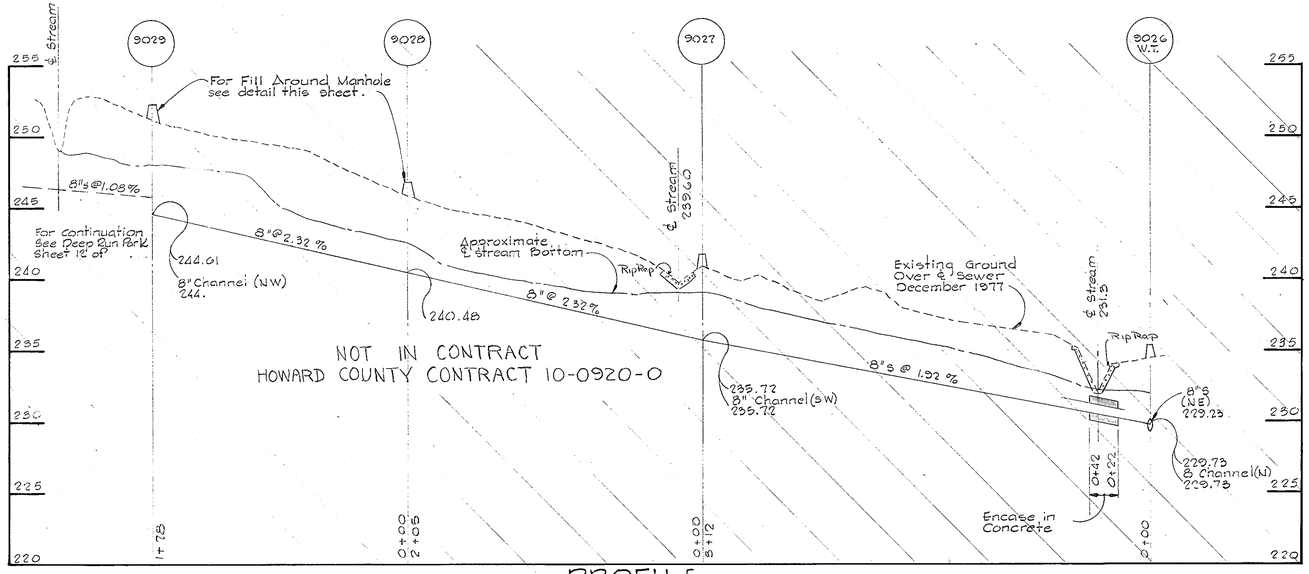


PLAN

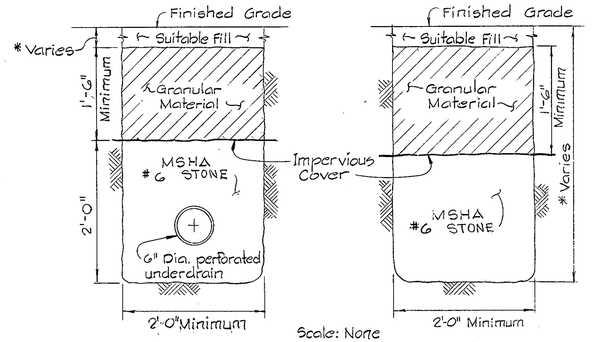


SECTION 'A-A'

FILL AROUND MANHOLES
9026, 9027, 9028, 9029
Scale 1/8"=1'-0"



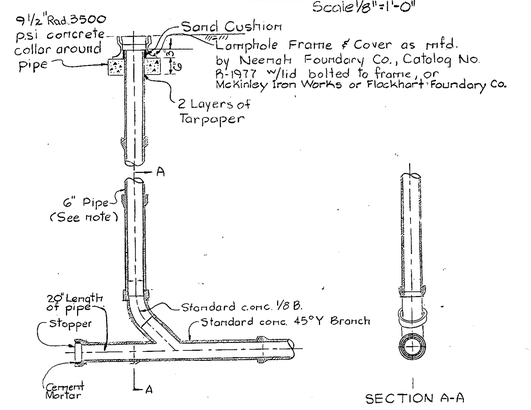
PROFILE
Scale: Hor.: 1"=50'
Vert.: 1"=5'



GROUND WATER COLLECTOR TRENCH

GROUND WATER INTERCEPTOR TRENCH

* Depth dependent on slope of Trench and amount of unsuitable material removed.



LAMPHOLE DETAIL
Scale: None

WHITMAN, REQUARDT AND ASSOCIATES
ENGINEERS
1111 N. CHARLES STREET
BALTIMORE, MARYLAND

KENNETH A. McCORD, P.E. 1974

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING
PLANNING DIRECTOR — DATE 8-18-80
CHIEF, DIVISION OF LAND DEVELOPMENT — DATE 8-8-80
APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE AND STORM DRAINAGE SYSTEMS AND ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DIRECTOR — DATE 8-11-80
CHIEF, BUREAU OF ENGINEERING — DATE 8-11-80

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
APPROVED: William T Rame HOWARD S.C.D. DATE: 8-13-80
SIGNATURE: U.S. SOIL CONSERVATION SERVICE — DATE 8-13-80
APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS HOWARD COUNTY HEALTH DEPARTMENT.
COUNTY HEALTH OFFICER — DATE 8-14-80

APPROVED
DIVISION OF LAND DEVELOPMENT
DATE 7-8-80

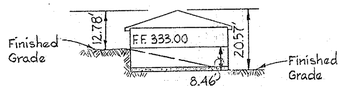
OWNER AND DEVELOPER
DEEP RUN ASSOCIATES
3701 OLD COURT ROAD UNIT #11
BALTIMORE, MARYLAND 21208

SITE DEVELOPMENT PLAN
DEEP RUN PARK - SECTION I
SEWER PLAN, PROFILE & DETAILS
FIRST ELECTION DISTRICT OF HOWARD COUNTY MARYLAND
TAX MAP 37 — PARCEL 163
DATE: November 16, 1979 — SCALE: As noted

SHEET 10 OF 33

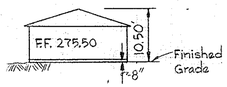
7-1-80

SDP-80-95



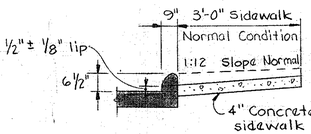
For Plan Layout See Sheet 37 of 41

CROSS SECTION
OFFICE BUILDING
Not To Scale

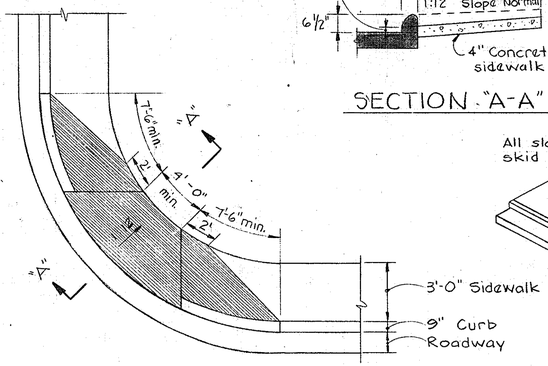


For Plan Layout See Sheet 35 of 41

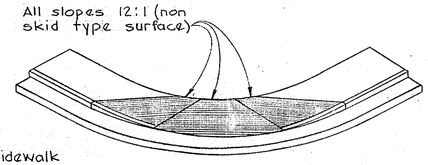
CROSS SECTION
BATH HOUSE
Not To Scale



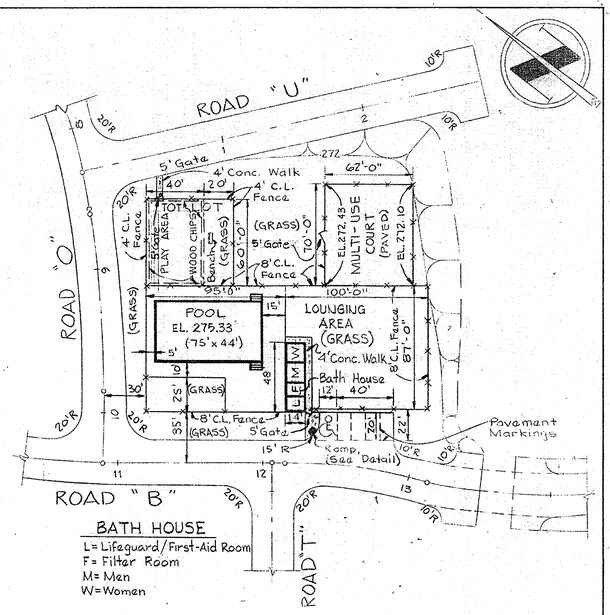
SECTION "A-A"



PLAN



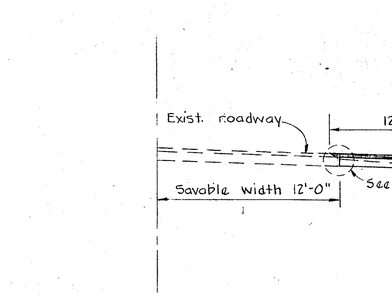
ISOMETRIC



BATH HOUSE
L = Lifeguard/First-Aid Room
F = Filter Room
M = Men
W = Women

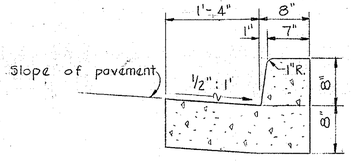
RECREATION AREA
Scale: 1"=50'

DETAIL - WHEEL CHAIR RAMP
Not To Scale



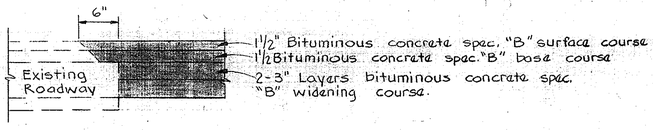
Note: Place 4" topsoil, seed & mulch on islands and medians as noted on plans.
Place 2" topsoil, seed & mulch on all regraded areas of removed roadways as noted on plans

TYPICAL WIDENING SECTION
(ALONG OLD WATERLOO ROAD)
Scale: 1"=5'-0"

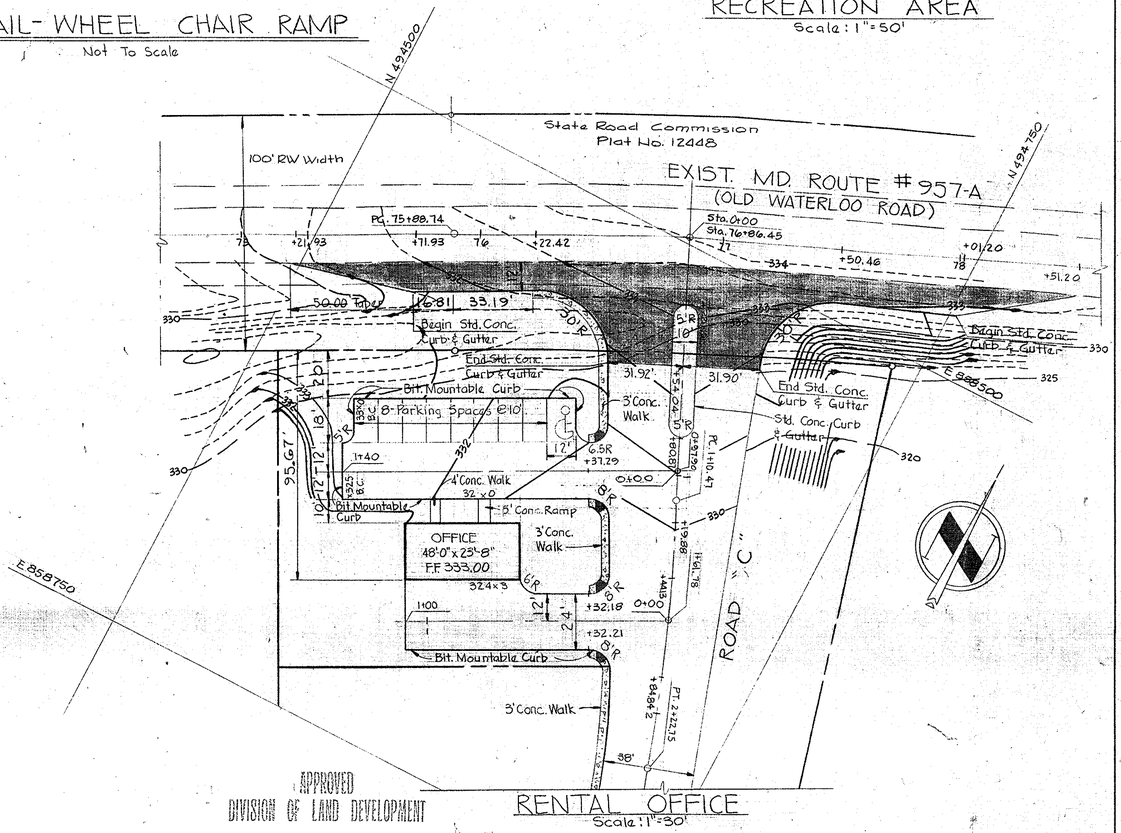


(SHA TYPE "A")

STANDARD CONCRETE
CURB & GUTTER
Scale: 1"=1'-0"



PAVING DETAIL
Scale: 1"=1'-0"



RENTAL OFFICE
Scale: 1"=30'

APPROVED
DIVISION OF LAND DEVELOPMENT
HOWARD COUNTY, MARYLAND
DATE 7-8-80

WHITMAN, REQUARDT AND ASSOCIATES
ENGINEERS
1111 N. CHARLES STREET
BALTIMORE, MARYLAND
KENNETH A. McCORD, P.E. 1974

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING
PLANNING DIRECTOR — DATE 8-18-80
CHIEF, DIVISION OF LAND DEVELOPMENT — DATE 8-13-80
APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE AND STORM DRAINAGE SYSTEMS AND ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DIRECTOR — DATE 8-11-80
CHIEF BUREAU OF ENGINEERING — DATE 8-11-80

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
APPROVED: HOWARD S.C.D. — DATE 8-13-80
SIGNATURE: U.S. SOIL CONSERVATION SERVICE — DATE 8-12-80
APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS HOWARD COUNTY HEALTH DEPARTMENT
COUNTY HEALTH OFFICER — DATE 8-14-80

OWNER AND DEVELOPER
DEEP RUN ASSOCIATES
3701 OLD COURT ROAD UNIT #11
BALTIMORE, MARYLAND 21208

SITE DEVELOPMENT
DEEP RUN PARK - SECTION I
DETAILS
FIRST ELECTION DISTRICT OF HOWARD COUNTY, MARYLAND
TAX MAP 37 — PARCEL 163
DATE: February 27, 1980 — SCALE: As Noted
SHEET 11 OF 33

7-1-80

SDP-80-75

SECTION ALONG FLOW LINE

SUMPED "A" INLETS- MOUNTABLE CURB

SECTION ALONG FLOW LINE

"A" INLETS - MOUNTABLE CURB

Scale: 3/8" = 1'-0"

Note: For "A" Inlet dimensions and structural details see Standard Howard County Drawing 64-A Page 119A

SECTION "A-A"

"A" INLET - MOUNTABLE CURB

Notes: 1. A tack coat will be required in accordance with Section 31-4 of the Howard County Construction Code & Specifications.
2. Base will be primed in accordance with Section C-30-3 of the Howard County Construction Code and Specifications.

STANDARD PAVING SECTION

Scale: ¼" = 1'-0"

Notes:

1. All Posts, Fence Fabric, Rails, Barbed Wire, Stretcher Bars, Clamps And Component Parts Shall Be Galvanized Steel.
2. 10' Typical Spacing Between Posts.
3. Wire Fabric To Be Attached To Line Posts With 9 Gage Tie Wires @ 14" O.C. Max.
4. Bottom Of Fabric To Be 2" Max. Above Ground
5. Fabric To Have Knuckled Selvage Edges @ Top & Bottom - 4' Fence Only.
6. All Concrete To Be 3500 p.s.i.

FENCE DETAILS

No Scale

STREET LIGHTING DETAIL

No Scale

TIMBER POST BARRICADE

TYPICAL ROAD END

No Scale

TYPICAL HALF SECTION OF LOG AND CHAIN POST

No Scale

EXTRUDED CONCRETE CURB

No Scale

PAVEMENT SECTION FOR MULTI-USE COURT

No Scale

ESTIMATE OF QUANTITIES

ITEM	DESCRIPTION	UNIT	QUANTITIES
	EARTHWORK		
1	Cut	C.Y.	196,600
2	Fill	C.Y.	169,750
3	Material Excess for Disposal	C.Y.	28,850
4	Seed & Mulch Yard Areas	Ac.	25
5	Bituminous Concrete Road	S.Y.	42,200
6	Widening of Existing Waterloo Rd.	S.Y.	555
7	Standard Bituminous Mountable Curb	L.F.	23,600
8	Standard Concrete Curb and Gutter (SHA Typ "A")	L.F.	325
9	Bituminous Concrete Parking Pads (6")	S.Y.	12,900
10	Concrete Patios 4"	S.Y.	68,000
11	CR-6 Mobile Home Pads (4")	S.Y.	18,400
12	3" Wide Concrete Walk	S.Y.	8460
13	Meter Pedestal W Panel Box	Ea.	306
14	Standard A-5 Inlet	Ea.	11
15	Standard A-5 Inlet w/deflectors	Ea.	11
16	Standard A-10 Inlet	Ea.	8
17	Standard A-10 Inlet w/deflectors	Ea.	1
18	Type "C" Inlet	Ea.	6
19	Standard Storm Drain Manhole	Ea.	1
20	15" Precast Conc. Outlet Structure	Ea.	5
21	21" Precast Conc Outlet Structure	Ea.	1
22	24" Precast Conc. Outlet Structure	Ea.	1
23	24" Precast Conc. Outlet Structure	Ea.	1
24	30" Precast Conc. Outlet Structure	Ea.	1
25	36" Precast Conc. Inlet Structure	Ea.	1
26	42" Precast Conc. Inlet Structure	Ea.	1
27	42" Precast Conc. Outlet Structure	Ea.	2
28	54" Precast Conc. Inlet Structure	Ea.	1
29	Type "A" Headwall (42")	Ea.	1
30	Type "D" Headwall (54")	Ea.	1
31	15" R.C.P. Class IV	L.F.	2117
32	18" RCP Class IV	L.F.	172
33	21" RCP Class IV	L.F.	191
34	24" RCP Class IV	L.F.	40
35	30" RCP Class IV	L.F.	22
36	36" RCP Class IV	L.F.	64
37	42" RCP Class IV	L.F.	191
38	54" RCP Class IV	L.F.	102
39	6" Riprap Outfall Protection (14")	S.Y.	170
40	9" Riprap Outfall Protection (20")	S.Y.	130
41	15" Riprap Outfall Protection (34")	S.Y.	100
42	150# Riprap (Slope Protection @ W & S crossings)	S.Y.	190
43	8" Ductile Iron Pipe Cl. 52	L.F.	
44	6" Ductile Iron Pipe Cl. 52	L.F.	
45	2" P.V.C. (Potable water pipe)	Ea.	
46	6" Fire Hydrants w/6" D.I. Leads	Ea.	
47	Water House Connections	Ea.	
48	8" Detector Check (Furnished by Howard Co.)	Ea.	1
49	8" Sanitary Sewer Pipe	L.F.	
50	6" Sanitary Sewer Pipe	L.F.	
51	Sanitary Sewer Manholes (Precast)	Ea.	62
52	Sanitary Sewer Lampholes	Ea.	
53	Type "A" drop Manholes	Ea.	1
54	Sewer House Connections	Ea.	
55	Swimming Pool complete	Ea.	1
56	Rental Office Building	Ea.	1
57	Landscaping-Trees	Ea.	500±
58	Swimming Pool Bathhouse	Ea.	
59	Street lights	Ea.	54
60	Playground Equipment	Ea.	
61	4' Fence	L.F.	630
62	8' Fence	L.F.	770
63	Mail Box	Ea.	19
	SEDIMENT CONTROL		
64	Earth Dikes (Perimeter & Diversion)	L.F.	9,300
65	Sediment Trap Excavation	C.Y.	3,300
66	Sediment Traps (Incl. excav., stone & Inlet Treatment)	Ea.	16
67	6' Underdrains	L.F.	3500
68	MSHA #6 Stone	C.Y.	1,200
69	Special Backfill Material	C.Y.	8,000

PAVEMENT SECTION FOR ROAD "B" CONNECTION (Sta. 13+50 to Sta. 13+75)

No Scale

WHITMAN, REQUARDT AND ASSOCIATES
ENGINEERS
1111 N. CHARLES STREET
BALTIMORE, MARYLAND

STATE OF MARYLAND — KENNETH ARMSTRONG McCORD — No. 1974 — REGISTERED PROFESSIONAL ENGINEER & LAND SURVEYOR

KENNETH A. McCORD, P.E. 1974

APPROVED: HOWARD COUNTY, OFFICE OF PLANNING AND ZONING
PLANNING DIRECTOR — DATE 8-18-80
CHIEF, DIVISION OF LAND DEVELOPMENT — DATE 8-18-80

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE AND STORM DRAINAGE SYSTEMS AND ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DIRECTOR — DATE 8-11-80
CHIEF, BUREAU OF ENGINEERING — DATE 8-11-80

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
APPROVED: William T. Rowe HOWARD S.C.D. DATE: 8-13-80
SIGNATURE: U.S. SOIL CONSERVATION SERVICE — DATE 8-13-80
APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS HOWARD COUNTY HEALTH DEPARTMENT
COUNTY HEALTH OFFICER — DATE 8-14-80

APPROVED
DIVISION OF LAND DEVELOPMENT
HOWARD COUNTY, MARYLAND
DATE 7-8-80

REVISIONS

△	Revise curb detail from bituminous to concrete	5/1/81

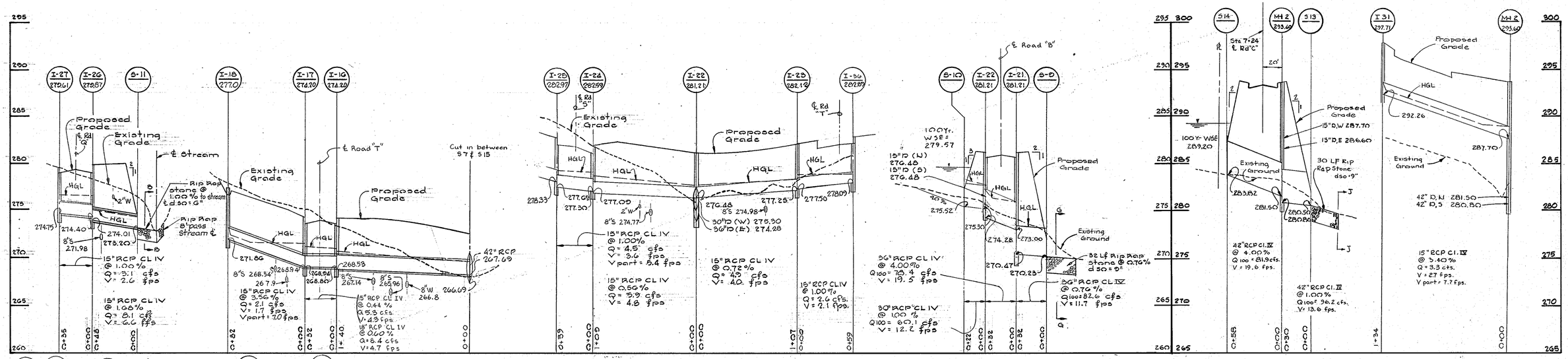
OWNER AND DEVELOPER
DEEP RUN ASSOCIATES
3701 OLD COURT ROAD UNIT #11
BALTIMORE, MARYLAND 21208

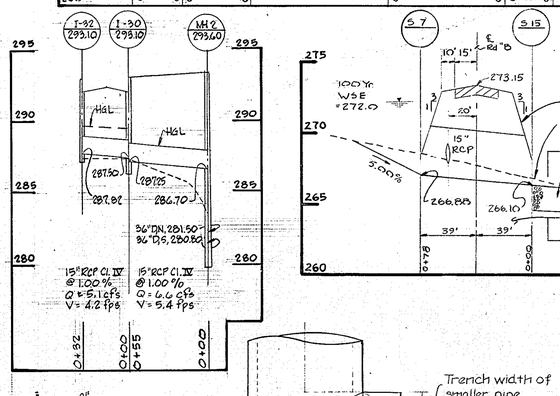
SITE DEVELOPMENT PLAN
DEEP RUN PARK - SECTION I
DETAILS
FIRST ELECTION DISTRICT OF HOWARD COUNTY MARYLAND
TAX MAP 37 — PARCEL 163
DATE: November 16, 1979 — SCALE: As Noted

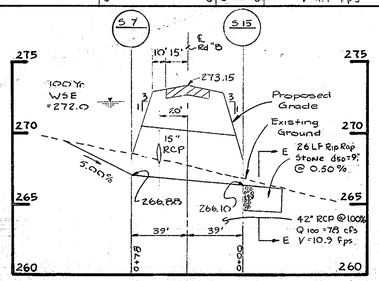
SHEET 12 OF 33

6-11-80

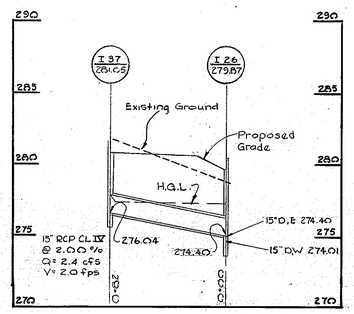
SDP-80-95

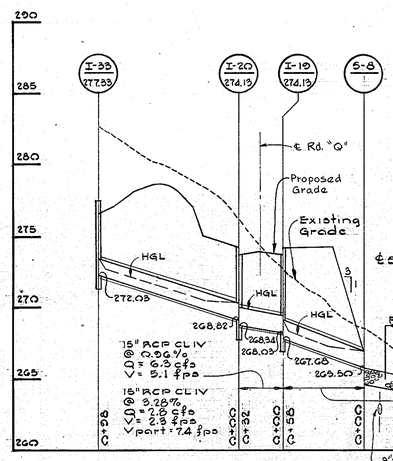


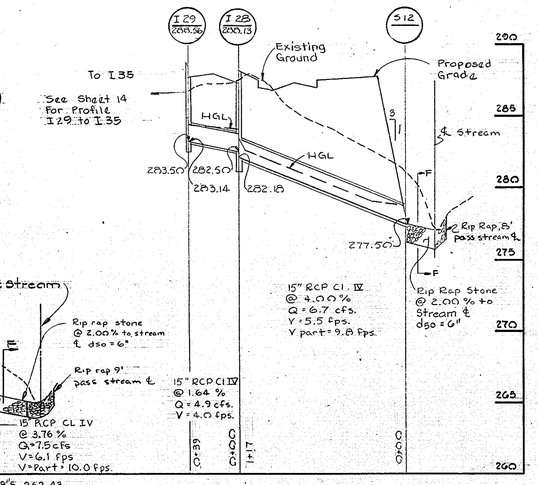


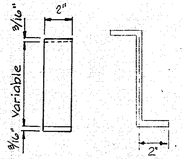


APPROVED
DIVISION OF LAND DEVELOPMENT
HOWARD COUNTY, MARYLAND
DATE 7-8-80



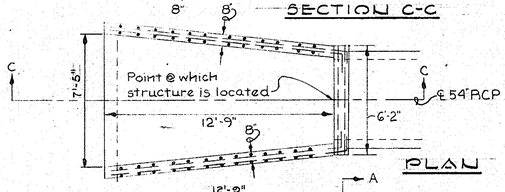






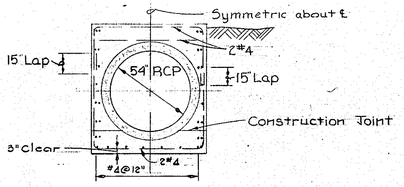
HANGER DETAIL
(Galvanized)

PLAN

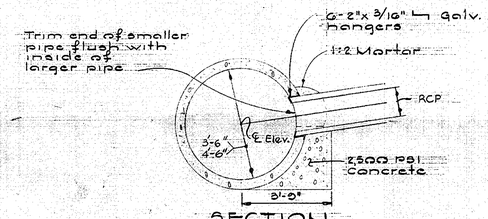


SECTION C-C

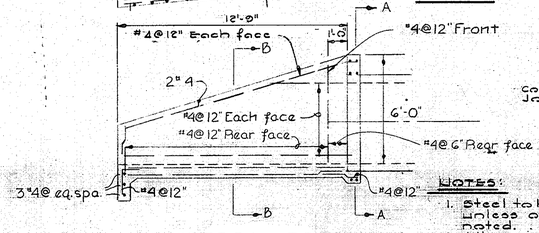
PLAN



SECTION A-A

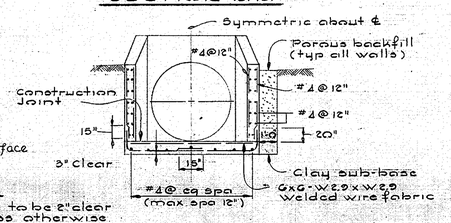


SECTION
TYPICAL FIELD CONNECTION
NO SCALE



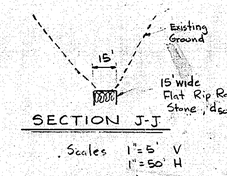
STEEL DETAIL

NOTES:
1. Steel to be 2" clear unless otherwise noted.
2. All concrete shall be 3500 psi.

