

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 LF. Road - 30'	

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	"

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

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

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

CONTRACTOR:

BY _____ DATE _____

BONDING COMPANY:

BY _____ DATE _____

MORTGAGE COMPANY:

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

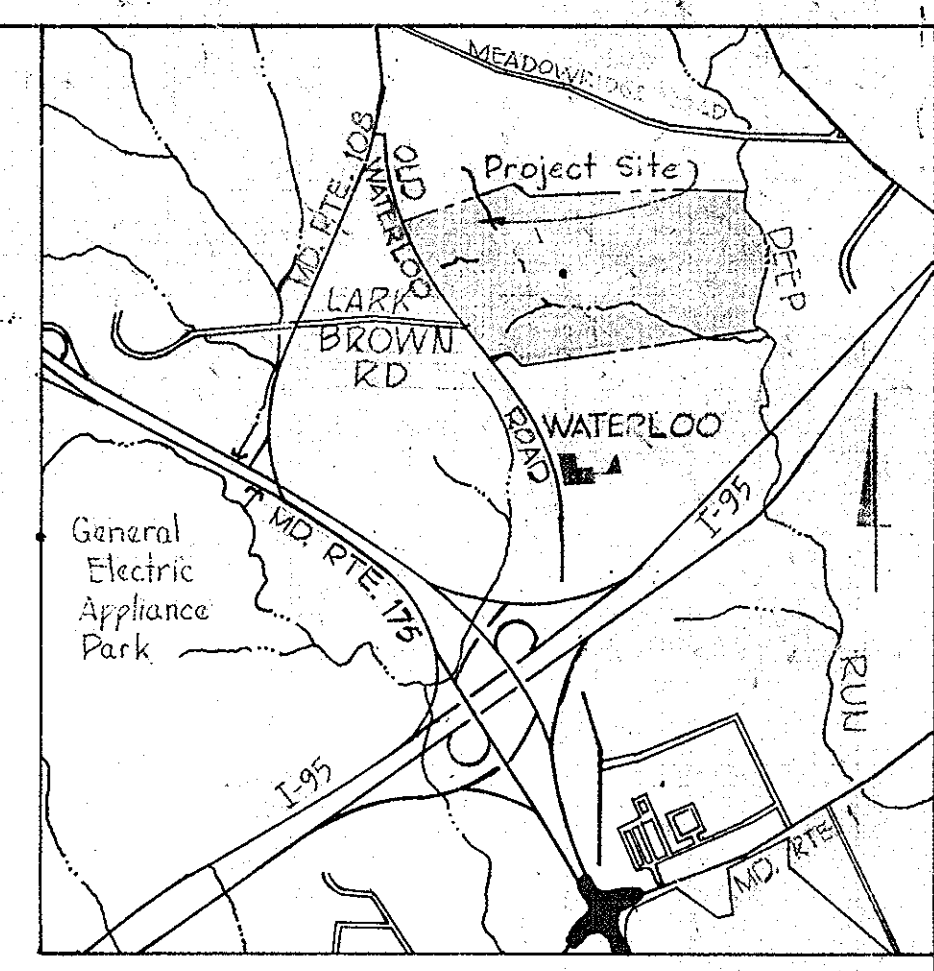
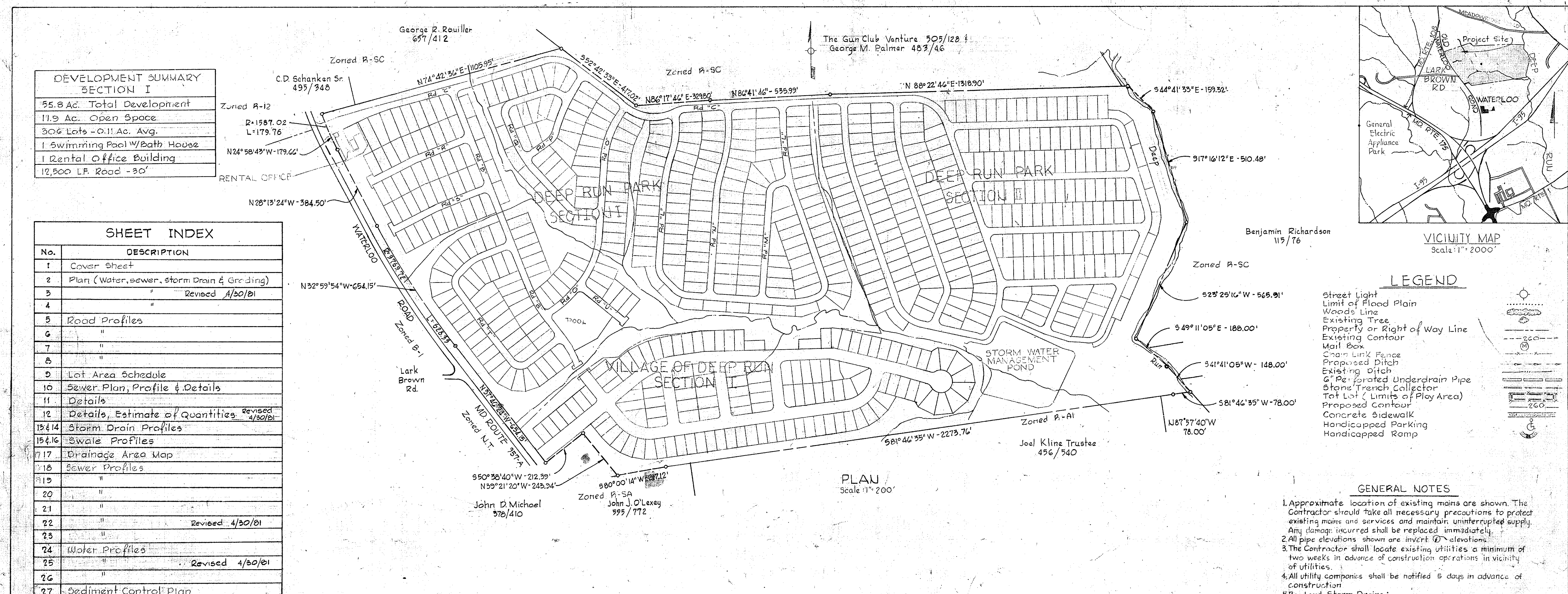
Notes:

1. Present Zoning: RMH
2. Net Acreage: 46.7 Ac
3. Dwelling Units per net acre: 6.55 D.U./net Ac.
4. Total area: 35,825 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
9. 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.
10. All pipe elevations shown are invert elevations.
11. The Contractor shall locate existing utilities a minimum of two weeks in advance of construction operations in vicinity of utilities.
12. All utility companies shall be notified 5 days in advance of construction.
13. 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.
14. All water mains shall have a minimum of 3/4 foot of cover.
15. Storm Water Management Basin design in Village of Deep Run shall be approved prior to the Deep Run Park Construction.
16. All exposed concrete shall be 3500 p.s.i. w/air entrainment.
17. All Roadway Boxes shall have locking covers.
18. Clear all utilities by a minimum of 6".
19. All 6" & 8" water mains shall be C.I.P. or D.I.P. 2" water shall be PVC, SDR 26, ASTM D2241.
20. All W.H.C.'s shall be 3/4" diameter, unless otherwise noted.
21. All valves shall be strapped to trees where applicable in accordance with Howard County Standards.
22. Buryline elevations on Fire Hydrants shall be set to elevation shown on plan.
23. All sewer mains shall be C.S.P.X., V.G.P.X., A.C.F. Class 2400 or PVC SDR35 unless otherwise noted.
24. All manholes shall be 4'-0" inside diameter.
25. The contractor shall provide a joint in all sewer mains within 2'-0" of the exterior manhole walls.
26. 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.
27. 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.
28. Trash will be picked up at curb side, twice weekly, for each individual lot.

SITE DEVELOPMENT PLAN

DEEP RUN PARK

SECTION I

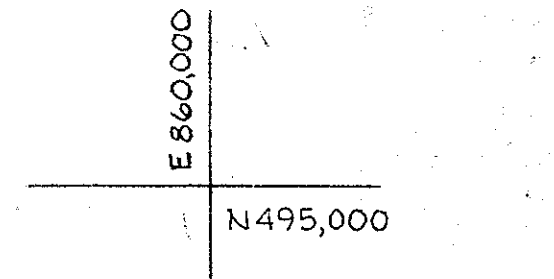
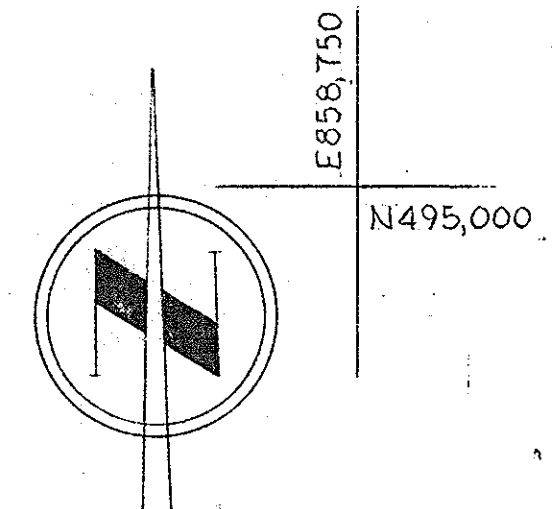


LEGEND

- 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
- Stone Trench Collector
- Tot Lot (Limits of Play Area)
- Proposed Contour
- Concrete Sidewalk
- Handicapped Parking
- Handicapped Ramp

GENERAL NOTES

WHITMAN, REQUARDT & ASSOCIATES ENGINEERS 1111 N. CHARLES STREET BALTIMORE, MARYLAND Kenneth A. McHard, P.E. 1974	APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING [Signature] DATE: 8-18-80 PLANNING DIRECTOR [Signature] DATE: 8-18-80 CHIEF, DIVISION OF LAND DEVELOPMENT	THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT APPROVED: [Signature] HOWARD S.C.D. DATE: 8-18-80	APPROVED DIVISION OF LAND DEVELOPMENT HOWARD COUNTY, MARYLAND DATE: 7-8-80 [Signature]	SITE DEVELOPMENT PLAN DEEP RUN PARK SECTION I COVER SHEET	J.D. FILE SHEET 1 OF 23
	APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE AND STORM DRAINAGE SYSTEMS AND ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS [Signature] DATE: 8-11-80 DIRECTOR [Signature] DATE: 8-11-80 CHIEF, BUREAU OF ENGINEERING	APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS HOWARD COUNTY HEALTH DEPARTMENT [Signature] DATE: 8-14-80 COUNTY HEALTH OFFICER	APPROVED: [Signature] DATE: 8-13-80 SIGNATURE: [Signature] DATE: 8-13-80 U.S. CONSERVATION SERVICE	OWNER AND DEVELOPER DEEP RUN ASSOCIATES 3701 OLD COURT ROAD UNIT #11 BALTIMORE, MARYLAND 21208	FIRST ELECTION DISTRICT OF HOWARD COUNTY, MARYLAND TAX MAP 37 PARCEL 163 DATE: November 15, 1979 SCALE: As Noted SDP-80-95



PLAN
Scale: 1"=50'

Note:
For Landscaping Details
See Sheet 32

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	S23°24'23"W	17°13'51"	94.54'	2+69.23
2	53.76'	53.77'	1000.00'	5+10.43	N73°10'11"E	3°04'50"	26.89'	5+64.19	9	69.12'	70.55'	100.78'	2+69.23	S34°50'45"W	40°06'36"	36.79'	3+39.78
3	36.09'	36.10'	1000.00'	7+31.48	N73°40'33"E	2°04'05"	18.05'	7+67.58	10	39.08'	40.15'	50.00'	0+59.73	S84°37'07"E	46°00'14"	21.23'	0+99.88
4	233.79'	249.69'	200.00'	10+23.02	S71°35'32"E	71°31'55"	114.06'	12+72.71	11	72.84'	81.59'	50.00'	2+61.12	N25°37'46"E	93°30'00"	53.15'	3+42.71
5	193.55'	202.03'	200.00'	13+52.68	S64°45'54"E	57°52'40"	110.58'	15+54.71	12	133.57'	134.39'	350.00'	4+58.02	S32°07'13"E	22°00'00"	68.03'	5+92.41
6	83.82'	83.87'	719.00'	2+59.78	S65°01'06"W	6°41'00"	41.98'	3+43.65	13	36.65'	37.53'	50.00'	8+40.69	N64°37'14"W	43°00'00"	19.70'	8+78.21
7	56.54'	56.57'	485.00'	2+59.78	S65°07'06"W	6°41'00"	28.32'	3+16.36	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
KENNETH A. McCORD, P.E. 1974

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING
PLANNING DIRECTOR: *Thomas A. Harris* DATE: 8-18-80
CHIEF DIVISION OF LAND DEVELOPMENT: *John M. Mulvaney* DATE: 8-18-80
APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE AND STORM DRAINAGE SYSTEMS AND HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DIRECTOR: *James F. Neenan* DATE: 8-11-80
CHIEF, BUREAU OF ENGINEERING: *William S. Ryan* DATE: 8-11-80

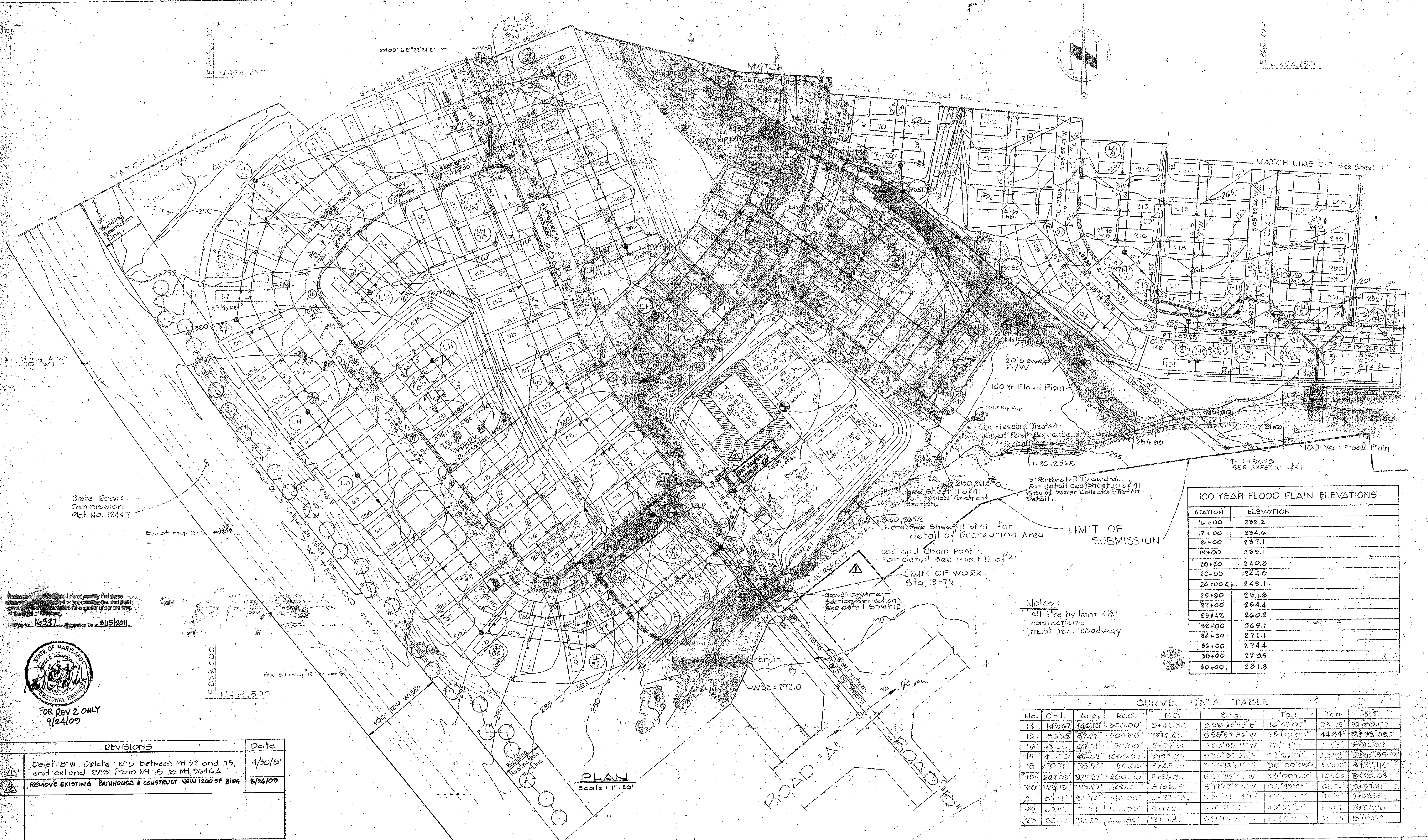
THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
APPROVED: *William R. Howe* HOWARD S.C.D. DATE: 8-13-80
SIGNATURE: *James A. Hahn* DATE: 8-13-80
APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS
HOWARD COUNTY HEALTH DEPARTMENT
COUNTY HEALTH OFFICER: *Joseph D. Boyce* DATE: 8-14-80

APPROVED
DIVISION OF LAND DEVELOPMENT
HOWARD COUNTY, MARYLAND
DATE: 7-8-80
[Signature]

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
DATE: November 16, 1979
PARCEL 163
SCALE: As Noted

SHEET
2
OF
33



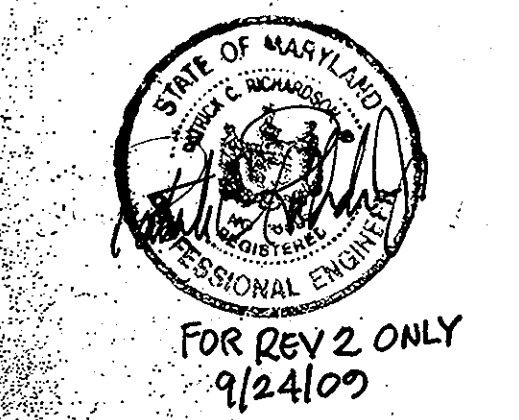
100 YEAR FLOOD PLAIN ELEVATIONS

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	281.8

CURVE DATA TABLE

No.	Ord.	Area	Rad.	PC	Sta.	Tan	Tan	PT.
14	145.67	146.15	500.00	S+46.52	220+84.66 E	10°45'0"	75.72	10769.07
15	252.58	27.27	400.00	P+40.00	558°57'26" W	25°00'00"	44.84	2795.58
16	48.00	48.00	500.00	S+77.25	233°56'12" W	75°00'0"	75.00	581.62
17	46.72	46.72	1000.00	S+77.75	236°57'00" E	75°00'0"	35.52	2764.95
18	70.71	78.54	500.00	P+45.00	333°17'41" E	30°00'00"	20.00	2127.11
19	207.05	272.87	400.00	S+56.70	152°22'11" W	25°00'00"	141.55	6502.08
20	123.15	123.27	800.00	S+54.18	521°7'55" W	25°00'00"	20.75	975.14
21	24.11	25.74	100.00	S+77.25	100°00'00"	10°00'00"	10.00	770.85
22	67.55	71.51	100.00	S+77.25	100°00'00"	10°00'00"	10.00	770.85
23	68.27	76.37	200.00	P+44.84	233°17'41" E	30°00'00"	10.00	1515.58

Notes:
All fire hydrant 4 1/2" connections must face roadway



REVISIONS	Date
Delete 8' W, Delete 8' S between MH 52 and 75, and extend 8' S from MH 75 to MH 7646A	4/30/01
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
KENNETH A. MCCORD, P.E. 1974

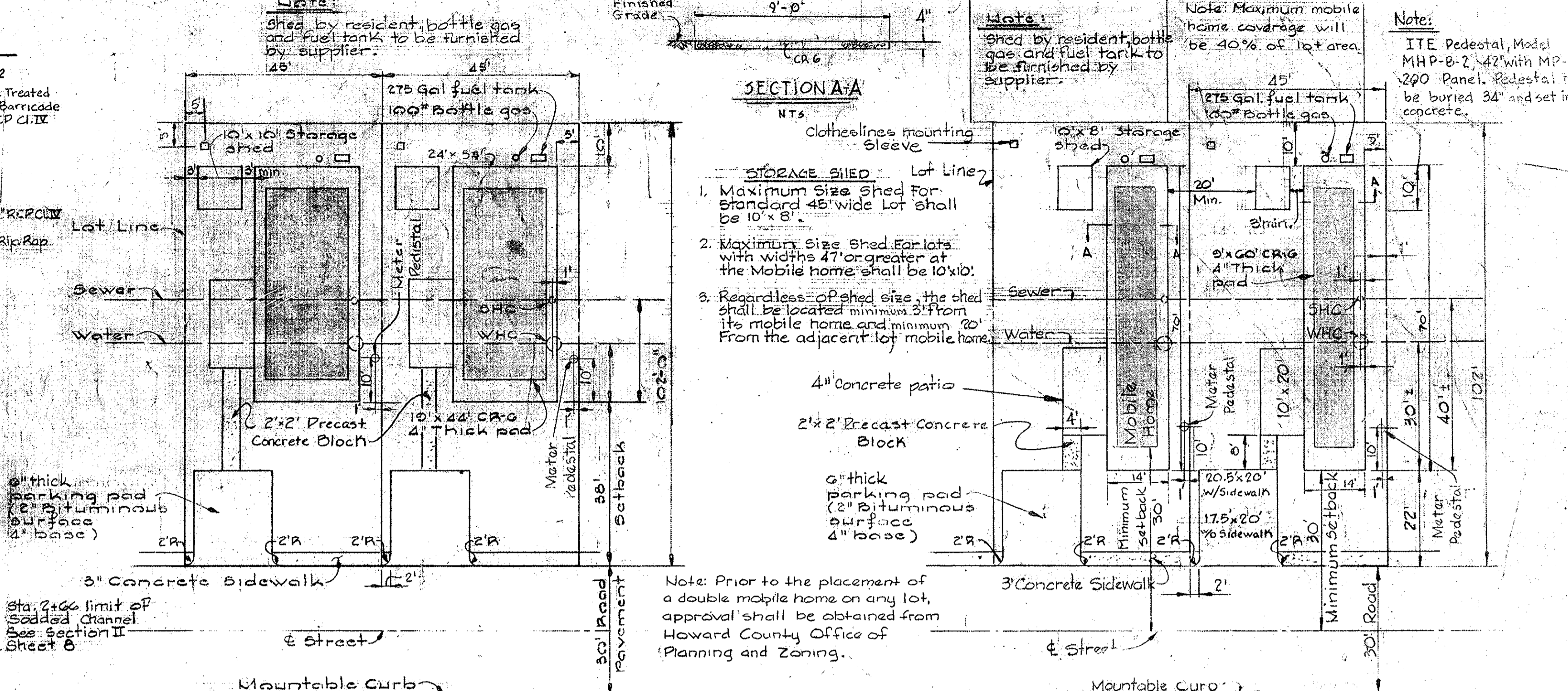
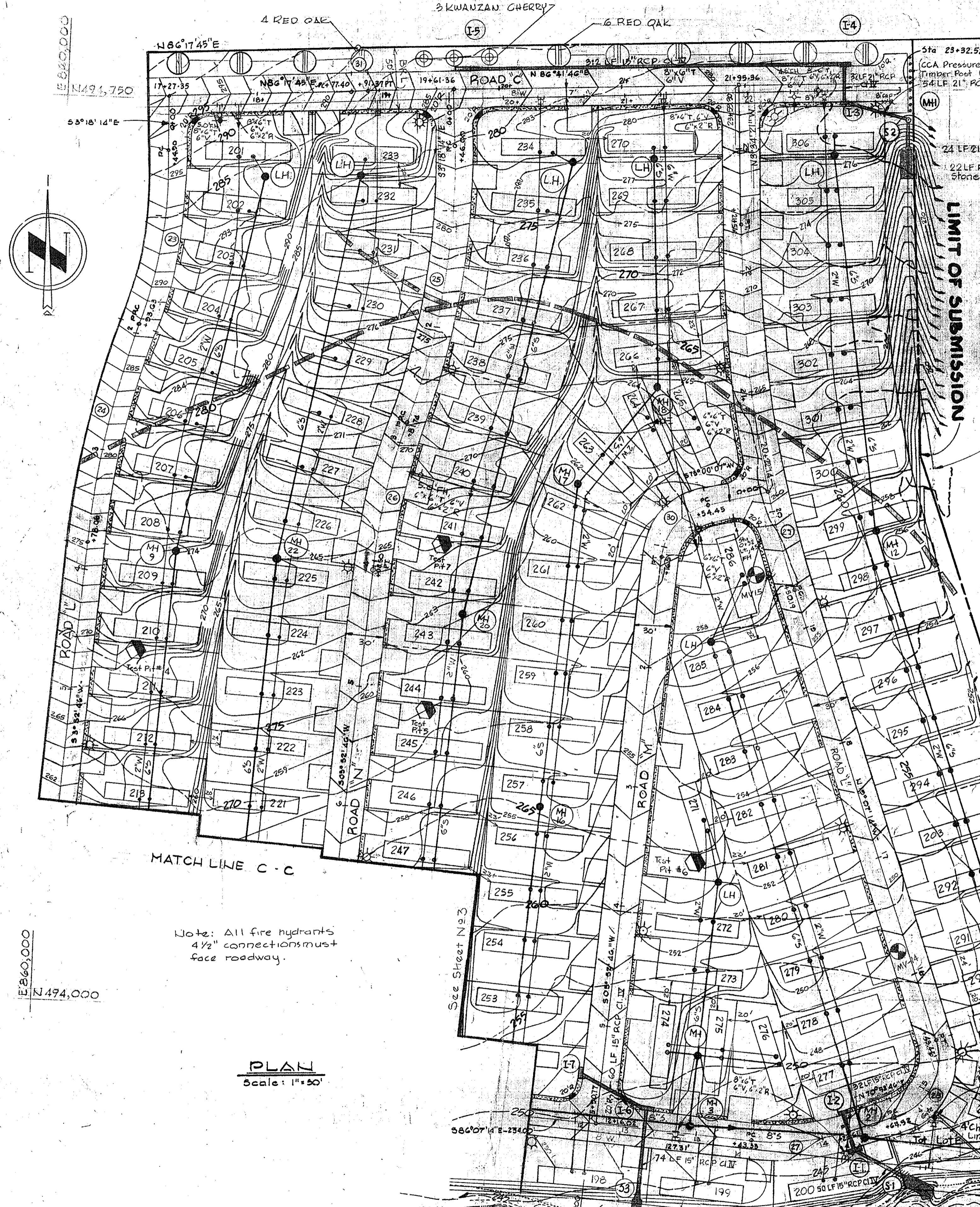
APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING
PLANNING DIRECTOR: [Signature] DATE: 8-13-80
CHIEF, DIVISION OF LAND DEVELOPMENT
APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE & STORM DRAINAGE SYSTEM & ROADS HOWARD COUNTY DEPT. OF PUBLIC WORKS
DIRECTOR: [Signature] DATE: 8-11-80
CHIEF, BUREAU OF ENGINEERING: [Signature] DATE: 8-11-80

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
APPROVED: [Signature] HOWARD S.C.D. DATE: 8-13-80
SIGNATURE: [Signature] DATE: 8-13-80
APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS
HOWARD COUNTY HEALTH DEPARTMENT
COUNTY HEALTH OFFICER: [Signature] DATE: 8-11-80

APPROVED
DIVISION OF LAND DEVELOPMENT
DATE: 7-8-80

OWNER AND DEVELOPER
DEEP RUN ASSOCIATES
3701 OLD COURT ROAD UNIT #11
BALTIMORE, MARYLAND 21206

SITE DEVELOPMENT PLAN
DEEP RUN PARK - SECTION I
PLAN
FIRST ELECTION DISTRICT OF HOWARD COUNTY MARYLAND
FAX MAP 37
DATE: November 10, 1978
SHEET 5 OF 35
SCALE: AS NOTED



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

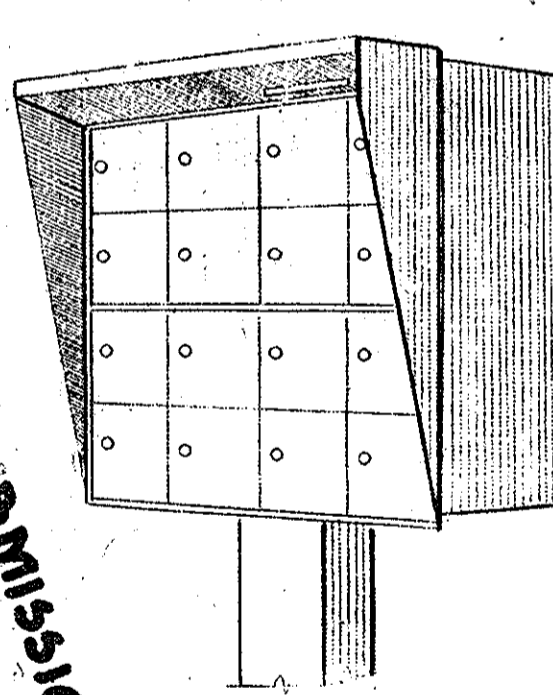
TYPICAL LOT LAYOUT
SINGLE MOBILE HOME
Scale: 1" = 20'

CURVE DATA TABLE

No.	Chord	Arc	Radius	P.C.	Bearing	Del.	Tan.	P.T.
24	147.87'	148.75'	400.00'	0+44.00	S07°20'53"W	21°18'14"	75.23'	1+09.63
25	185.97'	184.45'	748.35'	1+09.63	S10°50'23"W	14°07'14"	92.66'	3+78.09
26	284.58'	285.74'	694.00'	0+44.00	S07°20'53"W	21°18'14"	119.25'	2+81.74
27	126.44'	126.70'	514.35'	2+85.74	S10°50'23"W	14°07'14"	63.70'	4+08.50
28	79.75'	80.28'	200.00'	13+48.33	N82°22'46"E	23°00'00"	40.67'	14+28.61
29	70.71'	78.54'	90.00'	14+64.92	N25°52'46"E	50°00'00"	50.00'	15+43.46
30	270.37'	271.91'	1000.00'	17+15.19	N11°20'47"W	15°32'54"	196.52'	22+21.56
31	98.16'	121.07'	500.00'	0+54.45	S35°26'26"W	71°07'21"	35.75'	1+16.51
32	13.77'	13.77'	2000.00'	18+77.44	N86°27'46"E	00°24'01"	6.56'	18+91.97

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 240.39	239.00	239.30	
I-2	A-5	14+23.88	Lt	L 240.39	242.00	242.00	
I-3	A-5	22+81.33	Rt	C 278.51	275.18	272.80	
I-4	A-10	22+81.33	Lt	C 278.51	275.70	275.50	
I-5	A-10	19+69.33	Lt	C 248.50	249.00	249.94	w/deflectors
I-6	A-10	17+50.00	Lt	L 248.27	249.59	249.21	
I-7	A-10	5+50.10	Rt	M 249.29	249.00	244.19	
I-8	A-10	10+58.28	Rt	L 251.90	248.00	244.60	
I-9	C	10+58.28	Lt	L 251.90	248.00	244.60	
I-10	A-5	8+05.00	Lt	N 253.54	247.94	246.97	w/deflectors
I-11	A-10	8+05.10	Rt	U 253.59	248.82	247.99	
I-12	A-10	0+41.95	Lt	L 258.04	250.03	249.66	
I-13	C	0+41.95	Rt	N 254.93	250.00	251.01	
I-14	A-5	4+51.00	Lt	O 271.47	267.00	267.00	
I-15	A-5	4+06.00	Rt	O 271.47	264.76	263.79	
I-16	A-5	0+79.51	Lt	T 274.20	268.60	268.53	
I-17	A-5	0+79.51	Lt	T 274.20	268.04	268.04	
I-18	C	8+08.11	Rt	T 277.00	277.00	271.60	
I-19	A-5	0+66.98	Rt	Q 274.48	268.00	267.65	
I-20	A-5	0+47.07	Lt	Q 274.18	268.82	268.34	
I-21	A-5	5+88.44	Lt	B 281.21	273.00	270.47	
I-22	A-5	0+30.44	Rt	B 281.21	275.90	274.28	
I-23	A-5	0+30.44	Rt	B 282.12	277.00	273.25	w/deflectors
I-24	A-5	0+30.44	Rt	B 282.99	277.00	277.00	w/deflectors
I-25	A-5	0+30.44	Rt	B 282.97	278.59	277.89	w/deflectors
I-26	A-5	0+30.44	Rt	B 279.87	274.40	274.01	w/deflectors
I-27	A-5	5+88.44	Lt	Q 270.61	262.50	274.75	w/deflectors
I-28	A-5	0+36.17	Lt	R 283.18	281.22	282.18	w/deflectors
I-29	A-5	0+60.00	Rt	R 280.56	283.50	283.14	w/deflectors
I-30	A-5	7+08.44	Rt	C 293.10	287.25	286.60	
I-31	A-5	5+88.37	Rt	C 292.71	292.20	292.20	w/deflectors
I-32	A-10	2+08.44	Lt	C 293.10	287.90	287.90	
I-33	C	3+55.30	Rt	O 277.33	277.33	272.03	
MH-1	Standard	25+54.50	Rt	C 277.00	272.20	271.50	Ho. Co. Standard Dwg. D104, Pg. 150
I-34	C	0+60.00	Rt	S 284.83	287.00	287.00	
I-35	C	0+60.00	Rt	A 292.53	287.54	287.54	
I-36	A-5	0+30.47	Lt	T 282.89	278.09	278.09	w/deflectors
I-37	A-5	5+01.33	Lt	Q 281.05	276.04	276.04	w/deflectors
S-1	15" Precast	14+59.24	Rt	L	254.60	254.60	Standard Precast Outlet
S-2	21" Precast	23+34.54	Rt	C	271.20	271.20	
S-3	15" Precast	12+56.69	Rt	L	250.89	250.89	
S-4	24" Precast	10+50.20	Rt	L	244.20	244.20	
S-5	Type C	6+43.48	Lt	Rd. O	264.70	258.70	See Detail Sheet 13
S-6	6" Precast	6+19.54	Rt	Rd. O	260.64	260.64	Standard Precast Inlet
S-7	6" Precast	13+60.30	Rt	Rd. B	266.88	266.88	Standard Precast Inlet
S-8	15" Precast	8+08.38	Lt	Rd. Q	268.50	268.50	Standard Precast Outlet
S-9	30" Precast	5+00.44	Lt	Rd. B	270.23	270.23	Standard Precast Outlet
S-10	30" Precast	5+00.44	Rt	Rd. B	275.92	275.92	Standard Precast Inlet
S-11	15" Precast	5+71.51	Ct	Rd. Q	273.20	273.20	Standard Precast Outlet
S-12	15" Precast	2+48.17	Lt	Rd. B	277.00	277.00	
S-13	42" Precast	7+24	Rt	Rd. C	280.50	280.50	
S-14	Type "A"	7+24	Rt	Rd. C	283.02	283.02	See Detail sheet 16
S-15	42" Precast	13+62	Rt	Rd. B	266.10	266.10	Standard Precast Outlet
MH-2	Special	7+24	Rt	Rd. C	293.60	281.50	See Detail Sheet 16



- APPROVED MANUFACTURERS**
- Superior Marina Product, Inc. Superior Service Division 15-03 126th Street College Point, NY 11356
 - Bommer Industries, Inc. Landrum, SC 29356
 - American Devco Manufacturing Co. P.O. Box 8 Steeleville, IL 62288
- Notes:**
- A complete set of instructions, including illustration for assembling, installing, and mounting the boxes shall be provided with each box.
 - Each compartment in these units will be 6 inches wide by 5 inches high by 15 inches deep.
 - Height adjustment from 32 to 40 inches high at 4-inch increments. The height adjusting mechanism shall not be exposed after the height of pedestal is set to preclude tampering or vandalism.
 - Rear loaded through master door.

Note: For Continuation of 100 Year Flood Plain: See sheet 10 of 41.

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

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING
PLANNING DIRECTOR: *Thomas J. Davis* DATE: 8-18-80
CHIEF, DIVISION OF LAND DEVELOPMENT: *William T. Rowe* DATE: 8-18-80

APPROVED: U.S. SOIL CONSERVATION SERVICE
DATE: 8-18-80

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DIRECTOR: *William F. Nunn* DATE: 8-18-80
CHIEF, BUREAU OF ENGINEERING: *James H. Long* DATE: 8-18-80

APPROVED: HOWARD COUNTY HEALTH DEPARTMENT
COUNTY HEALTH OFFICER: *James H. Long* DATE: 8-18-80

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

SITE DEVELOPMENT PLAN
DEEP RUN PARK - SECTION I
PLAN AND DETAILS

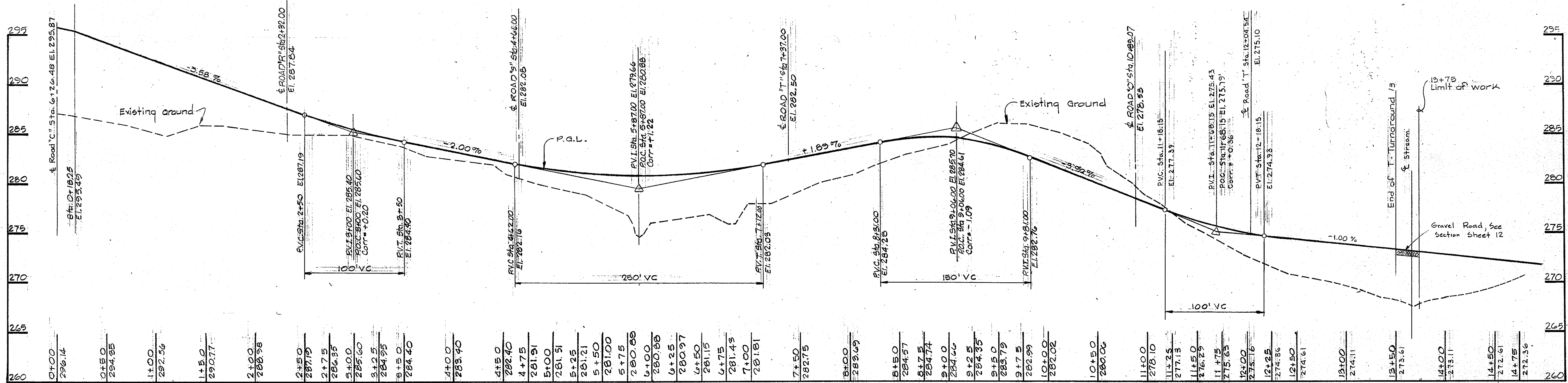
OWNER AND DEVELOPER:
DEEP RUN ASSOCIATES
3701 OLD COURT ROAD UNIT #11
BALTIMORE, MARYLAND 21208

FIRST ELECTION DISTRICT OF HOWARD COUNTY MARYLAND
TAX MAP 37
DATE: November 16, 1979

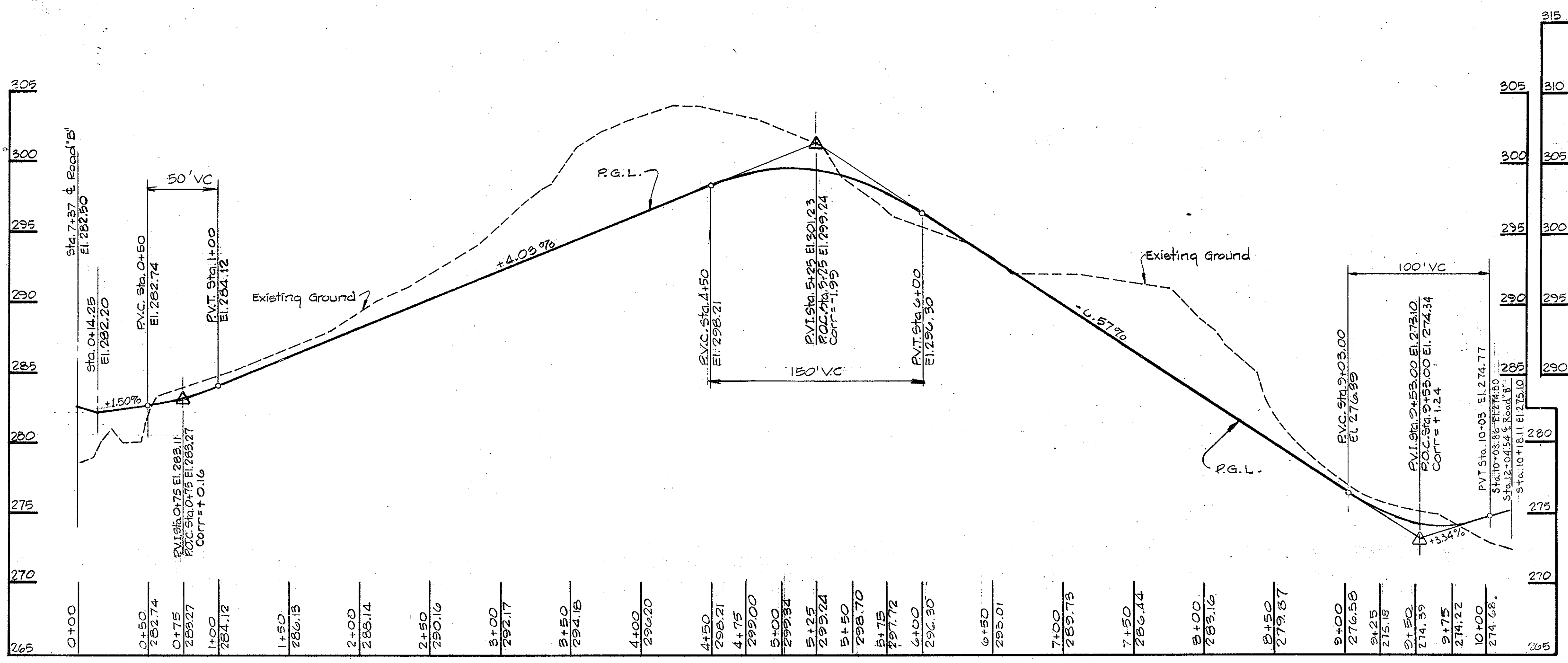
PARCEL 163
SCALE: AS NOTED

SHEET 4 OF 5

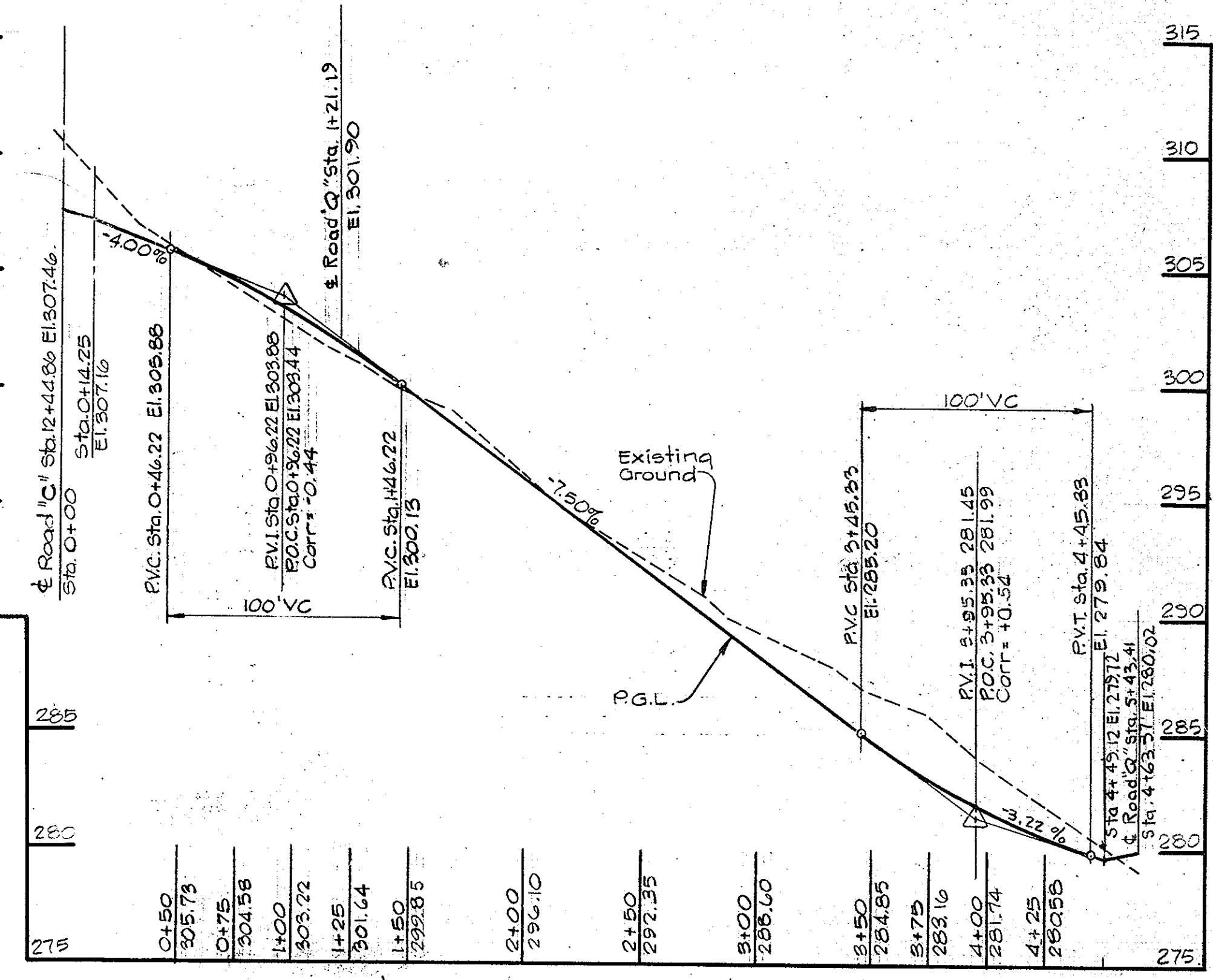
7-1-80



PROFILE ROAD "D"



PROFILE ROAD "T"



PROFILE ROAD "P"

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

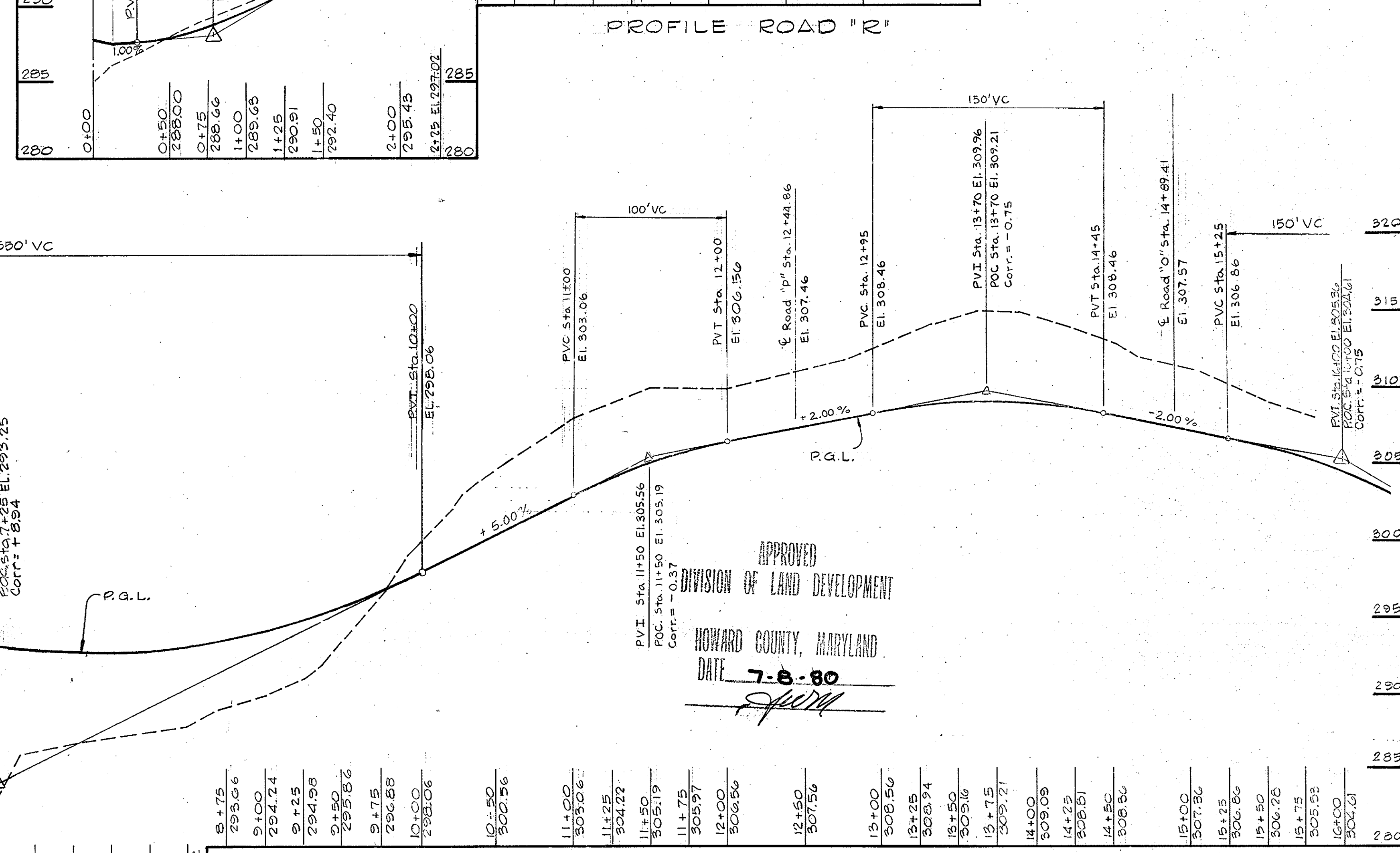
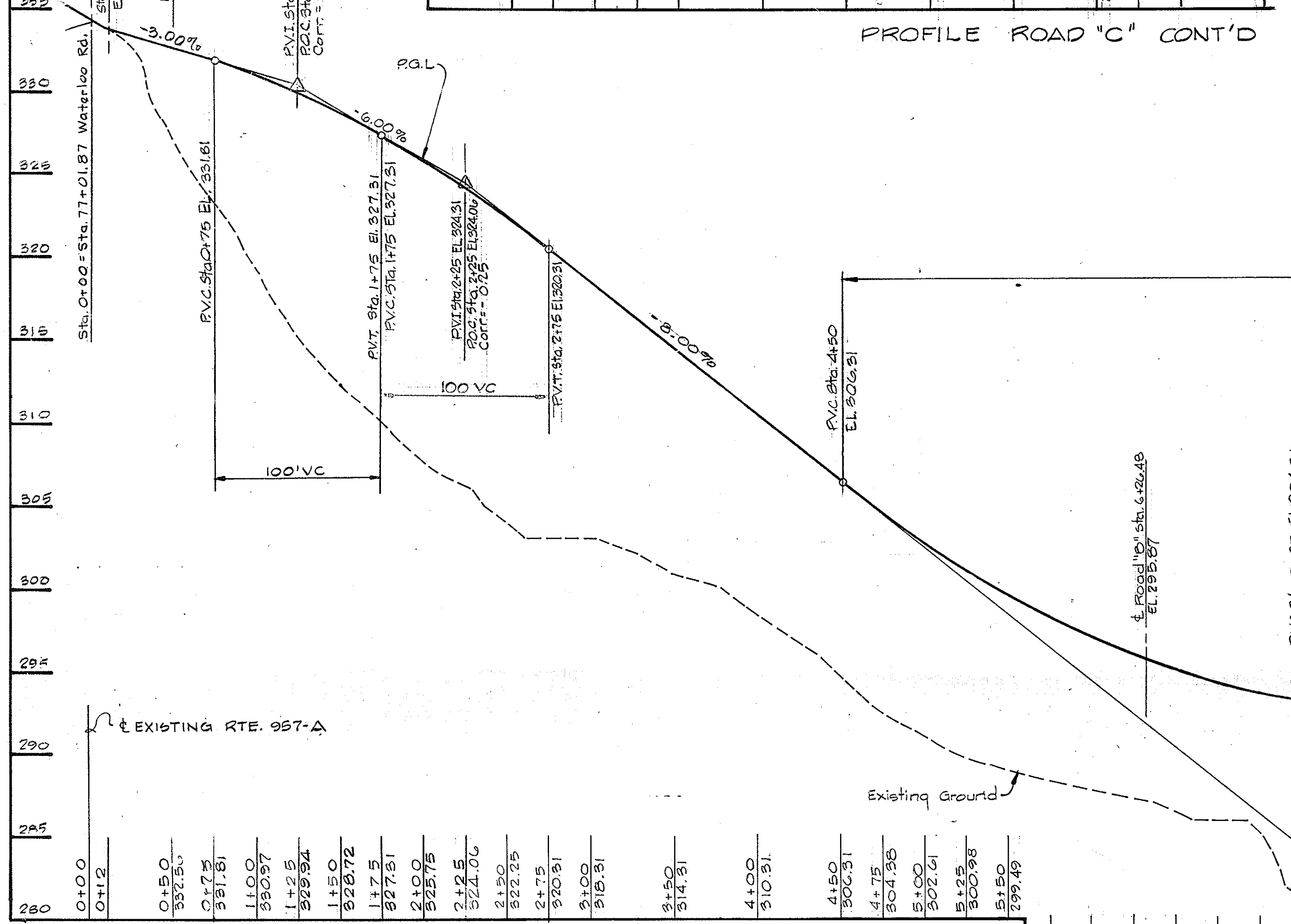
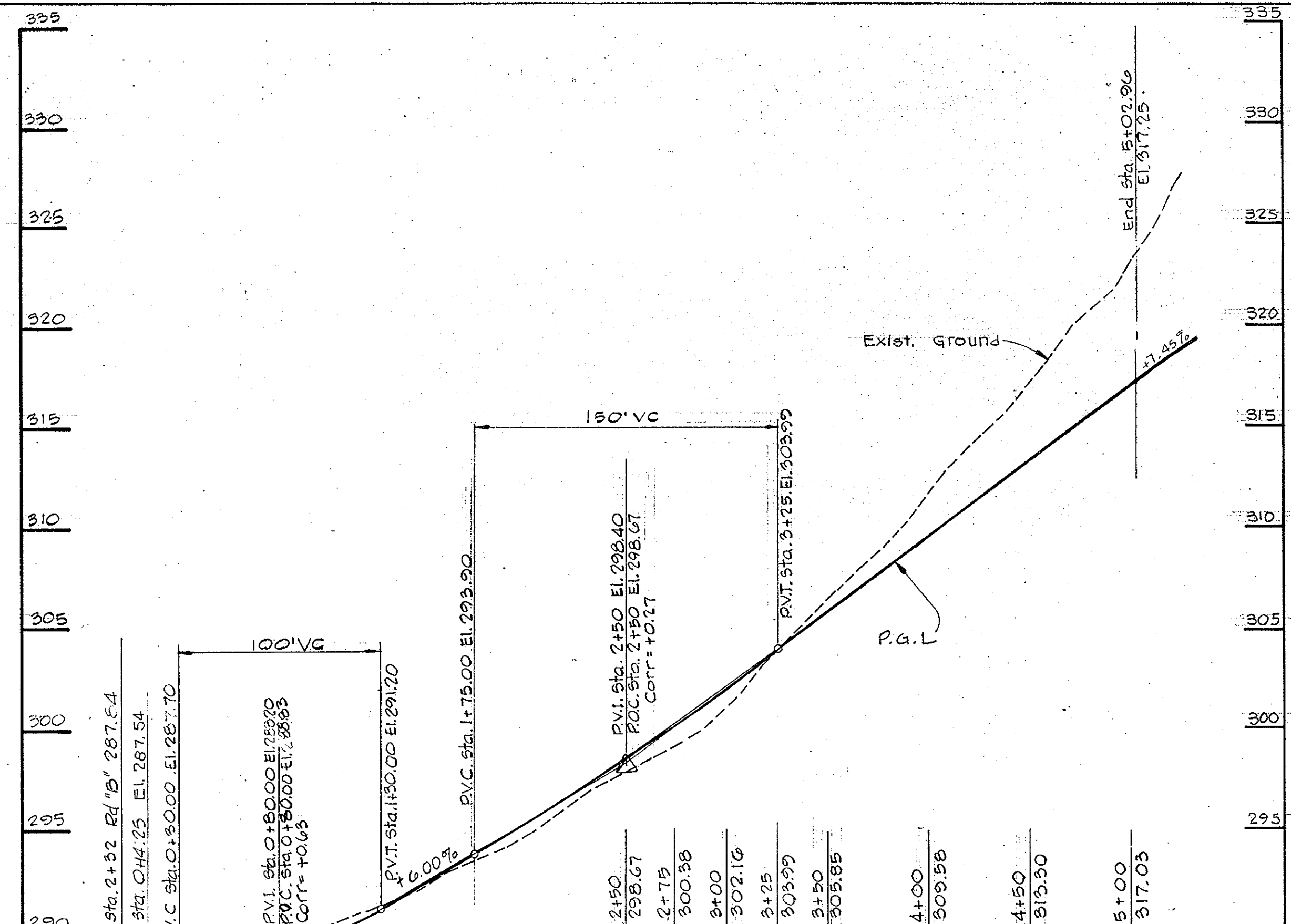
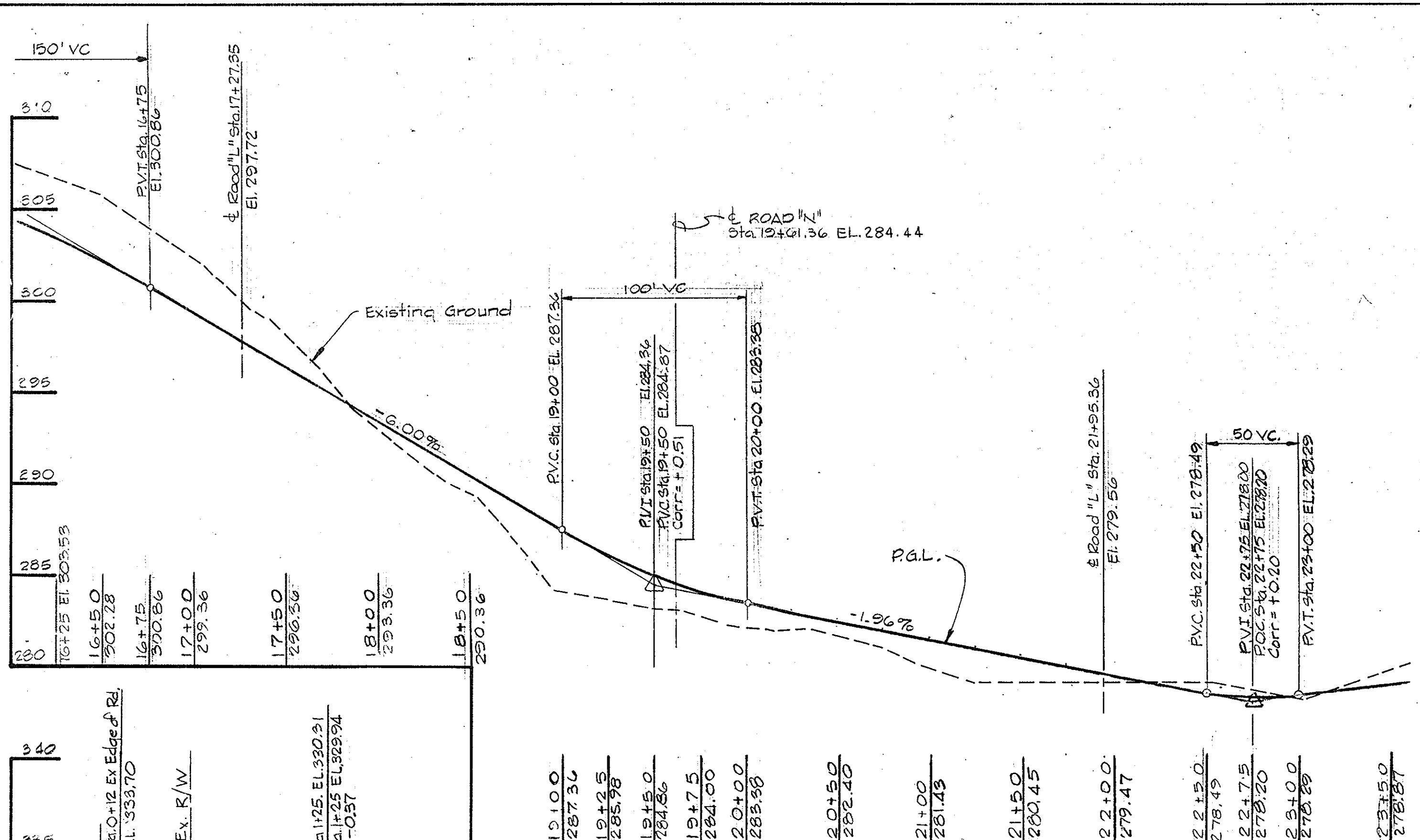
APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING
 Planning Director: *Thomas H. Amick* 8-18-80
 Chief Division of Land Development: *William T. Rowe* 8-18-80
 Approved: *Henry F. Newman* 8-11-80
 Director: *Joseph B. Boyd* 8-11-80
 Chief Bureau of Engineering: *Joseph B. Boyd*