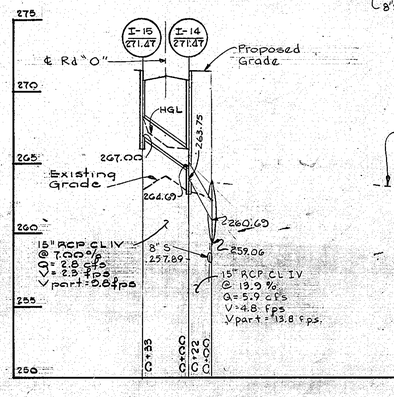


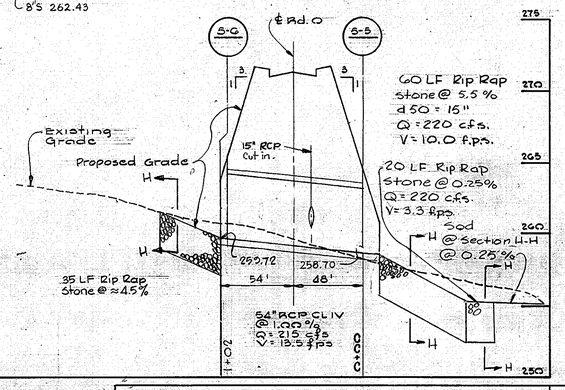
SECTION B-B

DETAIL S-5
Scale: 1/4" = 1'-0"



SECTION J-J
Scales 1"=5' V
1"=50' H





STORM DRAIN PROFILES
Scales: Hor: 1"=50'
Vert.= 1"=5'

WHITMAN, REQUARDT AND ASSOCIATES
ENGINEERS
1111 N. CHARLES STREET
BALTIMORE, MARYLAND

Kenneth A. McCord
KENNETH A. McCORD, P.E. 1974

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING
PLANNING DIRECTOR — DATE 8-18-80
CHIEF, DIVISION OF LAND DEVELOPMENT — DATE 8-18-80

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE AND STORM DRAINAGE SYSTEMS AND ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DIRECTOR — DATE 8-11-80
CHIEF, BUREAU OF ENGINEERING — DATE 8-11-80

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
APPROVED: William T Rowe — HOWARD S.C.D. — DATE: 8-13-80

SIGNATURE: U.S. SOIL CONSERVATION SERVICE — 8-13-80 DATE

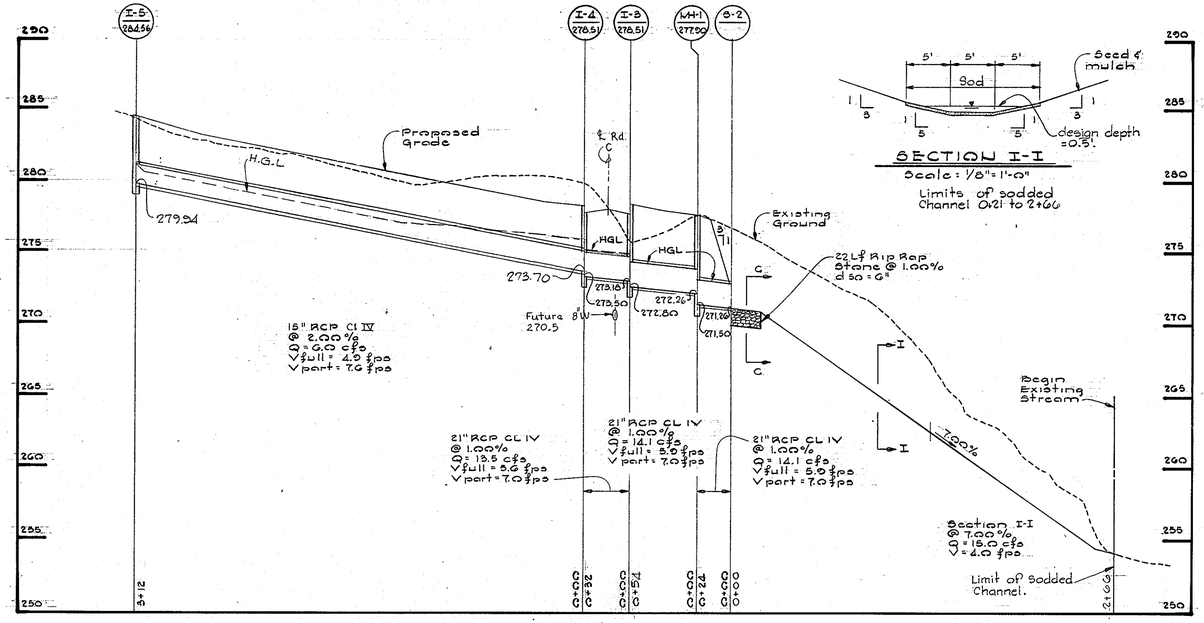
APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS HOWARD COUNTY HEALTH DEPARTMENT.
COUNTY HEALTH OFFICER — 8-14-80 DATE

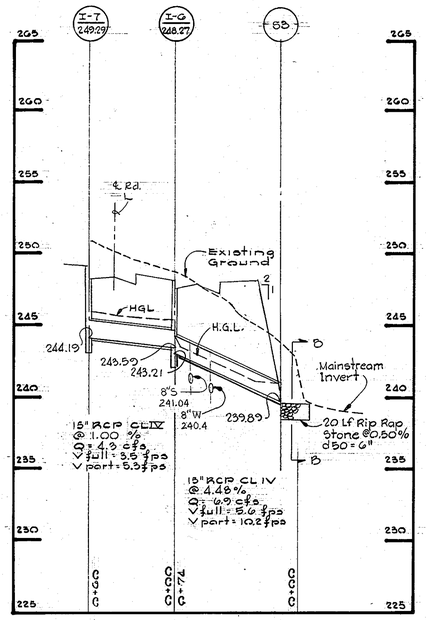
OWNER AND DEVELOPER
DEEP RUN ASSOCIATES
3701 OLD COURT ROAD UNIT #11
BALTIMORE, MARYLAND 21208

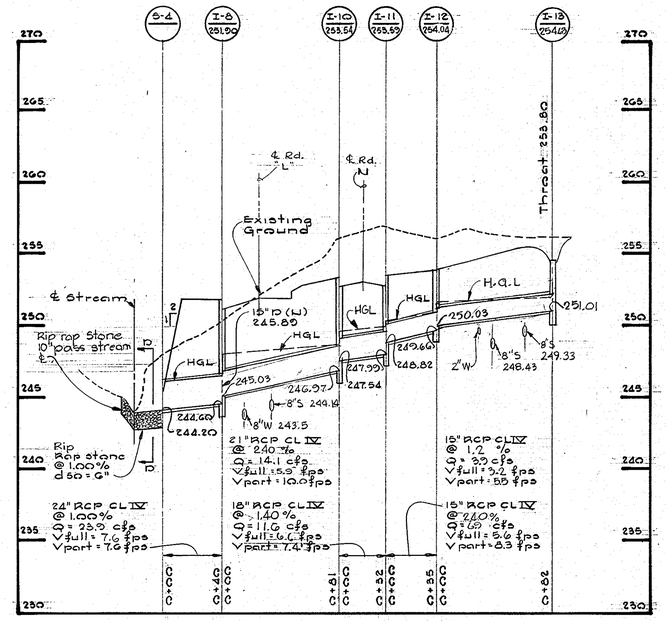
SITE DEVELOPMENT PLAN
DEEP RUN PARK - SECTION I
STORM DRAIN PROFILES
FIRST ELECTION DISTRICT OF HOWARD COUNTY MARYLAND
TAX MAP 37 — PARCEL 163
DATE: November 16, 1979 — SCALE: As Noted
SHEET 13 OF 33

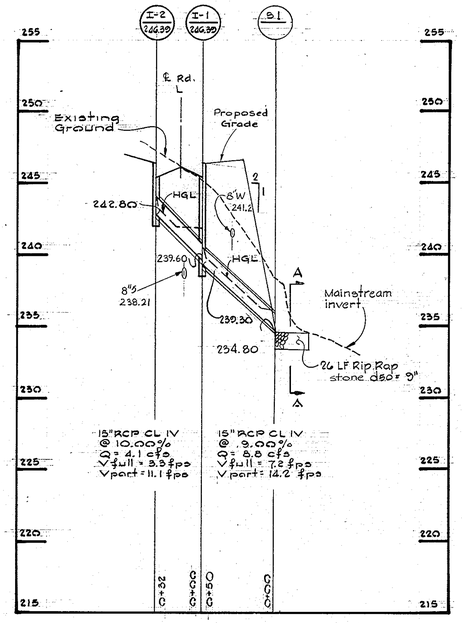
6-11-80

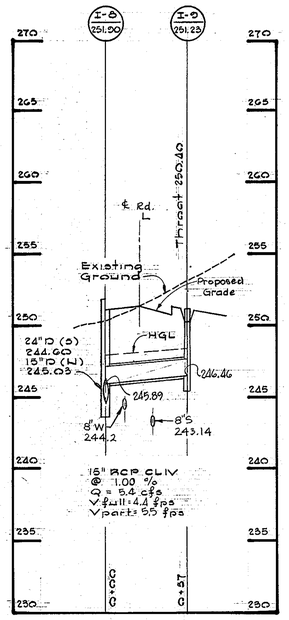
SDP-80-95

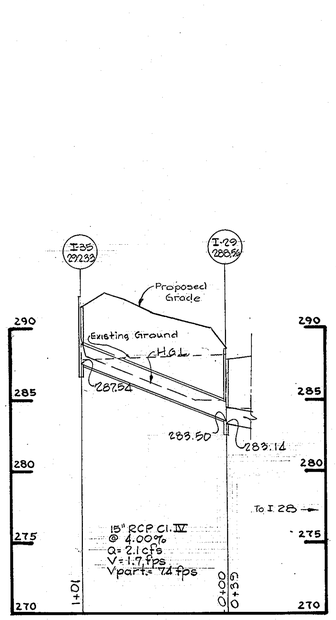










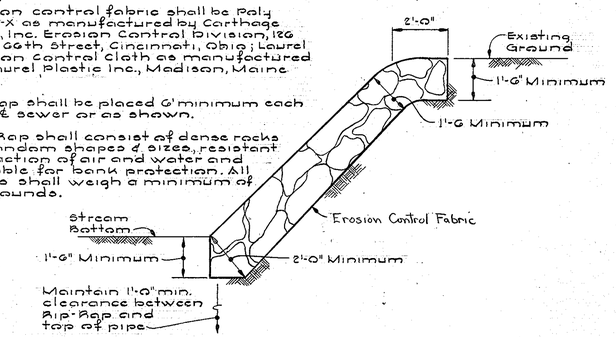


STORM DRAIN PROFILES

Scale: Horz 1"=50'
Vert 1"=10'

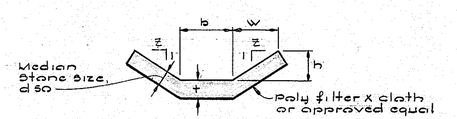
Notes:

1. Erosion control fabric shall be Poly Filter X as manufactured by Carthage Mills, Inc. Erosion Control Division, 126 West 60th Street, Cincinnati, Ohio; Laurel Erosion Control Cloth as manufactured by Laurel Plastic Inc., Madison, Maine
2. Rip-Rap shall be placed 6' minimum each side ℄ sewer or as shown.
3. Rip-Rap shall consist of dense rocks of random shaped & sizes, resistant the action of air and water and suitable for bank protection. All rocks shall weigh a minimum of 150 pounds.



TYPICAL RIP-RAP DETAIL FOR WATER AND SEWER

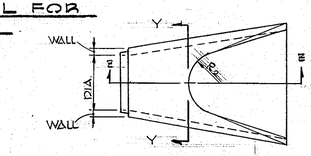
Scale: 3/8"=1'-0"

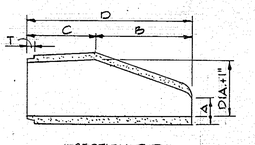


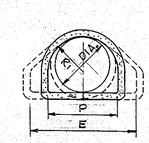
TYPICAL RIP-RAP DETAIL FOR STORM DRAINS

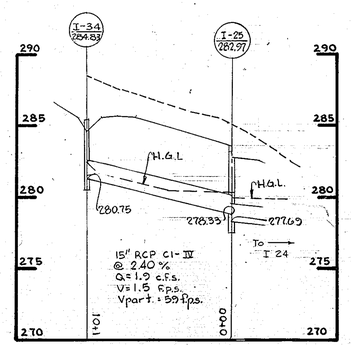
No scale

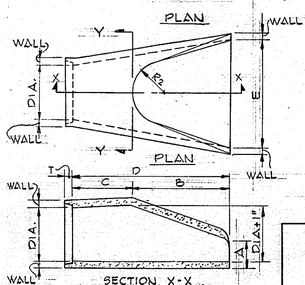
Section	d50	t	b	w	h	z
AA	9"	1'-8"	2'-6"	3'-0"	1'-6"	2
BB	6"	1'-2"	2'-6"	3'-0"	1'-6"	2
CC	6"	1'-2"	5'-0"	5'-0"	1'-0"	5
DD	6"	1'-2"	4'-0"	3'-0"	1'-6"	2
EE	9"	1'-8"	6'-6"	6'-0"	3'-0"	2
FF	6"	1'-2"	2'-6"	2'-0"	1'-0"	2
GG	9"	1'-8"	6'-0"	5'-0"	2'-6"	2
HH	15"	2'-10"	10'-0"	6'-0"	3'-0"	2











FLARED END SECTION - OUTLET

FLARED END SECTION - DIMENSIONS

DIA.	WALL	A	B	C	D	E	F	P	R1	R2	T
15	2 1/4	6	27	46	73	50	3:1	24 5/16	12 1/2	11	2
18	2 1/2	9	27	46	73	56	3:1	29	15 1/2	12	2 1/2
24	3	9 1/2	43 1/2	80	73 1/2	48	3:1	33 3/16	16 1/16	14	2 3/4
30	3 1/2	12	54	19 3/16	73 1/2	60	3:1	37	18 1/2	15	3
36	4	15	63	84 3/4	97 1/2	72	3:1	47 7/16	24 5/16	20	5 1/2
42	4 1/2	21	65	55	98	78	3:1	55 7/8	27 1/2	22	5 3/4
48	5	24	72	26	98	84	3:1	56 1/2	28 1/2	22	6 1/4

ALL DIMENSIONS IN INCHES

APPROVED
DIVISION OF LAND DEVELOPMENT
HOWARD COUNTY, MARYLAND
DATE 7-8-80

WHITMAN, REQUARDT AND ASSOCIATES
ENGINEERS
1111 N. CHARLES STREET
BALTIMORE, MARYLAND

KENNETH A. McCORD, P.E. 1974

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING
PLANNING DIRECTOR — DATE 8-18-80
CHIEF, DIVISION OF LAND DEVELOPMENT — DATE 8-8-80
APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE AND STORM DRAINAGE SYSTEMS AND ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DIRECTOR — DATE 8-11-80
CHIEF, BUREAU OF ENGINEERING — DATE 8-11-80

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
APPROVED: William T Rame HOWARD S.C.D. DATE: 8-13-80
SIGNATURE: U.S. SOIL CONSERVATION SERVICE — DATE 8-13-80
APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS HOWARD COUNTY HEALTH DEPARTMENT.
COUNTY HEALTH OFFICER — DATE 8-14-80

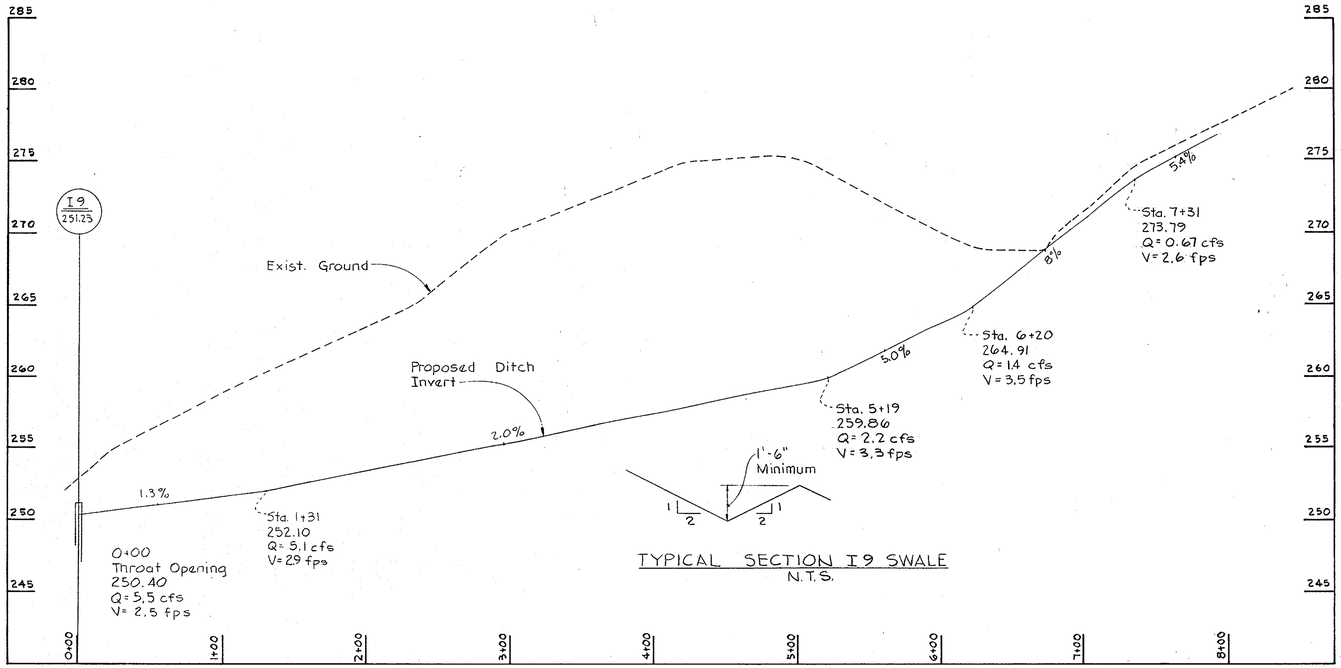
OWNER AND DEVELOPER
DEEP RUN ASSOCIATES
3701 OLD COURT ROAD UNIT #11
BALTIMORE, MARYLAND 21208

SITE DEVELOPMENT PLAN
DEEP RUN PARK - SECTION I
STORM DRAIN PROFILES
FIRST ELECTION DISTRICT OF HOWARD COUNTY MARYLAND
TAX MAP 37 PARCEL 163
DATE: November 16, 1979 SCALE: As Noted

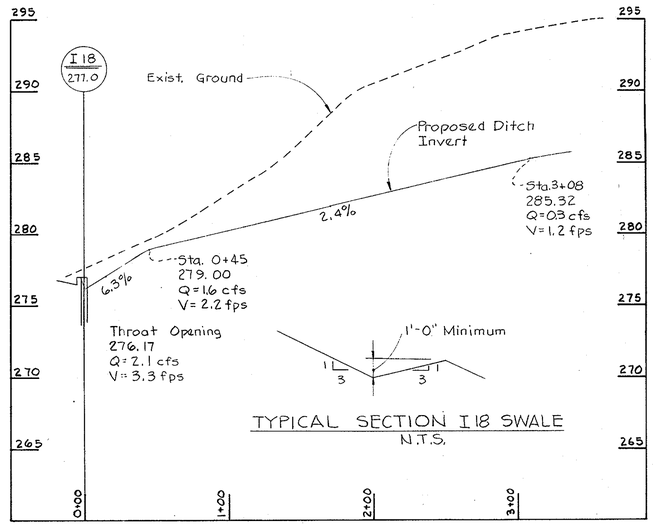
SHEET 14 OF 33

6-11-80

SDP-80-95

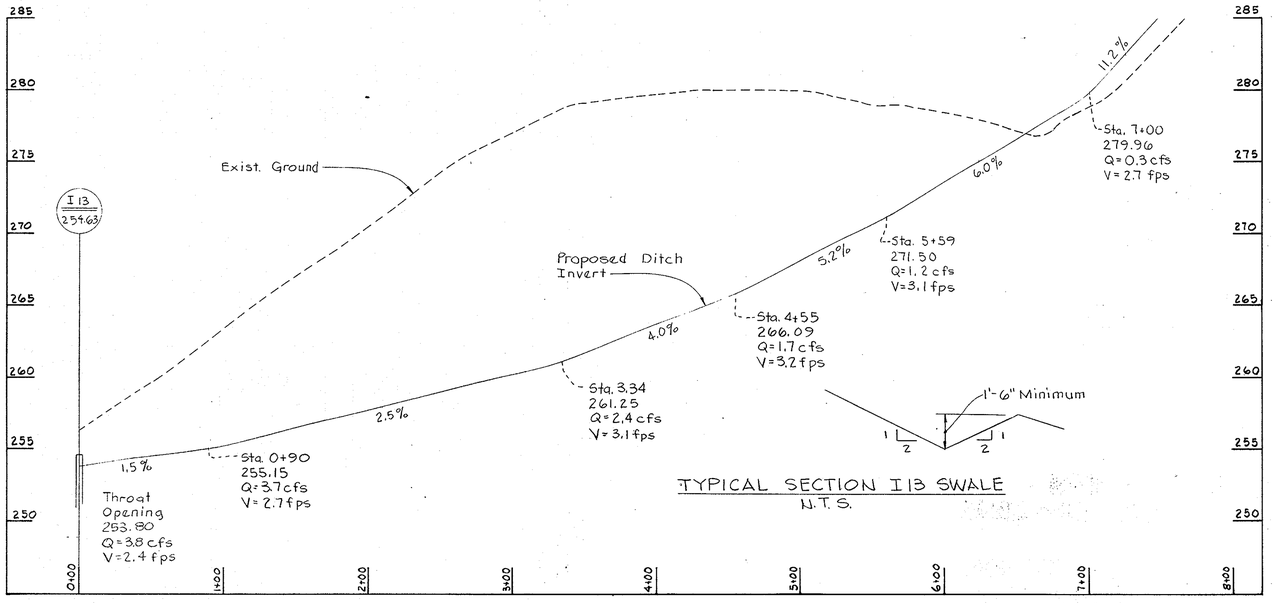


TYPICAL SECTION I 9 SWALE
N.T.S.

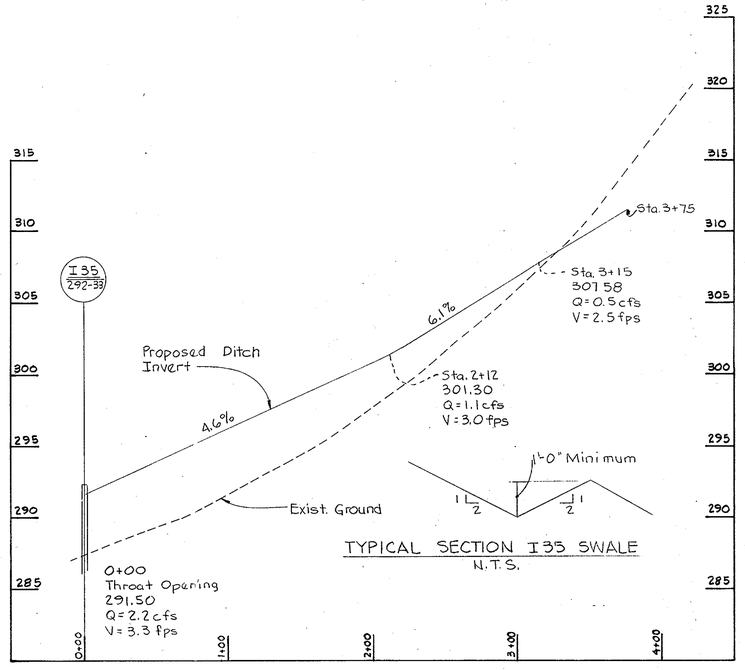


TYPICAL SECTION I 18 SWALE
N.T.S.

Note:
JUTE MAT OR EXCELSIOR BLANKET REQUIRED ON SWALES TO I-9, I-13, I-18 & I-35



TYPICAL SECTION I 13 SWALE
N.T.S.



TYPICAL SECTION I 35 SWALE
N.T.S.