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: *Joseph B. Boyd* SOIL CONSERVATION SERVICE DATE: 8-13-80
 Approved: *Joseph B. Boyd* FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS HOWARD COUNTY HEALTH DEPARTMENT DATE: 8-14-80
 County Health Officer: *Joseph B. Boyd*

APPROVED
 DIVISION OF LAND DEVELOPMENT
 HOWARD COUNTY, MARYLAND
 DATE: 7-8-80
[Signature]

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 DATE: February 27, 1980
 PARCEL 163 SCALE: Hor: 1"=50' OF Vert: 1"=5' 33
 SHEET 5 OF 33



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

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: James M. Welch U.S. SOIL CONSERVATION SERVICE DATE 8-13-80
APPROVED: James M. Welch FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS
James M. Welch HOWARD COUNTY HEALTH DEPARTMENT DATE 8-14-80
James M. Welch COUNTY HEALTH OFFICER

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

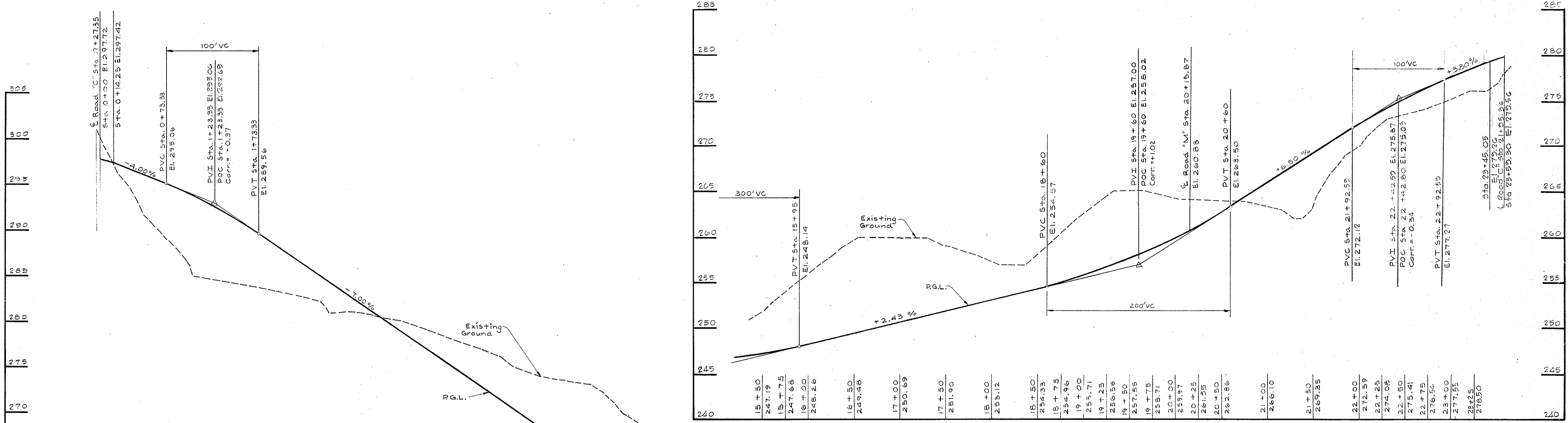
APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING
PLANNING DIRECTOR: James M. Welch DATE 8-13-80
CHIEF DIVISION OF LAND DEVELOPMENT: James M. Welch DATE 8-13-80
APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE AND STORM DRAINAGE SYSTEMS AND ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DIRECTOR: James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

OWNER AND DEVELOPER
DEEP RUN ASSOCIATES
3761 OLD COURT ROAD UNIT #11
BALTIMORE, MARYLAND 21208

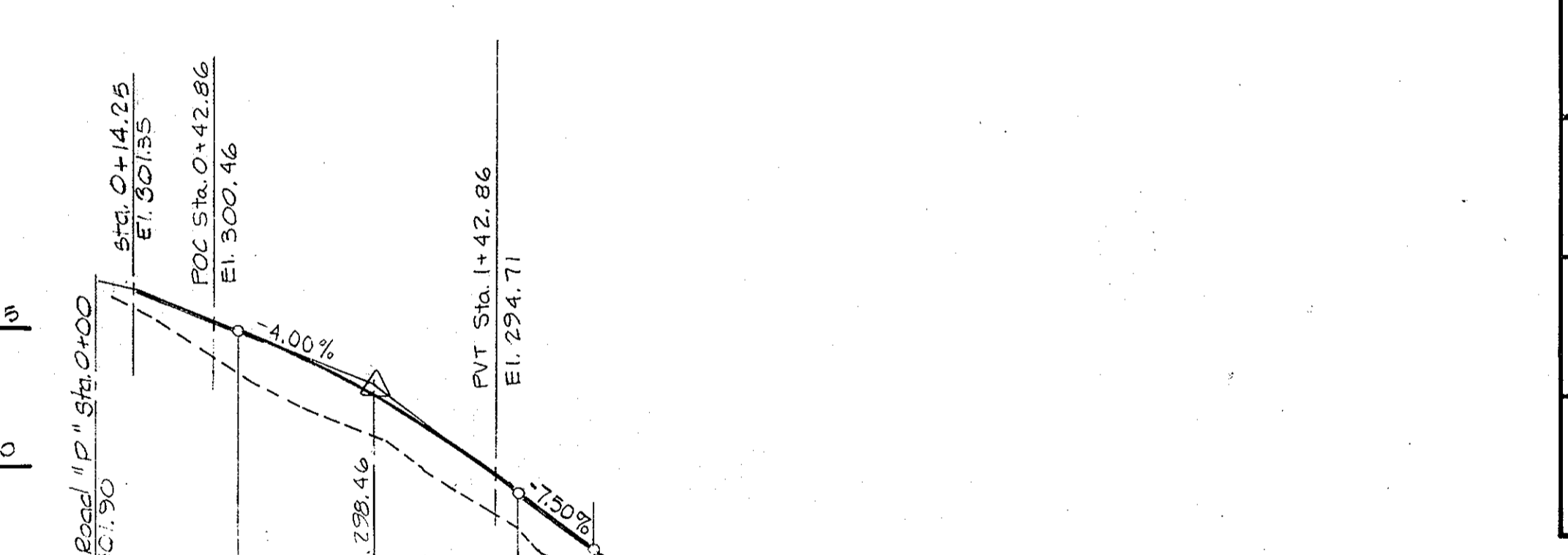
SITE DEVELOPMENT PLAN
DEEP RUN PARK - SECTION I
ROAD PROFILES
FIRST ELECTION DISTRICT OF HOWARD COUNTY, MARYLAND
TAX MAP 37
DATE: February 27, 1980
PARCEL 163
SCALE: Hor. 1"=50'
Vert. 1"=5'
SHEET 6 OF 33

6-11-80

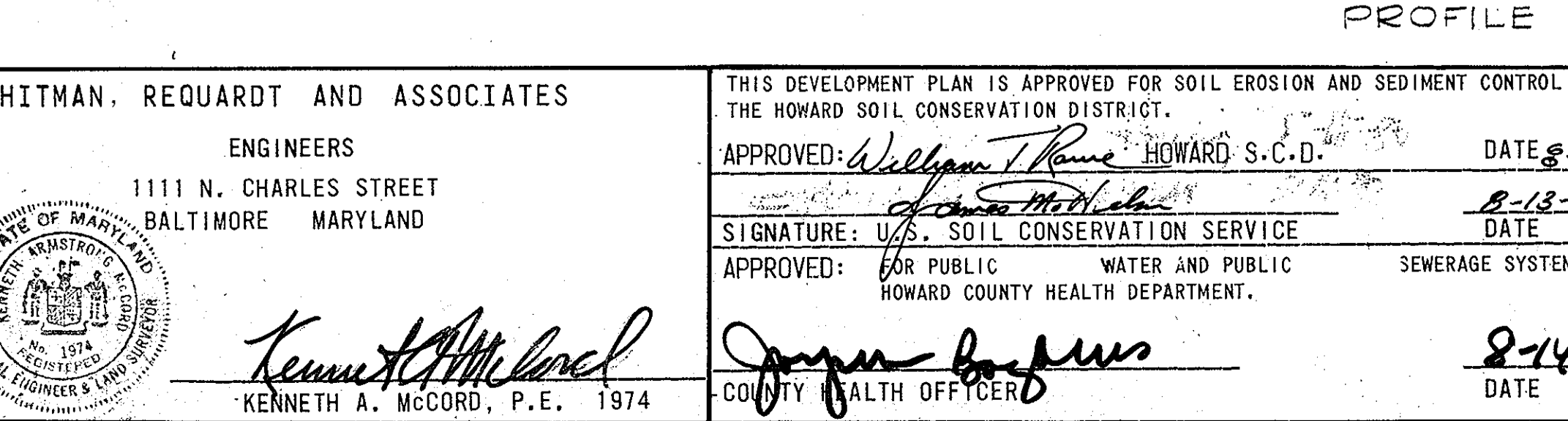
SDP-80-95



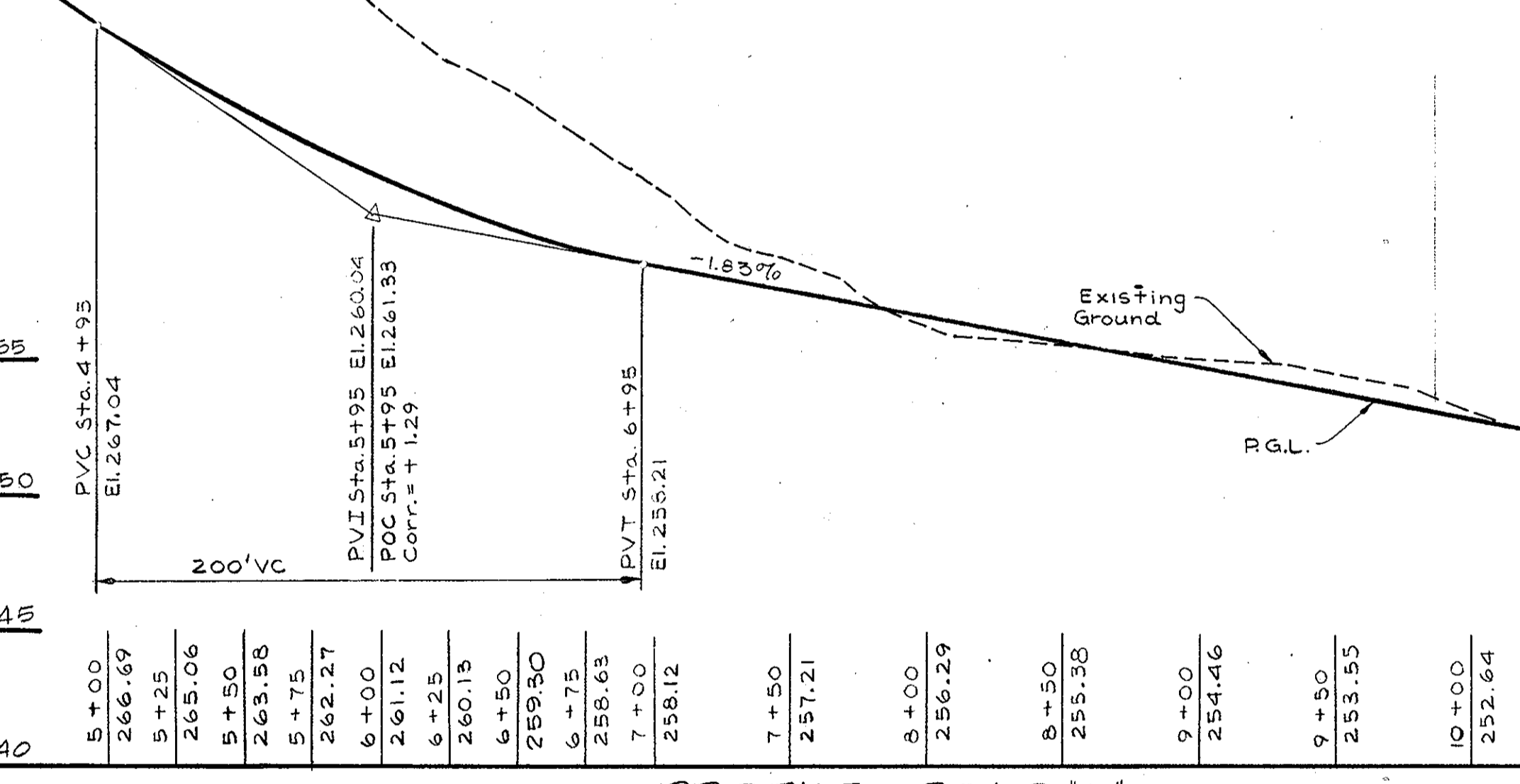
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0+75	294.99
1+00	293.89
1+25	292.59
1+50	291.11
1+75	289.44
2+00	287.69
2+50	284.19
3+00	280.69
3+50	277.19
4+00	273.69
4+50	270.19



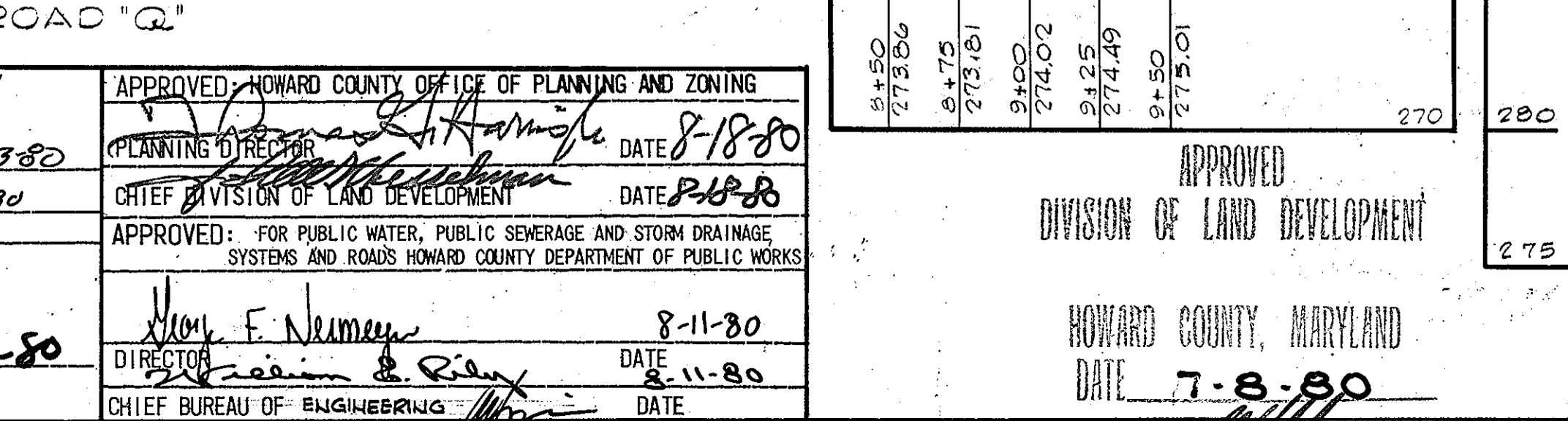
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1+50	266.99
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2+00	267.30
2+25	267.48
2+50	267.64
2+75	267.79
3+00	267.91
3+25	268.02
3+50	268.11
3+75	268.17
4+00	268.24
4+50	268.28
5+00	268.30
5+50	268.31
6+00	268.32
6+25	268.33
6+50	268.34
6+75	268.35
7+00	268.36
7+50	268.37
8+00	268.38
8+25	268.39
8+50	268.40
8+75	268.41
9+00	268.42
9+25	268.43
9+50	268.44
9+75	268.45
10+00	268.46
10+25	268.47
10+50	268.48
10+75	268.49
11+00	268.50
11+25	268.51
11+50	268.52
11+75	268.53
12+00	268.54
12+25	268.55
12+50	268.56
12+75	268.57
13+00	268.58
13+25	268.59
13+50	268.60
13+75	268.61
14+00	268.62
14+25	268.63
14+50	268.64



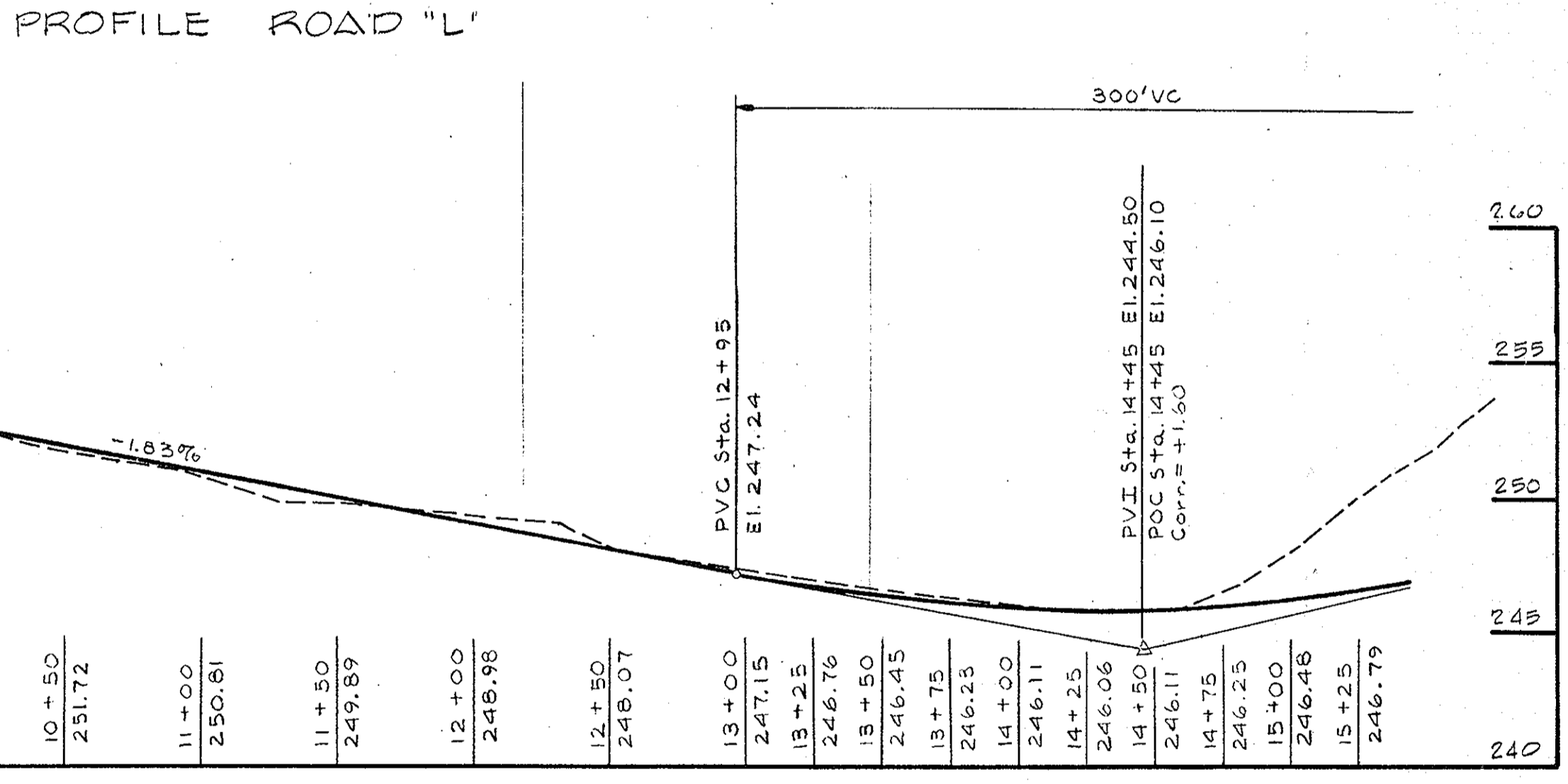
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0+50	276.50
0+75	277.50
1+00	278.50
1+25	279.50
1+50	280.50
1+75	281.50
2+00	282.50
2+25	283.50
2+50	284.50
2+75	285.50
3+00	286.50
3+25	287.50
3+50	288.50
3+75	289.50
4+00	290.50
4+25	291.50
4+50	292.50



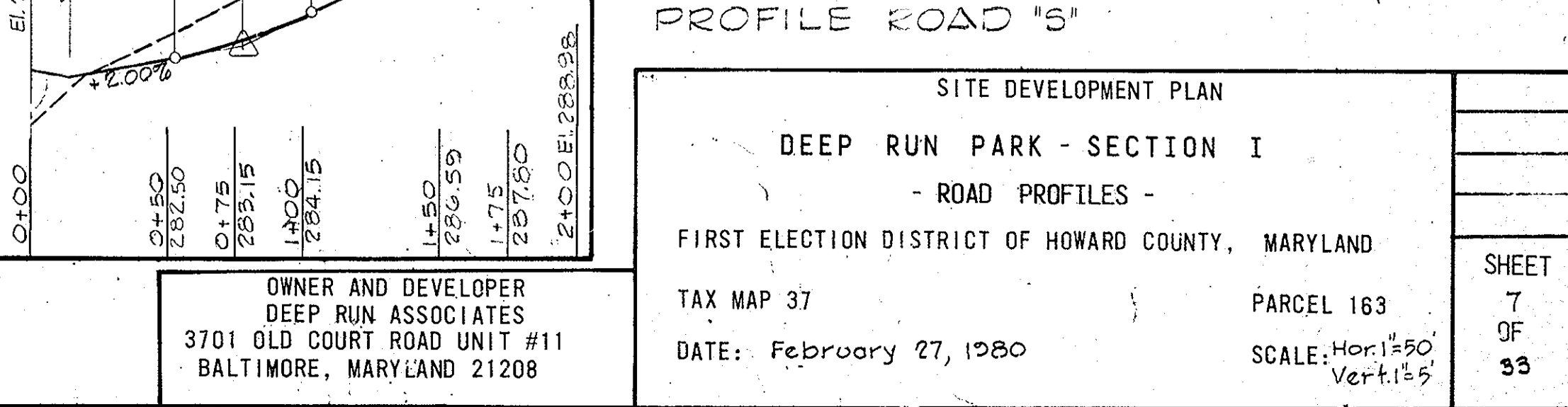
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16+50	249.48
17+00	250.69
17+50	251.90
18+00	253.12
18+50	254.33
19+00	255.54
19+25	256.75
19+50	257.96
19+75	259.17
20+00	260.38
20+25	261.59
20+50	262.80
20+75	264.01
21+00	265.22
21+25	266.43
21+50	267.64
21+75	268.85
22+00	270.06
22+25	271.27
22+50	272.48
22+75	273.69
23+00	274.90
23+25	276.11
23+50	277.32



15+50	275.00
16+00	276.50
16+50	277.50
17+00	278.50
17+50	279.50
18+00	280.50
18+50	281.50
19+00	282.50
19+25	283.50
19+50	284.50
19+75	285.50
20+00	286.50
20+25	287.50
20+50	288.50
20+75	289.50
21+00	290.50
21+25	291.50
21+50	292.50
21+75	293.50
22+00	294.50
22+25	295.50
22+50	296.50
22+75	297.50
23+00	298.50
23+25	299.50
23+50	300.50



24+00	247.19
24+50	248.26
25+00	249.48
25+50	250.69
26+00	251.90
26+50	253.12
27+00	254.33
27+25	255.54
27+50	256.75
27+75	257.96
28+00	259.17
28+25	260.38
28+50	261.59
28+75	262.80
29+00	264.01
29+25	265.22
29+50	266.43
29+75	267.64
30+00	268.85
30+25	270.06
30+50	271.27
30+75	272.48
31+00	273.69
31+25	274.90
31+50	276.11
31+75	277.32
32+00	278.53
32+25	279.74
32+50	280.95



24+00	275.00
24+50	276.50
25+00	277.50
25+50	278.50
26+00	279.50
26+50	280.50
27+00	281.50
27+25	282.50
27+50	283.50
27+75	284.50
28+00	285.50
28+25	286.50
28+50	287.50
28+75	288.50
29+00	289.50
29+25	290.50
29+50	291.50
29+75	292.50
30+00	293.50
30+25	294.50
30+50	295.50
30+75	296.50
31+00	297.50
31+25	298.50
31+50	299.50
31+75	300.50
32+00	301.50
32+25	302.50
32+50	303.50

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

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 J. Rouse* 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. DATE 8-14-80

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING

PLANNING DIRECTOR: *William J. Rouse* DATE 8-18-80

CHIEF DIVISION OF LAND DEVELOPMENT: *William J. Rouse* DATE 8-18-80

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

DIRECTOR: *William J. Rouse* DATE 8-11-80

CHIEF BUREAU OF ENGINEERING: *William J. Rouse* DATE 8-11-80

APPROVED: DIVISION OF LAND DEVELOPMENT

HOWARD COUNTY, MARYLAND

DATE: 7-8-80

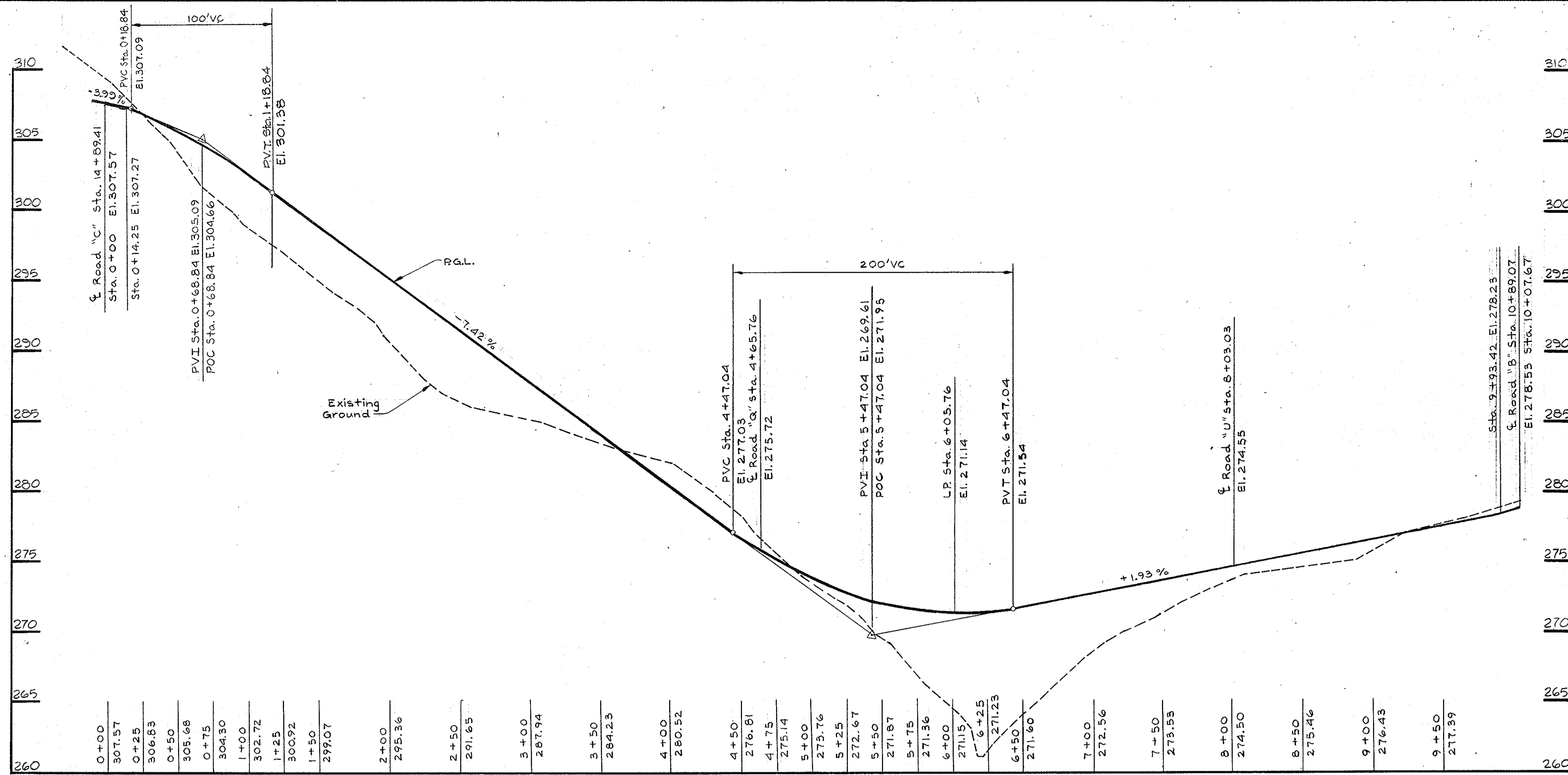
OWNER AND DEVELOPER
 DEEP RUN ASSOCIATES
 3701 OLD COURT ROAD UNIT #11
 BALTIMORE, MARYLAND 21208

SITE DEVELOPMENT PLAN
 DEEP RUN PARK - SECTION I
 - ROAD PROFILES -
 FIRST ELECTION DISTRICT OF HOWARD COUNTY, MARYLAND

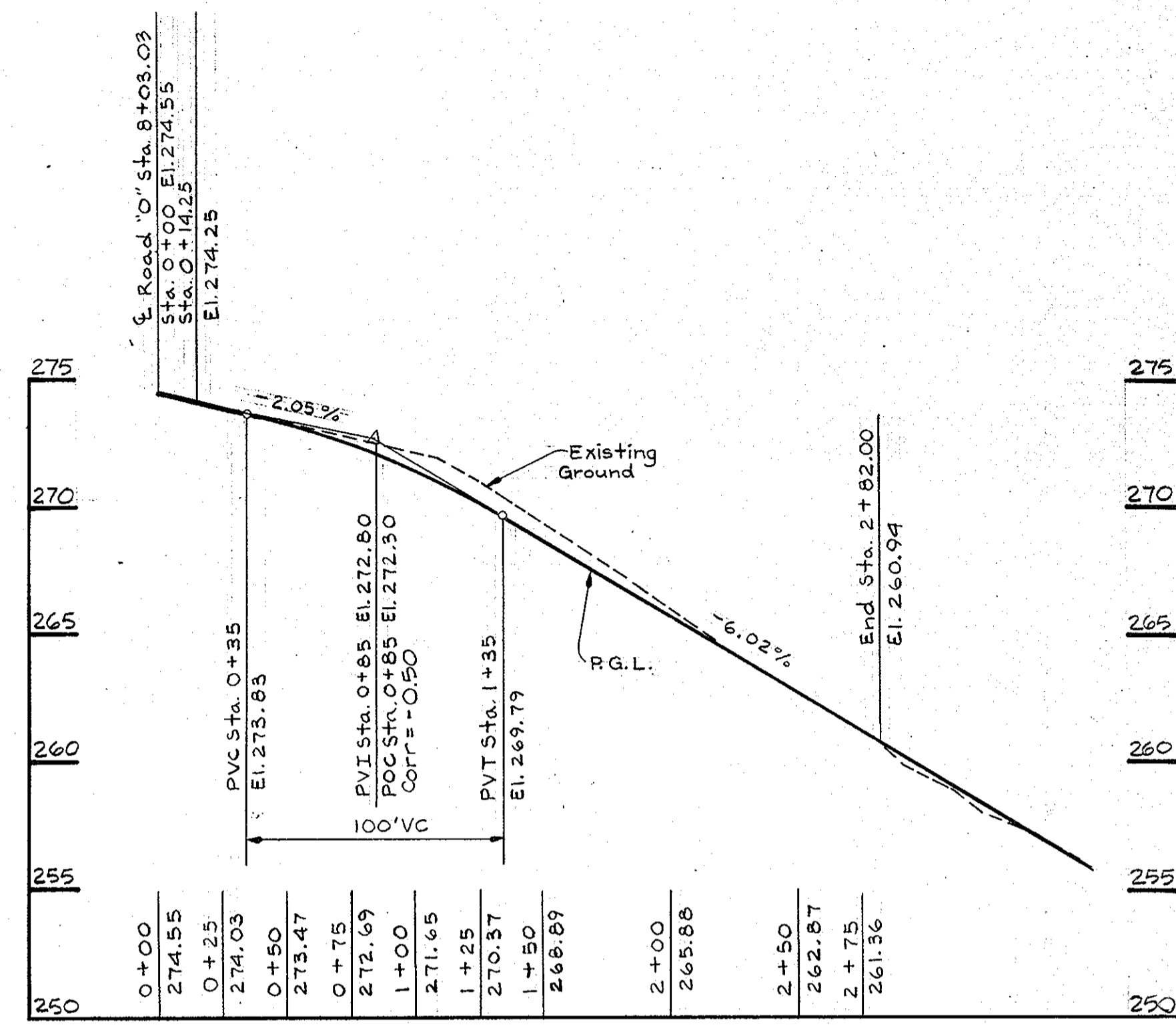
TAX MAP 37
 DATE: February 27, 1980

PARCEL 163
 SCALE: Hor: 1"=50'
 Vert: 1"=5'

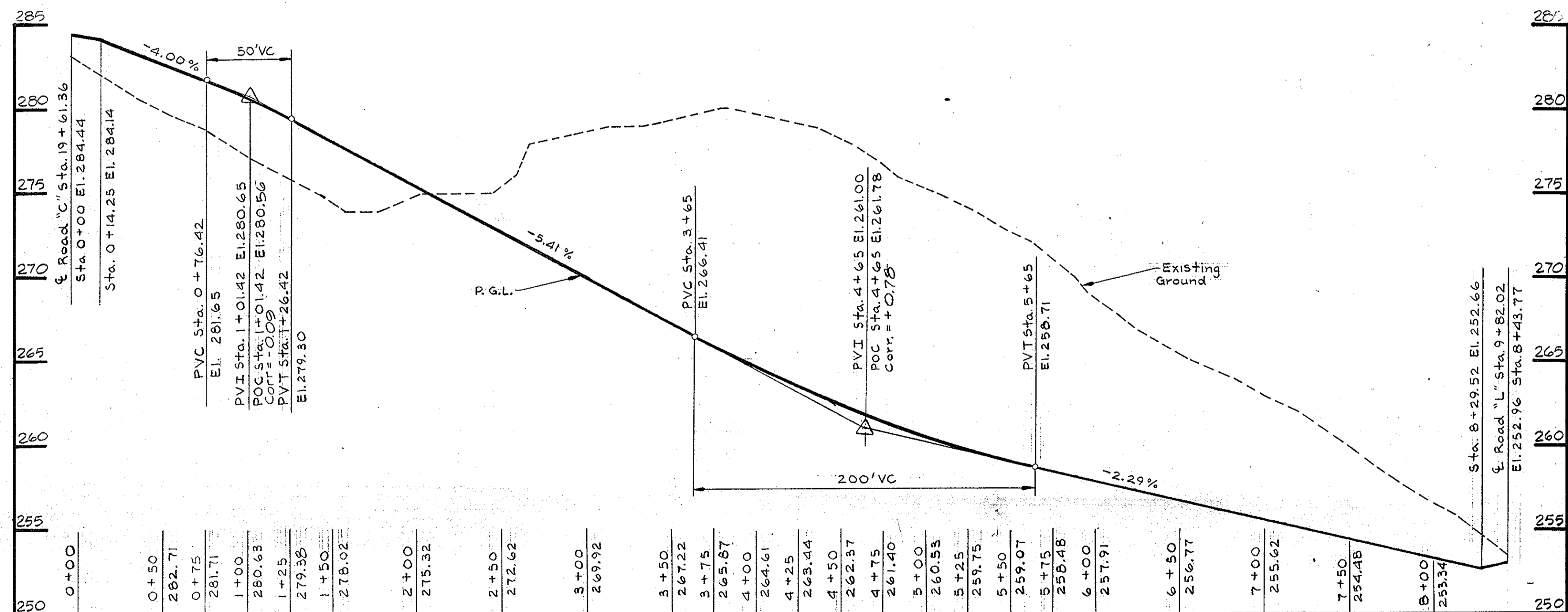
SHEET 7 OF 33



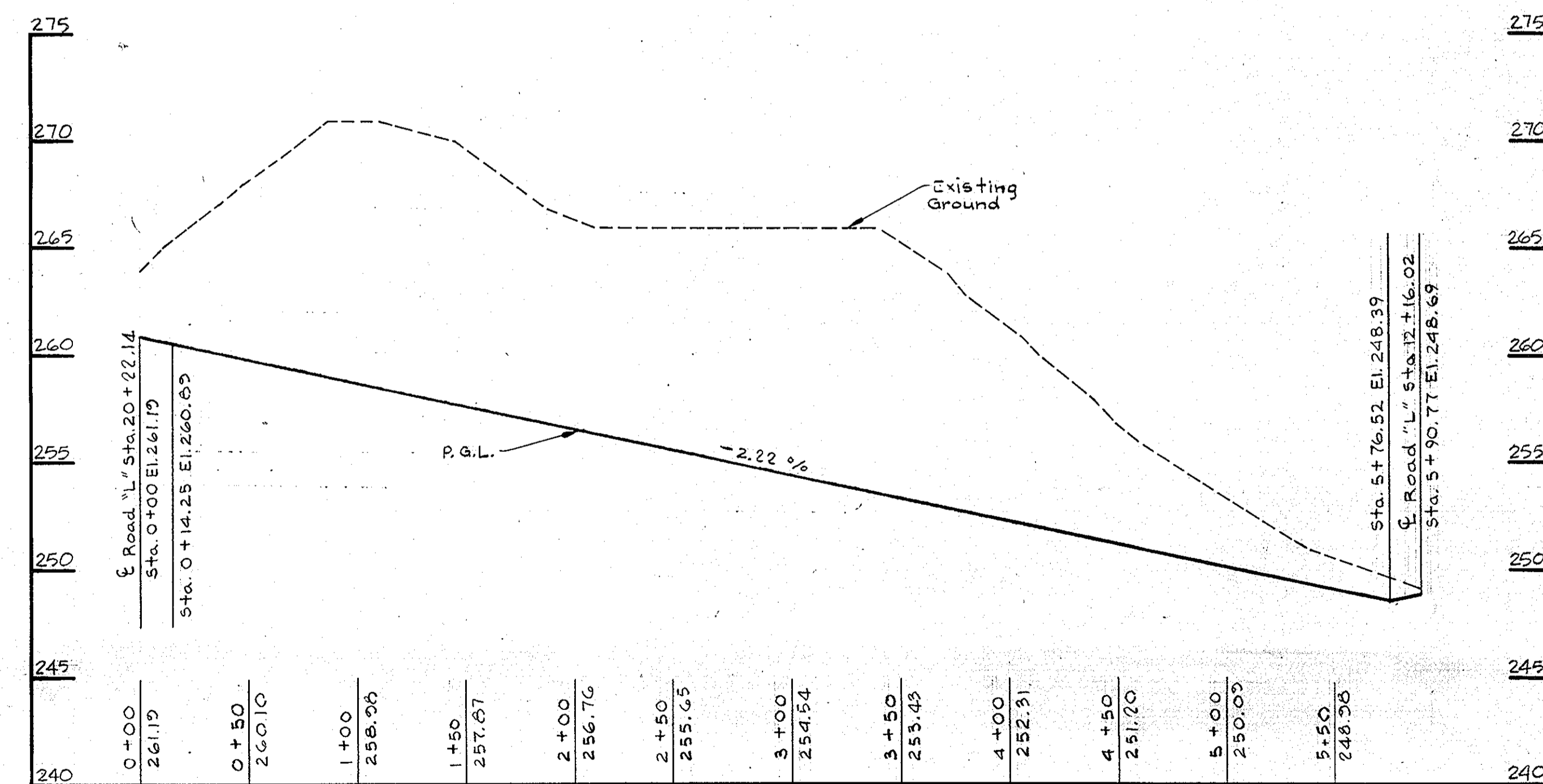
PROFILE ROAD "C"



PROFILE ROAD "U"



PROFILE ROAD "N"



PROFILE ROAD "M"

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: *Thomas J. Henrich* 8-18-80
DATE: 8-18-80
CHIEF, DIVISION OF LAND DEVELOPMENT

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

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: *James M. White* DATE: 8-13-80
S.S. SOIL CONSERVATION SERVICE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS HOWARD COUNTY HEALTH DEPARTMENT.
DIRECTOR: *James M. White* DATE: 8-14-80
CHIEF, HEALTH OFFICE

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

SITE DEVELOPMENT PLAN
DEEP RUN PARK - SECTION I
ROAD PROFILES

FIRST ELECTION DISTRICT OF HOWARD COUNTY, MARYLAND
TAX MAP 37
DATE: February 27, 1980

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

PARCEL 163
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)
1	6092	53	4627	105	4590
2	6629	54	4802	106	4590
3	6171	55	5028	107	4795
4	5396	56	5022	108	4536
5	5077	57	5022	109	4683
6	4965	58	4811	110	4683
7	4852	59	4555	111	4824
8	4710	60	4507	112	4707
9	4467	61	4460	113	4707
10	4504	62	4515	114	4718
11	4590	63	4437	115	5467
12	4590	64	4478	116	4590
13	4590	65	4525	117	4477
14	4590	66	4572	118	5189
15	4776	67	4836	119	4510
16	4728	68	5022	120	5593
17	4591	69	5023	121	5000
18	4590	70	5022	122	5104
19	4590	71	4767	123	4741
20	4569	72	4590	124	4652
21	4590	73	4590	125	4643
22	4590	74	4605	126	4752
23	5320	75	4507	127	4425
24	5208	76	4710	128	4417
25	4590	77	4770	129	4398
26	4590	78	4917	130	4494
27	4590	79	5561	131	4590
28	4590	80	6114	132	4590
29	4504	81	8389	133	4590
30	4504	82	4736	134	4524
31	4590	83	4652	135	4961
32	4590	84	4546	136	4797
33	4590	85	4372	137	4791
34	4590	86	4337	138	4548
35	4722	87	4251	139	4514
36	4640	88	4590	140	4510
37	4590	89	4590	141	4514
38	4590	90	4639	142	4858
39	4590	91	4691	143	6125
40	4562	92	4708	144	5015
41	4583	93	4758	145	4753
42	4583	94	4725	146	4753
43	4582	95	4639	147	4753
44	4650	96	4590	148	5968
45	4590	97	4590	149	5257
46	4590	98	4590	150	4590
47	4590	99	4590	151	4590
48	4590	100	4590	152	5461
49	5014	101	4590	153	5480
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51	5003	103	4590	155	4729
52	4636	104	4590	156	4683

CERTIFICATION

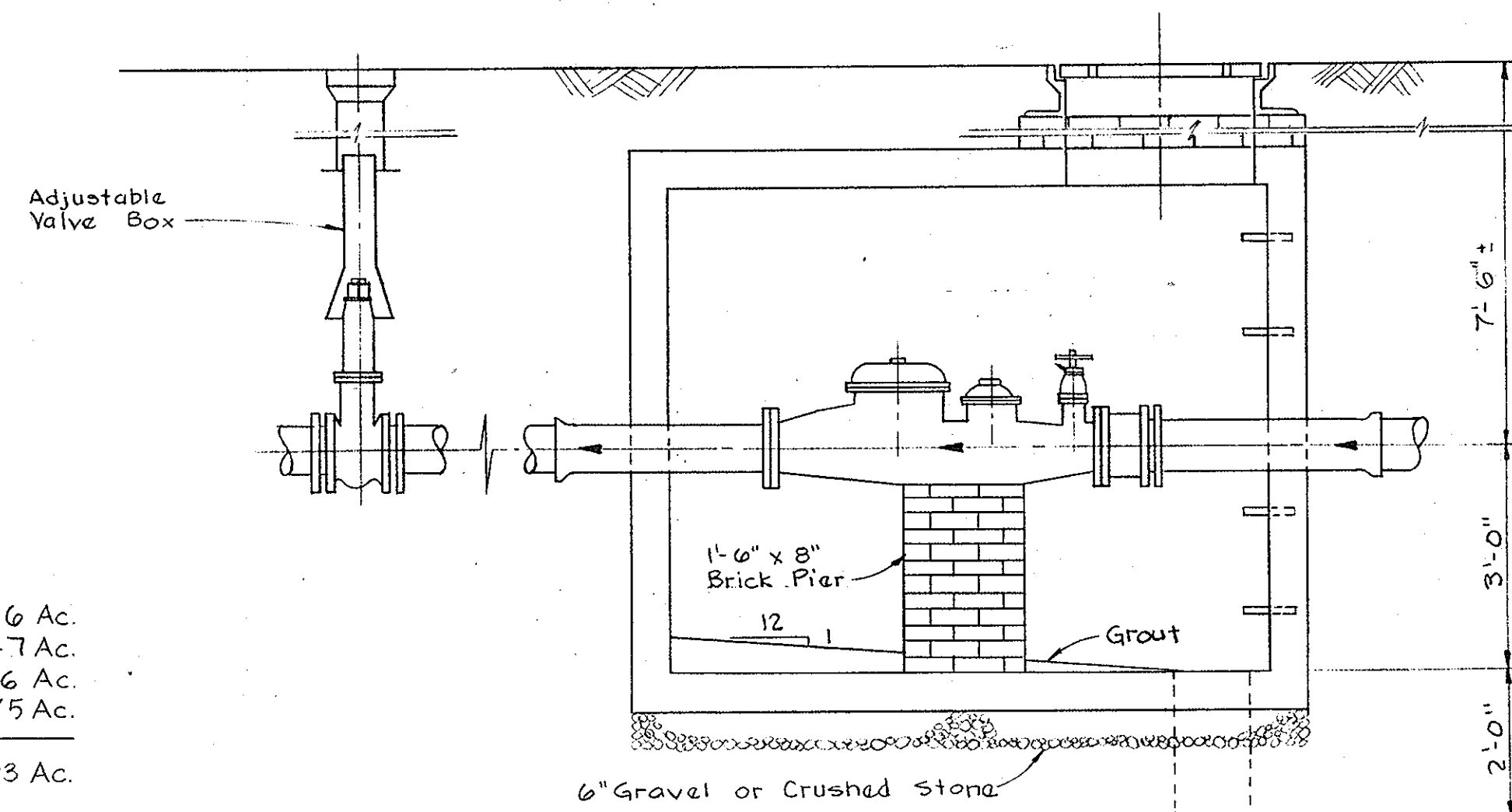
I certify that all lots and mobile home locations for Deep Run Park Section I meet the Howard County Zoning Regulations III, C.2.b and III, C.2.c. These requirements include:

- 4000 SF. minimum lot size
- 45' average width of lot at mobile home location
- Building/Mobile Home Setbacks
 - 100' from principal arterial ROW.
 - 50' from other external public R.O.W.
 - 5' from internal public R.O.W.
 - 30' from E of interior private street
 - 5' from side lot line
 - 10' from rear lot line
 - 50' from differently zoned district
 - 20' from another building/mobile home
- 20% open space

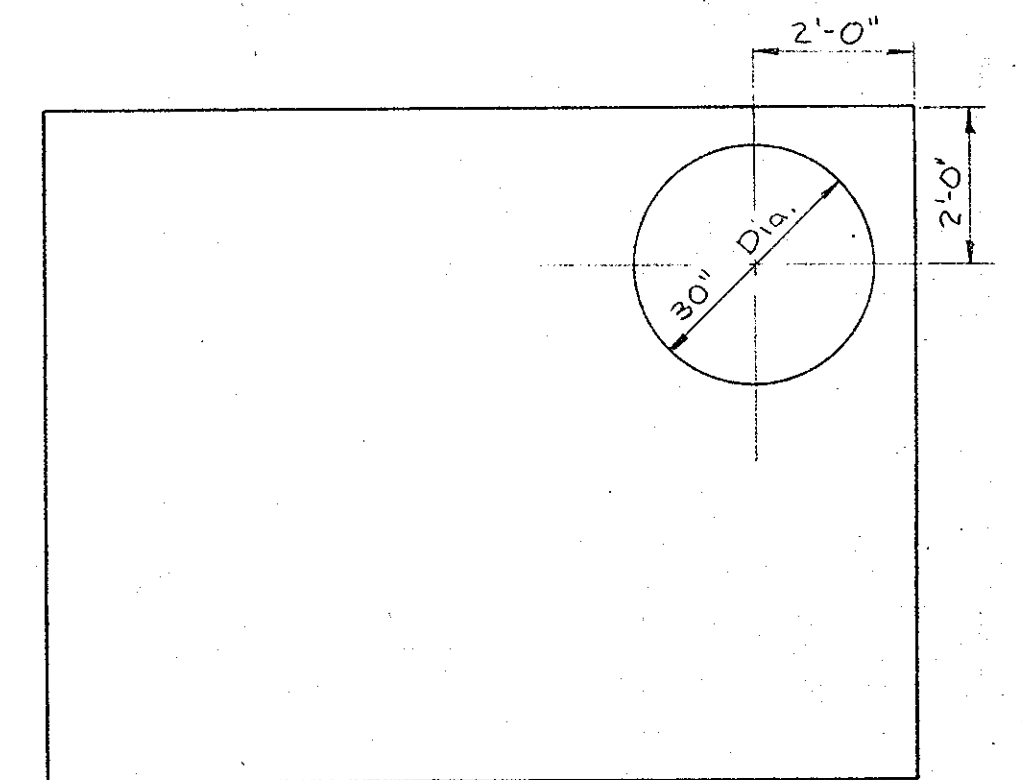
Kenneth A. McCord
KENNETH A. MCCORD
2/27/80
DATE