APPROVED
DIVISION OF LAND DEVELOPMENT
HOWARD COUNTY, MARYLAND
DATE 7-8-80

SWALE PROFILES
Scales V: 1"=5'-0"
H: 1"=50'-0"

DEPARTMENT OF PUBLIC WORKS

CHIEF, BUREAU OF ENGINEERING — DATE

OFFICE OF PLANNING AND ZONING

CHIEF, DIVISION OF LAND DEVELOPMENT — DATE

WHITMAN, REQUARDT AND ASSOCIATES
ENGINEERS
1111 N. CHARLES STREET
BALTIMORE, MARYLAND

Kenneth A. McCord
KENNETH A. McCORD, P.E. 1974

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING
PLANNING DIRECTOR — DATE 8-18-80
CHIEF, DIVISION OF LAND DEVELOPMENT — DATE 8-18-80
APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE AND STORM DRAINAGE SYSTEMS AND ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DIRECTOR — DATE 8-11-80
CHIEF BUREAU OF ENGINEERING — DATE 8-11-80

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
APPROVED: HOWARD S.C.D. — DATE 8-13-80
SIGNATURE: U.S.SOIL CONSERVATION SERVICE — DATE 8-13-80
APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS HOWARD COUNTY HEALTH DEPARTMENT.
COUNTY HEALTH OFFICER — DATE 8-14-80

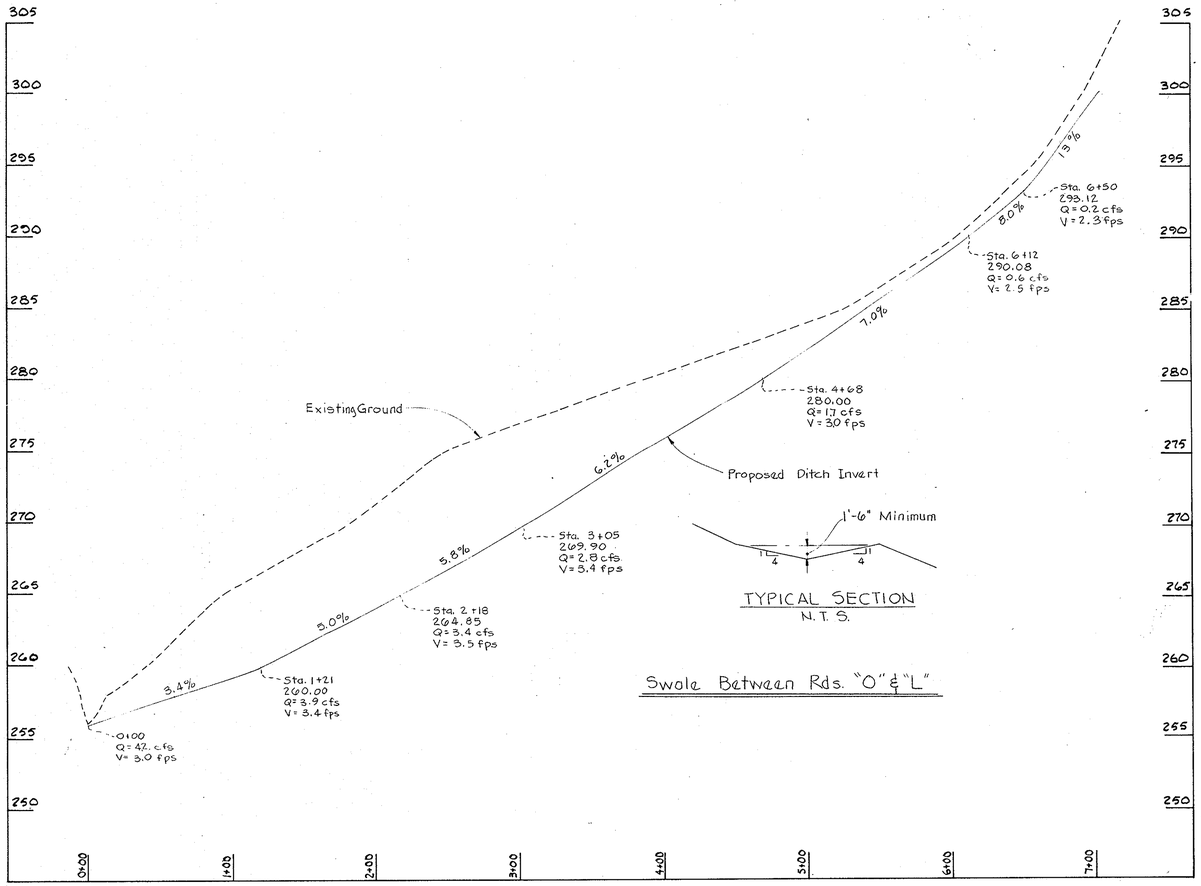
OWNER AND DEVELOPER
DEEP RUN ASSOCIATES
3701 OLD COURT ROAD UNIT #11
BALTIMORE, MARYLAND 21208

SITE DEVELOPMENT PLAN
DEEP RUN PARK - SECTION I
SWALE PROFILES
FIRST ELECTION DISTRICT OF HOWARD COUNTY MARYLAND
TAX MAP 37 — PARCEL 163
DATE: 6-11-80 — SCALE: AS NOTED

SHEET 15 OF 33

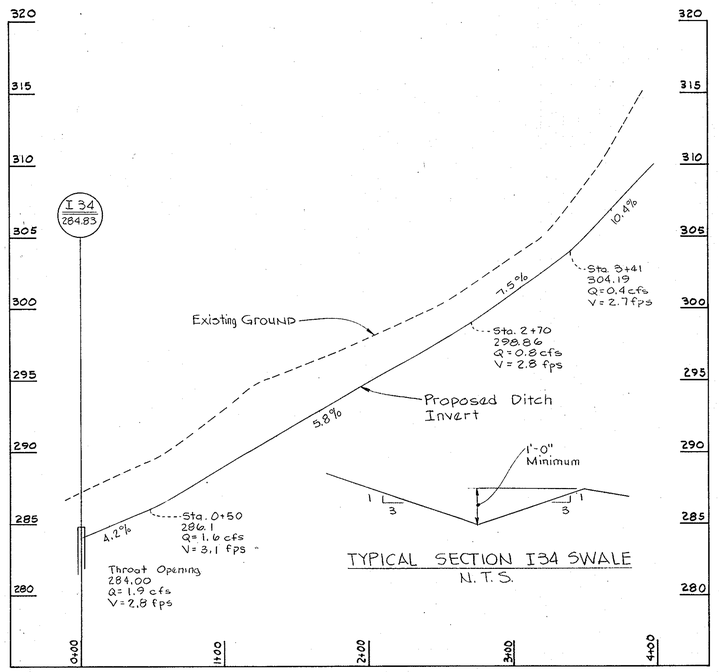
6-11-80

SDP-80-95

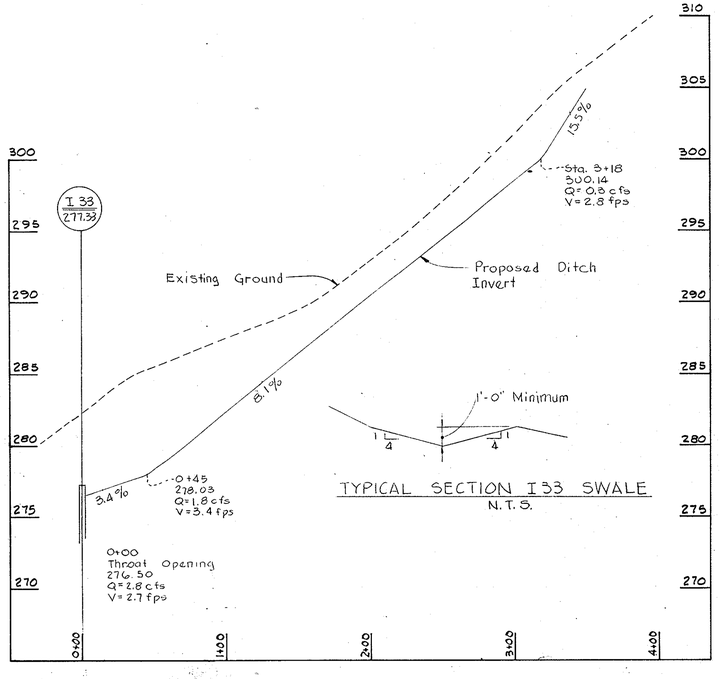


TYPICAL SECTION
N.T.S.

Swale Between Rds. "O" & "L"

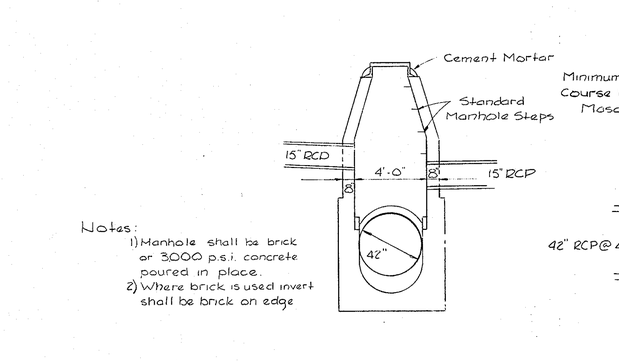


TYPICAL SECTION I34 SWALE
N.T.S.



TYPICAL SECTION I33 SWALE
N.T.S.

SWALE PROFILES
Scales V: 1"=5'-0"
H: 1"=50'-0"

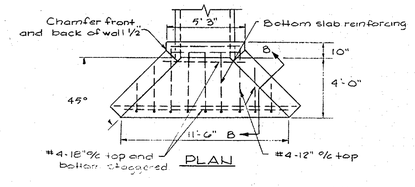


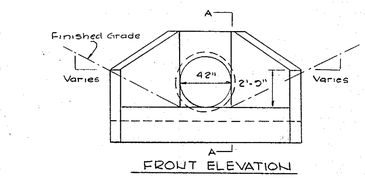
Notes:
1) Manhole shall be brick or 3000 p.s.i. concrete poured in place.
2) Where brick is used invert shall be brick on edge

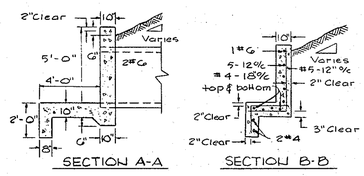
Detail MH2
Scale: ¼" = 1'

APPROVED
DIVISION OF LAND DEVELOPMENT
HOWARD COUNTY, MARYLAND
DATE 7-8-80

NOTE:
JUTE MAT OR EXCELSIOR BLANKET REQUIRED ON SWALES I-33, I-34 & BETWEEN ROADS "O" & "L".







Notes:
1. Exposed edges shall be chamfered 1"x1".
2. All concrete shall be 3000 psi.

TYPE "A" HEADWALL
Not to Scale

WHITMAN, REQUARDT AND ASSOCIATES
ENGINEERS
1111 N. CHARLES STREET
BALTIMORE, MARYLAND

Kenneth A. McCord
KENNETH A. McCORD, P.E. 1974

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING	
PLANNING DIRECTOR	DATE 8-18-80
CHIEF, DIVISION OF LAND DEVELOPMENT	DATE 8-18-80
APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE AND STORM DRAINAGE SYSTEMS AND ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS	
DIRECTOR	DATE 8-11-80
CHIEF, BUREAU OF ENGINEERING	DATE 8-11-80

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.	
APPROVED: HOWARD S.C.D.	DATE: 8-13-80
SIGNATURE: U.S.SOIL CONSERVATION SERVICE	DATE 8-13-80
APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS HOWARD COUNTY HEALTH DEPARTMENT.	
COUNTY HEALTH OFFICER	DATE 8-14-80

DEPARTMENT OF PUBLIC WORKS

CHIEF, BUREAU OF ENGINEERING — DATE

OFFICE OF PLANNING AND ZONING

CHIEF, DIVISION OF LAND DEVELOPMENT — DATE

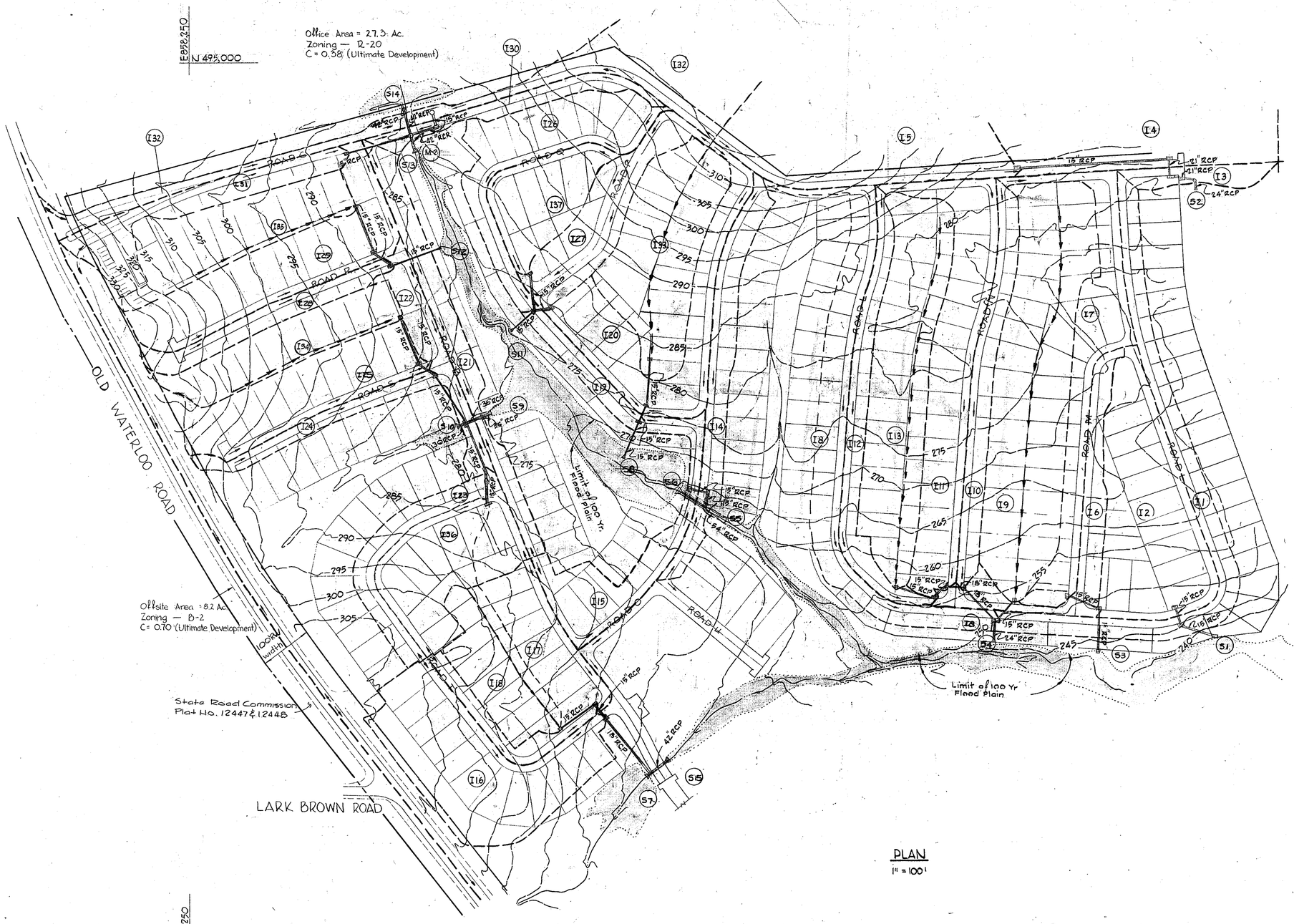
OWNER AND DEVELOPER
DEEP RUN ASSOCIATES
3701 OLD COURT ROAD UNIT #11
BALTIMORE, MARYLAND 21208

SITE DEVELOPMENT PLAN
DEEP RUN PARK - SECTION I
- SWALE PROFILES -
FIRST ELECTION DISTRICT OF HOWARD COUNTY MARYLAND
TAX MAP 37 PARCEL 163
DATE FEB. 27 1980 SCALE: AS NOTED

SHEET 16 OF 35

6-11-80

SDP-80-95



PLAN
1" = 100'

INLET	AREA (ACRES)	PERCENT IMPERVIOUS (%)	RUNOFF COEFFICIENT
I 1	1.21	64	0.67
I 2	1.78	31	0.40
I 3	0.21	60	0.63
I 4	5.81	—	0.27
I 5	4.06	—	0.29
I 6	0.75	55	0.58
I 7	1.36	50	0.55
I 8	1.45	50	0.55
I 9	2.66	20	0.35
I 10	0.70	68	0.67
I 11	1.66	65	0.49
I 12	0.75	42	0.69
I 13	1.90	20	0.35
I 14	0.81	58	0.61
I 15	0.80	48	0.53
I 16	1.76	24	0.34
I 17	0.95	50	0.55
I 18	0.92	20	0.25
I 19	0.87	54	[illegible]
I 20	[illegible]	60	[illegible]55
I 21	[illegible]	61	[illegible]
I 22	0.52	54	0.58
I 23	0.81	50	0.55
I 24	0.39	65	0.65
I 25	1.19	30	0.40
I 26	1.15	35	0.43
I 27	0.98	50	0.55
I 28	0.51	55	0.60
I 29	1.30	30	0.40
I 30	0.37	83	0.80
I 31	0.79	60	0.65
I 32	2.27	—	0.44
I 33	1.24	20	0.35
I 34	0.84	20	0.35
I 35	0.95	20	0.35
I 36	0.89	35	0.45
I 37	0.81	35	0.45

WHITMAN, REQUARDT AND ASSOCIATES
ENGINEERS
1111 N. CHARLES STREET
BALTIMORE, MARYLAND

KENNETH A. McCORD, P.E. 1974

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING
PLANNING DIRECTOR — DATE 8-18-80
CHIEF, DIVISION OF LAND DEVELOPMENT — DATE 8-18-80

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE AND STORM DRAINAGE SYSTEMS AND ROADS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DIRECTOR — DATE 8-11-80
CHIEF, BUREAU OF ENGINEERING — DATE 8-11-80

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
APPROVED: HOWARD S.C.D. — DATE: 8-13-80
SIGNATURE: U.S. SOIL CONSERVATION SERVICE — DATE 8-13-80

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS
HOWARD COUNTY HEALTH DEPARTMENT
COUNTY HEALTH OFFICER — DATE 8-14-80

APPROVED
DIVISION OF LAND DEVELOPMENT
HOWARD COUNTY, MARYLAND
DATE 7-8-80

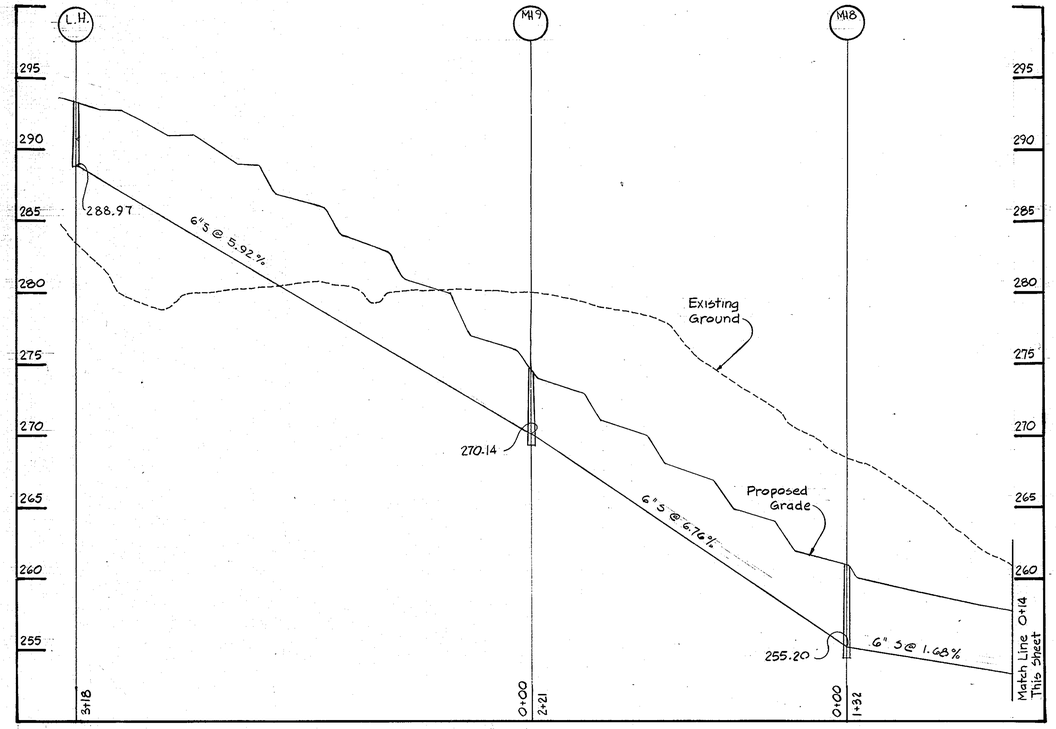
OWNER AND DEVELOPER
DEEP RUN ASSOCIATES
3701 OLD COURT ROAD UNIT #11
BALTIMORE, MARYLAND 21208

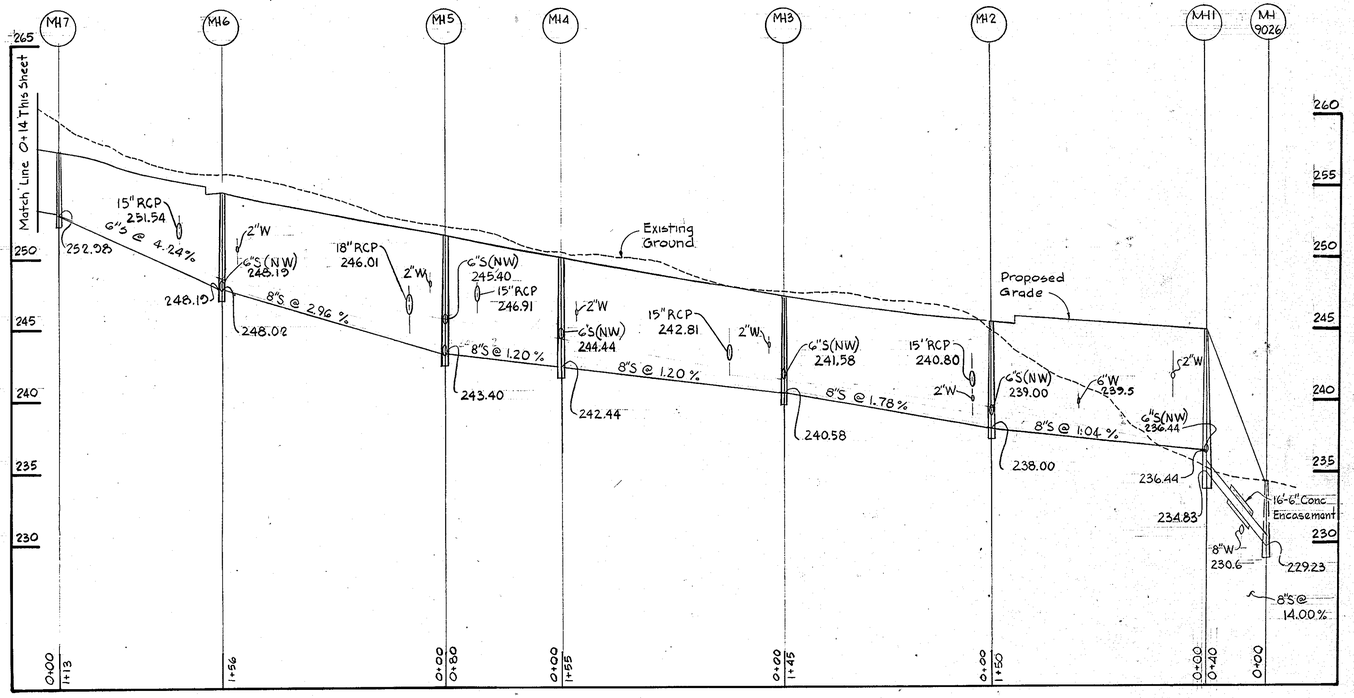
SITE DEVELOPMENT PLAN
DEEP RUN PARK - SECTION I
DRAINAGE AREA MAP
FIRST ELECTION DISTRICT OF HOWARD COUNTY MARYLAND
TAX MAP 37 — PARCEL 163
DATE: November 16, 1979 — SCALE: As Noted

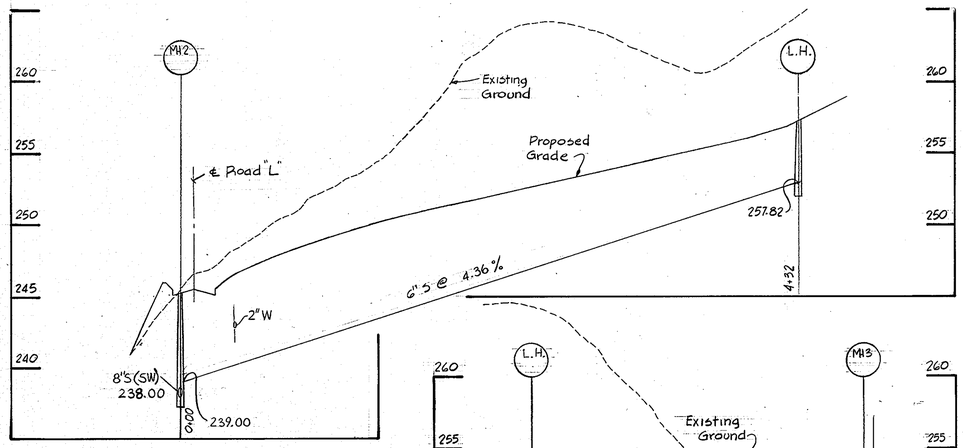
SHEET 17 OF 33

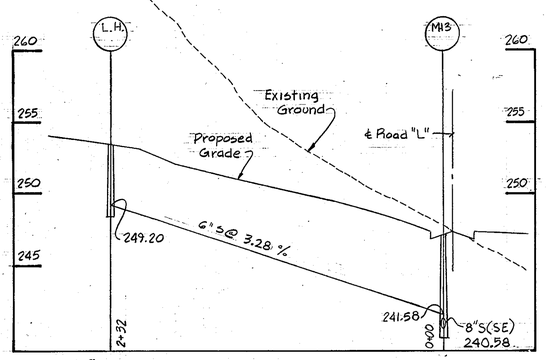
6-11-80

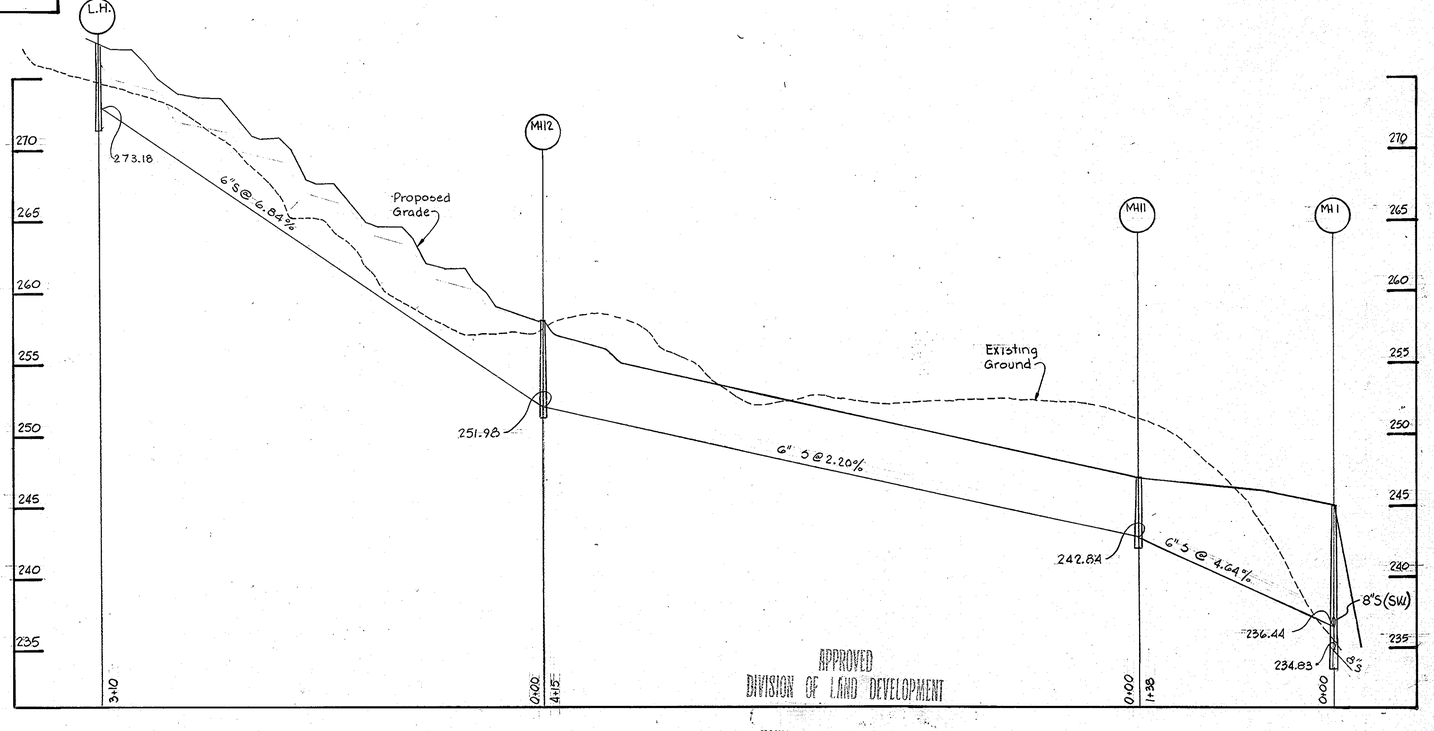
SDP-80-95











APPROVED
DIVISION OF LAND DEVELOPMENT
HOWARD COUNTY, MARYLAND
DATE 7-8-80

WHITMAN. REQUARDT AND ASSOCIATES
ENGINEERS
1111 N. CHARLES STREET
BALTIMORE. MARYLAND

KENNETH A. McCORD. P.E. 1974

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING
PLANNING DIRECTOR — DATE: 8-12-80
CHIEF / DIVISION OF LAND DEVELOPMENT — DATE: 8-13-80