AREA TABULATION

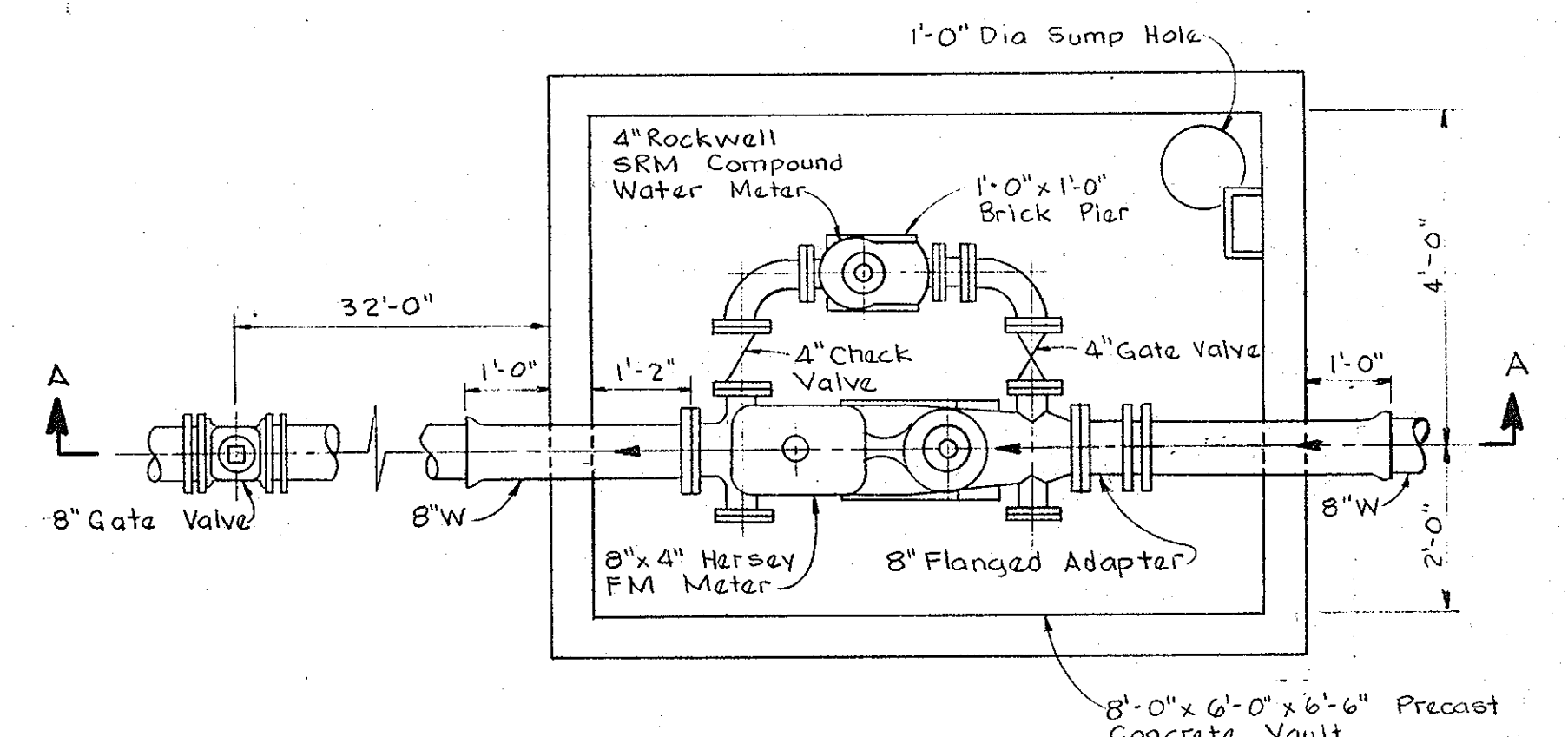
- Lot Area, Including Tot Lots - 33,926 Ac.
- Open Space Area - 11,947 Ac.
- Road Area - 8,476 Ac.
- Pool and Office - 1,475 Ac.
- Total - 55,823 Ac.



SECTION A-A



TOP VIEW



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 *James A. Smith* 8-18-80
DATE 8-18-80
CHIEF, DIVISION OF LAND DEVELOPMENT *James A. Smith*
DATE 8-18-80

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

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

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

SIGNATURE *James E. Neuman* U.S. SOIL CONSERVATION SERVICE DATE: 8-11-80

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS
HOWARD COUNTY HEALTH DEPARTMENT
COUNTY HEALTH OFFICER *James E. Neuman* DATE: 8-14-80

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

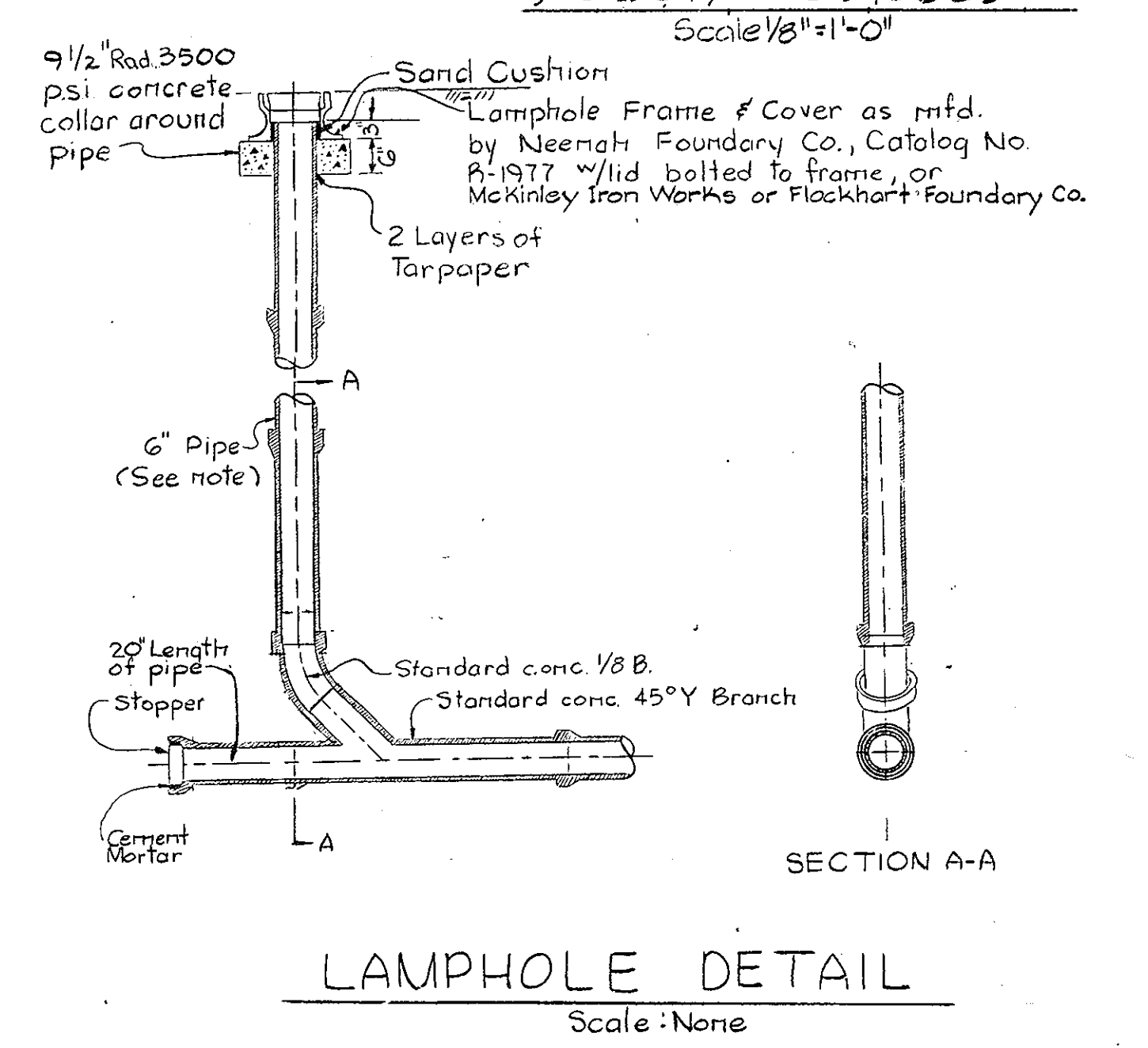
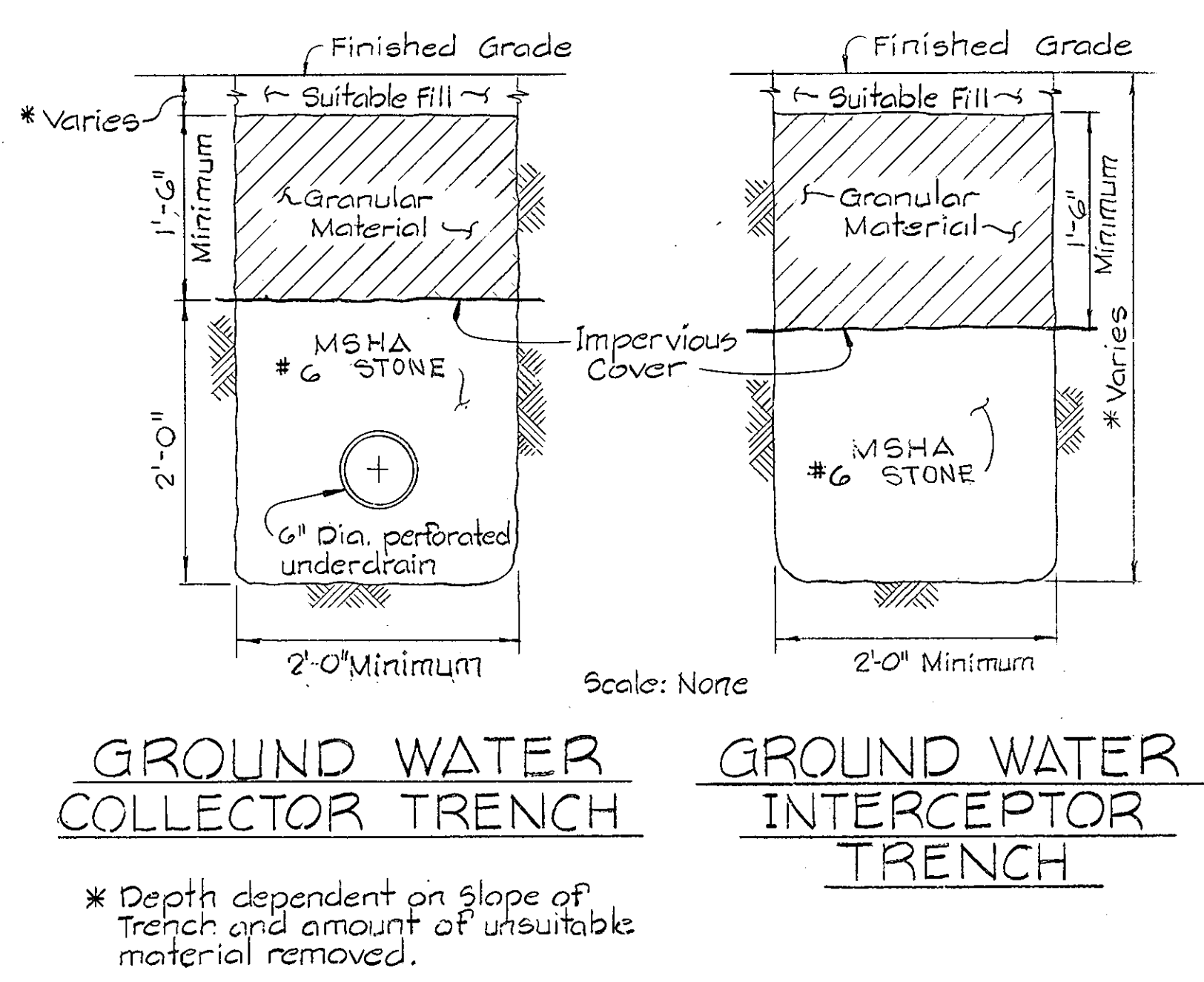
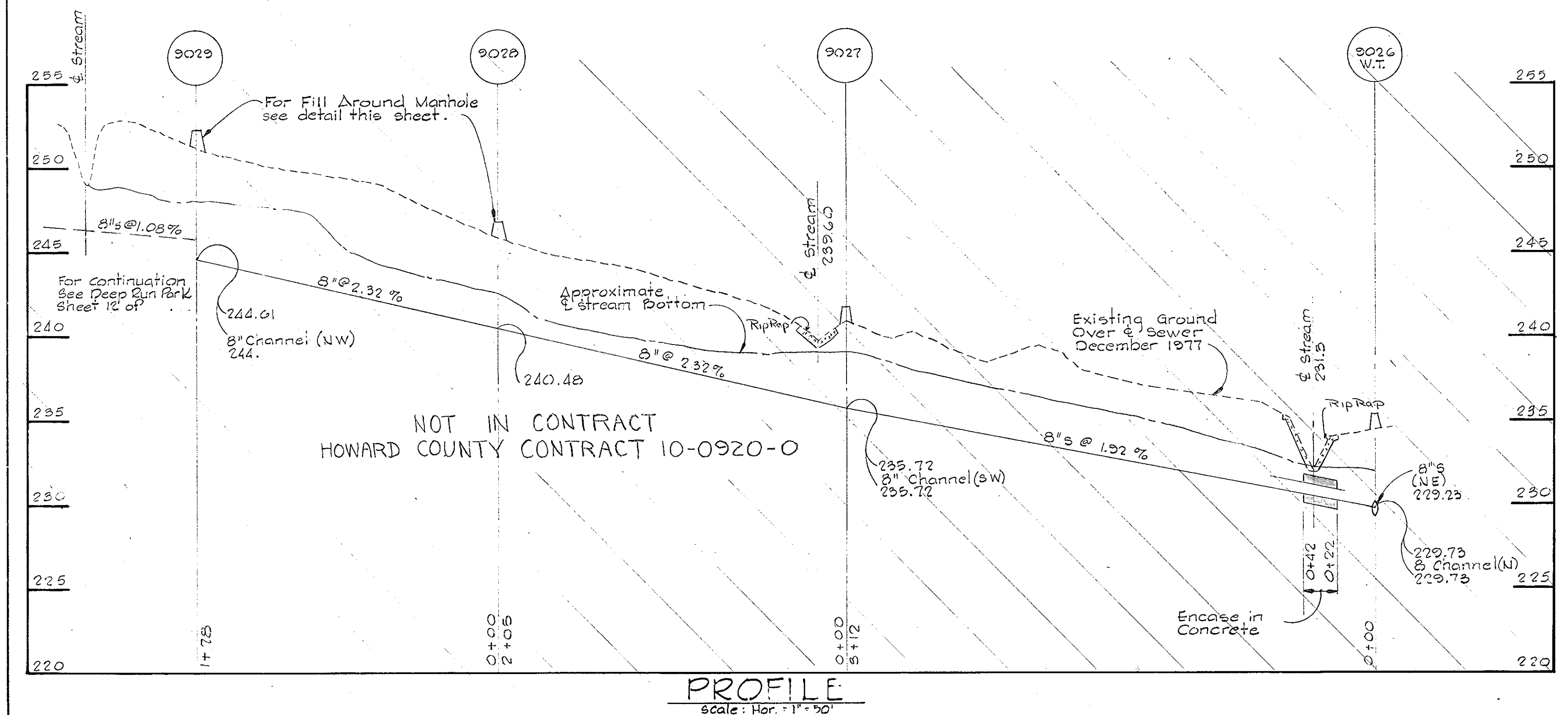
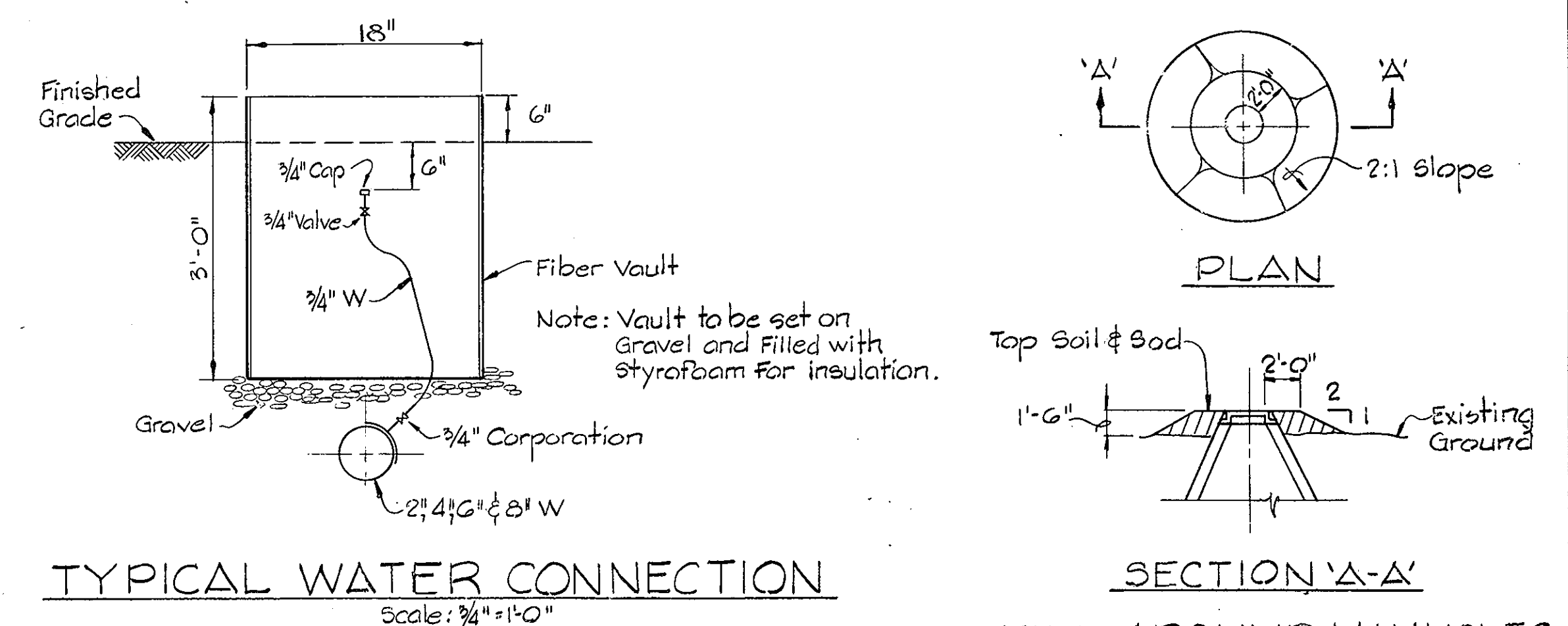
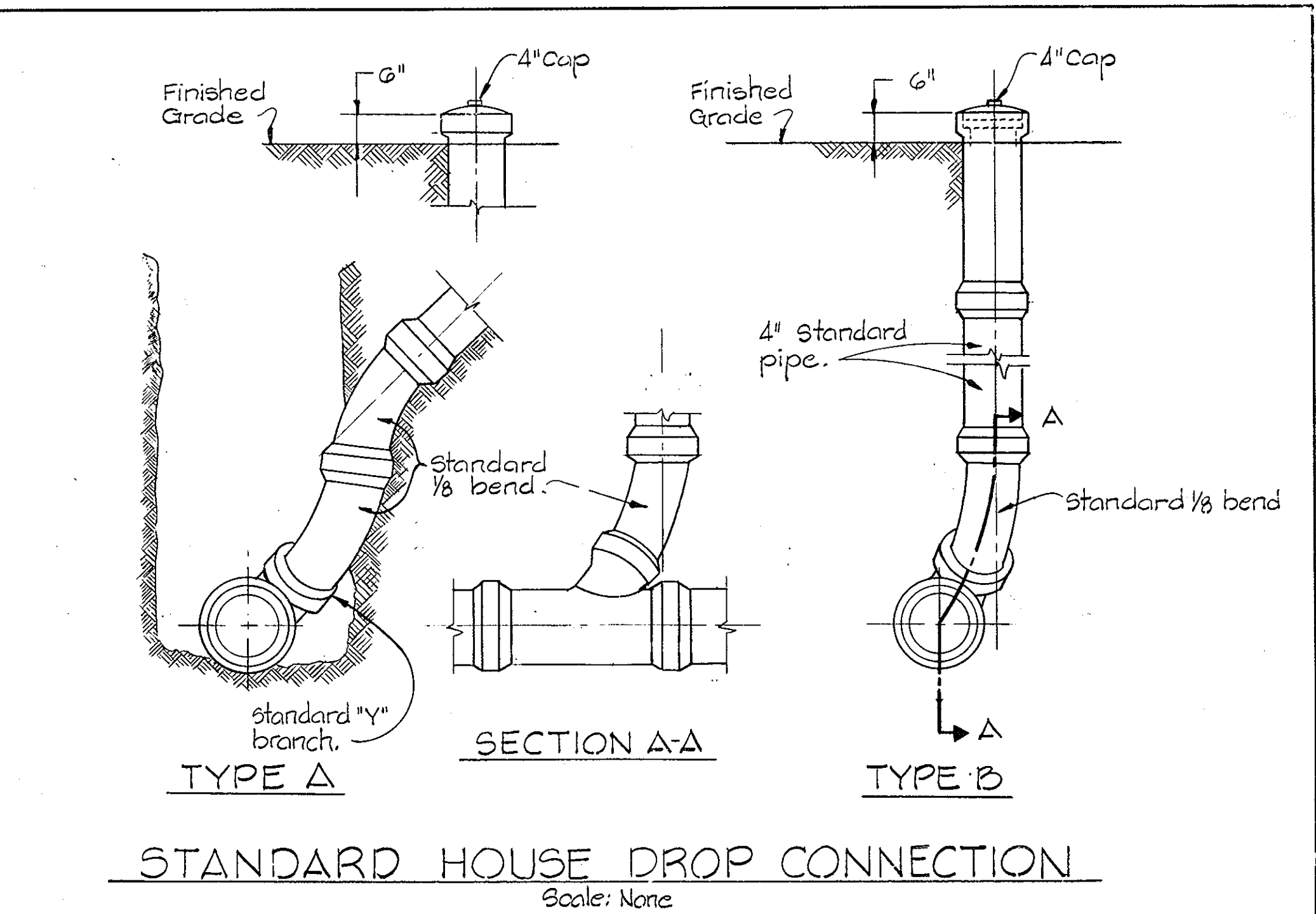
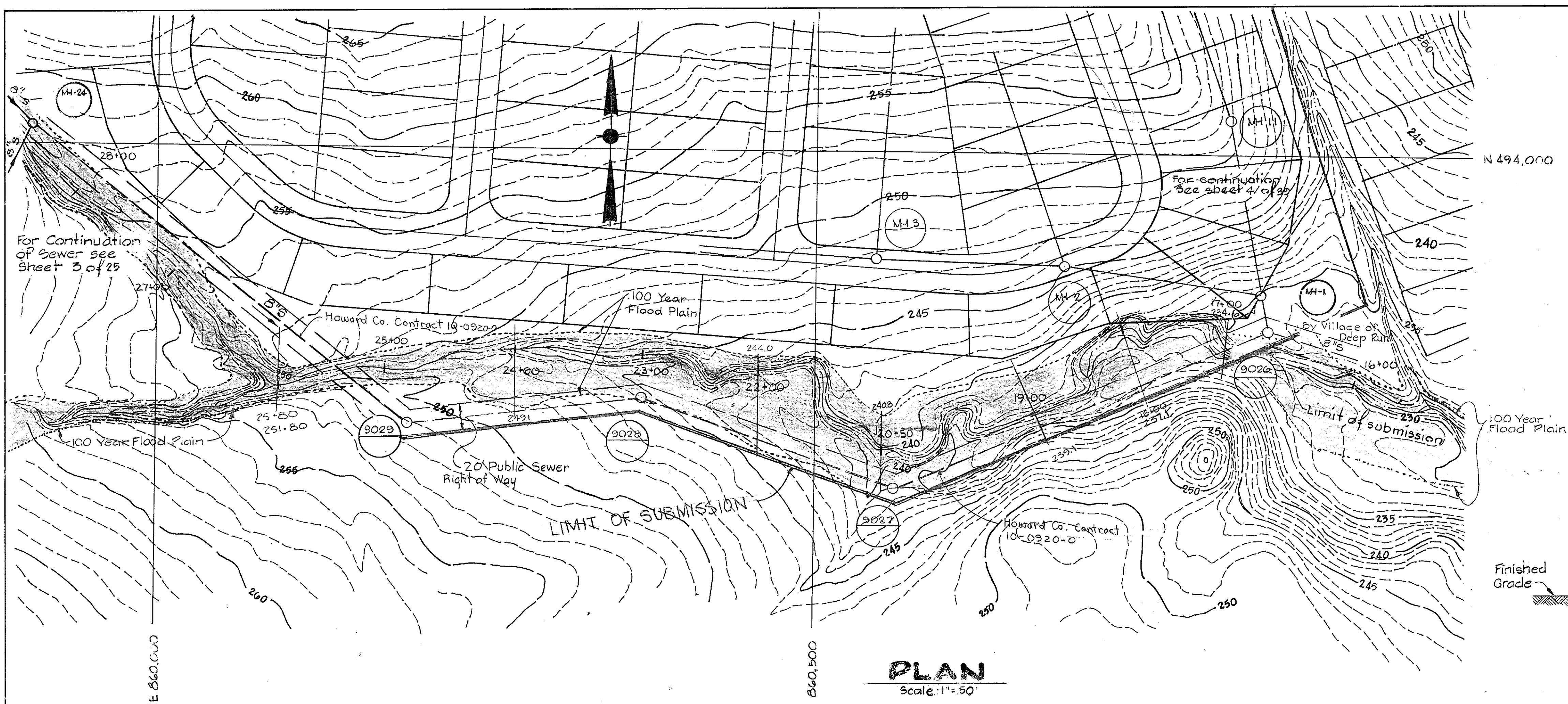
OWNER AND DEVELOPER
DEEP RUN ASSOCIATES
3701 OLD COURT ROAD UNIT #11
BALTIMORE, MARYLAND 21208