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE AND STORM DRAINAGE SYSTEMS AND ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DIRECTOR — DATE: 8-11-80
CHIEF, BUREAU OF ENGINEERING — DATE: 8-11-80

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
APPROVED: HOWARD S.C.D. — DATE: 8-13-80
SIGNATURE: U.S. SOIL CONSERVATION SERVICE — DATE: 8-13-80

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS HOWARD COUNTY HEALTH DEPARTMENT.
COUNTY HEALTH OFFICER — DATE: 8-14-80

SEWER PROFILES

Scales: Hor.: 1"=50'
Vert.: 1"=5'

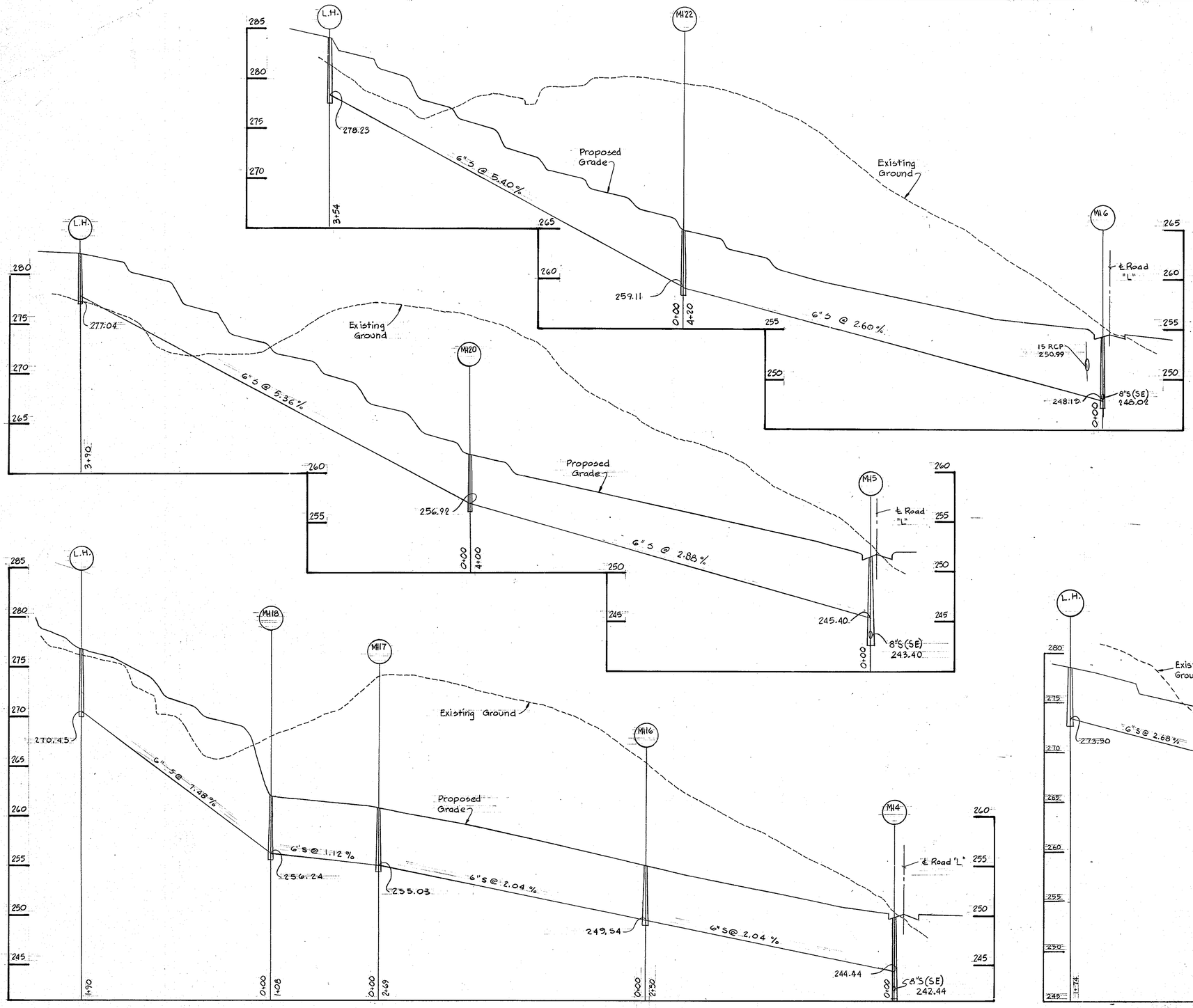
OWNER AND DEVELOPER
DEEP RUN ASSOCIATES
3701 OLD COURT ROAD UNIT #11
BALTIMORE, MARYLAND 21208

SITE DEVELOPMENT PLAN
DEEP RUN PARK - SECTION I
SEWER PROFILES
FIRST ELECTION DISTRICT OF HOWARD COUNTY MARYLAND
TAX MAP 37 — PARCEL 163
DATE: November 16, 1979 — SCALE: As Noted

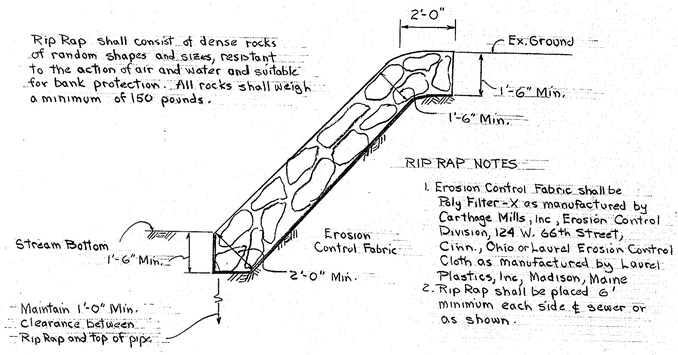
SHEET 18 OF 33

7-1-80

SDP-80-95



Rip Rap shall consist of dense rocks of random shapes and sizes, resistant to the action of air and water and suitable for bank protection. All rocks shall weigh a minimum of 150 pounds.



RIP RAP NOTES

1. Erosion Control Fabric shall be Poly Filter-X as manufactured by Carthage Mills, Inc, Erosion Control Division, 124 W. 66th Street, Cinn., Ohio or Laurel Erosion Control Cloth as manufactured by Laurel Plastics, Inc, Madison, Maine
2. Rip Rap shall be placed 6' minimum each side ℄ sewer or as shown.

TYPICAL RIP RAP DETAIL FOR WATER AND SEWER

Scale = 3/8" = 1'-0"

WHITMAN, REQUARDT AND ASSOCIATES
ENGINEERS
1111 N. CHARLES STREET
BALTIMORE, MARYLAND

Kenneth A. McCord
KENNETH A. McCORD, P.E. 1974

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING
PLANNING DIRECTOR — DATE 8-18-80
CHIEF, DIVISION OF LAND DEVELOPMENT — DATE 8-18-80
APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE AND STORM DRAINAGE SYSTEMS AND ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DIRECTOR — DATE 8-11-80
CHIEF, BUREAU OF ENGINEERING — DATE 8-11-80

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
APPROVED: William T Rame HOWARD S.C.D. DATE: 8-13-80
SIGNATURE: U.S. SOIL CONSERVATION SERVICE — DATE 8-13-80
APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS HOWARD COUNTY HEALTH DEPARTMENT.
COUNTY HEALTH OFFICER — DATE 8-14-80

SEWER PROFILES

Scales Hor.: 1"=50'
Vert.: 1"=5'

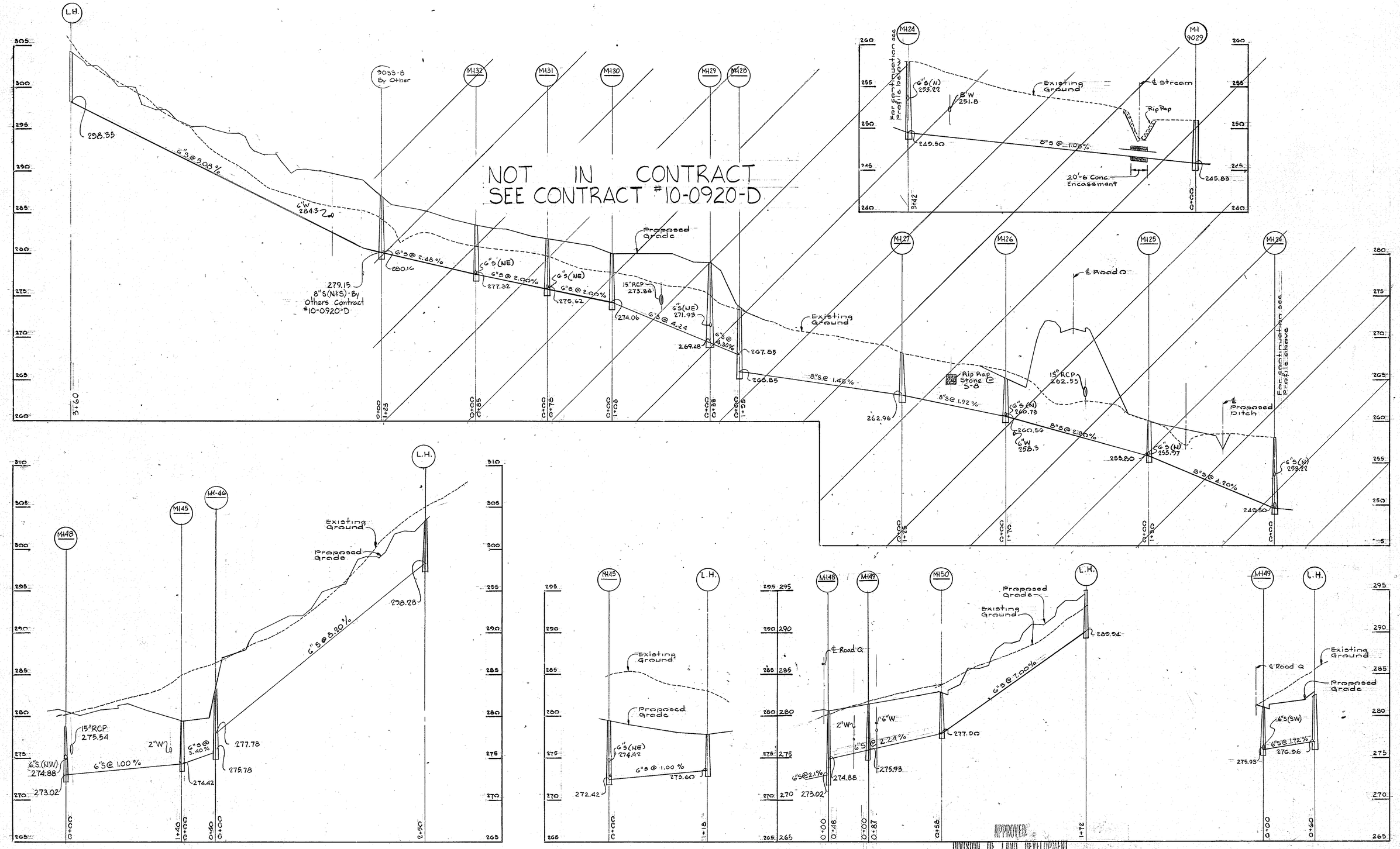
APPROVED
DIVISION OF LAND DEVELOPMENT
HOWARD COUNTY, MARYLAND
DATE 7-8-80

OWNER AND DEVELOPER
DEEP RUN ASSOCIATES
3701 OLD COURT ROAD UNIT #11
BALTIMORE, MARYLAND 21208

SITE DEVELOPMENT PLAN
DEEP RUN PARK - SECTION I
SEWER PROFILES
FIRST ELECTION DISTRICT OF HOWARD COUNTY MARYLAND
TAX MAP 37 PARCEL 163
DATE: November 16, 1979 SCALE: As Noted
SHEET 9 OF 33

7-1-80

SDP-80-45



WHITMAN, REQUARDT AND ASSOCIATES
ENGINEERS
1111 N. CHARLES STREET
BALTIMORE, MARYLAND

KENNETH A. McCORD, P.E. 1974

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING
PLANNING DIRECTOR — DATE 8-18-80
CHIEF, DIVISION OF LAND DEVELOPMENT — DATE 8-18-80

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE AND STORM DRAINAGE SYSTEMS AND ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DIRECTOR — DATE 8-11-80
CHIEF, BUREAU OF ENGINEERING — DATE 8-11-80

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
APPROVED: William T Rowe HOWARD S.C.D. DATE: 8-13-80
SIGNATURE: U.S. SOIL CONSERVATION SERVICE — DATE 8-13-80

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS HOWARD COUNTY HEALTH DEPARTMENT.
COUNTY HEALTH OFFICER — DATE 8-14-80

SEWER PROFILES
Scales: Hor.: 1"=50'
Vert.: 1"=5'

APPROVED
DIVISION OF LAND DEVELOPMENT
HOWARD COUNTY, MARYLAND
DATE 7-8-80

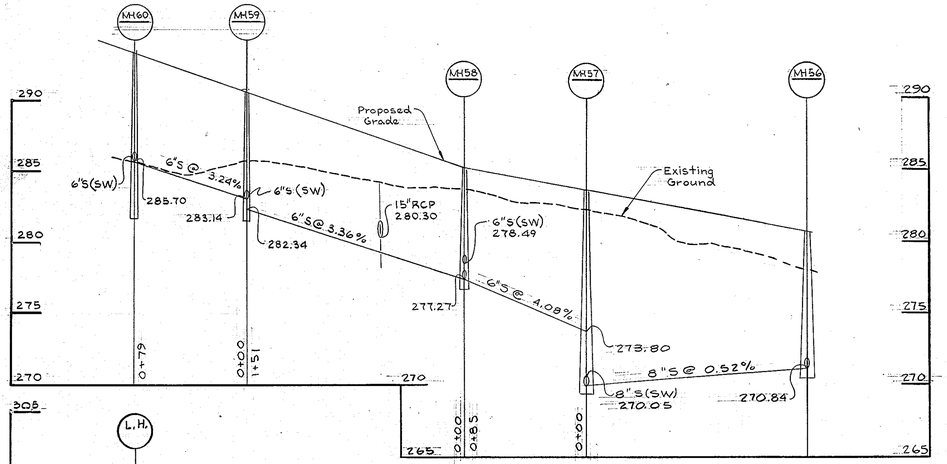
OWNER AND DEVELOPER
DEEP RUN ASSOCIATES
3701 OLD COURT ROAD UNIT #11
BALTIMORE, MARYLAND 21208

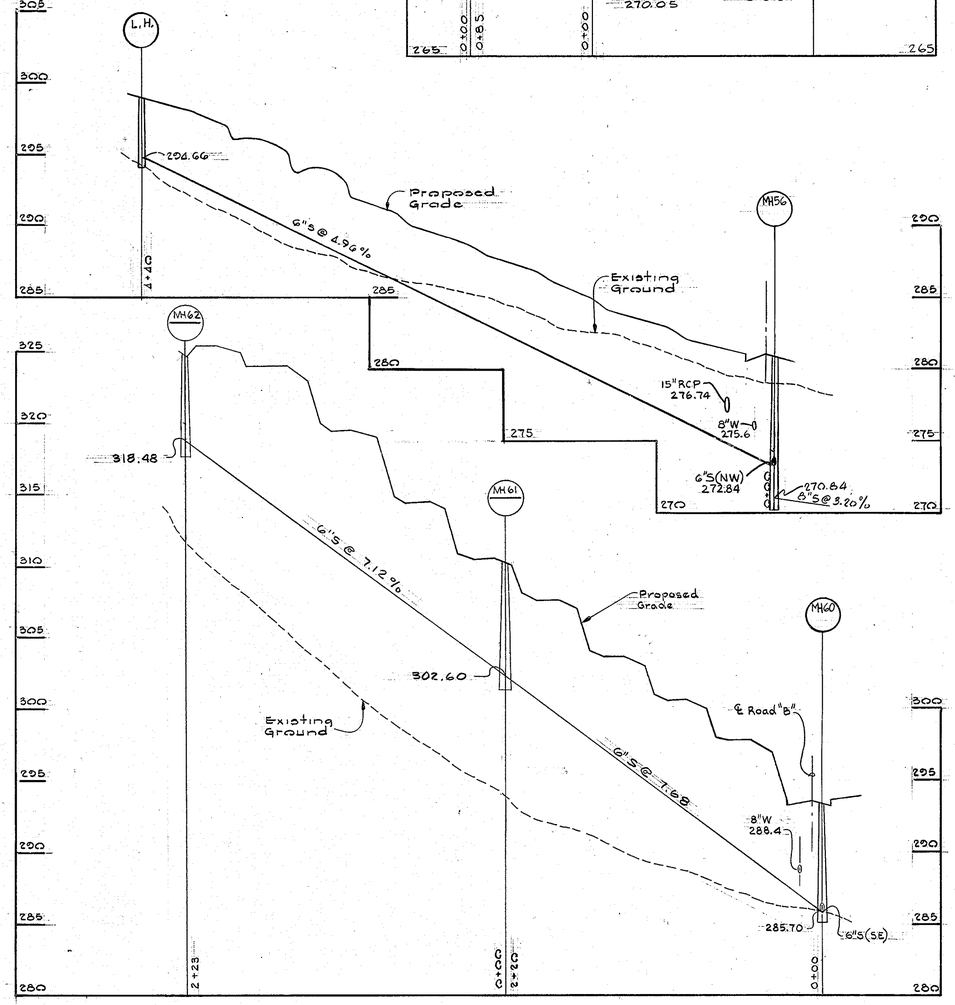
SITE DEVELOPMENT PLAN
DEEP RUN PARK - SECTION I
SEWER PROFILES
FIRST ELECTION DISTRICT OF HOWARD COUNTY MARYLAND
TAX MAP 37 — PARCEL 163
DATE: November 16, 1979 — SCALE: As Noted

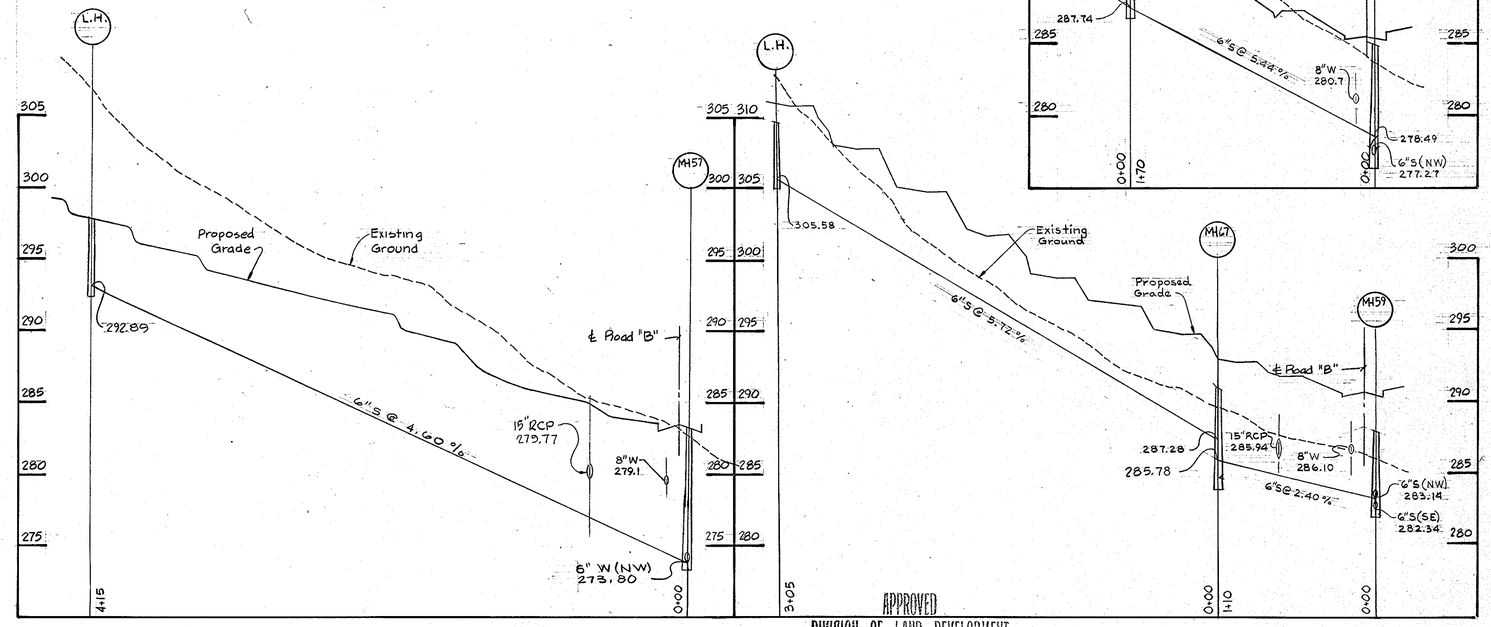
SHEET 20 OF 33

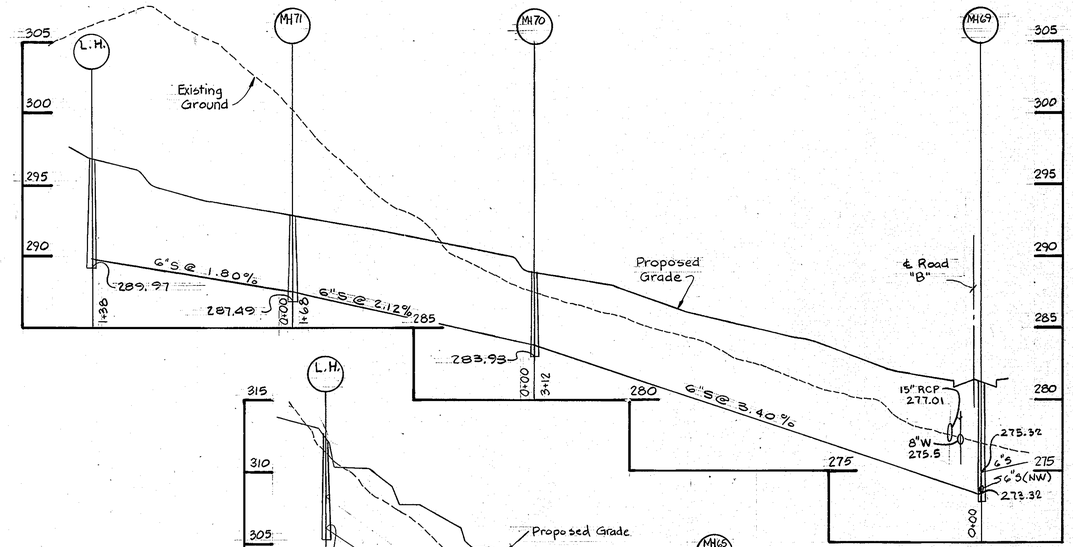
7-1-80

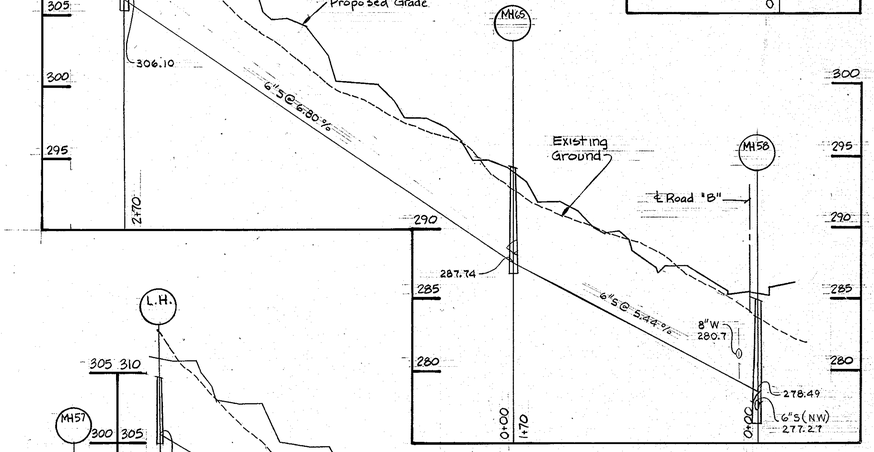
SDP-80-95











WHITMAN, REQUARDT AND ASSOCIATES
ENGINEERS
1111 N. CHARLES STREET
BALTIMORE, MARYLAND

KENNETH A. McCORD, P.E. 1974

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING

PLANNING DIRECTOR — DATE 8-18-80

CHIEF, DIVISION OF LAND DEVELOPMENT — DATE 8-18-80

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE AND STORM DRAINAGE SYSTEMS AND ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

DIRECTOR — DATE 8-11-80

CHIEF, BUREAU OF ENGINEERING — DATE 8-11-80

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

APPROVED: HOWARD S.C.D. — DATE: 8-13-80

SIGNATURE: U.S. SOIL CONSERVATION SERVICE — 8-13-80 DATE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS HOWARD COUNTY HEALTH DEPARTMENT.