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



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

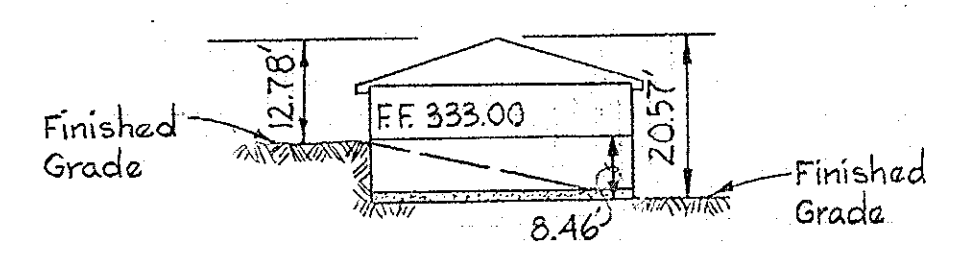
APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING
PLANNING DIRECTOR: *Thomas J. Harris* 8-18-80
DATE: 8-18-80
CHIEF DIVISION OF LAND DEVELOPMENT: *William T. Lane* 8-13-80
DATE: 8-13-80
APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE AND STORM DRAINAGE SYSTEMS AND ROADS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DIRECTOR: *James F. Neumann* 8-11-80
DATE: 8-11-80
CHIEF, BUREAU OF ENGINEERING: *James F. Neumann* 8-11-80
DATE: 8-11-80

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
APPROVED: *William T. Lane* HOWARD S.C.D. DATE: 8-13-80
SIGNATURE: *James F. Neumann* DATE: 8-13-80
APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS
HOWARD COUNTY HEALTH DEPARTMENT.
SIGNATURE: *James F. Neumann* DATE: 8-14-80
DATE: 8-14-80

APPROVED
DIVISION OF LAND DEVELOPMENT
DATE: 7-8-80

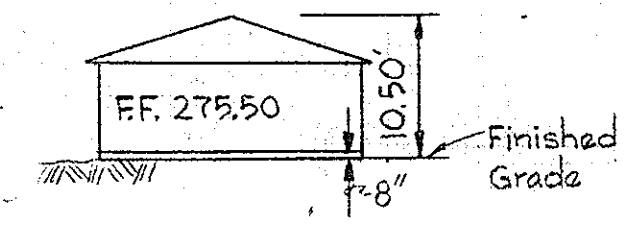
OWNER AND DEVELOPER
DEEP RUN ASSOCIATES
3701 OLD COURT ROAD UNIT #11
BALTIMORE, MARYLAND 21208

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



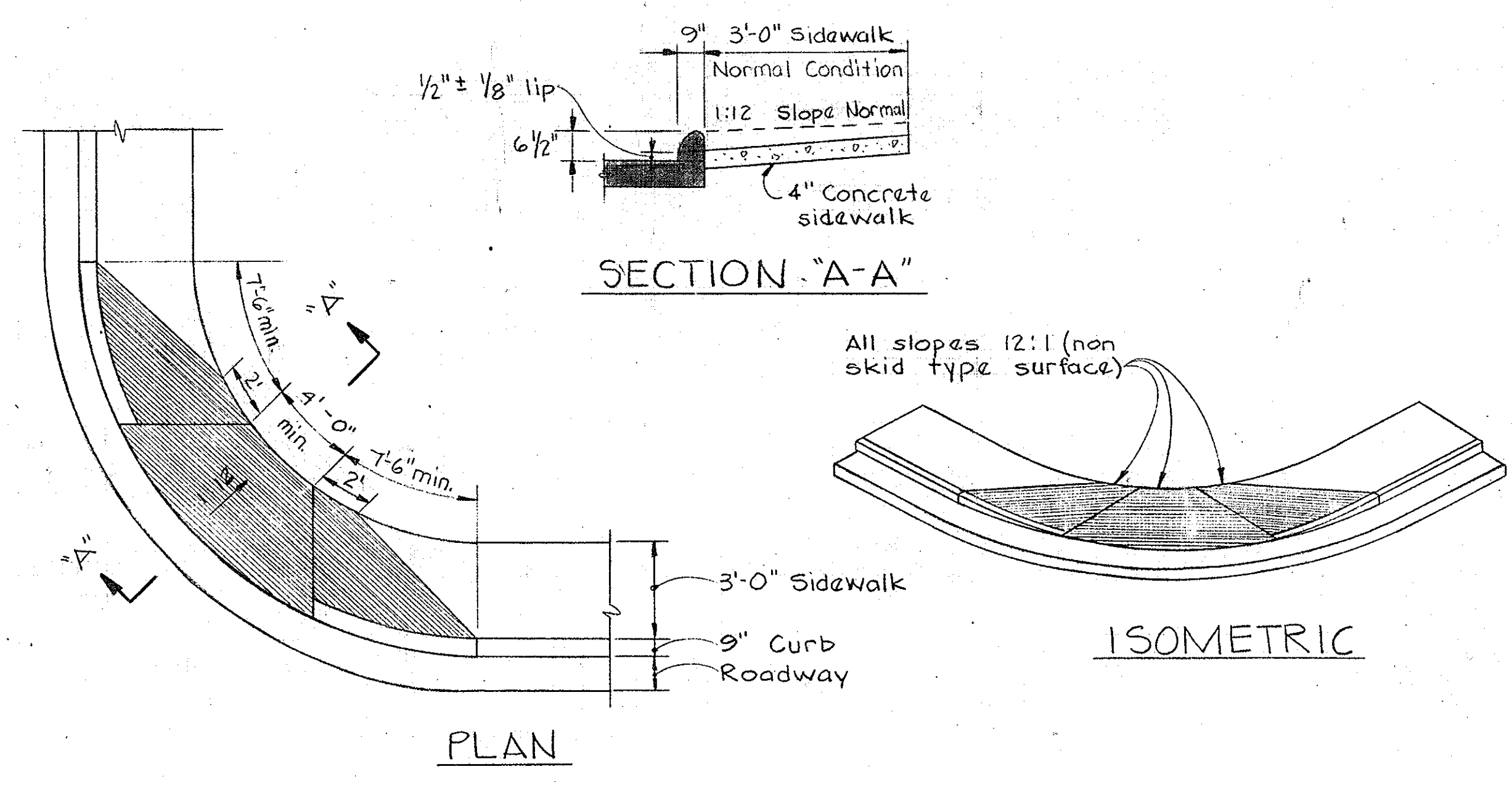
For Plan Layout See Sheet 37 of 41

CROSS SECTION OFFICE BUILDING Not To Scale



For Plan Layout See Sheet 35 of 41

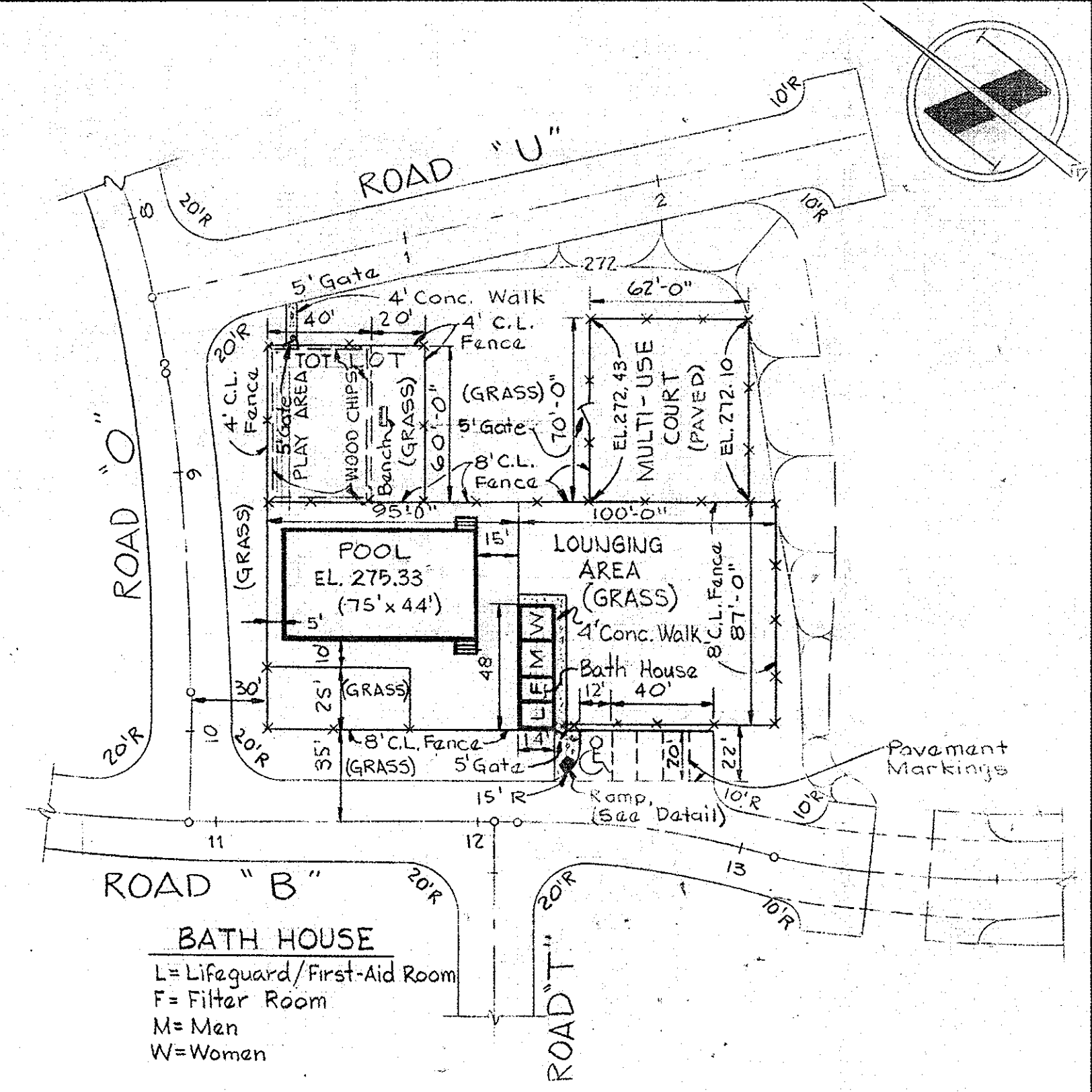
CROSS SECTION BATH HOUSE Not To Scale



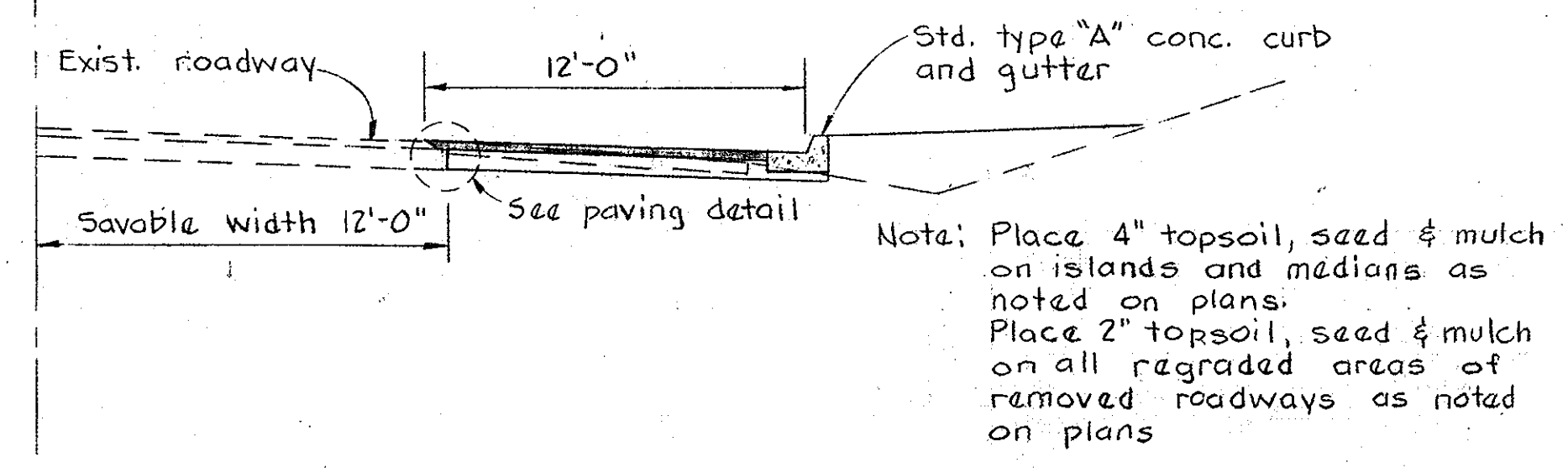
SECTION "A-A"

ISOMETRIC

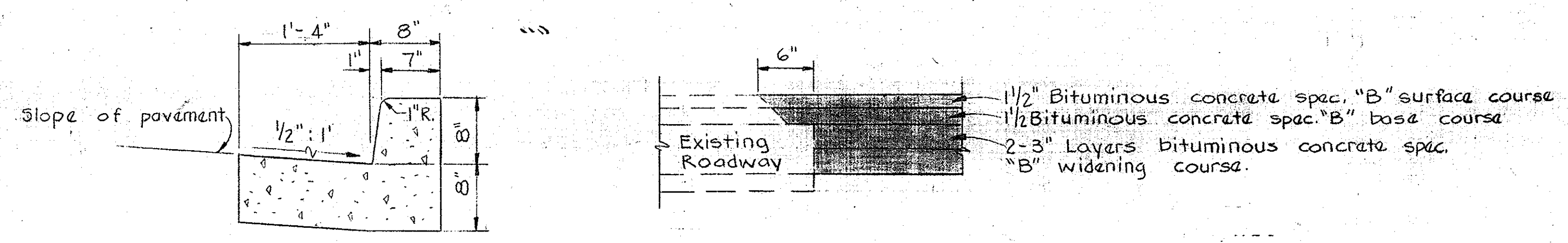
DETAIL - WHEEL CHAIR RAMP Not To Scale



RECREATION AREA Scale: 1"=50'

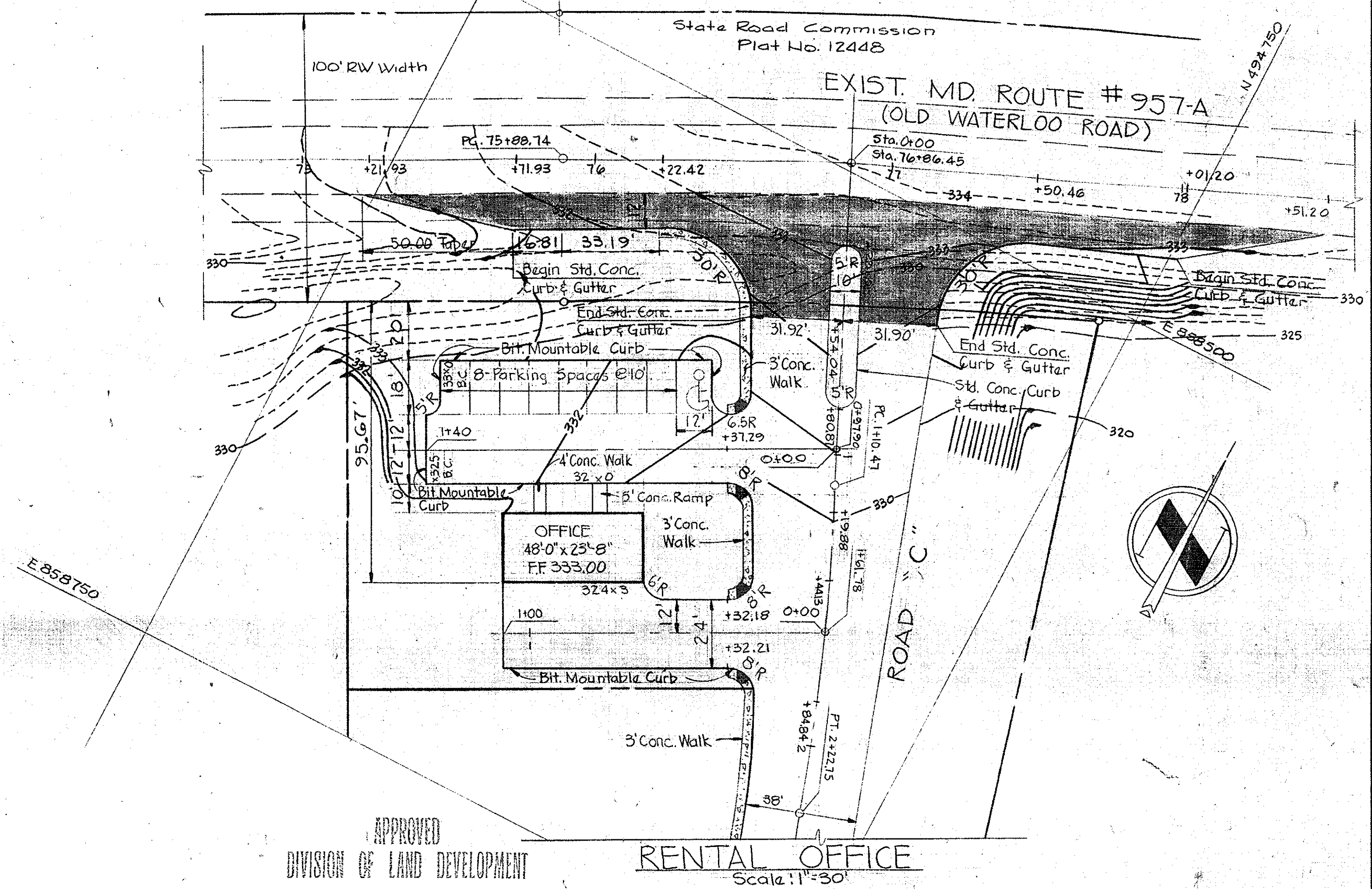


TYPICAL WIDENING SECTION (ALONG OLD WATERLOO ROAD) Scale: 1"=5'-0"



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

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



APPROVED DIVISION OF LAND DEVELOPMENT

RENTAL OFFICE Scale: 1"=30'

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

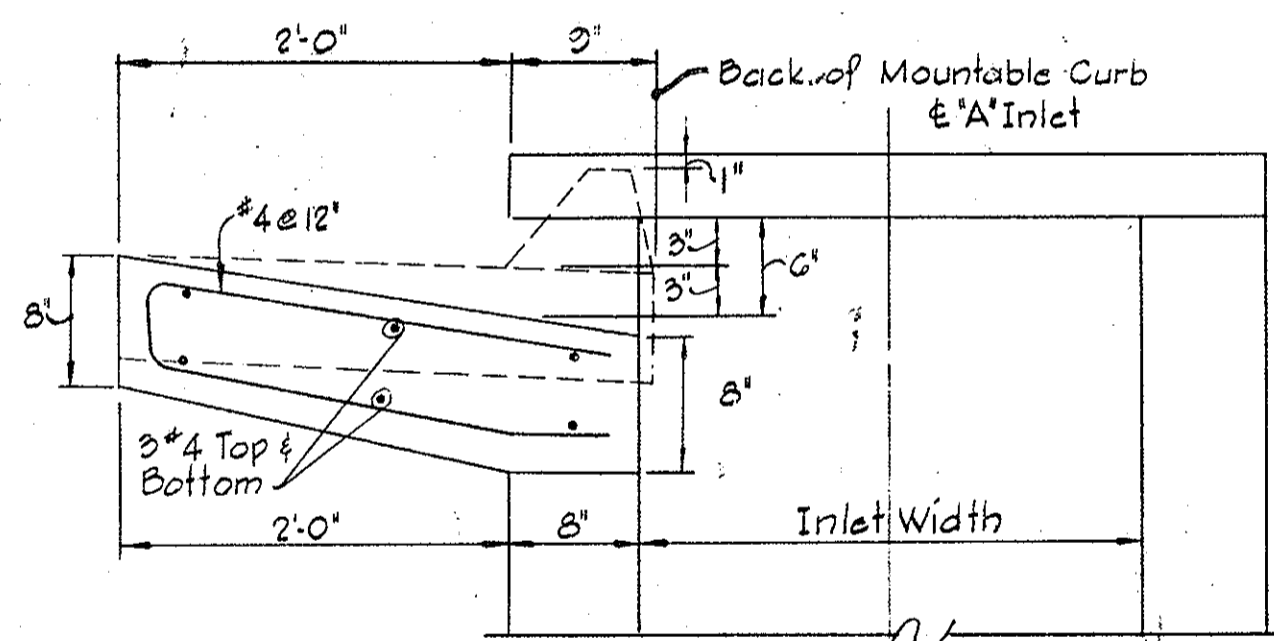
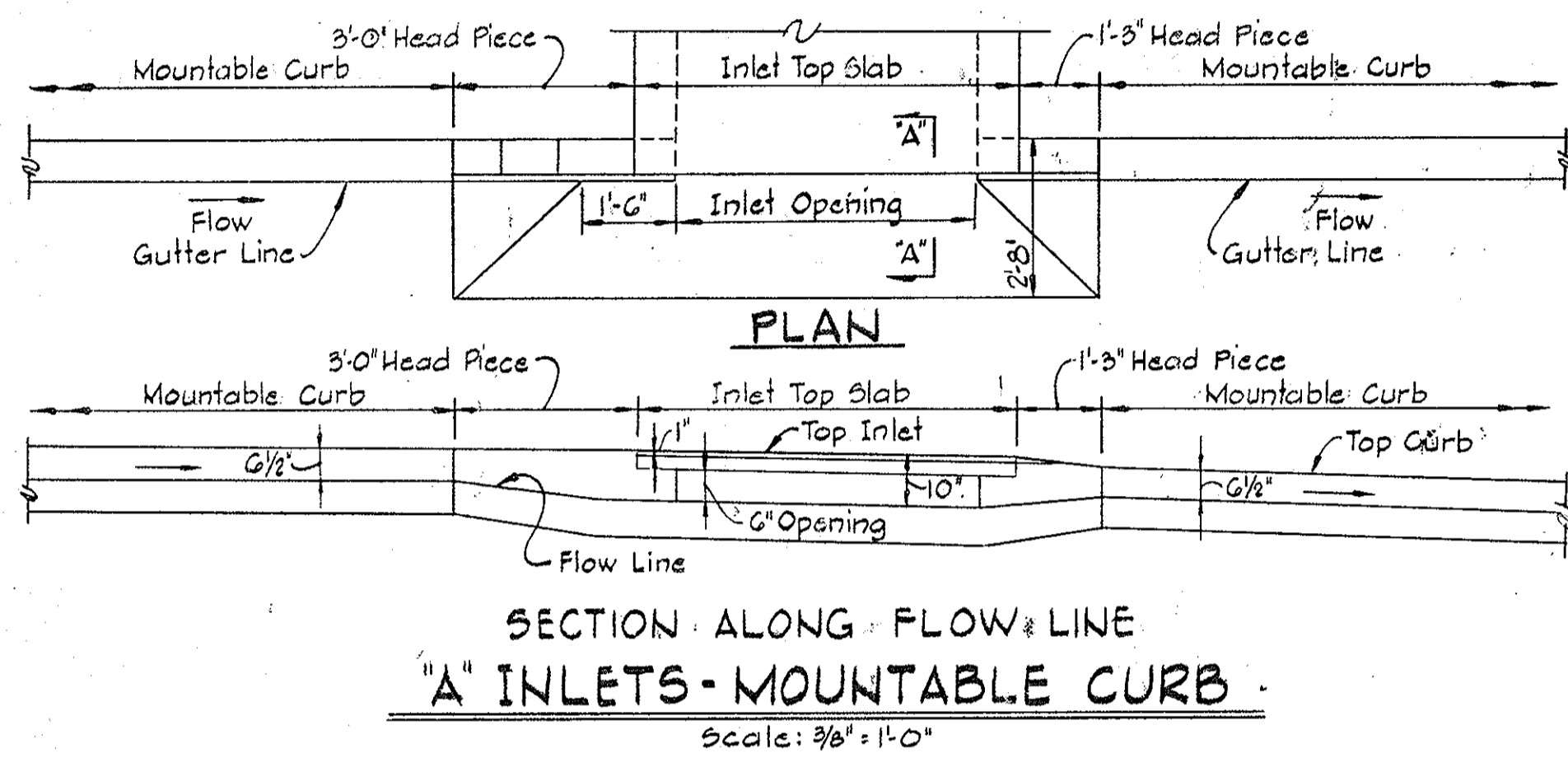
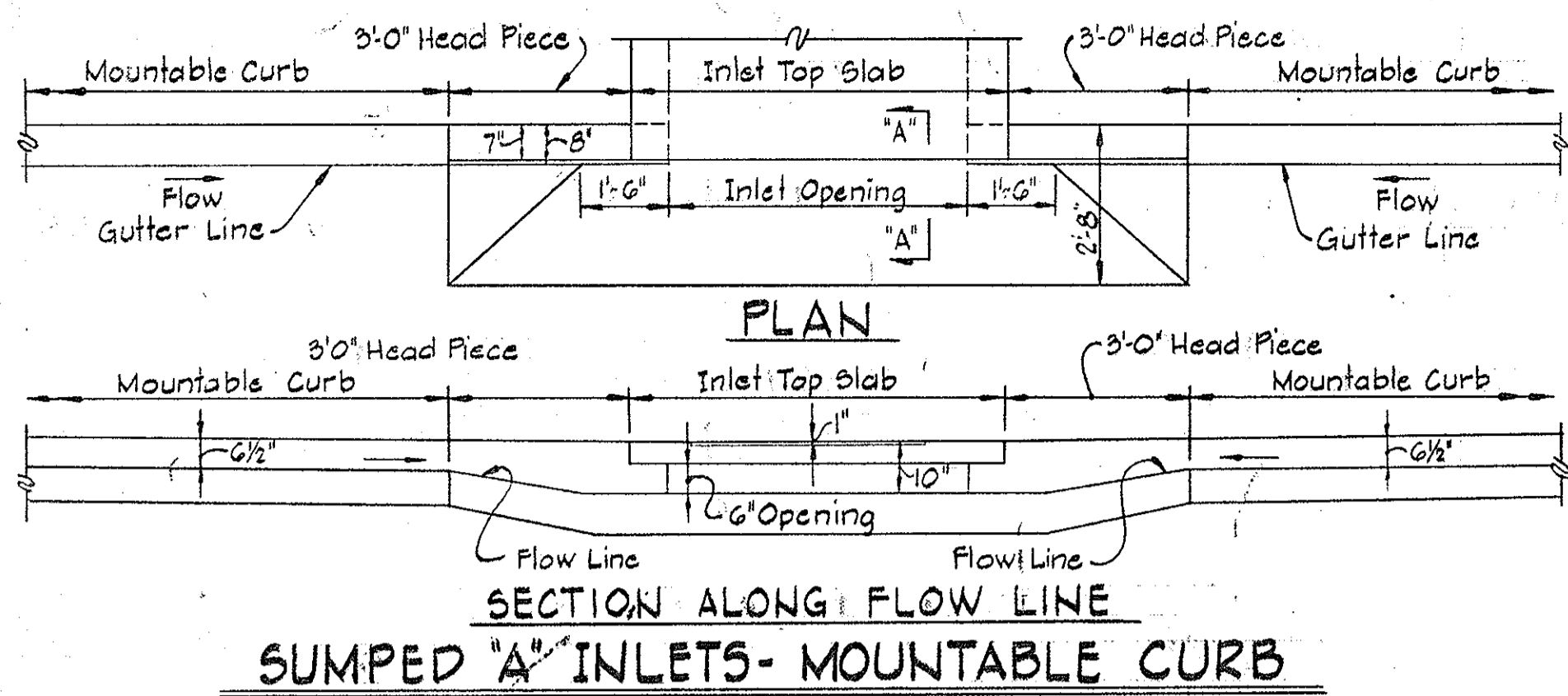
APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING
PLANNING DIRECTOR: *Donna St. James* 8-18-80
DATE: 8-18-80
CHIEF DIVISION OF LAND DEVELOPMENT: *William Thomas* 8-18-80
DATE: 8-18-80
APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE AND STORM DRAINAGE SYSTEMS AND ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DIRECTOR: *Wm. F. Norman* 8-11-80
DATE: 8-11-80
CHIEF BUREAU OF ENGINEERING: *James F. ...* 8-11-80
DATE: 8-11-80