COUNTY HEALTH OFFICER — 8-14-80 DATE

SEWER PROFILES

Scales Hor. 1"=50'
Vert 1"=5'

APPROVED
DIVISION OF LAND DEVELOPMENT
HOWARD COUNTY, MARYLAND
DATE 7-8-80

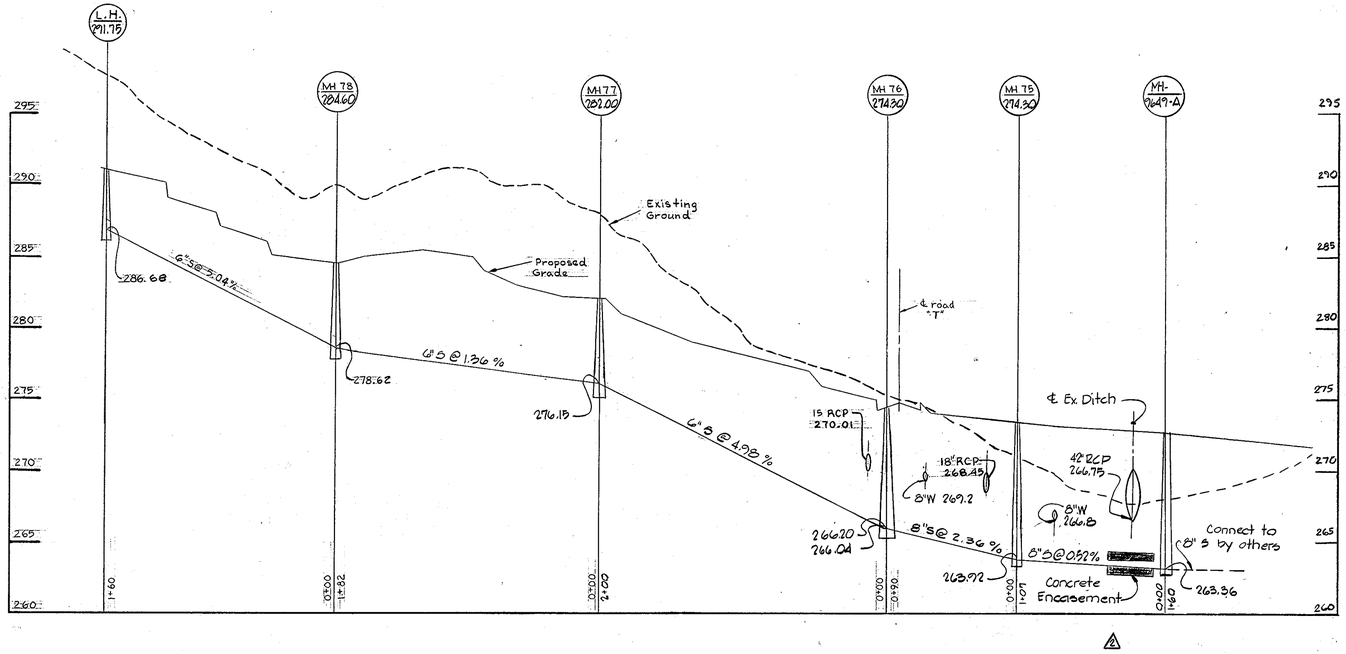
OWNER AND DEVELOPER
DEEP RUN ASSOCIATES
3701 OLD COURT ROAD UNIT #11
BALTIMORE, MARYLAND 21208

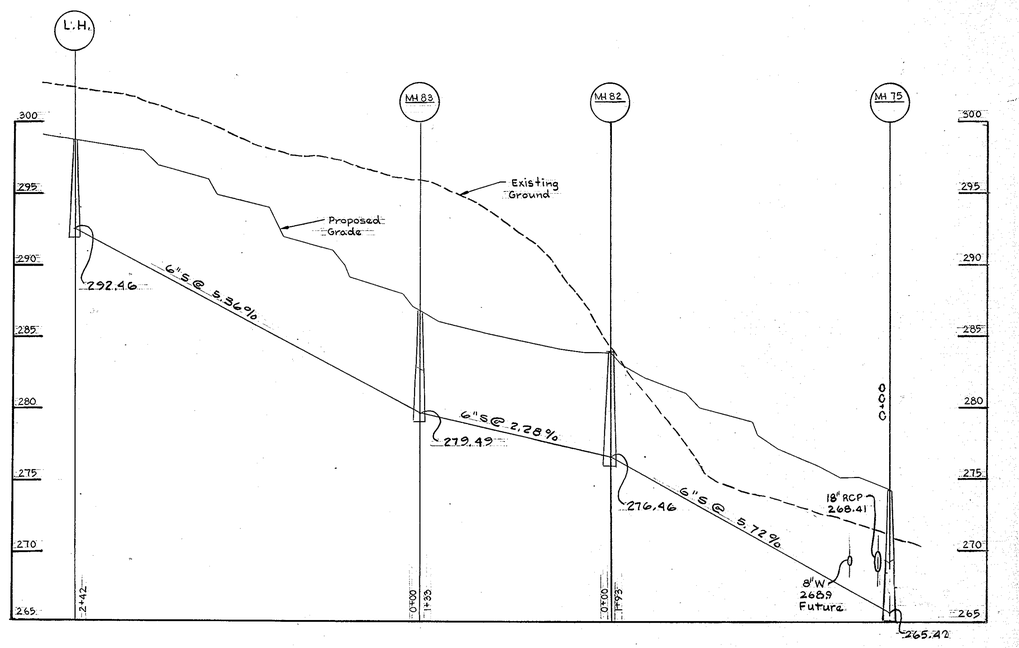
SITE DEVELOPMENT PLAN
DEEP RUN PARK - SECTION I
SEWER PROFILES
FIRST ELECTION DISTRICT OF HOWARD COUNTY MARYLAND
TAX MAP 37 PARCEL 163
DATE: November 16, 1979 SCALE: As Noted

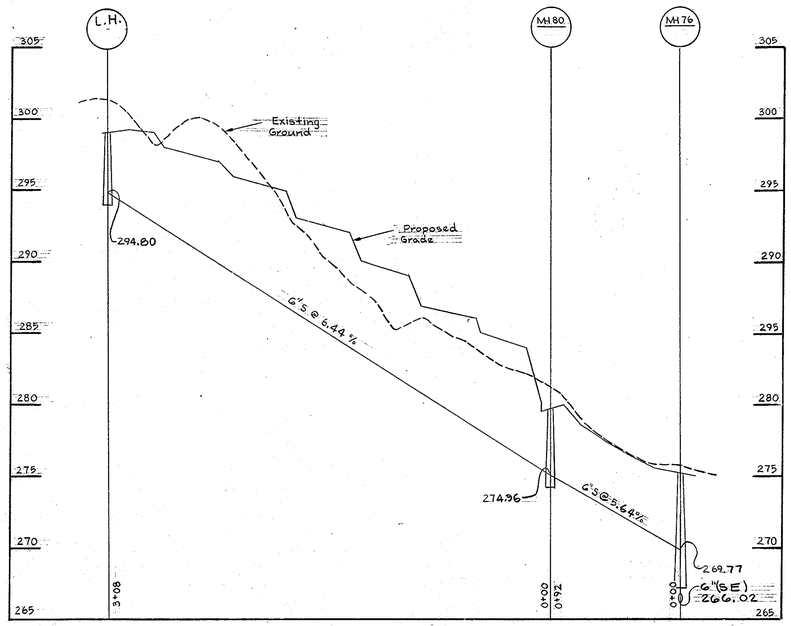
SHEET 21 OF 35

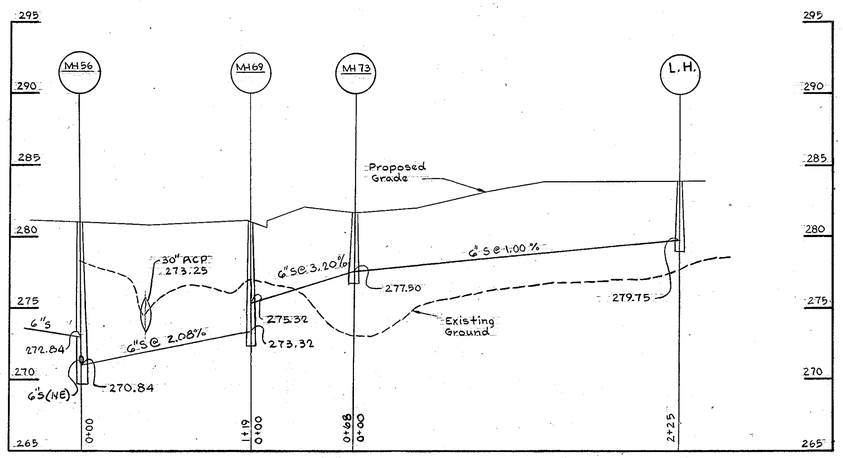
7-1-80

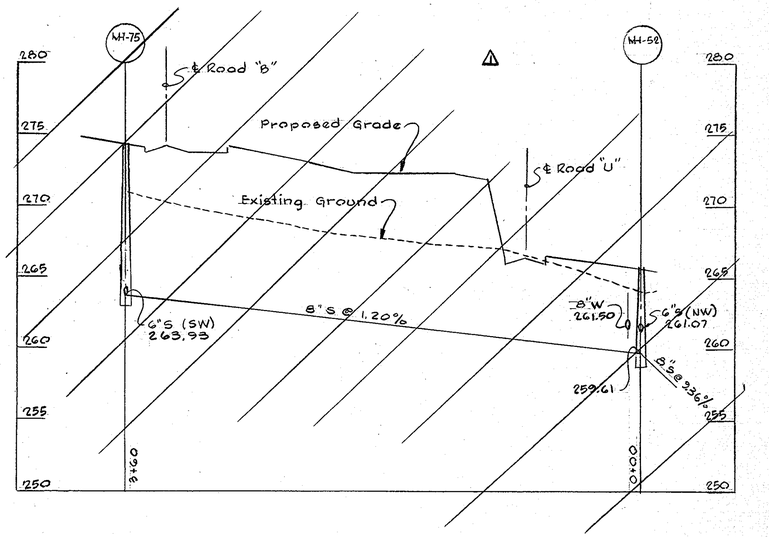
SDP-80-95











WHITMAN, REQUARDT AND ASSOCIATES
ENGINEERS
1111 N. CHARLES STREET
BALTIMORE, MARYLAND

KENNETH A. McCORD, P.E. 1974

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING
PLANNING DIRECTOR — DATE 8-11-80
CHIEF, DIVISION OF LAND DEVELOPMENT — DATE 8-11-80
APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE AND STORM DRAINAGE SYSTEMS AND ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DIRECTOR — DATE 8-11-80
CHIEF, BUREAU OF ENGINEERING — DATE 8-11-80

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
APPROVED: William T Kame HOWARD S.C.D. DATE: 8-13-80
SIGNATURE: U.S. SOIL CONSERVATION SERVICE — DATE 8-13-80
APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS HOWARD COUNTY HEALTH DEPARTMENT.
COUNTY HEALTH OFFICER — DATE 8-14-80

REVISIONS	Date
⚠ Delete 8" S Profile	5/1/81
⚠ Extend 8" S Profile	5/1/81

SEWER PROFILES
Scale: Hor. 1" = 50' Vert. 1" = 5'

APPROVED
DIVISION OF LAND DEVELOPMENT
HOWARD COUNTY, MARYLAND
DATE 7-8-80

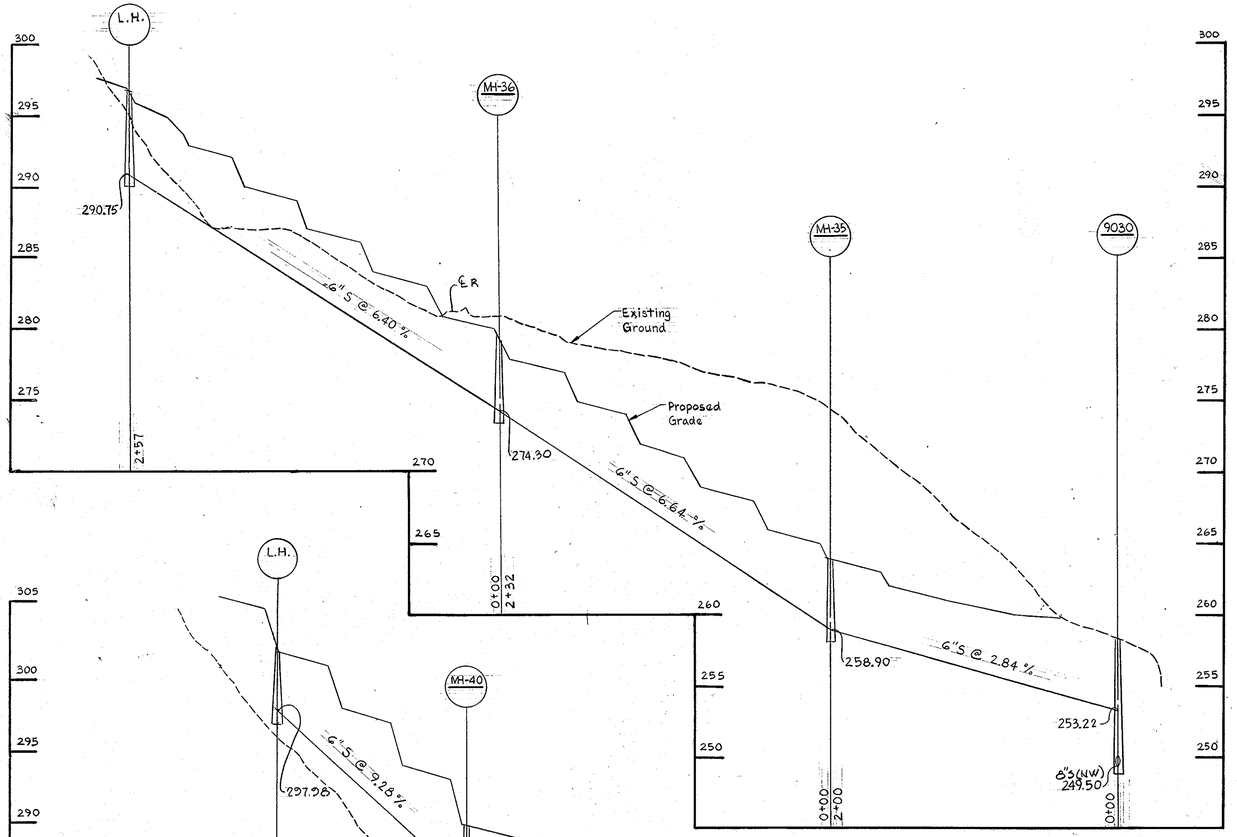
OWNER AND DEVELOPER
DEEP RUN ASSOCIATES
3701 OLD COURT ROAD UNIT #11
BALTIMORE, MARYLAND 21208

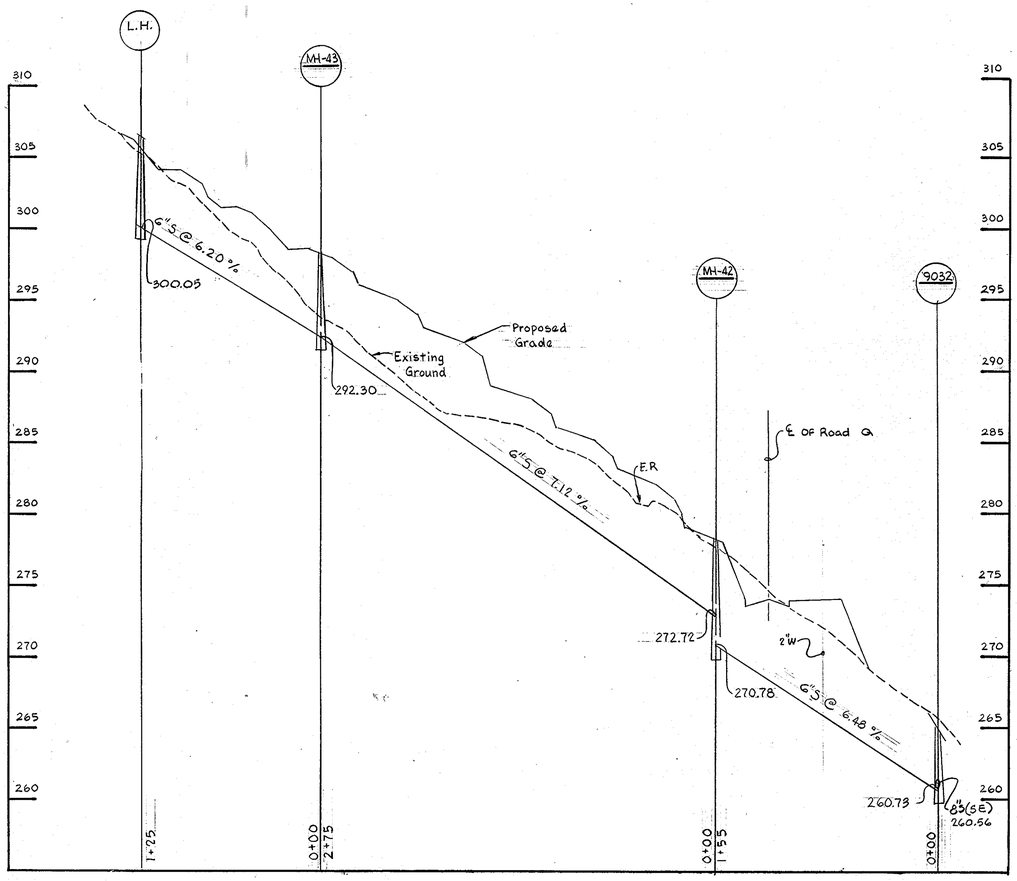
SITE DEVELOPMENT PLAN
DEEP RUN PARK - SECTION I
SEWER PROFILES
FIRST ELECTION DISTRICT OF HOWARD COUNTY MARYLAND
TAX MAP 37 — PARCEL 163
DATE: November 16, 1979 — SCALE: As Noted

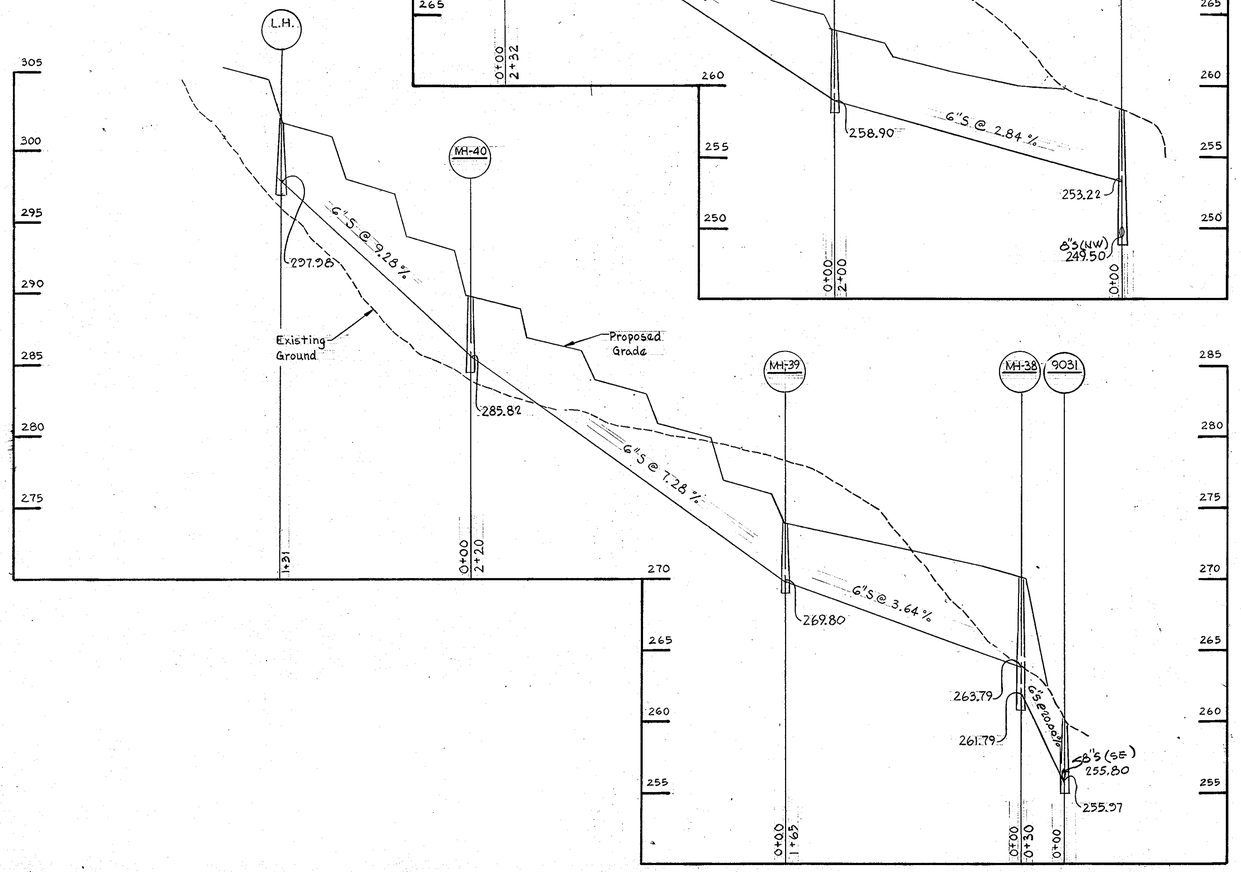
SHEET 22 OF 33

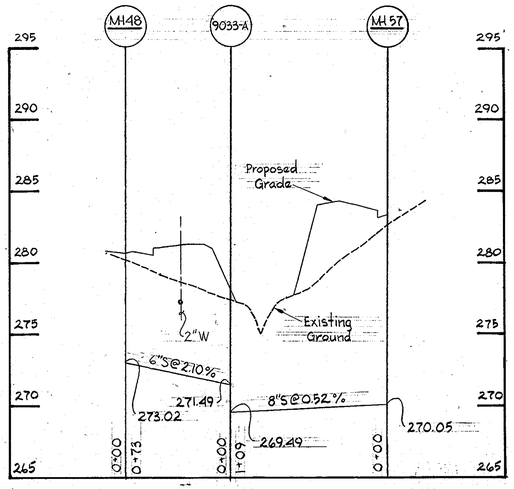
7-1-80

SDP-80-95









WHITMAN, REQUARDT AND ASSOCIATES

ENGINEERS
1111 N. CHARLES STREET
BALTIMORE, MARYLAND

KENNETH A. McCORD. P.E. 1974

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING

PLANNING DIRECTOR — DATE 8-18-80

CHIEF, DIVISION OF LAND DEVELOPMENT — DATE 8-18-80

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE AND STORM DRAINAGE SYSTEMS AND ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

DIRECTOR — DATE 8-11-80

CHIEF, BUREAU OF ENGINEERING — DATE 8-11-80

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

APPROVED: HOWARD S.C.D. — DATE: 8-13-80

SIGNATURE: U.S. SOIL CONSERVATION SERVICE — DATE 8-13-80

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS HOWARD COUNTY HEALTH DEPARTMENT.

COUNTY HEALTH OFFICER — DATE 8-14-80

APPROVED
DIVISION OF LAND DEVELOPMENT
HOWARD COUNTY, MARYLAND
DATE 7-8-80

OWNER AND DEVELOPER
DEEP RUN ASSOCIATES
3701 OLD COURT ROAD UNIT #11
BALTIMORE, MARYLAND 21208

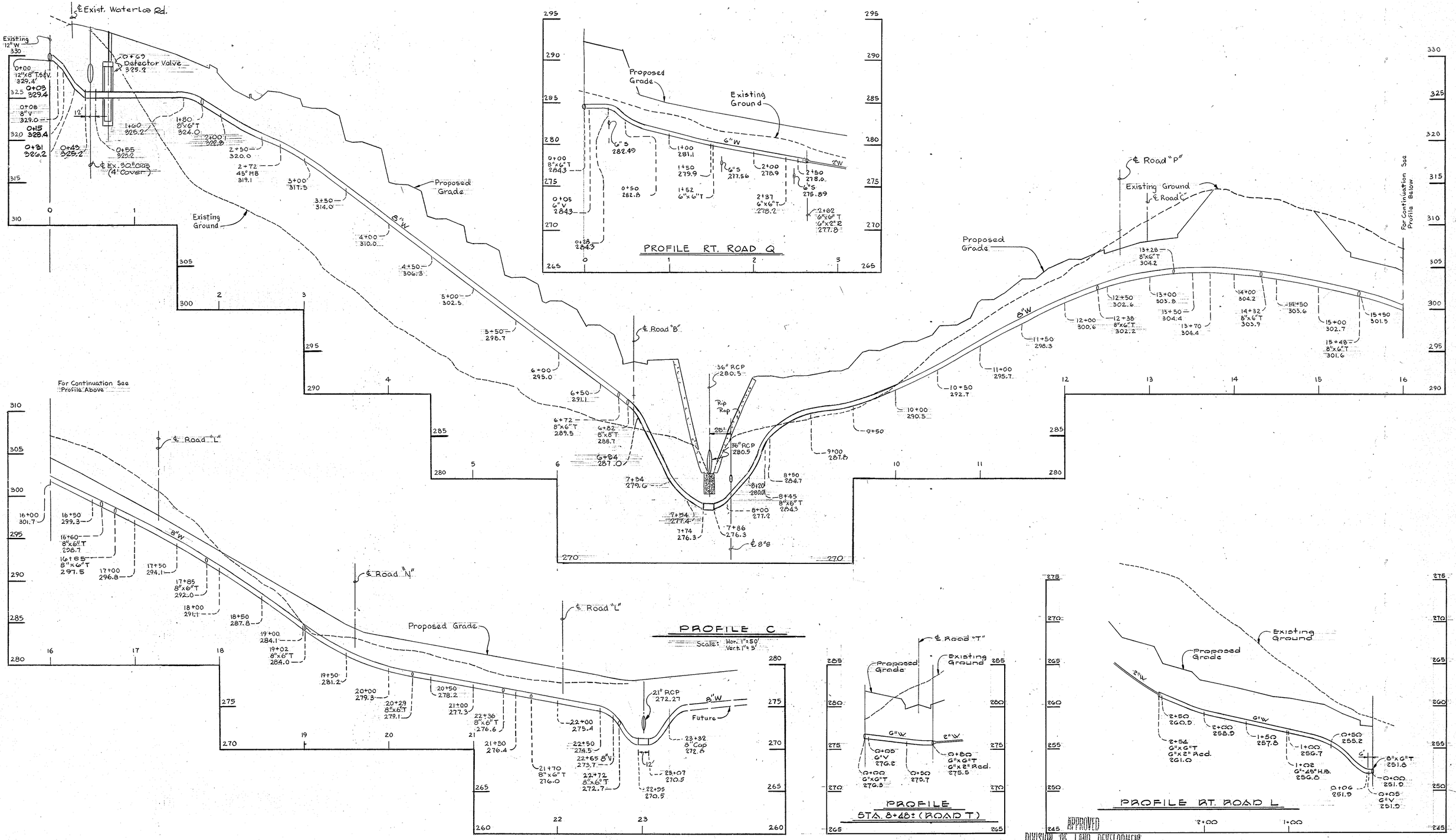
SITE DEVELOPMENT PLAN
DEEP RUN PARK - SECTION I
SEWER PROFILES

FIRST ELECTION DISTRICT OF HOWARD COUNTY MARYLAND
TAX MAP 37 PARCEL 163
DATE: November 16, 1979 SCALE: As Noted

SHEET 23 OF 33

7-1-80

SDP-80-95



PROFILES
Scales: Hor. 1"=50'
Vert. 1"=5'

WHITMAN, REQUARDT AND ASSOCIATES
ENGINEERS
1111 N. CHARLES STREET
BALTIMORE, MARYLAND

KENNETH A. McCORD, P.E. 1974

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING
PLANNING DIRECTOR — DATE 8-18-80
CHIEF, DIVISION OF LAND DEVELOPMENT — DATE 8-18-80

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE AND STORM DRAINAGE SYSTEMS AND ROADS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DIRECTOR — DATE 8-11-80
CHIEF, BUREAU OF ENGINEERING — DATE 8-11-80

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
APPROVED: HOWARD S.C.D. — DATE: 8/13/80
SIGNATURE: U.S. SOIL CONSERVATION SERVICE — DATE 8-13-80

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS
HOWARD COUNTY HEALTH DEPARTMENT
COUNTY HEALTH OFFICER — DATE 8-14-80

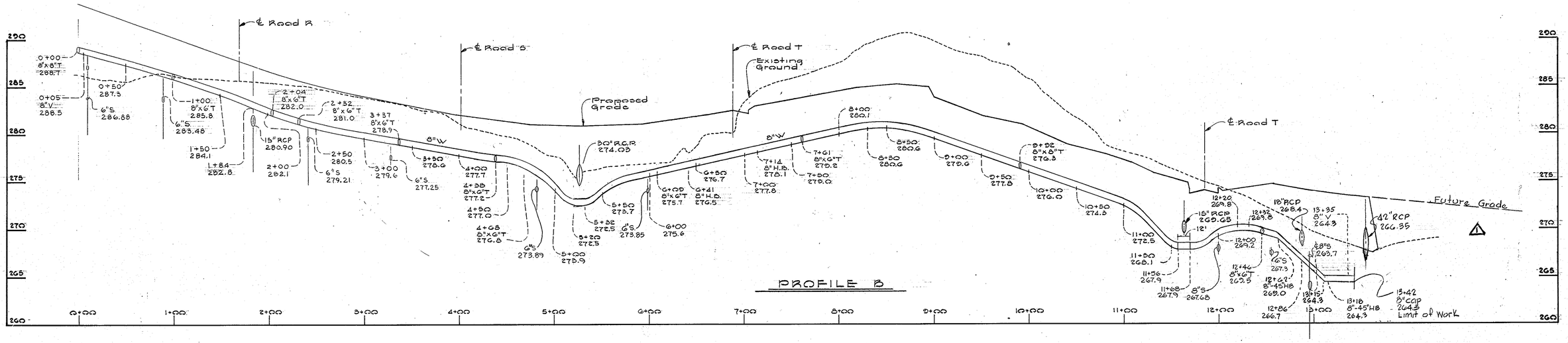
APPROVED
DIVISION OF LAND DEVELOPMENT
HOWARD COUNTY, MARYLAND
DATE 7-8-80

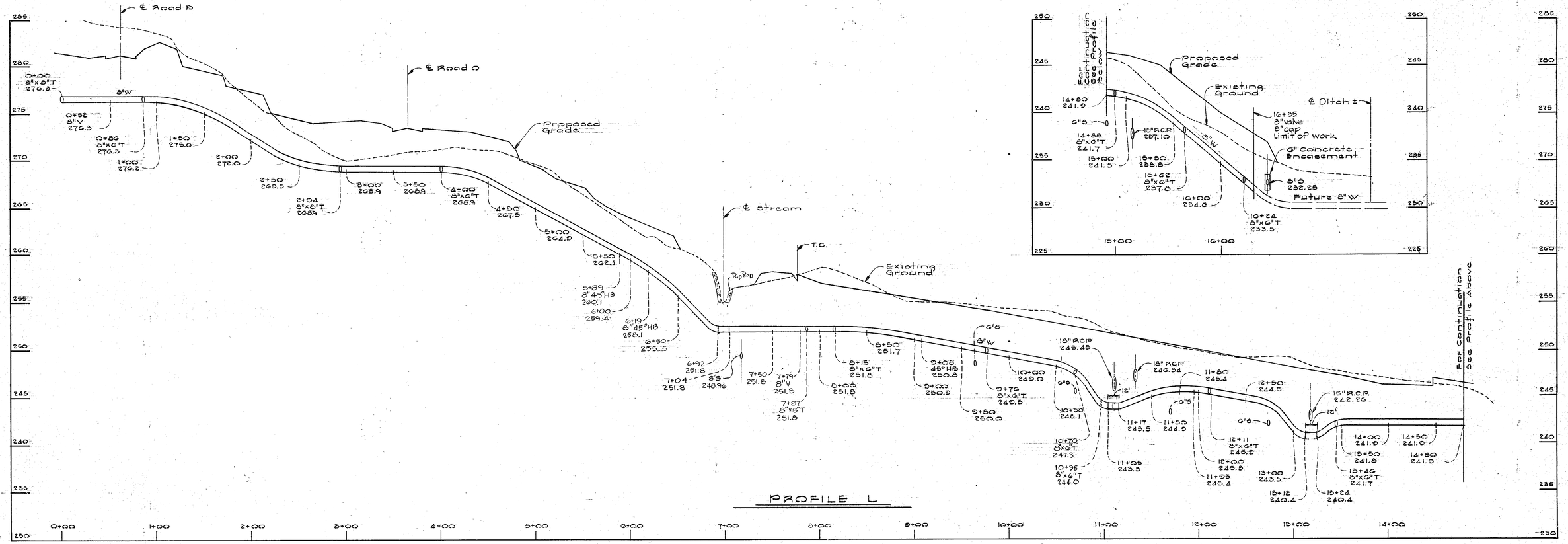
OWNER AND DEVELOPER
DEEP RUN ASSOCIATES
3701 OLD COURT ROAD UNIT #11
BALTIMORE, MARYLAND 21208

SITE DEVELOPMENT PLAN
DEEP RUN PARK - SECTION I
WATER PROFILES
FIRST ELECTION DISTRICT OF HOWARD COUNTY MARYLAND
TAX MAP 37 — PARCEL 163
DATE: December 6, 1979. — SCALE: AS SHOWN
SHEET 24 OF 37

7-1-80

SDP-80-95





WATER PROFILES

Scale: Hor. 1"=50, Vert. 1"=5'

APPROVED
DIVISION OF LAND DEVELOPMENT
HOWARD COUNTY, MARYLAND
DATE 7-8-80

⚠	Delete 8"W and revised limit to sta 13+42	5/1/81

WHITMAN, REQUARDT AND ASSOCIATES
ENGINEERS
1111 N. CHARLES STREET
BALTIMORE, MARYLAND

KENNETH A. McCORD, P.E. 1974

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING
PLANNING DIRECTOR — DATE 8-18-80
CHIEF, DIVISION OF LAND DEVELOPMENT — DATE 8-18-80
APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE AND STORM DRAINAGE SYSTEMS AND ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DIRECTOR — DATE 8-11-80
CHIEF, BUREAU OF ENGINEERING — DATE 8-11-80

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
APPROVED: William T. Rawe HOWARD S.C.D. DATE: 8-13-80
SIGNATURE: U.S. SOIL CONSERVATION SERVICE — 8-13-80 DATE
APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS HOWARD COUNTY HEALTH DEPARTMENT
COUNTY HEALTH OFFICER — 8-14-80 DATE

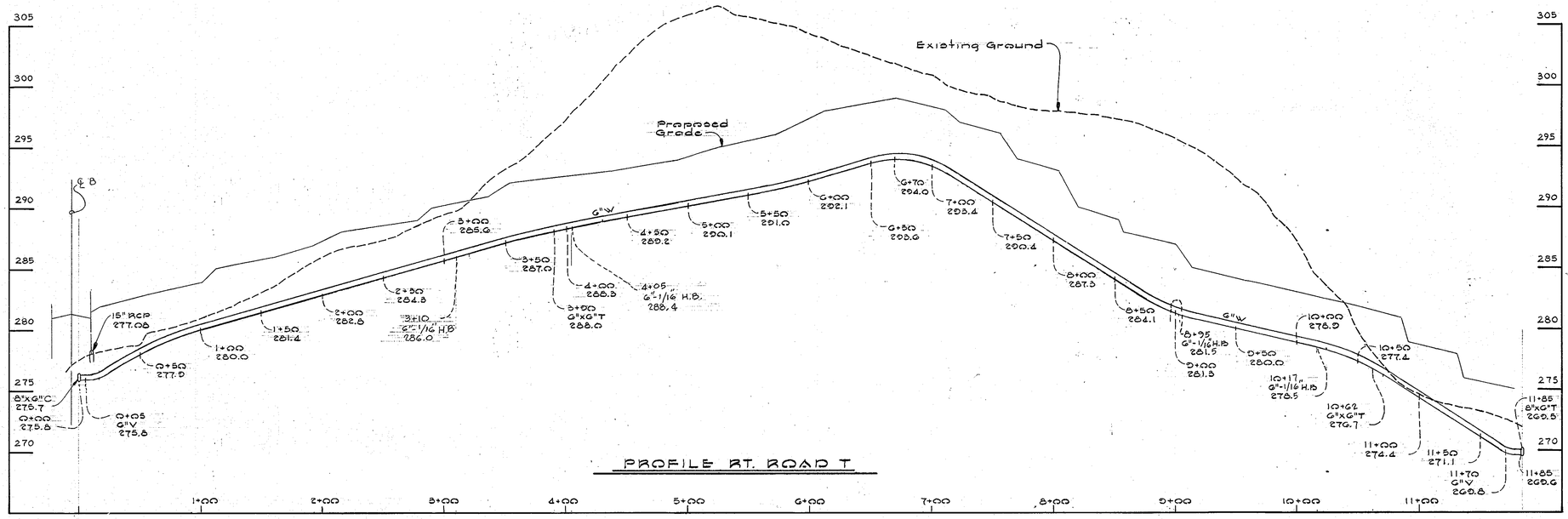
OWNER AND DEVELOPER
DEEP RUN ASSOCIATES
3701 OLD COURT ROAD UNIT #11
BALTIMORE, MARYLAND 21208

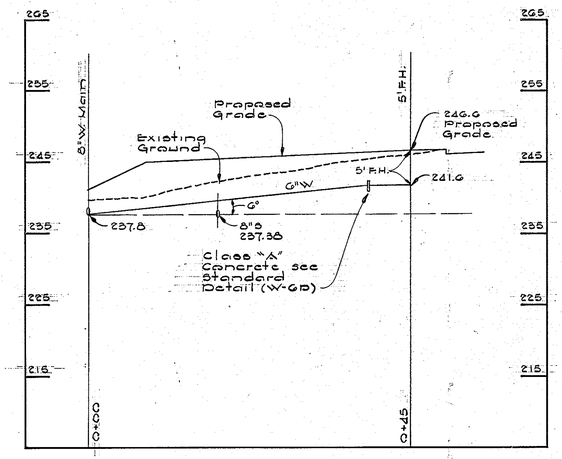
SITE DEVELOPMENT PLAN
DEEP RUN PARK - SECTION I
WATER PROFILES
FIRST ELECTION DISTRICT OF HOWARD COUNTY MARYLAND
TAX MAP 37 PARCEL 163
DATE: December 6, 1979 SCALE: As shown

SHEET 25 OF 33

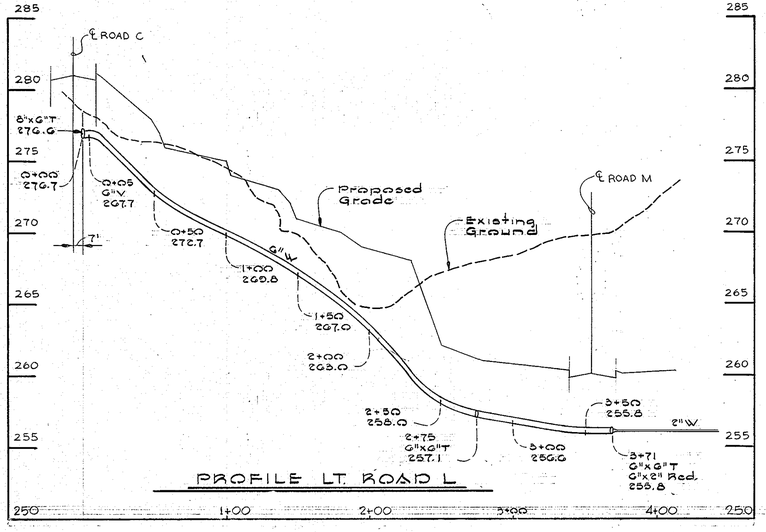
7-1-80

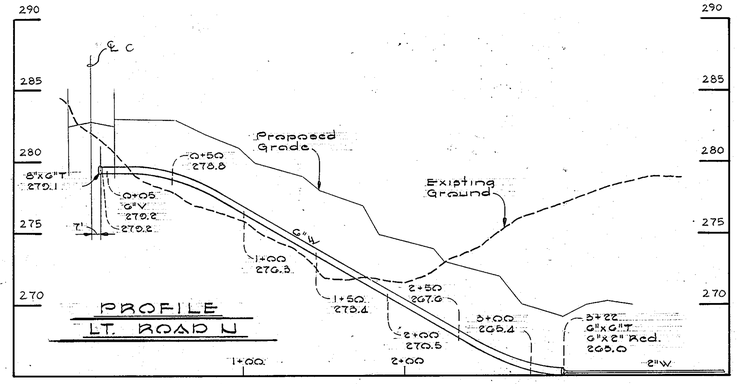
SDP-80-95

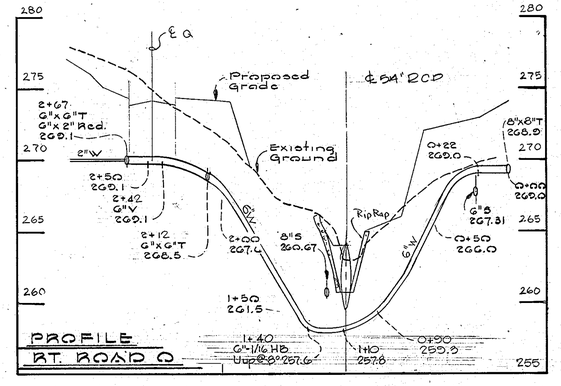




6" F.H. PROFILE (ROAD L)
RT. STA. 15+00±
Scales: Hor. 1"=10'
Vert. 1"=10'







PROFILES
Scales: Hor. 1"=50'
Vert. 1"=5'

WHITMAN, REQUARDT AND ASSOCIATES
ENGINEERS
1111 N. CHARLES STREET
BALTIMORE, MARYLAND

Kenneth A. McCord
KENNETH A. McCORD, P.E. 1974

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING
PLANNING DIRECTOR — DATE 8-18-80
CHIEF, DIVISION OF LAND DEVELOPMENT — DATE 8-18-80

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE AND STORM DRAINAGE SYSTEMS AND ROADS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DIRECTOR — DATE 8-11-80
CHIEF, BUREAU OF ENGINEERING — DATE 8-11-80

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
APPROVED: William T Rowe HOWARD S.C.D. DATE: 8-13-80
SIGNATURE: U.S. SOIL CONSERVATION SERVICE — DATE 8-13-80

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS
HOWARD COUNTY HEALTH DEPARTMENT
COUNTY HEALTH OFFICER — DATE 8-14-80

APPROVED
DIVISION OF LAND DEVELOPMENT
HOWARD COUNTY, MARYLAND
DATE 7-8-80

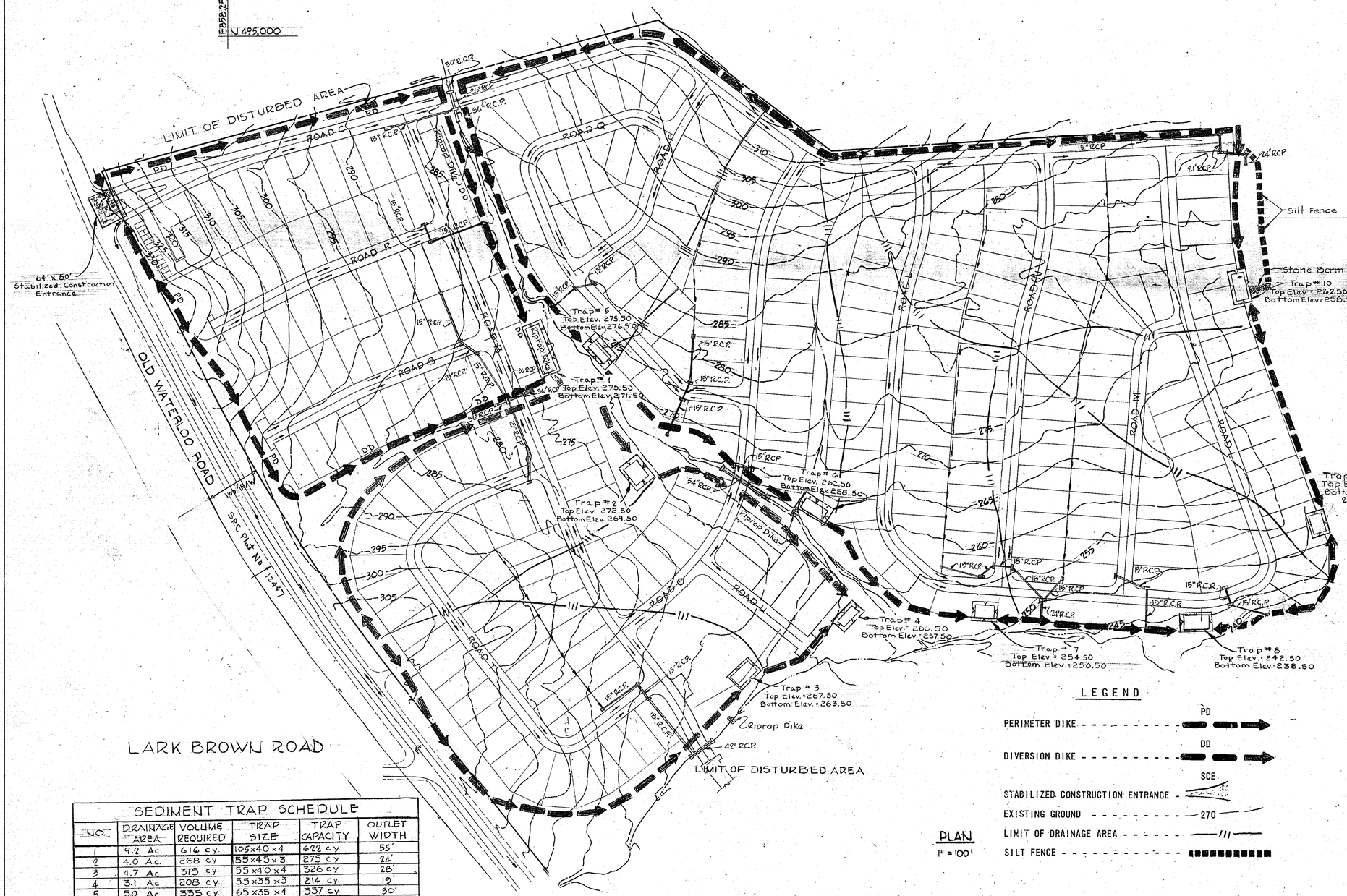
OWNER AND DEVELOPER
DEEP RUN ASSOCIATES
3701 OLD COURT ROAD UNIT #11
BALTIMORE, MARYLAND 21208

SITE DEVELOPMENT PLAN
DEEP RUN PARK - SECTION I
WATER PROFILES
FIRST ELECTION DISTRICT OF HOWARD COUNTY MARYLAND
TAX MAP 37 — PARCEL 163
DATE: December 6, 1979 — SCALE: As Shown

SHEET 26 OF 33

7-1-80

SDP-80-95



SEDIMENT TRAP SCHEDULE

NO.	DRAINAGE AREA	VOLUME REQUIRED	TRAP SIZE	TRAP CAPACITY	OUTLET WIDTH
1	9.2 Ac.	616 c.y.	105x40x4	622 c.y.	55'
2	4.0 Ac.	268 c.y.	55x45x3	275 c.y.	24'
3	4.7 Ac.	315 c.y.	55x40x4	326 c.y.	28'
4	3.1 Ac.	208 c.y.	55x35x3	214 c.y.	19'
5	5.0 Ac.	335 c.y.	65x35x4	337 c.y.	30'
6	5.0 Ac.	335 c.y.	65x35x4	337 c.y.	30'
7	4.3 Ac.	288 c.y.	50x40x4	296 c.y.	26'
8	4.6 Ac.	308 c.y.	60x35x4	311 c.y.	28'
9	2.9 Ac.	194 c.y.	50x35x3	194 c.y.	17'
10	5.0 Ac.	335 c.y.	65x35x4	337 c.y.	30'

LEGEND

PERIMETER DIKE - - - - - - - - - - PD

DIVERSION DIKE - - - - - - - - - - DD

STABILIZED CONSTRUCTION ENTRANCE - SCE

EXISTING GROUND - - - - - - - - - - 270

LIMIT OF DRAINAGE AREA - - - - - - ///

SILT FENCE - - - - - - - - - - - -

PLAN
1" = 100'

SEDIMENT CONTROL NOTES

1. ALL SEDIMENT CONTROL PROCEDURES SHALL BE CARRIED OUT IN ACCORDANCE WITH APPROVED PLANS AND CRITERIA OF THE HOWARD COUNTY SOIL CONSERVATION DISTRICT AND ALSO THE U.S. SOIL CONSERVATION SERVICE "STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL IN DEVELOPING AREAS "(HEREINAFTER REFERRED TO AS "STANDARDS AND SPECIFICATIONS").
2. ALL STREETS SHOWN ON THIS PLAN ARE PRIVATE AND SHALL NOT BE DEDICATED FOR PUBLIC USE.
3. ALL DISTURBED AREAS WHICH ARE TO BE EXPOSED FOR MORE THAN 60 DAYS DAYS SHALL BE STABILIZED WITH TEMPORARY SEEDING AND MULCHING IMMEDIATELY FOLLOWING ROUGH GRADING IN ACCORDANCE WITH PAGES 50.01 THROUGH 50.05 OF THE STANDARDS AND SPECIFICATIONS.
4. ALL STRAW BALE INLET BARRIERS SHALL BE CONSTRUCTED PRIOR TO COMMENCEMENT OF INITIAL GRADING IN ACCORDANCE WITH PAGES 13.01 THROUGH 13.03 OF THE "STANDARDS AND SPECIFICATIONS".
5. STABILIZATION OF THE PERIMETER DIKES WILL BE IN ACCORDANCE WITH PAGES 12.01 THROUGH 12.03 "STANDARDS AND SPECIFICATIONS FOR DIVERSION".
6. THE STABILIZED CONSTRUCTION ENTRANCE WILL BE IN ACCORDANCE WITH PAGE 16.03 OF "STANDARDS AND SPECIFICATIONS".
7. THESE SEDIMENT CONTROL DRAWINGS SHALL BE USED FOR THE CONSTRUCTION OF SEDIMENT CONTROL PRACTICES ONLY. FOR ALL OTHER PROPOSED CONSTRUCTION SEE THE "FINAL DEVELOPMENT PLANS".
8. STABILIZATION OF THE DIVERSION DIKES WILL BE IN ACCORDANCE WITH PAGES 10.01 THROUGH 10.03 "STANDARDS AND SPECIFICATIONS FOR DIVERSION".
9. THE SEDIMENT TRAPS SHALL BE MAINTAINED BY THE CONTRACTOR ON A WEEKLY BASIS OR AFTER RAINFALL.

SEQUENCE OF CONSTRUCTION OPERATION

1. NOTIFY 48 HOURS BEFORE ANY WORK BEGINS THE HOWARD COUNTY SOIL CONSERVATION DISTRICT AND THE HOWARD COUNTY BUREAU OF LICENCES, INSPECTIONS AND PERMITS.
2. INITIALLY CLEAR AND GRUB SEDIMENT TRAP AND DIKE AREAS.
3. CONSTRUCT SEDIMENT CONTROL MEASURES: SEDIMENT TRAPS, PERIMETER AND DIVERSION DIKES, STONE CONSTRUCTION ENTRANCE, AND CULVERTS AT THE ROAD CROSSINGS.
4. CLEAR AND GRUB REMAINING AREAS.
5. STRIP AND STOCKPILE TOPSOIL FOR THE ENTIRE SITE.
6. BEGIN ROUGH GRADING OF SITE: ALL TOE OF SLOPES FOR THE GRADING SHALL BE PLACED AT A MINIMUM OF 5 FEET FROM THE TOP OF ALL SEDIMENT TRAPS OR 5 FEET FROM THE TOE OF THE PERIMETER/DIVERSION DIKES.
7. INSTALL STORM DRAIN SYSTEM AND BLOCK ALL STORM DRAIN INLETS EXCEPT FOR TYPE "C" YARD INLETS. CONSTRUCT STORM INLET SEDIMENT TRAPS FOR ALL TYPE "C" YARD INLETS.
8. INSTALL REMAINING UNDER GROUND UTILITIES.
9. COMPLETE ROAD CONSTRUCTION.
10. STABILIZE AND SEED AS REQUIRED.
11. REMOVE EACH SEDIMENT TRAP AND RELATED SEDIMENT CONTROL MEASURES ONLY AFTER THE DRAINAGE AREA CONTRIBUTING TO IT HAS BEEN COMPLETELY STABILIZED.
12. COMPLETE REMAINING GRADING AND STABILIZATION PROCEDURES AFTER EACH TRAP HAS BEEN REMOVED.
13. THE STORM WATER MANAGEMENT BASIN SHALL BE CONSTRUCTED BY OTHERS (THE VILLAGE OF DEEP RUN, SECTION I, CONTRACTOR).

SEQUENCE OF CONSTRUCTION OPERATION

CONSTRUCTION SEDIMENT CONTROL MEASURES:
SEDIMENT TRAPS, STORM DRAINS AT ROAD CROSSINGS, PERIMETER AND DIVERSION DIKES, SILT FENCE, STABILIZE CONSTRUCTION ENTRANCE, INSTALL STONE BERM (SEE DETAIL).

Notes:
For seeding notes, see sheet 30 of 41

APPROVED
DIVISION OF LAND DEVELOPMENT
HOWARD COUNTY, MARYLAND
DATE 7-8-80

E 861,500
N 493,250

OWNER AND DEVELOPER
DEEP RUN ASSOCIATES
3701 OLD COURT ROAD, UNIT 11
BALTIMORE, MARYLAND - 21208

WHITMAN, REQUARDT AND ASSOCIATES
ENGINEERS
1111 NORTH CHARLES STREET
BALTIMORE, MARYLAND 21201

KENNETH A. McCORD, P.E. 1974

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING
PLANNING DIRECTOR — DATE 8-18-80
CHIEF, DIVISION OF LAND DEVELOPMENT — DATE 8-18-80
APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE AND STORM DRAINAGE SYSTEMS AND ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DIRECTOR — DATE 8-11-80
CHIEF BUREAU OF ENGINEERING — DATE 8-11-80

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
APPROVED: William T Rame HOWARD S.C.D. DATE: 8-13-80
SIGNATURE: U.S. CONSERVATION SERVICE — DATE 8-13-80
APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT
COUNTY HEALTH OFFICER — DATE 8-14-80

CERTIFICATION BY THE DEVELOPER

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".

SIGNATURE OF DEVELOPER — DATE 5/8/80

CERTIFICATION BY THE ENGINEER

"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".