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

HOWARD COUNTY, MARYLAND
DATE 7-8-80

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

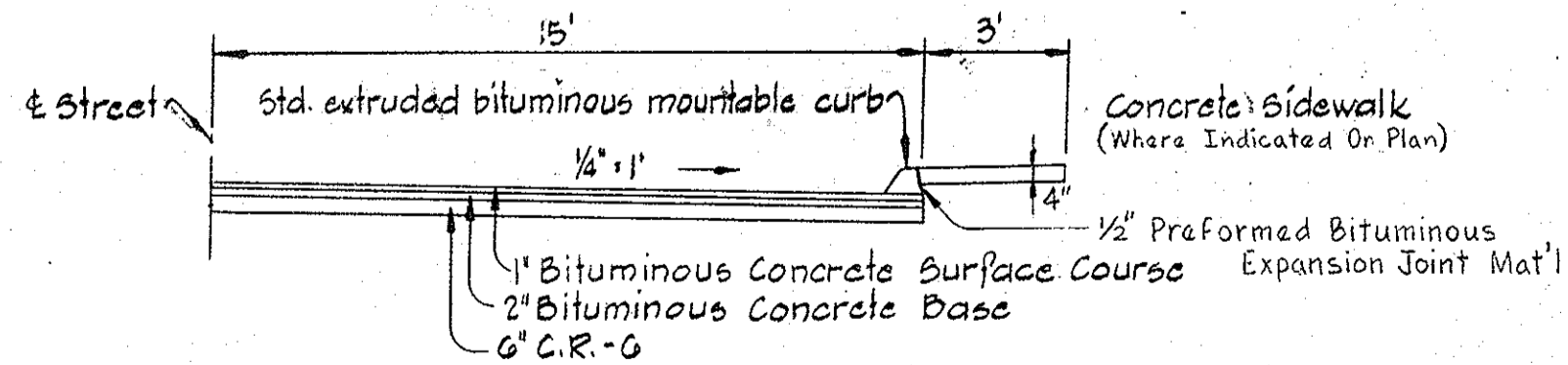
SITE DEVELOPMENT
DEEP RUN PARK - SECTION I
DETAILS
FIRST ELECTION DISTRICT OF HOWARD COUNTY, MARYLAND
TAX MAP 37 PARCEL 163
DATE: February 27, 1980 SCALE: As Noted
SHEET 11 OF 33
7-1-80



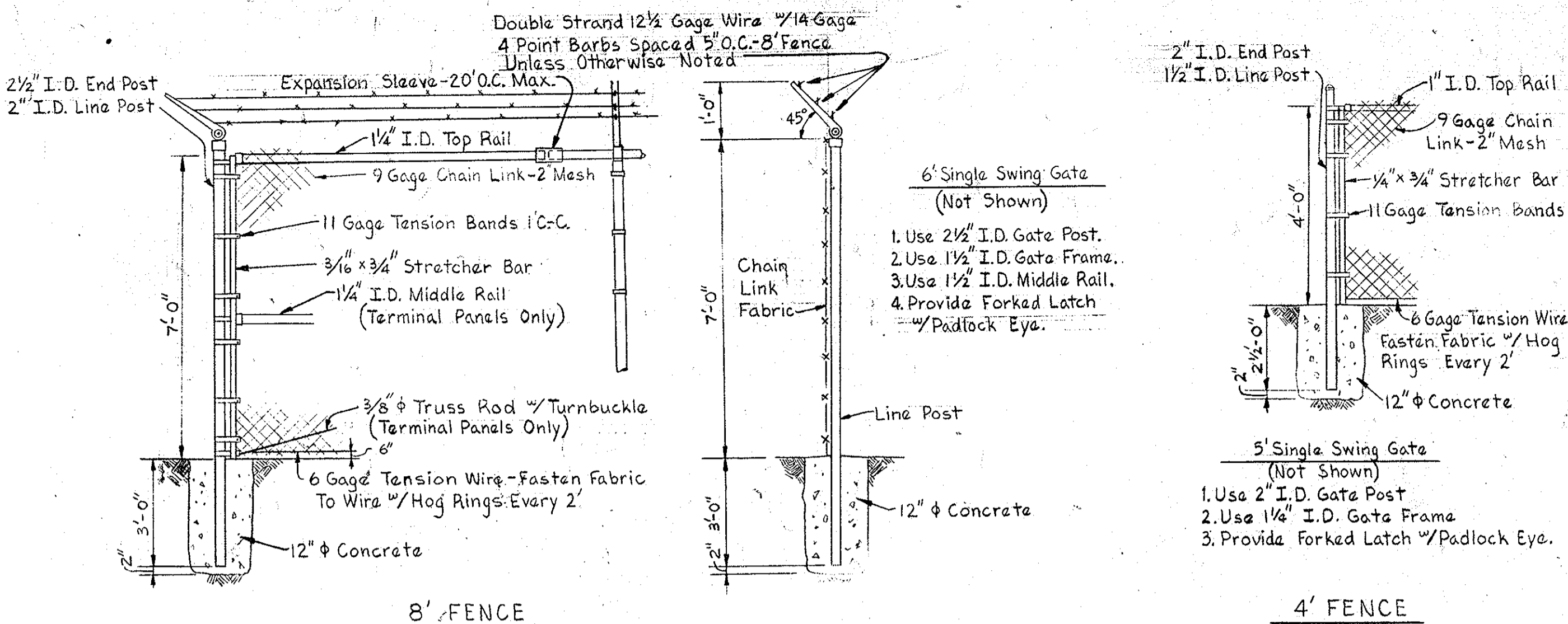
Notes: For 'A' Inlet dimensions and structural details see Standard Howard County Drawing G4-A Page 119A

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.

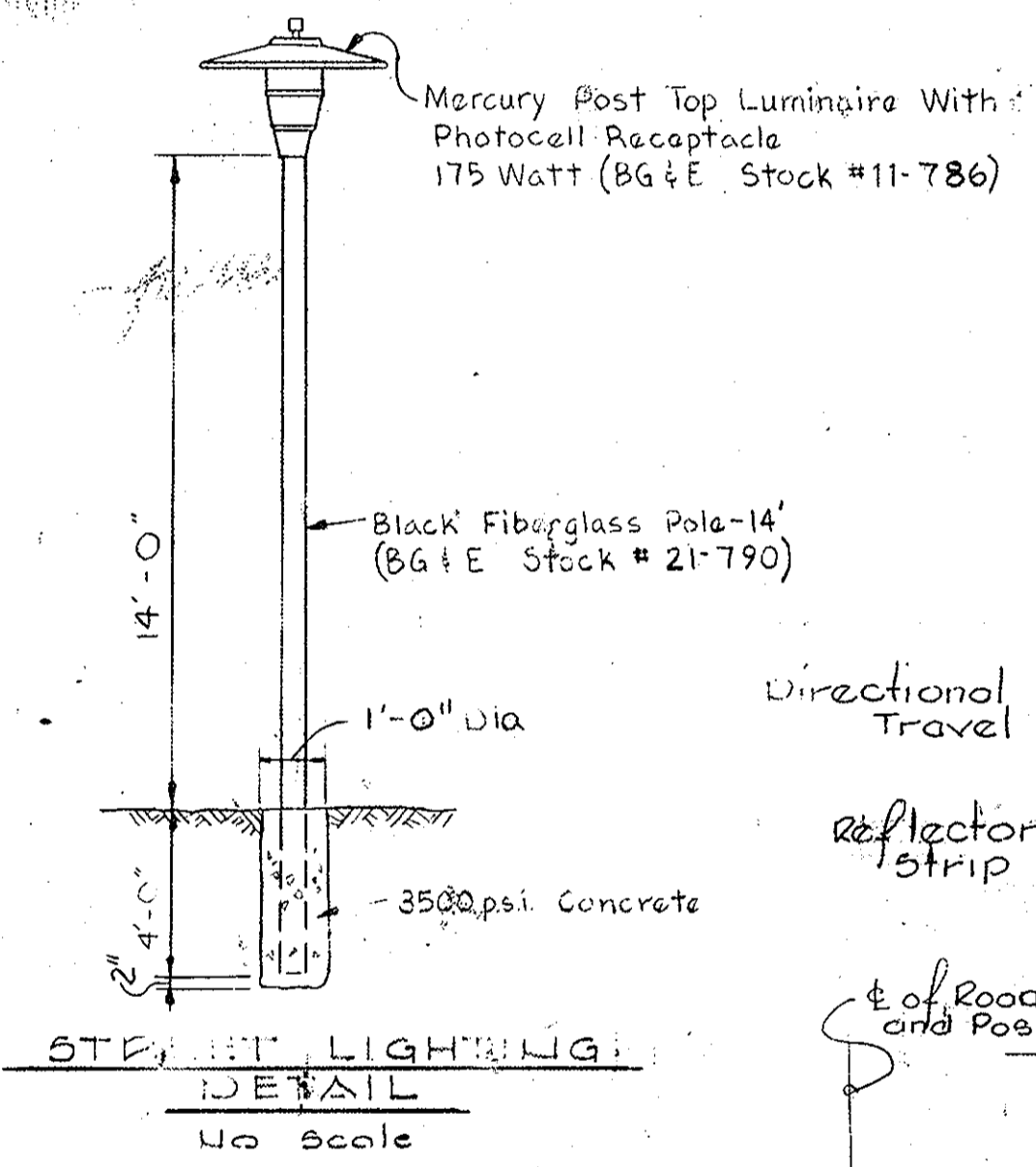


STANDARD PAVING SECTION

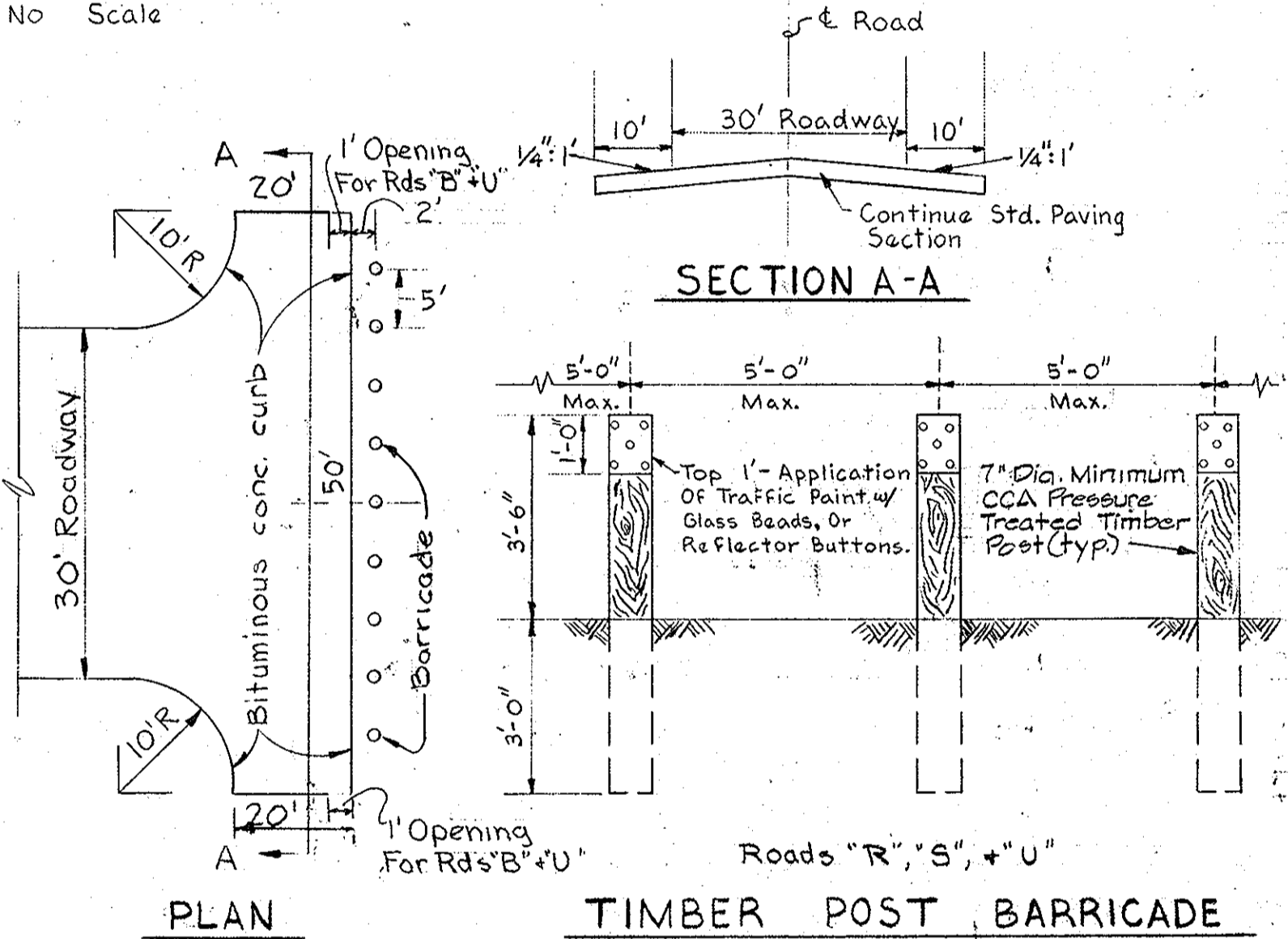


Notes:
1. All Posts, Fence Fabric, Rails, Barbed Wire, Stretcher Bars, Clamps And Component Parts Shall Be Galvanized Steel.
2. 10' Typical Spacing Between Posts.
3. Wire Fabric To Be Attached To Line Posts With 9 Gauge Tie Wires @ 14\"/>

FENCE DETAILS

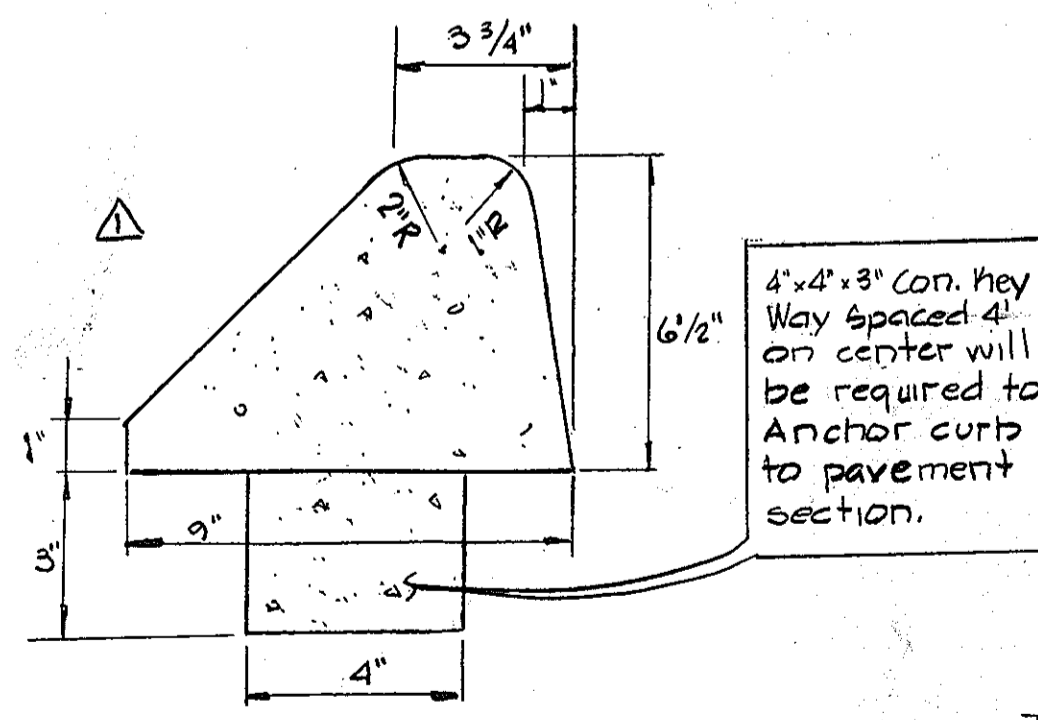


STREET LIGHTING DETAIL

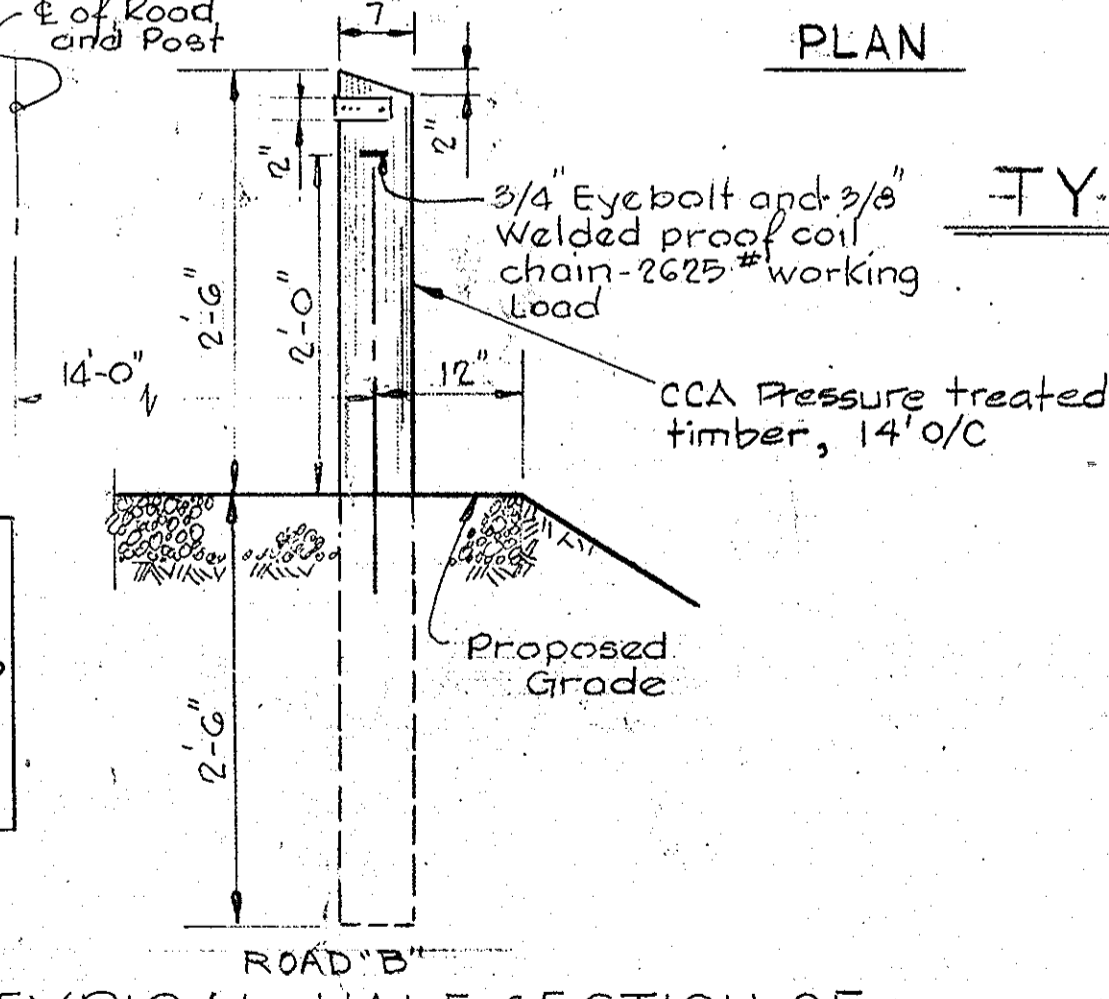


TYPICAL ROAD END

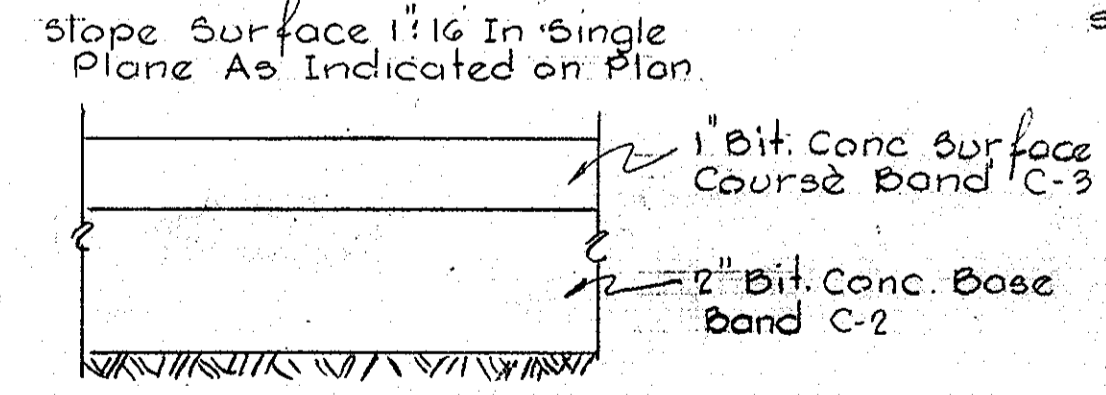
TYPICAL ROAD END



EXTRUDED CONCRETE CURB



TYPICAL HALF SECTION OF LOG AND CHAIN POST



PAVEMENT SECTION FOR MULTI-USE COURT

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

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	Sagd. 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.	28,600
8	Standard Concrete Curb and Gutter (SHA Typ 'A')	L.F.	325
9	Bituminous Concrete Parking Rds (C)	S.Y.	12,900
10	Concrete Patios 4'	S.Y.	68,000
11	CR-6 Mobile Home Pads (4')	S.Y.	16,400
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	30' Precast Conc. Inlet Structure	Ea.	1
26	42' Precast Conc. Inlet Structure	Ea.	1
27	42' Precast Conc. Inlet 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' RCP 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	8" 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.	1
44	6" Ductile Iron Pipe Cl. 52	L.F.	1
45	2" PVC (Potable water pipe)	L.F.	1
46	6" Fire Hydrants w/6" O.I. Leads	Ea.	1
47	Water House Connections	Ea.	1
48	8" Detector Check (Furnished by Howard Co.)	Ea.	1
49	8" Sanitary Sewer Pipe	L.F.	1
50	6" Sanitary Sewer Pipe	L.F.	1
51	Sanitary Sewer Manholes (Precast)	Ea.	62
52	Sanitary Sewer Lampholes	Ea.	1
53	Type 'A' drop Manholes	Ea.	1
54	Sewer House Connections	Ea.	1
55	Swimming Pool complete	Ea.	1
56	Rental Office Building	Ea.	1
57	Landscaping - Trees	Ea.	500±
58	Swimming Pool Bathhouse	Ea.	1
59	Street lights	Ea.	54
60	Playground Equipment	Ea.	1
61	4' Fence	L.F.	690
62	8' Fence	L.F.	770
63	Mail Box	Ea.	19
SEDIMENT CONTROL			
64	Earth Dikes (Perimeter & Diversion)	L.F.	9300
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