KENNETH A. McCORD, P.E. 1974 — DATE 11/16/79

DEEP RUN PARK
SECTION 1
SEDIMENT CONTROL PLAN
FIRST ELECTION DISTRICT OF HOWARD COUNTY, MARYLAND
DATE: November 16, 1979 SCALE: AS SHOWN

J.O.7153
FILE
SHEET 27 OF 33

6-11-8

SDP-80-95

CURVE DATA									TABLE								
No.	Chord	Arc	Radius	P.C.	Bearing	Delta	Tan.	P.T.	No.	Chord	Arc	Radius	P.C.	Bearing	Delta	Tan.	P.T.
1	112.22'	112.28'	1000.00'	1+10.47	N68° 24' 46"E	6° 26' 00"	56.20'	2+22.75	8	186.95'	187.66'	624.00'	0+81.57	S 23° 24' 23"W	17° 13' 51"	94.54'	2+69.23
2	53.76'	53.77'	1000.00'	5+10.43	N 73° 10' 11"E	3° 04' 50"	26.89'	5+64.19	9	69.12'	70.55'	100.78'	2+69.23	S 34° 50' 45"W	40° 06' 36"	36.79'	3+39.78
3	36.09'	36.10'	1000.00'	7+31.48	N 75° 40' 33"E	2° 04' 05"	18.05'	7+67.58	10	39.08'	40.15'	50.00'	0+59.73	S 84° 37' 07"E	46° 00' 14"	21.23'	0+99.88
4	233.79'	249.49'	200.00'	10+23.02	S 71° 35' 32"E	71° 31' 55"	114.06'	12+72.71	11	72.84'	81.59'	50.00'	2+61.12	N 25° 37' 46"E	93° 30' 00"	53.15'	3+42.71
5	193.55'	202.03'	200.00'	13+52.68	S 64° 45' 54"E	57° 52' 40"	110.58'	15+54.71	12	133.57'	134.39'	350.00'	4+58.02	S 32° 07' 13"E	22° 00' 00"	68.03'	5+92.41
6	83.82'	83.87'	719.00'	2+59.78	S 65° 07' 06"W	6° 41' 00"	41.98'	3+43.65	13	36.65'	37.53'	50.00'	8+40.69	N 64° 37' 14"W	43° 00' 00"	19.70'	8+78.21
7	96.54'	96.57'	485.00'	2+59.78	S 65° 07' 06"W	6° 41' 00"	28.32'	3+16.36	14	194.71'	196.79'	390.00'	0+31.50	S 18° 20' 07"W	28° 54' 41"	100.54'	2+28.30

WHITMAN, REQUARDT AND ASSOCIATES

ENGINEERS

1111 N. CHARLES STREET

BALTIMORE, MARYLAND

Kenneth A. McCord

KENNETH A. McCORD, P.E. 1974

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING

PLANNING DIRECTOR — DATE 8-18-80

CHIEF, DIVISION OF LAND DEVELOPMENT — DATE 8-18-80

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE AND STORM DRAINAGE SYSTEMS AND ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

DIRECTOR — DATE 8-11-80

CHIEF, BUREAU OF ENGINEERING — DATE 8-11-80

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

APPROVED: William T Rawe HOWARD S.C.D. DATE 8-13-80

SIGNATURE James McHelm U.S.SOIL CONSERVATION SERVICE — DATE 8-13-80

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS HOWARD COUNTY HEALTH DEPARTMENT

COUNTY HEALTH OFFICER — DATE 8-14-80

APPROVED
DIVISION OF LAND DEVELOPMENT
HOWARD COUNTY, MARYLAND
DATE 7-8-80

OWNER AND DEVELOPER
DEEP RUN ASSOCIATES
3701 OLD COURT ROAD UNIT #11
BALTIMORE, MARYLAND 21208

SITE DEVELOPMENT PLAN

DEEP RUN PARK - SECTION I

SEDIMENT CONTROL

FIRST ELECTION DISTRICT OF HOWARD COUNTY, MARYLAND

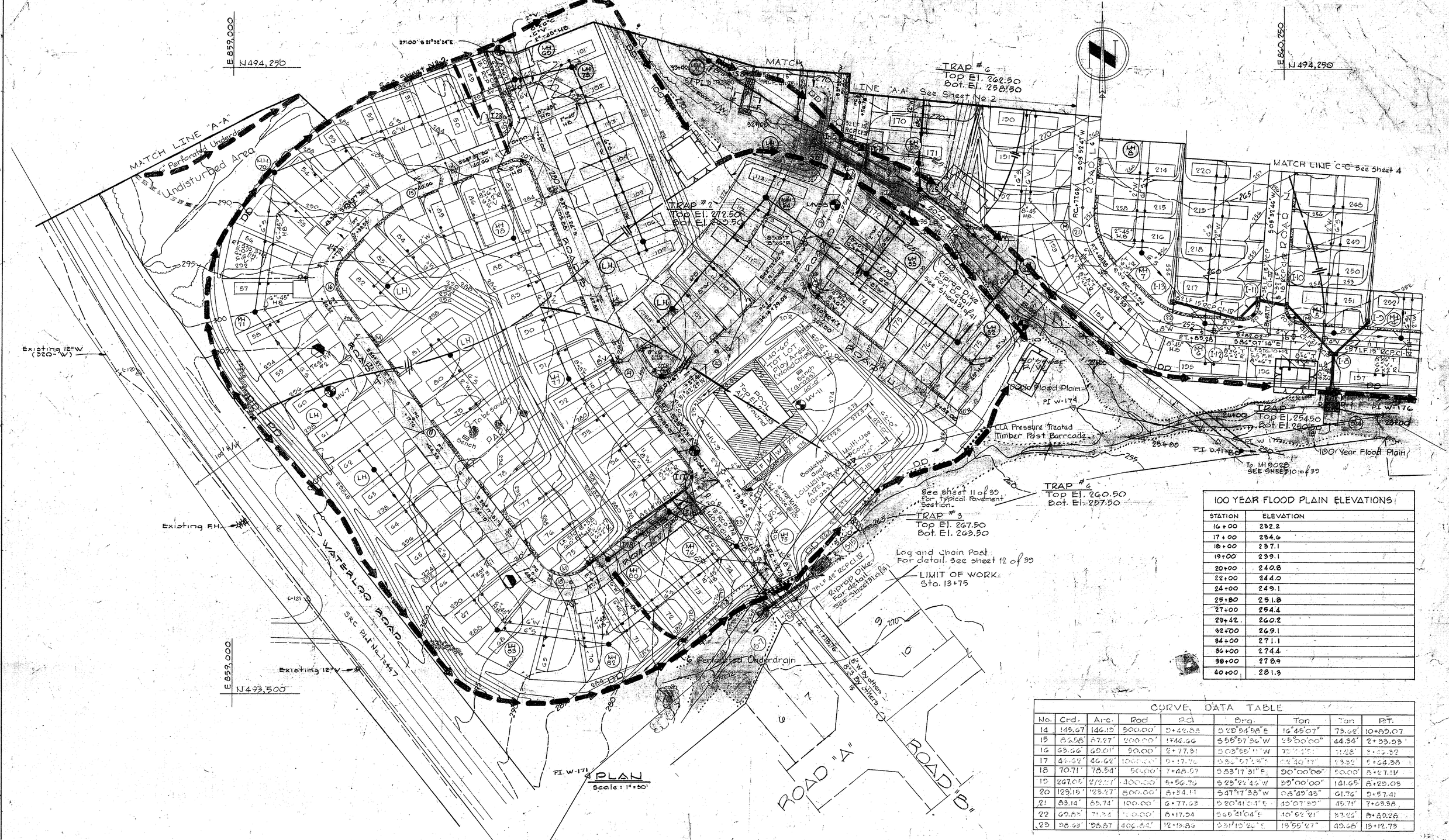
TAX MAP 37 — PARCEL 163

DATE: February 27, 1980 — SCALE: As Noted

SHEET 28 OF 33

8-11-80

SDP 80-95



100 YEAR FLOOD PLAIN ELEVATIONS	
STATION	ELEVATION
16+00	232.2
17+00	234.6
18+00	237.1
19+00	239.1
20+00	240.8
22+00	244.0
24+00	249.1
25+80	251.8
27+00	254.4
29+42	260.2
32+00	269.1
34+00	271.1
36+00	274.4
38+00	278.9
40+00	281.3

CURVE DATA TABLE

No.	Crd.	Arc.	Rad	P.C.	Brg.	Tan	Tan	P.T.
14	145.67'	146.19'	500.00'	9+42.88	S 29°54'58"E	16°45'07"	73.62'	10+89.07
15	86.58'	87.27'	200.00'	1+46.66	S 55°57'36"W	25°00'00"	44.34'	2+33.93
16	63.66'	69.01'	50.00'	2+77.31	S 03°55'11"W	79°04'51"	41.28'	3+46.32
17	46.62'	46.62'	1000.00'	5+17.76	S 36°57'23"E	02°40'17"	23.32'	5+64.38
18	70.71'	78.54'	50.00'	7+48.57	S 83°17'31"E	90°00'00"	50.00'	8+27.11
19	267.05'	272.27'	400.00'	5+56.76	S 23°22'46"W	39°00'00"	141.65'	8+29.03
20	123.15'	123.27'	800.00'	8+34.11	S 47°17'38"W	08°49'43"	61.76'	9+57.41
21	83.14'	85.74'	100.00'	6+77.63	S 20°41'04"E	49°07'39"	45.71'	7+63.38
22	69.83'	71.34'	100.00'	8+17.94	S 65°41'04"E	40°52'21"	37.26'	8+89.28
23	98.63'	98.87'	406.84'	12+13.86	S 31°19'24"E	13°55'27"	49.68'	13+12.73

WHITMAN REQUARDT AND ASSOCIATES
ENGINEERS
1111 N. CHARLES STREET
BALTIMORE, MARYLAND

Kenneth A. McCord
KENNETH A. McCORD, P.E. 1974

APPROVED:
PLANNING DIRECTOR — DATE 8-18-80
CHIEF, DIVISION OF LAND DEVELOPMENT — DATE 8-18-80

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE AND STORM DRAINAGE SYSTEMS AND ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DIRECTOR — DATE 8-11-80
CHIEF BUREAU OF ENGINEERING — DATE 8-11-80

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
APPROVED: William T Rame HOWARD S.C.D. DATE: 8-13-80
SIGNATURE: U.S. SOIL CONSERVATION SERVICE — DATE 8-13-80

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS HOWARD COUNTY HEALTH DEPARTMENT
COUNTY HEALTH OFFICER — DATE 8-18-80

APPROVED
DIVISION OF LAND DEVELOPMENT
HOWARD COUNTY, MARYLAND
DATE 7-8-80

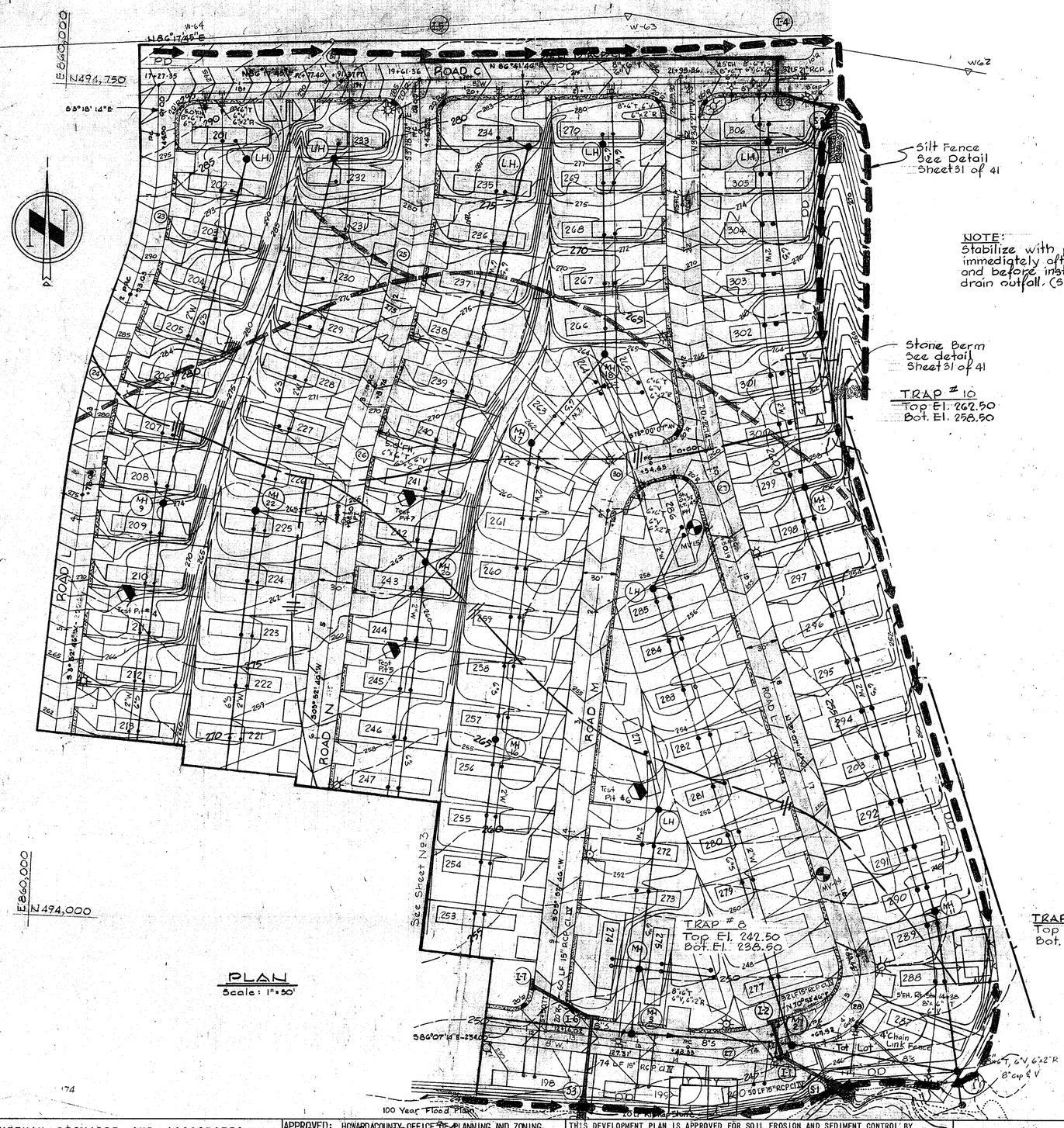
OWNER AND DEVELOPER
DEEP RUN ASSOCIATES
3701 OLD COURT ROAD UNIT #11
BALTIMORE, MARYLAND 21208

SITE DEVELOPMENT PLAN
DEEP RUN PARK - SECTION I
SEDIMENT CONTROL PLAN
FIRST ELECTION DISTRICT OF HOWARD COUNTY MARYLAND
TAX MAP 37 — PARCEL 163
DATE: February 27, 1980 — SCALE: AS NOTED

SHEET 29 OF 33

6-11-80

SDP-80-95



SEEDING NOTES (HYDROSEED METHOD ONLY)

1. ALL DISTURBED SLOPE AREAS TO BE STABILIZED AS SOON AS GRADING IS COMPLETED.
2. ALL SEDIMENT CONTROL MEASURES MUST BE CONSTRUCTED AND STABILIZED ACCORDING TO NOTE 1 PRIOR TO ANY OTHER GRADING ON THE SITE.
3. NO TEMPORARY SEDIMENT CONTROL STRUCTURE MAY BE REMOVED OR DESTROYED WITHOUT APPROVAL OF THE HOWARD SOIL CONSERVATION DISTRICT.
4. ALL AREAS OTHER THAN LAWNS TO BE SEEDED (DIKES, TRAPS, DRAINAGE SWALES AND DISTURBED AREAS) AT THE RATE OF 80lbs./ACRE OF THE FOLLOWING: KENTUCKY 31 TALL FESCUE 60lbs./ACRE AND KOREAN LESPEDEZA (SCARIFY AND INOCULATE) 20lbs./ACRE. IMMEDIATELY AFTER CONSTRUCTION. SOW WITH MECHANICAL SPREADER, RAKE MINIMUM TWO (2) PASSES WITH "YORK RAKE" COVER AND COMPACT WITH CULTIPACKER.
5. SURFACE PREPARATION TO INCLUDE GROUND LIMESTONE OVER TOPSOIL SURFACE AREA AND COMMERCIAL FERTILIZER IN ACCORDANCE WITH SOIL TEST ANALYSIS. ANCHOR WITH ASPHALT AT THE RATE OF 480 GALLONS/ACRE: DRAINAGE SWALES AND DITCHES SHALL BE MULCHED AND COVERED WITH A PERFORATED EROSION CONTROL BLANKET FOR THE FULL WIDTH OF THE SWALE OR DITCH. BLANKET SHALL BE JUTE MAT OVER STRAW OR EXCELSIOR MATTING. STABILIZATION OF SLOPES STEEPER THAN 3:1 SHALL BE PLANTED WITH KENTUCKY 31 TALL FESCUE 45lb/ACRE AND CROWNVETCH (SCARIFY AND INOCULATE) 15lbs./ACRE. INOCULANT FOR CROWVETCH SHALL BE AT THE RATE OF 6.7 oz. POWDER OR LIQUID CULTURE PER 20lbs. CROWNVETCH.
6. ALL OTHER SURFACES SHALL BE UNIFORMALLY SOWN AT THE RATE OF 250 lbs./ACRE.
7. APPLICATION METHODS: (HYDROSEED)

   a. SEED, FERTILIZER, LIMESTONE AND MULCH MATERIAL SHALL BE PLACED BY THE FOLLOWING METHODS:

   (1) THE SEED AND FERTILIZER, OR THE SEED, FERTILIZER AND SUITABLE MULCH SHALL BE MIXED IN THE NEEDED AMOUNT OF WATER TO PRODUCE A SLURRY; APPLIED UNDER PRESSURE AT THE RATE SPECIFIED OR AS DIRECTED WITH HYDRAULIC EQUIPMENT APPROVED PRIOR TO USE.

   b. WOOD CELLULOSE MULCH MAY BE APPLIED DURING OR AFTER SEEDING OPERATION. THE WOOD CELLULOSE MULCH IS TO BE INCORPORATED AS AN INTEGRAL PART OF THE SLURRY MIX, IT SHALL BE ADDED AFTER THE SEED AND FERTILIZER HAVE BEEN THOROUGHLY MIXED. LIME, WHEN APPLIED HYDRAULICALLY SHALL BE A SINGLE, SEPARATE OPERATION. WOOD CELLULOSE MULCH SHALL BE APPLIED AT THE RATE OF 1,200 POUNDS PER ACRE.

   c. ANY AREA INADEQUATELY COVERED SHALL BE RE-TREATED.

TEMPORARY SEEDING

1. THE TOPSOIL STOCKPILES SHALL BE HYDROSEEDED AS FOLLOWS:
   A. GROUND LIMESTONE (50lbs./1000 SF)
   B. FERTILIZER 10-10-10 (25 lbs./1000 SF)
   C. SEED-ITALIAN RYE GRASS 40lbs./ACRE.
2. MULCH WITH STRAW AT THE RATE OF 50lbs./1000 SF. OR ONE TON PER ACRE. ANCHOR WITH ASPHALT AT THE RATE OF 480 GALLONS/ACRE.

WHITMAN, REQUARDT AND ASSOCIATES
ENGINEERS
1111 N. CHARLES STREET
BALTIMORE, MARYLAND
KENNETH A. McCORD, P.E. 1974

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING
PLANNING DIRECTOR — DATE 8-18-80
CHIEF, DIVISION OF LAND DEVELOPMENT — DATE 8-18-80

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE AND STORM DRAINAGE SYSTEMS AND ROADS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DIRECTOR — DATE 8-11-80
CHIEF, BUREAU OF ENGINEERING — DATE 8-11-80

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

APPROVED: HOWARD S.C.D. — DATE 8-11-80
SIGNATURE: U.S. SOIL CONSERVATION SERVICE — DATE 8-13-80

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS
HOWARD COUNTY HEALTH DEPARTMENT
COUNTY HEALTH OFFICER — DATE 8-14-80

APPROVED
DIVISION OF LAND DEVELOPMENT
HOWARD COUNTY, MARYLAND
DATE 7-8-80

OWNER AND DEVELOPER
DEEP RUN ASSOCIATES
3701 OLD COURT ROAD UNIT #11
BALTIMORE, MARYLAND 21208

SITE DEVELOPMENT PLAN
DEEP RUN PARK - SECTION I
SEDIMENT CONTROL PLAN
FIRST ELECTION DISTRICT OF HOWARD COUNTY MARYLAND
TAX MAP 37 — PARCEL 163
DATE: February 27, 1980 — SCALE: As noted

SHEET 30 OF 33

6-11-80

SDP-80-95

SDP 80-95

CONSTRUCTION SPECIFICATIONS: PERIMETER DIKE

1. ALL DIKES SHALL BE MACHINE COMPACTED.
2. ALL PERIMETER DIKES SHALL HAVE POSITIVE DRAINAGE TO AN OUTLET.
3. A. DIVERTED RUNOFF FROM A PROTECTED OR STABILIZED UPLAND AREA SHALL OUTLET DIRECTLY ONTO AN UNDISTURBED STABILIZED AREA OR INTO A LEVEL SPREADER OR GRADE STABILIZATION STRUCTURE.
   B. DIVERTED RUNOFF FROM A DISTURBED OR EXPOSED UPLAND AREA SHALL BE CONVEYED TO A SEDIMENT TRAPPING DEVICE SUCH AS SEDIMENT TRAP OR A SEDIMENT BASIN OR TO AN AREA PROTECTED BY ANY OF THESE PRACTICES.
4. STABILIZATION, WHEN REQUIRED SHALL BE DONE IN ACCORDANCE WITH STANDARD AND SPECIFICATIONS FOR GRASSED WATER WAY. THE MINIMUM AREA TO BE STABILIZED SHALL BE THE CHANNEL FLOW AREA.
5. PERIODIC INSPECTION AND REQUIRED MAINTENANCE SHALL BE PROVIDED.

CONSTRUCTION SPECIFICATIONS: DIVERSION DIKE

1. ALL DIKES SHALL BE MACHINE COMPACTED.
2. ALL DIVERSION DIKES SHALL HAVE POSITIVE DRAINAGE TO AN OUTLET.
3. A. DIVERTED RUNOFF FROM A PROTECTED OR STABILIZED AREA SHALL OUTLET DIRECTLY TO AN UNDISTURBED STABILIZED AREA OR INTO A LEVEL SPREADER OR GRADE STABILIZATION STRUCTURE.
   B. DIVERTED RUNOFF FROM A DISTURBED OR EXPOSED UPLAND AREA SHALL BE CONVEYED TO A SEDIMENT TRAPPING DEVICE SUCH AS A SEDIMENT TRAP OR A SEDIMENT BASIN OR TO AN AREA PROTECTED BY ANY OF THESE PRACTICES.
4. STABILIZATION, AS SPECIFIED BY THE PLANS, SHALL BE: (1) IN ACCORDANCE WITH STANDARD AND SPECIFICATIONS FOR GRASSED WATERWAY, AND THE AREA TO BE STABILIZED SHALL BE THE CHANNEL (FLOW AREA); OR (2) THE FLOW AREA SHALL BE LINED WITH STONE THAT MEETS MSHA SIZE NO.2 OR AASHTO M43 SIZE NO.2 OR 24 WHICH IS PLACED IN A 3 INCH THICK LAYER AND PRESSED INTO THE SOIL. THE AREA COVERED BY THE STONE SHALL BE AS SHOWN ON THE DRAWING ABOVE.

CONSTRUCTION SPECIFICATIONS: SEDIMENT TRAP

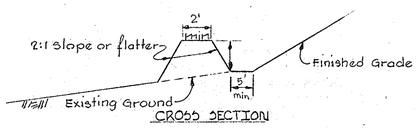
1. AREA UNDER EMBANKMENT SHALL BE CLEARED, GRUBBED AND STRIPPED OF ANY VEGETATION AND ROOT MAT. THE POOL AREA SHALL BE CLEARED.
2. THE FILL MATERIAL FOR THE EMBANKMENT SHALL BE FREE OF ROOTS OR OTHER WOODY VEGETATION AS WELL AS OVER SIZED STONES, ROCKS, ORGANIC MATERIAL OR OTHER OBJECTIONABLE MATERIAL.
   THE EMBANKMENT SHALL BE COMPACTED BY TRAVERSING WITH EQUIPMENT WHILE IT IS BEING CONSTRUCTED.
3. SEDIMENT SHALL BE REMOVED AND TRAP RESTORED TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED TO 1/2 THE DESIGN DEPTH OF THE TRAP. REMOVED SEDIMENT SHALL BE DEPOSITED IN A SUITABLE AREA AND IN SUCH A MANNER THAT IT WILL NOT ERODE.
4. THE STRUCTURE SHALL BE INSPECTED AFTER EACH RAIN AND REPAIRS MADE AS NEEDED.
5. CONSTRUCTION OPERATIONS SHALL BE CARRIED OUT IN SUCH A MANNER THAT EROSION AND WATER POLLUTION IS MINIMIZED.
6. THE STRUCTURE SHALL BE REMOVED AND THE AREA STABILIZED WHEN THE DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.
7. ALL CUT AND FILL SLOPES SHALL BE 2:1 OR FLATTER.
8. THE CRUSHED STONE USED IN THE OUTLET SHALL MEET AASHTO DESIGNATION M43, SIZE NO.2 OR 24 OR ITS EQUIVALENT SUCH AS MSHA NO.2. GRAVEL, MEETING THE ABOVE GRADATION, MAY BE USED IF CRUSHED STONE IS NOT AVAILABLE. GRUSHER RUN IS NOT ACCEPTABLE.

CONSTRUCTION SPECIFICATIONS: STORM INLET (SEDIMENT TRAP)

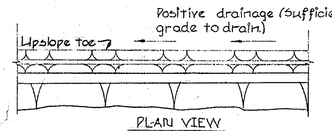
1. SEDIMENT SHALL BE REMOVED AND TRAP RESTORED TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED TO 1/2 THE DESIGN DEPTH OF THE TRAP. REMOVED SEDIMENT SHALL BE DEPOSITED IN A SUITABLE AREA AND IN SUCH A MANNER THAT IT WILL NOT ERODE.
2. THE STRUCTURE SHALL BE INSPECTED AFTER EACH RAIN AND REPAIRS MADE AS NEEDED.
3. CONSTRUCTION OPERATIONS SHALL BE CARRIED OUT IN SUCH A MANNER THAT EROSION AND WATER POLLUTION SHALL BE MINIMIZED.
4. THE SEDIMENT TRAP SHALL BE REMOVED AND AREA STABILIZED WHEN THE REMAINING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.
5. ALL CUT AND FILL SLOPES SHALL BE 2:1 OR FLATTER.

CONSTRUCTION SPECIFICATIONS: SILT FENCE

1. THE FENCE POSTS SHALL BE SPACED A MAXIMUM DISTANCE OF 10 FEET CENTER-TO-CENTER.
2. WOVEN WIRE FENCE SHALL BE FASTENED SECURELY TO THE UPSTREAM SIDE OF THE FENCE POSTS BY STAPLES OR WIRE TIES.
3. STAPLE OR FASTEN SECURELY THE FILTER CLOTH TO THE UPSTREAM SIDE OF THE WOVEN WIRE, ALLOW SUFFICIENT FILTER CLOTH FOR ANCHOR AT THE BOTTOM.
4. THE FILTER CLOTH SHALL BE EMBEDDED IN THE SOIL A MINIMUM OF 4 INCHES, AND HAVE COMPACT SOIL TO HOLD IT IN PLACE.
5. THE INSPECTION SHALL BE FREQUENT AND THE FILTER CLOTH SHALL BE REPLACED PROMPTLY AS NEEDED IF IT IS TORN.

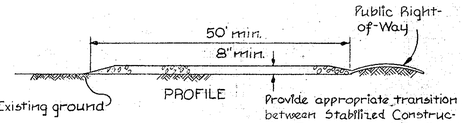


CROSS SECTION



PLAN VIEW

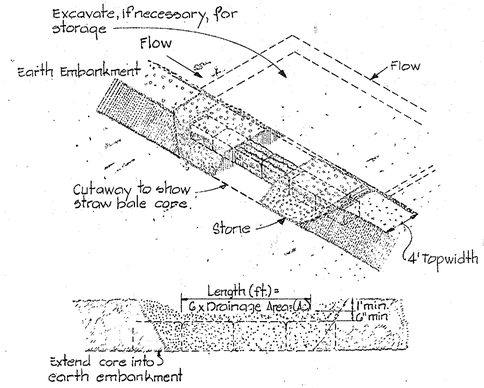
PERIMETER / DIVERSION DIKE
Not To Scale



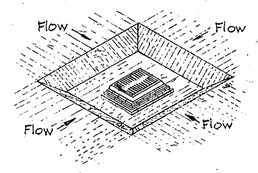
STABILIZED CONSTRUCTION ENTRANCE
Not To Scale

CONSTRUCTION SPECIFICATIONS
STABILIZED CONSTRUCTION ENTRANCE

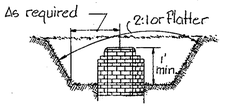
1. STONE SIZE - USE MSHA SIZE NO.2(2-½" TO 1") OR AASHTO DESIGNATION M43 SIZE NO.2(2-½" TO 1-½"). USE CRUSHED STONE.
2. LENGTH - AS EFFECTIVE, BUT NOT LESS THAN 50 FEET.
3. THICKNESS - NOT LESS THAN EIGHT (8) INCHES.
4. WIDTH - NOT LESS THAN FULL WIDTH OF PROPOSED PAVING.
5. WASHING - WHEN NECESSARY, WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE WHICH DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING ANY STORM DRAIN, DITCH, OR WATER-COURSE THROUGH USE OF SAND BAGS, GRAVEL, OR OTHER APPROVED METHODS.
6. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEAN OUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.



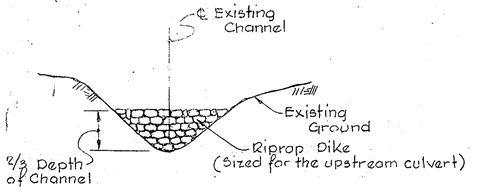
DETAIL - STONE OUTLET SEDIMENT TRAP
Not To Scale



Notes:
Use only for "C" Inlets, (I-35, I-34, I-33, I-9, I-19, I-18)

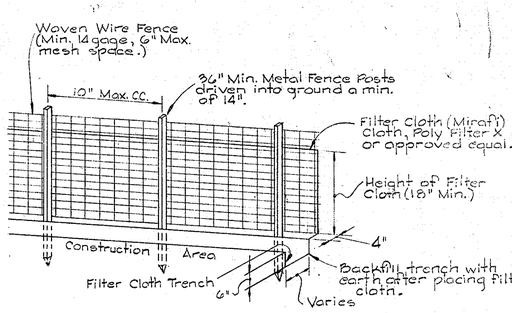


CROSS-SECTION
YARD DRAIN
STORM INLET SEDIMENT TRAP
Not To Scale



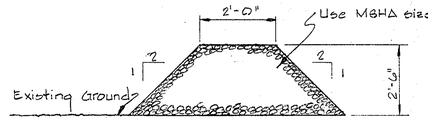
NOTES:
1. Before constructing culvert, install riprap dike full width of channel.
2. Upon completion of grading over culvert, remove sediment and riprap dike.
3. Use riprap dike material for culvert riprap apron.

SEDIMENT CONTROL FOR CULVERT CONSTRUCTION AT ROADS
No Scale

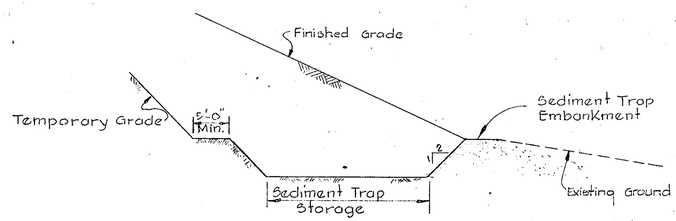


Notes:
1. Woven wire fence to be fastened securely to fence posts by use of wire ties.
2. Filter Cloth to be fastened securely to woven wire fence by use of wire ties spaced every 24" x 24".

SILT FENCE DETAIL
No Scale



STONE BERM DETAIL
No Scale



DETAIL - TEMPORARY GRADING AT SEDIMENT TRAP
Not to scale

APPROVED
DIVISION OF LAND DEVELOPMENT
HOWARD COUNTY, MARYLAND
DATE 7-8-80

OWNER AND DEVELOPER
DEEP RUN ASSOCIATES
3701 OLD COURT ROAD, UNIT 11
BALTIMORE, MARYLAND - 21208

WHITMAN, REQUARDT AND ASSOCIATES
ENGINEERS
1111 NORTH CHARLES STREET
BALTIMORE, MARYLAND 21201
KENNETH A. McCORD, P.E. 1974

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING
PLANNING DIRECTOR — DATE 8-18-80
CHIEF, DIVISION OF LAND DEVELOPMENT — DATE 8-18-80
APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE AND STORM DRAINAGE SYSTEMS AND ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DIRECTOR — DATE 8-11-80
CHIEF, BUREAU OF ENGINEERING — DATE 8-11-80

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
APPROVED: HOWARD S.C.D. — DATE: 8-13-80
SIGNATURE: U.S. CONSERVATION SERVICE — DATE 8-13-80
APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.
COUNTY HEALTH OFFICER — DATE 8-14-80

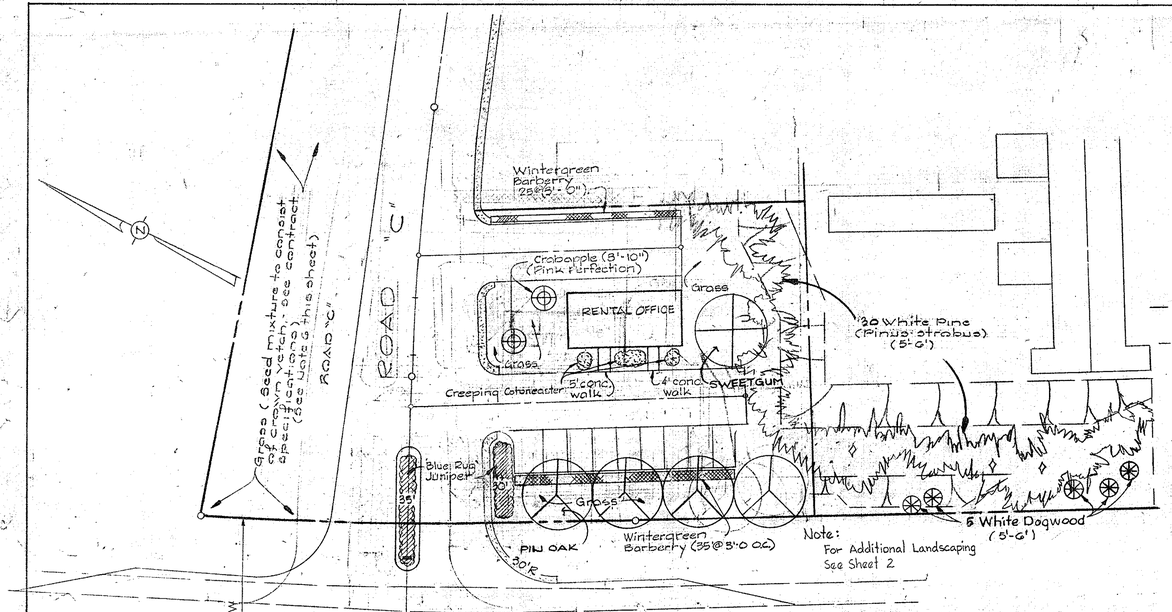
CERTIFICATION BY THE DEVELOPER
"I certify that all development and or construction will be done according to this Plan of Development and Plan for Erosion and Sediment Control, and I also authorize periodic on site inspection by the HOWARD SOIL CONSERVATION DISTRICT or their authorized agents, as are deemed necessary".
SIGNATURE OF DEVELOPER — DATE 5/8/80

CERTIFICATION BY THE ENGINEER
"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".
KENNETH A McCORD — DATE 11/16/79

DEEP RUN PARK
SECTION 1
SEDIMENT CONTROL DETAIL SHEET
FIRST ELECTION DISTRICT OF HOWARD COUNTY, MARYLAND
TAX MAP 37
DATE: AUGUST 2, 1978 — SCALE: AS SHOWN

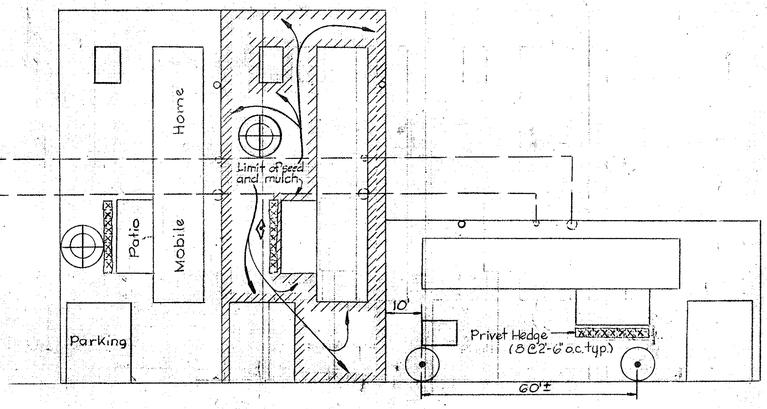
J.O. 7153
FILE
SHEET 31 OF 33

6-11-80
SDP-80-95



RENTAL OFFICE LANDSCAPING

Scale: 1"=30'



PLANT LIST

SYMBOL	BOTANICAL & COMMON NAME	SIZE	QUANT.
	LIQUIDAMBER STYRACIFLUA - SWEETGUM	2½"-3"	4
	PINUS NIGRA - AUSTRIAN PINE	8'-10'	18
	PINUS STROBUS - WHITE PINE	5'-6' / 8'-10'	40 / 52
	QUERCUS PALUSTRIS - PIN OAK	2½"-3" Cal	9
**	MALUS SP. - CRABBAPPLE SP. (PINK 'PERFECTION')	8'-10' (2 Stem)	2
	SEE NOTE BELOW	2½" - 3"	—
	QUERCUS BOREALIS - NORTHERN RED OAK	2'-2½" cal	17
	CORNUS FLORIDA - WHITE DOGWOOD	6'-8'	6
	PICEA ABIES - NORWAY SPRUCE	8'-10'	36
	CREEPING COTONEASTER	15"-18" cans.	40
	JUNIPERUS HORIZONTALIS "BLUE RUG" - JUNIPER	15"-18" cans.	100
	BERBERIS JULIANAE - WINTERGREEN BARBERRY	2'-2½'	25
◇	LIGUSTRUM LUCIDUM	2'-2½'	As Required
	SALIX BABYLONICA - WEEPING WILLOW	2"-2½"	4

** FLOWERING TREES - Symbol shall designate Flowering Crabbapple, Flowering Cherry, White Dogwood, Sourwood, or similar as per owner's request for "TYPICAL LOT LANDSCAPING"

DECIDUOUS TREES — Symbol shall designate trees such as Bradford Pear, Norway Sugar Maples, Sweetgum, Oaks Linden, or similar as per owners request

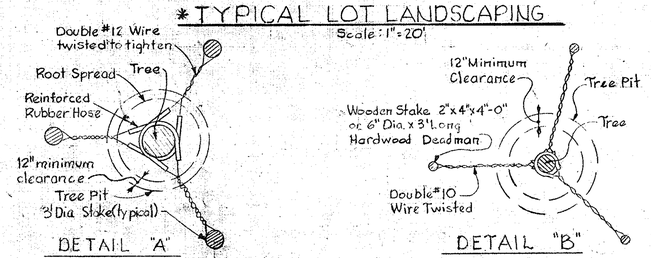
◇ EVERGREEN / BROADLEAF EVERGREEN HEDGES SUCH AS HOLLY (ILEX), YEW (TAXUS) AT OWNERS REQUEST FOR SCREENING.

* Location of plant material shall be determined by topography & individual site conditions.

Note: Trees shall be a minimum of 2½ inches caliper within the required landscape areas.

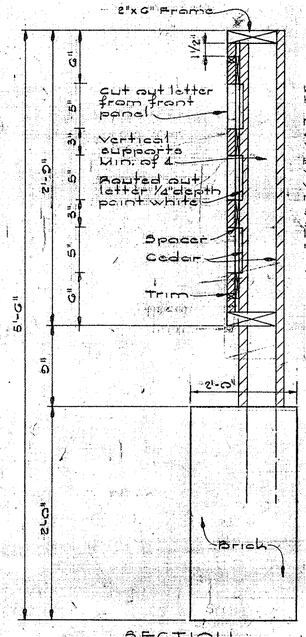
* TYPICAL LOT LANDSCAPING

Scale: 1"=20'



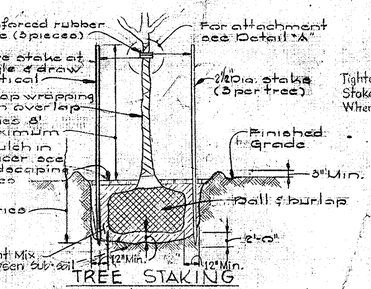
DETAIL "A"

DETAIL "B"



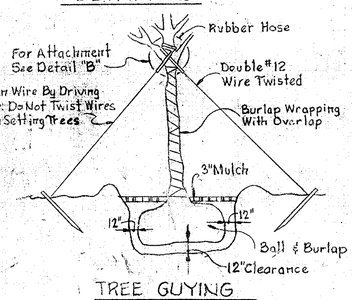
SECTION

Scale: 1½"=1'-0"



TREE STAKING

Note 7

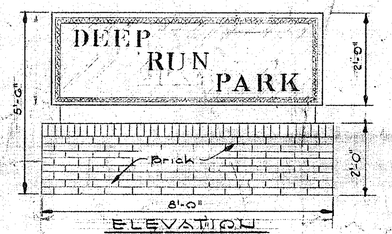


TREE GUYING

Note 8

PLANTING DETAILS

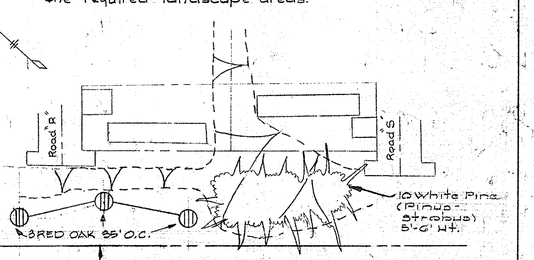
No Scale



ELEVATION

No Scale

ENTRANCE SIGN



OLD WATERLOO ROAD

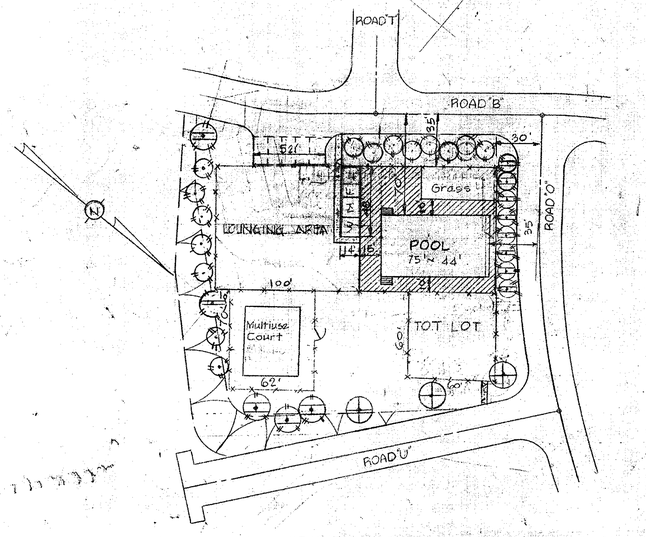
(MARYLAND STATE ROUTE 405)

& SRC Plat # 12447

Note: For Additional Landscaping See Sheet 2

PLANTING PLAN

Scale: 1"=50'



RECREATION AREA

SCALE: 1"=50'

LANDSCAPING NOTES

1. Plants shall conform to latest edition of "USA Standard for Nursery Stock, A.N.A."
2. All plants shall be be balled and burlapped at time of digging at Nursery.
3. Planting Mixture (Backfilling Plants Pits)
   Deciduous - 4 parts topsoil, 1 part stable manure, 2 lbs. fertilizer (10-6-4)
   Evergreen and Broadleaf - 4 parts topsoil, 1 part peat humus, 2 lbs. fertilizer (10-6-4)
4. Plant mix shall be done by hand or mechanical.
5. Spread wood chip mulch 3" in depth over all tree and shrub plantings.
6. Crown vetch seeding shall be done between North property line and Road "C" pavement entire length, rear slope areas between Lot Nos. 8 to 9 and Lot 9, Lot Nos. 20 to 22 and 30 to 33.
7. Tree guying for low branching and Conifers.
8. Tree staking for shade trees.
9. Crown vetch seeding between Lot Nos. 150 to 158 and Lot Nos. 197 to 143 rear slope areas.

APPROVED
DIVISION OF LAND DEVELOPMENT
HOWARD COUNTY, MARYLAND
DATE 7-8-80

OWNER AND DEVELOPER
DEEP RUN ASSOCIATES
3701 OLD COURT ROAD, UNIT 11
BALTIMORE, MARYLAND - 21208

WHITMAN, REQUARDT AND ASSOCIATES
ENGINEERS
1111 NORTH CHARLES STREET
BALTIMORE, MARYLAND 21201

Kenneth A. McCord
KENNETH A. McCORD, P.E. 1974

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING

PLANNING DIRECTOR — DATE 8-18-80

CHIEF, DIVISION OF LAND DEVELOPMENT — DATE 8-18-80

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE AND STORM DRAINAGE SYSTEMS AND ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

DIRECTOR — DATE 8-16-80

CHIEF, BUREAU OF ENGINEERING — DATE 8-11-80

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

APPROVED: William T Rame — HOWARD S.C.D. — DATE: 8-13-80

SIGNATURE: U.S. CONSERVATION SERVICE — DATE 8-13-80

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT

COUNTY HEALTH OFFICER — DATE 8-14-80

CERTIFICATION BY THE DEVELOPER

"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".

SIGNATURE OF DEVELOPER — DATE 8/8/80

CERTIFICATION BY THE ENGINEER

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.

Kenneth A. McCord
KENNETH A. McCORD — DATE 11-16-79

DEEP RUN PARK

SECTION 1

LANDSCAPE PLAN AND DETAILS

FIRST ELECTION DISTRICT OF HOWARD COUNTY, MARYLAND

DATE: November 16, 1979 — SCALE: AS SHOWN

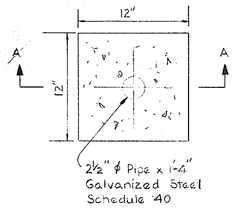
J.O. 7153

FILE

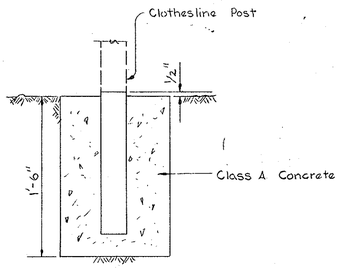
SHEET 32 OF 33

7-1-80

SDP-80-95



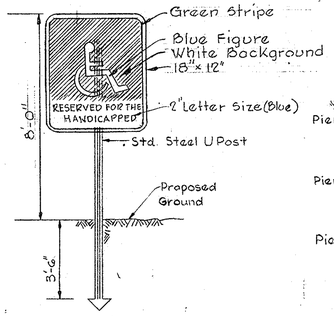
PLAN



SECTION A-A

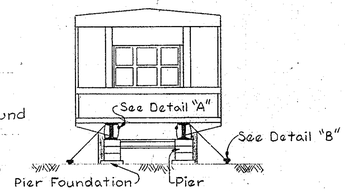
CLOTHESLINES MOUNTING SLEEVE

No Scale



SIGN DETAIL FOR HANDICAPPED

No Scale

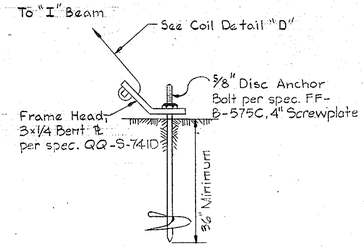


Pier Foundation — To 4"x8"x16" Solid Masonry Units Laid Parallel To The Main Beam On Compacted Surface.

Pier — Undamaged 8"x8"x16" Blocks, Solid Or Open Celled Blocks Shall Be Placed With Cells Vertical. Wooden Shims May Be Used For Leveling Purposes And Shall Not Occupy More Than One (1) Inch Of Vertical Space. If Pier Height Exceeds Thirty (30) Inches, Piers Must Be At Least 16"x16" Laid As Stated.

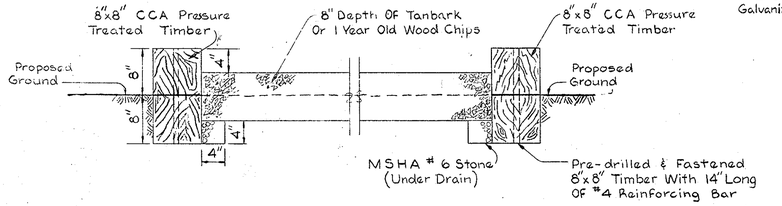
TYPICAL FRONT ELEVATION

No Scale

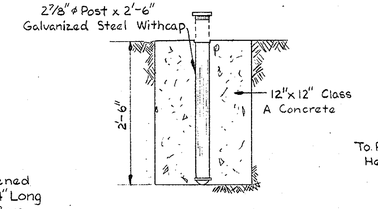


DETAIL "B"

No Scale

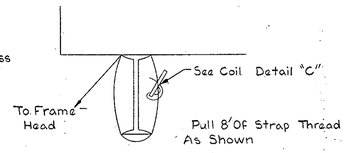


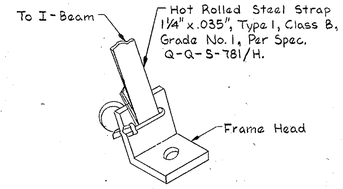
NOTE: For Tot-lot Layout See Detail Sheet 11 of 39



GROUND SOCKET FOR MULTI-USE COURT

No Scale





DETAIL "C"
TYPICAL ANCHOR HEAD

No Scale

RECREATION AREA SCHEDULE

(ALTERNATE MANUFACTURERS)

MULTI-USE COURT

BASKETBALL GOAL

MODEL NO.414 BENT POST STEEL BACKSTOP AND CN(STEEL CHAIN GOAL NET)

1 PLAYGROUND CORPORATION OF AMERICA
29-24 40TH AVENUE, L.I. C., N.Y. 11101

MODEL NO.360-740, SINGLE SUPPORT, FAN BOARD SHAPE, STEEL BOARD MATERIALS, CHAIN NETS, PERMA LOOK SUPPORT FINISH

2 MIRACLE RECREATION EQUIPMENT COMPANY
P.O. BOX 275, GRINNELL, IOWA 50112

TOT-LOT (PLAY AREA

CLIMBER

DO-DEE CLIMBER (#661-000 SMALL)

1 MEXICO FORGE
MANUFACTURED BY KILGORE CORPORATION
P.O. BOX 565, REEDSVILLE, PA. 17084

DOME CLIMBER #655

2 GAME TIME
900 ANDERSON ROAD
LICTHTIELD, MICHIGAN 49252

MINI-MOON CLIMBER #80

3 QUALITY INDUSTRIES INC.
HILLSDALE, MICHIGAN 49242

SLIDE

NO.7617 MAINLINER SLIDE, 2'X14' GROUND SPACE, 6' HEIGHT, 12' LENGTH

1 GAME TIME
900 ANDERSON ROAD,
LICTHTIELD, MICHIGAN 49252

STAINLESS STEEL BEDRAIL, MODEL NO.102-1, 6' HEIGHT, 12' LENGTH

2 MIRACLE RECREATION EQUIPMENT COMPANY
P.O. BOX 275, GRINNELL, IOWA 50112

SRS-612 SLIDE, 12' BEDWAY, 6' HIGH

3 PLAYGROUND CORPORATION OF AMERICA
29-24 40TH AVENUE, L.I.C., N.Y. 11101

FUNCTIONAL SCULPTURES

MOONHOUSE

1 FORM INCORPORATED
12900 WEST TEN MILE ROAD
SOUTH LYON, MICHIGAN 48178

NO.1178 TUNNEL CLIMBER

2 GAME TIME
900 ANDERSON ROAD, LICTHTIELD, MICHIGAN 49252

TOT CASLLE TC-1

3 PLAYGROUND CORPORATION OF AMERICA
29-24 40TH AVENUE, L.I.C., N.Y. 11101

BENCH

NO.532 WELDED STRAIGHT LEG BENCHES

1 GAME TIME
900 ANDERSON ROAD, LICTHTIELD, MICHIGAN 49252

6' CLASSIC BENCH 170-006

2 MEXICO FORGE
MANUFACTURED BY KILGORE CORPORATION
P.O. BOX 565, REEDSVILLE, PA. 17084

MODEL NO.1236-2 WOODEN SLAT PARK BENCHES

3 MIRACLE RECREATION EQUIPMENT COMPANY
P.O. BOX 275, GRINNELL, IOWA 50112

LITTER RECEPTACLES

HOWARD H-3 SELF STANDING WITH CHAIN HOLES

1 UNITED METAL RECEPTACLE CORPORATION
14TH & LAUREL STREETS, POTTSVILLE, PA.17901

SELF-CLOSING DOME 504-000

2 MEXICO FORGE
MANUFACTURED BY KILGORE CORPORATION
P.O. BOX 565, REEDSVILLE, PA. 17084

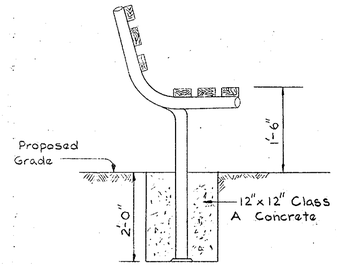
LITTER RECEPTACLES 7722-F WITH 22 GAL.PLASTIC

3 GAME TIME
900 ANDERSON ROAD, LITCHTIELD, MICHIGAN 49252

Installation Of Play Area Equipment Shall Be According To Manufacturer's Specifications.

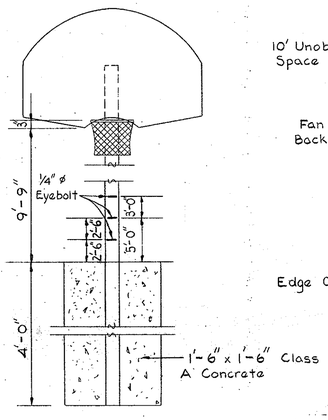
PLAY AREA
TOT-LOT DETAIL

Scale 1"=1'-0



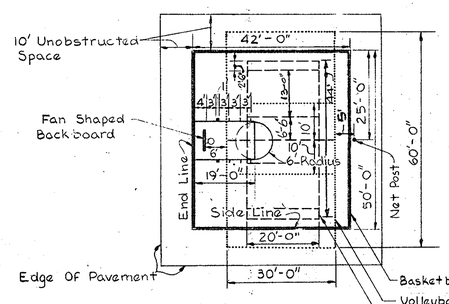
FOOTING DETAIL FOR PERMANENT BENCH

No Scale



FOOTING DETAIL FOR BASKETBALL POST

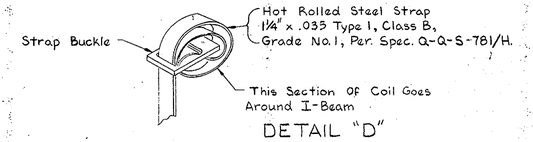
No Scale



* DETAIL FOR MULTI-USE COURT

Scale: 1"=20'-0"

* See Sheet 12/30 For Pavement Section.
See Sheet 12/30 For Fencing Detail.
Pavement Markings (Multi-Use Court): Paint lines shall be 1½" wide. Alkyd resin, fast drying white traffic zone paint and yellow traffic zone paint as designated.



DETAIL "D"
TYPICAL FRAME STRAP BUCKLE

Note: The Minimum Number Of Such Tie-Downs Shall Be Eight (8) With Each Having A Holding Power Of 3,150 Pounds.

Not More Than 12 Feet On Centers Begining From Front Wall; Not More Than 6 Feet Open-End Spacing Shall Be Provided At The Rear End Of The Mobile Home Unless Additional Tie-Downs Are Installed.

Tie-Downs Exposed To Weathering Shall Be Resistant To Weathering Deterioration At Least Equivalent To That Provided By A Coating Of Zinc On Steel Of Not Less Than 0.30 Ounces Per Square Foot Of Surface Coated.

TIE-DOWN DETAIL

No Scale

WHITMAN, REQUARDT AND ASSOCIATES
ENGINEERS
1111 N. CHARLES STREET
BALTIMORE, MARYLAND

KENNETH A. McCORD P.E. 1974

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING

PLANNING DIRECTOR — DATE 8-18-80

CHIEF, DIVISION OF LAND DEVELOPMENT — DATE 8-18-80

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE AND STORM DRAINAGE SYSTEMS AND ROADS' HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

DIRECTOR — DATE 8-11-80

CHIEF, BUREAU OF ENGINEERING — DATE 8-11-80

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

APPROVED: HOWARD S.C.D. — DATE: 8-12-80

SIGNATURE: U.S. SOIL CONSERVATION SERVICE — DATE 8-13-80

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS HOWARD COUNTY HEALTH DEPARTMENT

COUNTY HEALTH OFFICER — DATE 8-14-80

APPROVED
DIVISION OF LAND DEVELOPMENT
HOWARD COUNTY, MARYLAND
DATE 7-8-80

OWNER AND DEVELOPER
DEEP RUN ASSOCIATES
3701 OLD COURT ROAD UNIT #11
BALTIMORE, MARYLAND 21208

SITE DEVELOPMENT PLAN

DEEP RUN PARK - SECTION I

DETAILS

FIRST ELECTION DISTRICT OF HOWARD COUNTY, MARYLAND

TAX MAP 37 — PARCEL 183

DATE: November 16, 1979 — SCALE: AS NOTED

SHEET 33 OF 33

7-1-80

SDP-80-95