6" CR-6 w/ double bituminous conc. surface treatment

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

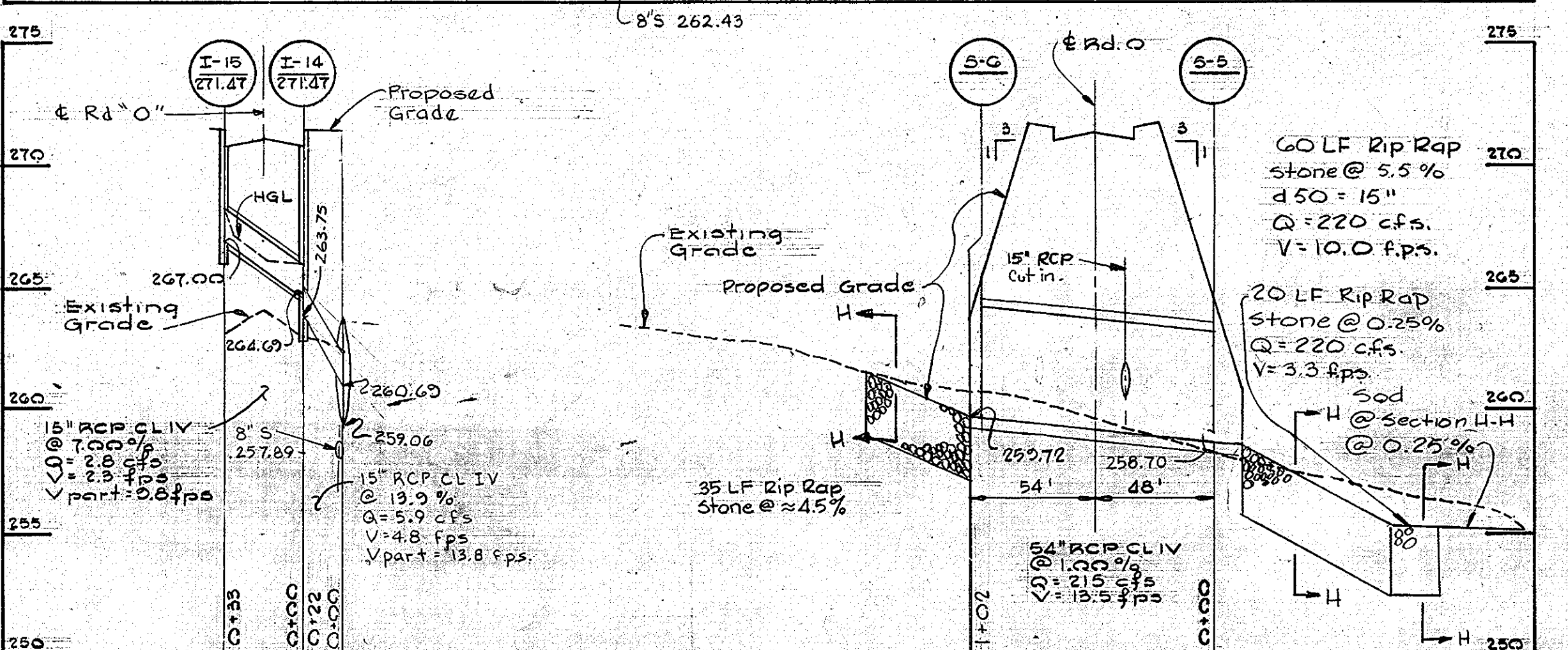
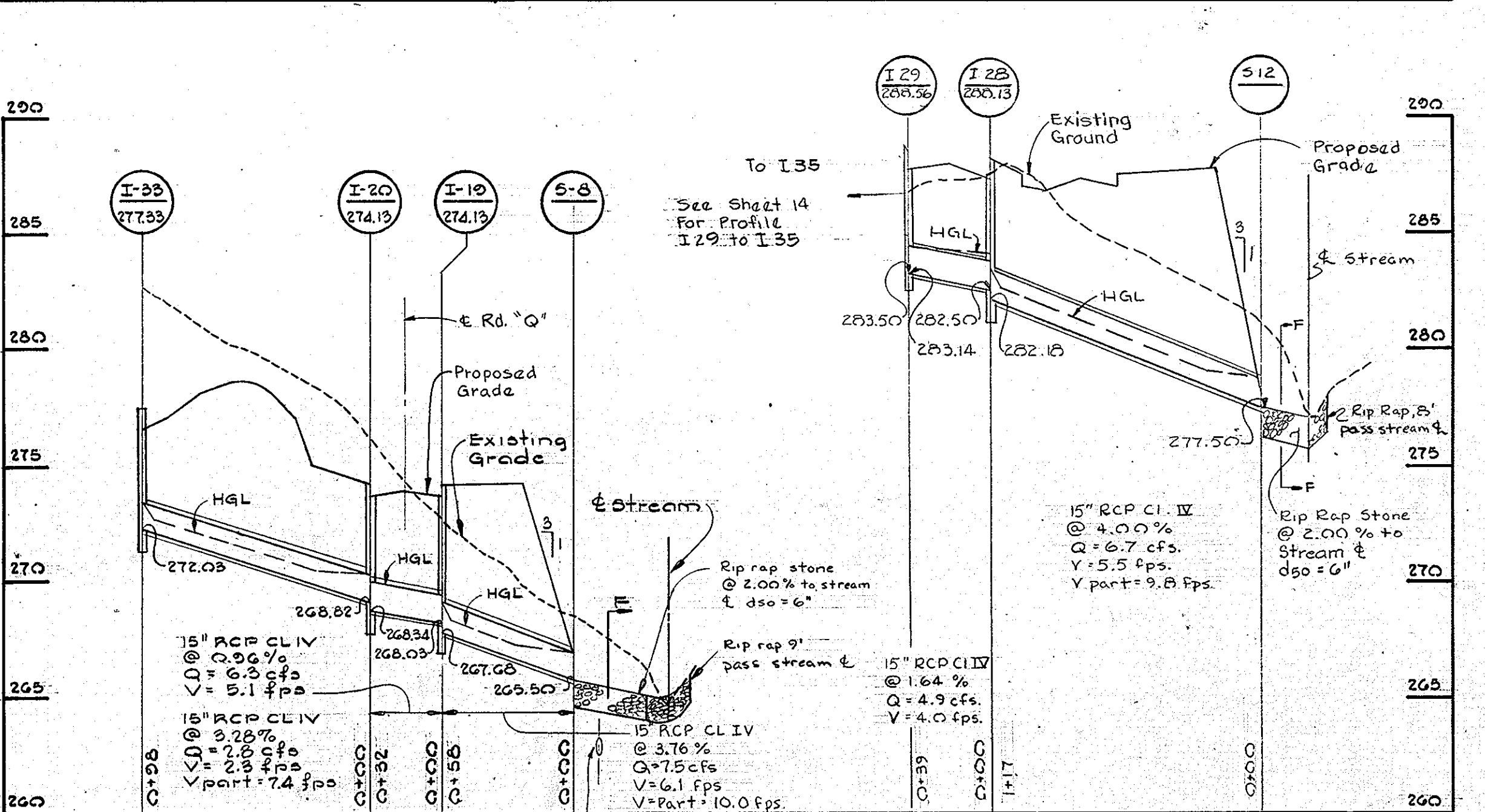
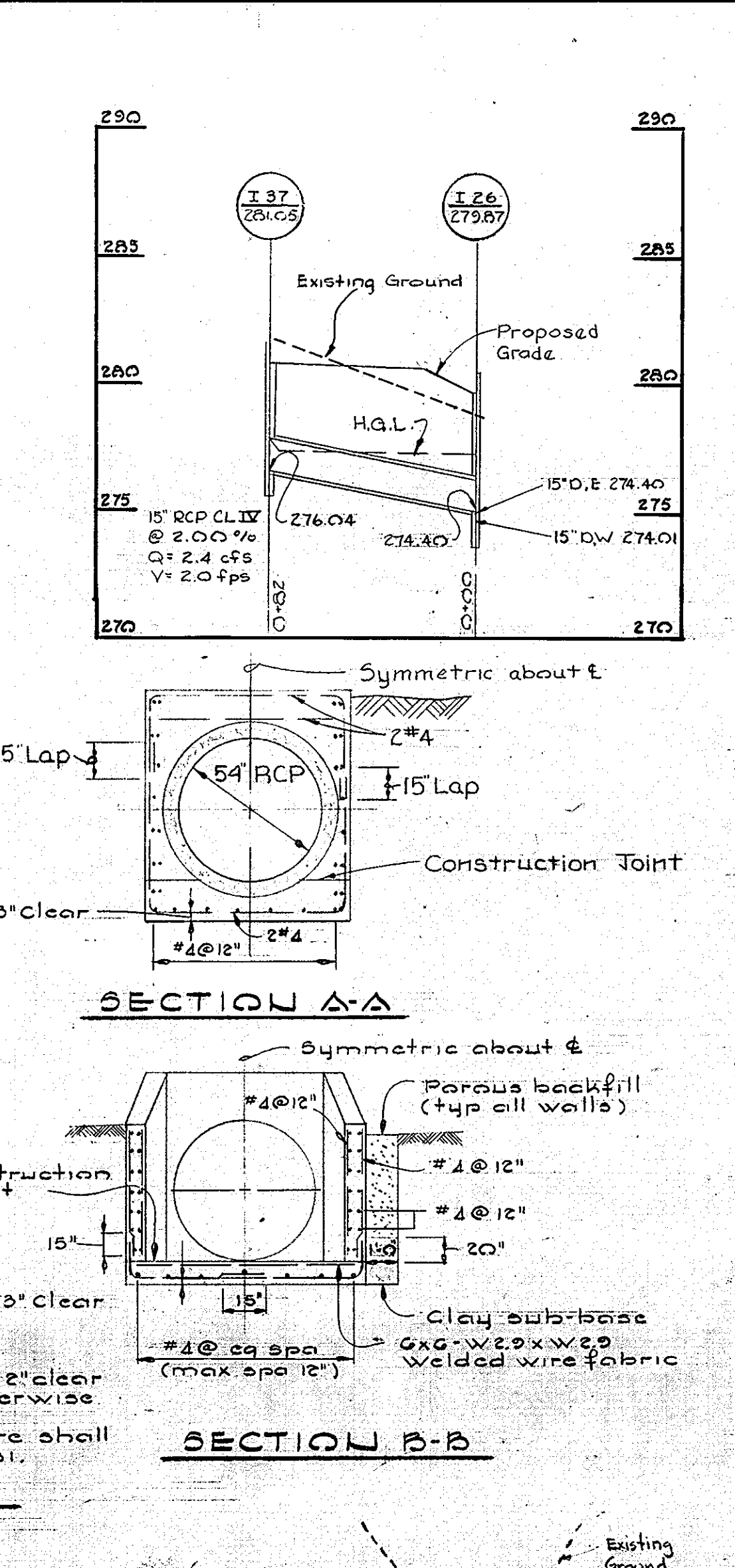
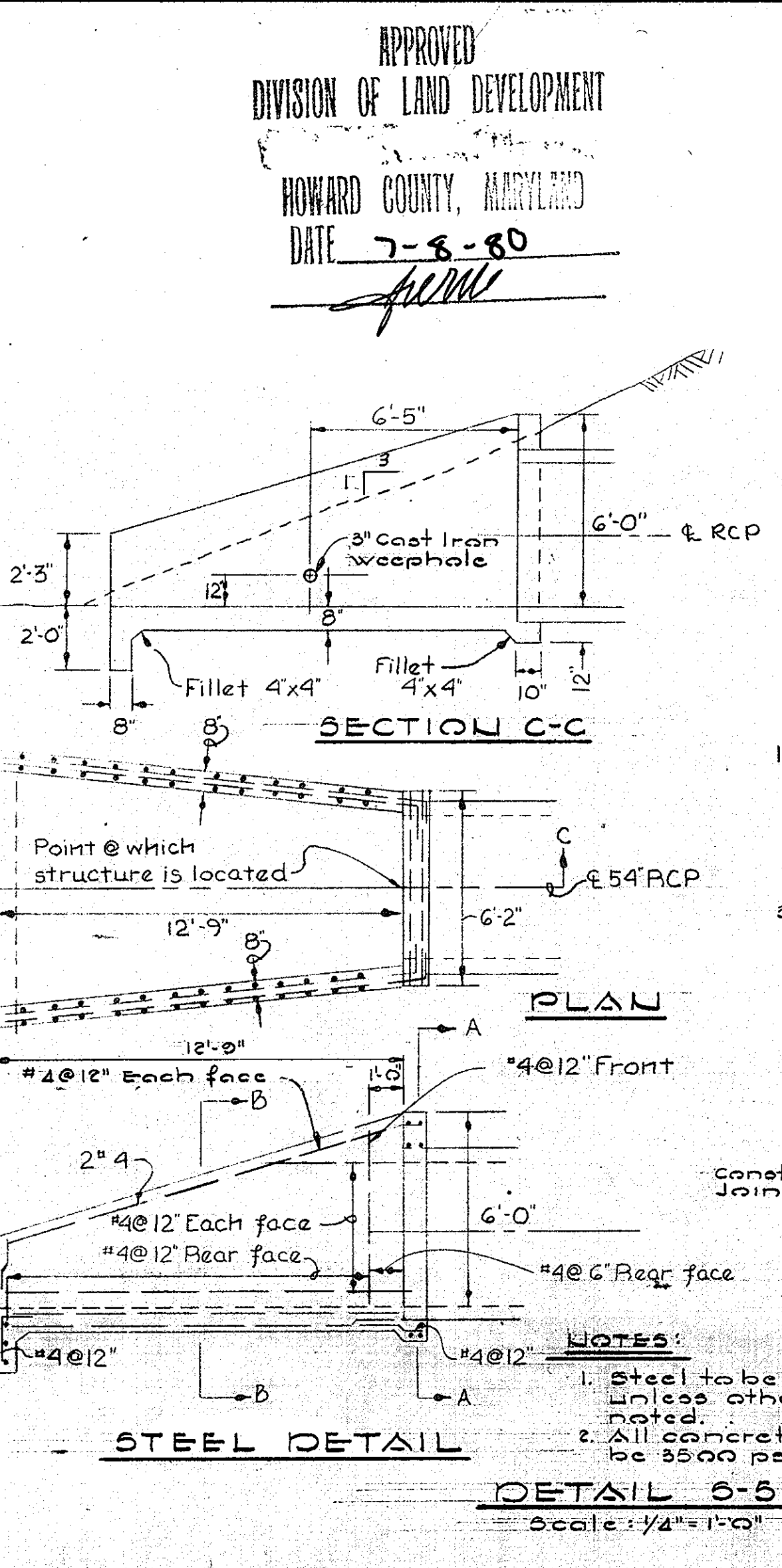
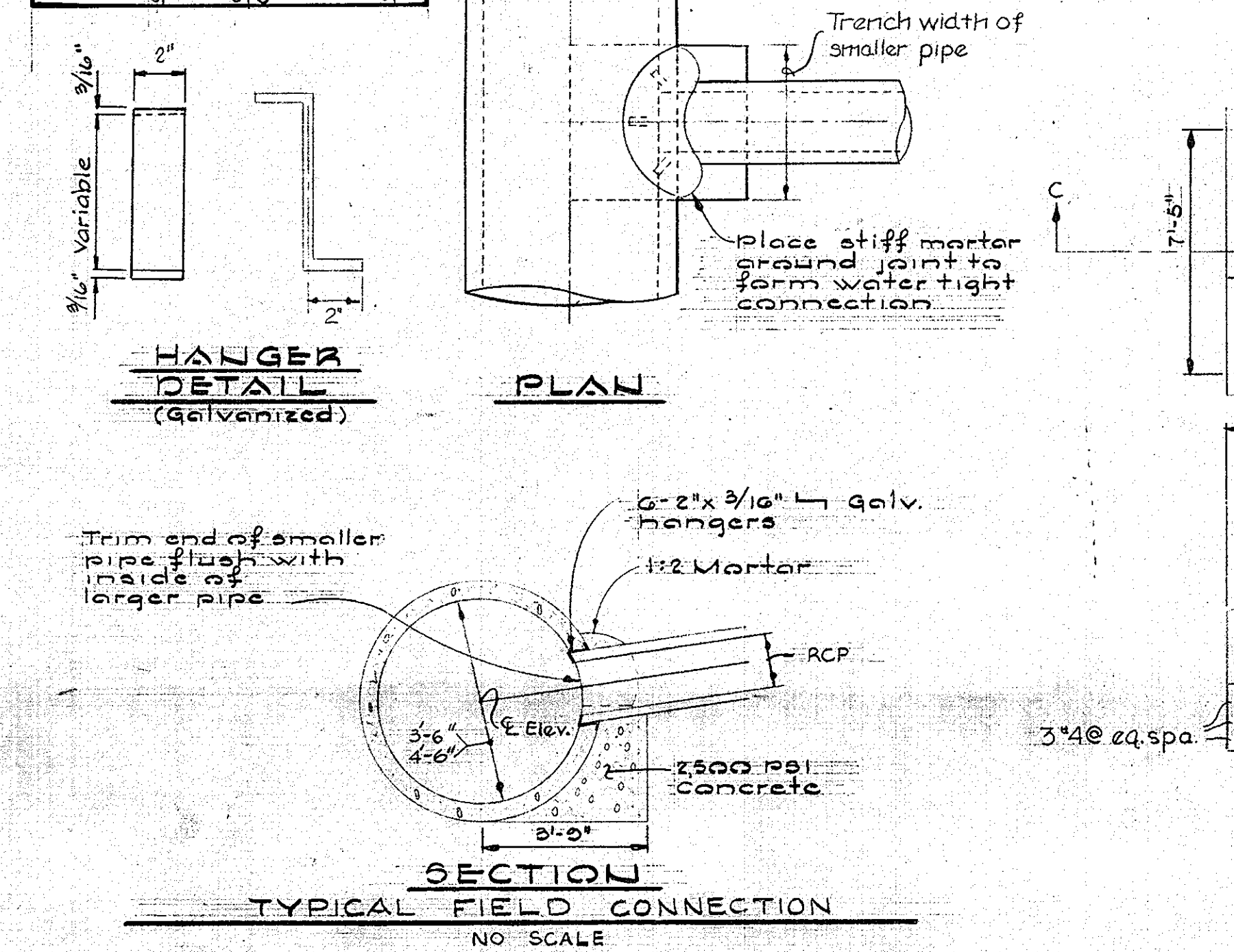
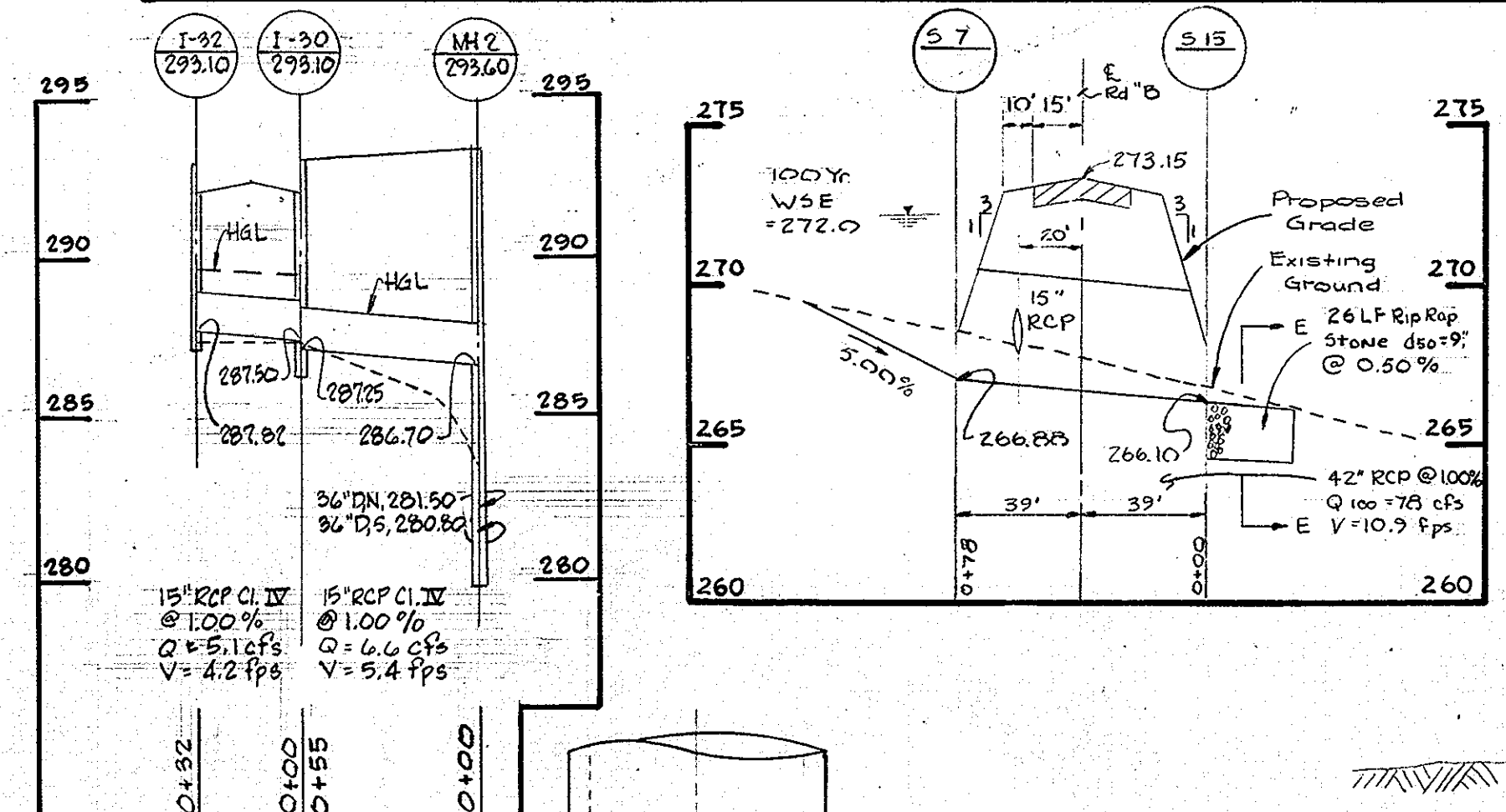
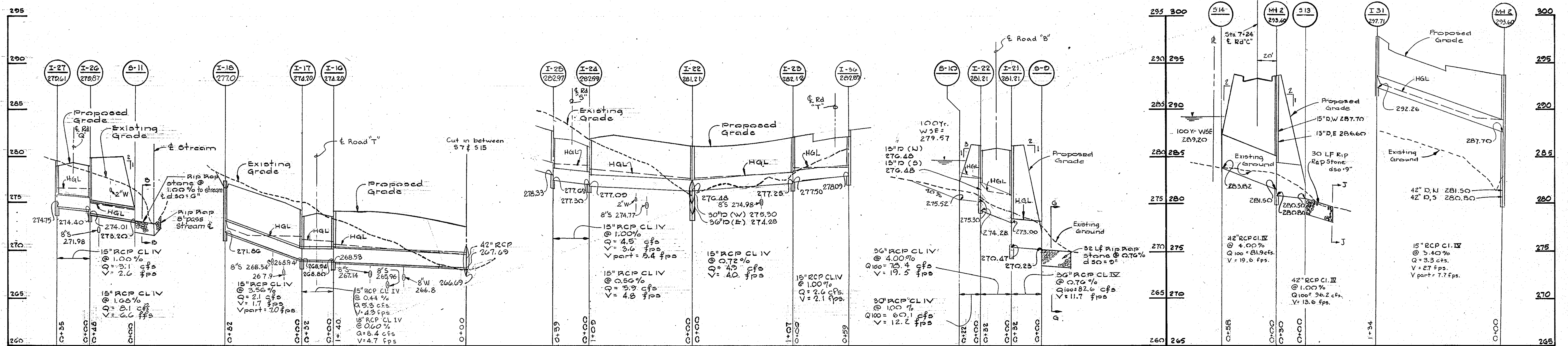
APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING
PLANNING DIRECTOR
CHIEF, DIVISION OF LAND DEVELOPMENT
APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE AND STORM DRAINAGE SYSTEMS AND ROADS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DIRECTOR
CHIEF, BUREAU OF ENGINEERING

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
APPROVED: WILLIAM T. PLUM
HOWARD S.C.D.
DATE: 5-13-80
SIGNATURE: [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
1. 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
DATE: November 16, 1978
PARCEL 163
SCALE: As Noted
SHEET 12 OF 33



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

STORM DRAIN PROFILES
Scale: Horiz. = 1" = 50'
Vert. = 1" = 5'

SITE DEVELOPMENT PLAN
DEEP RUN PARK - SECTION I
STORM DRAIN PROFILES

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

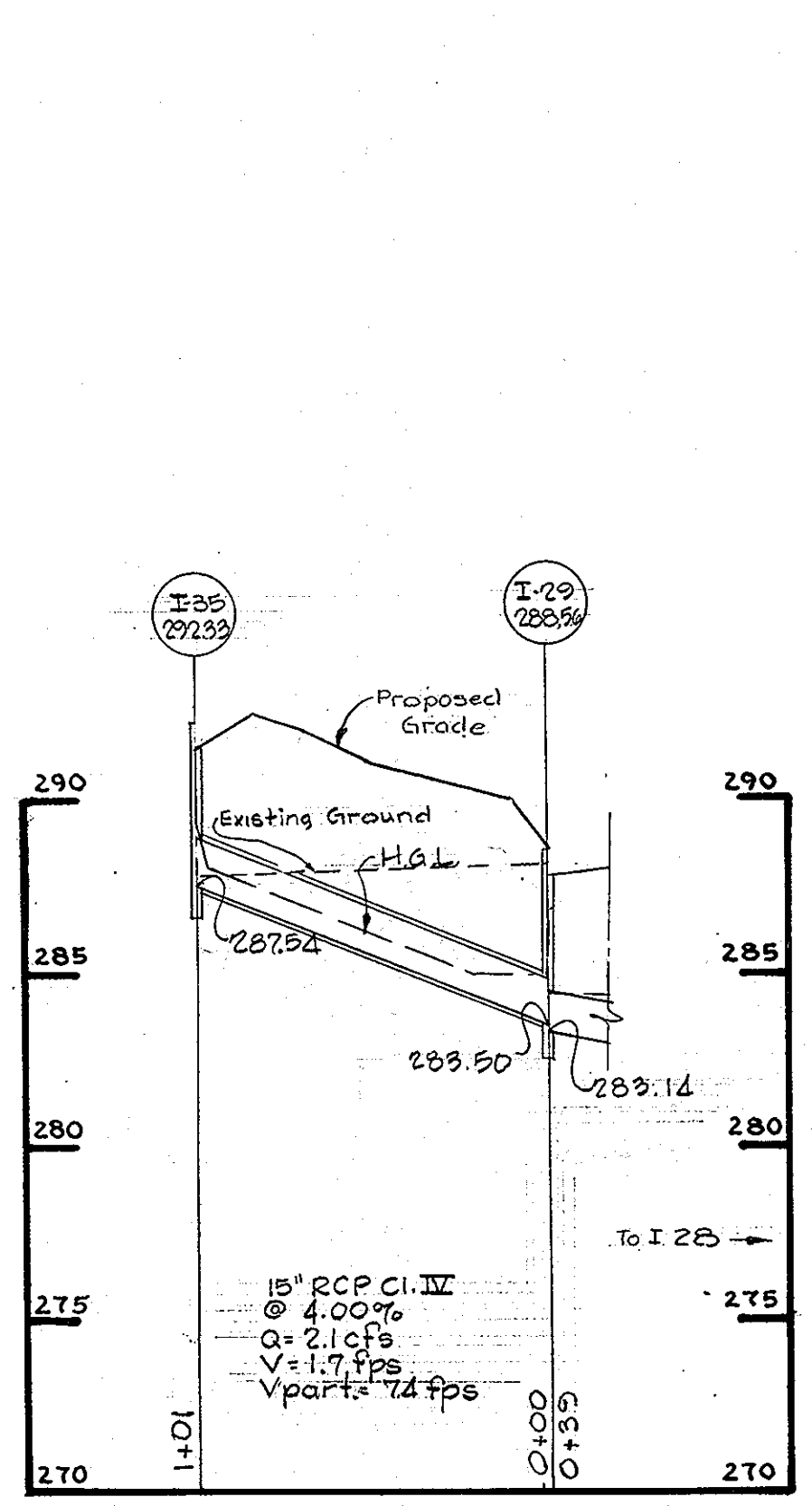
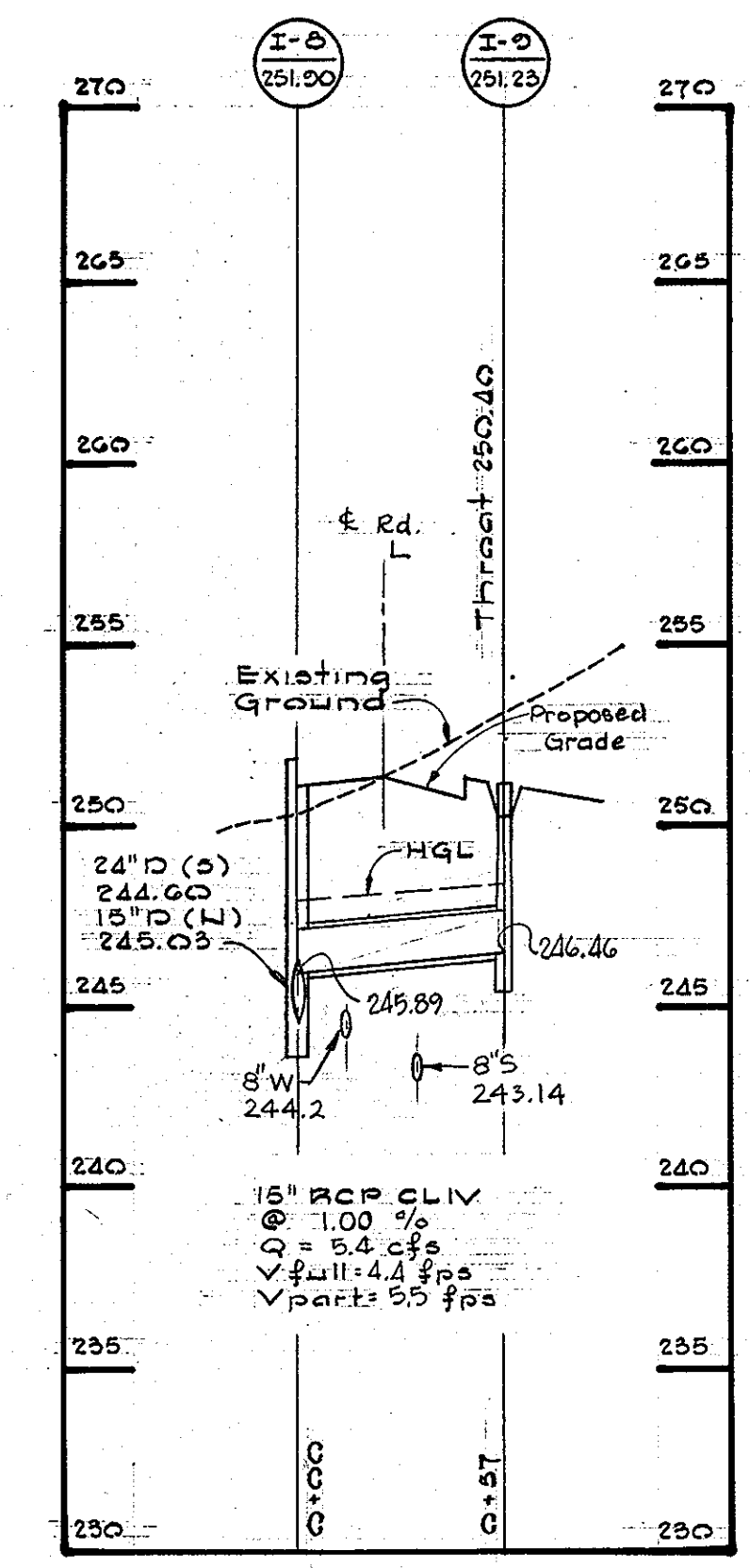
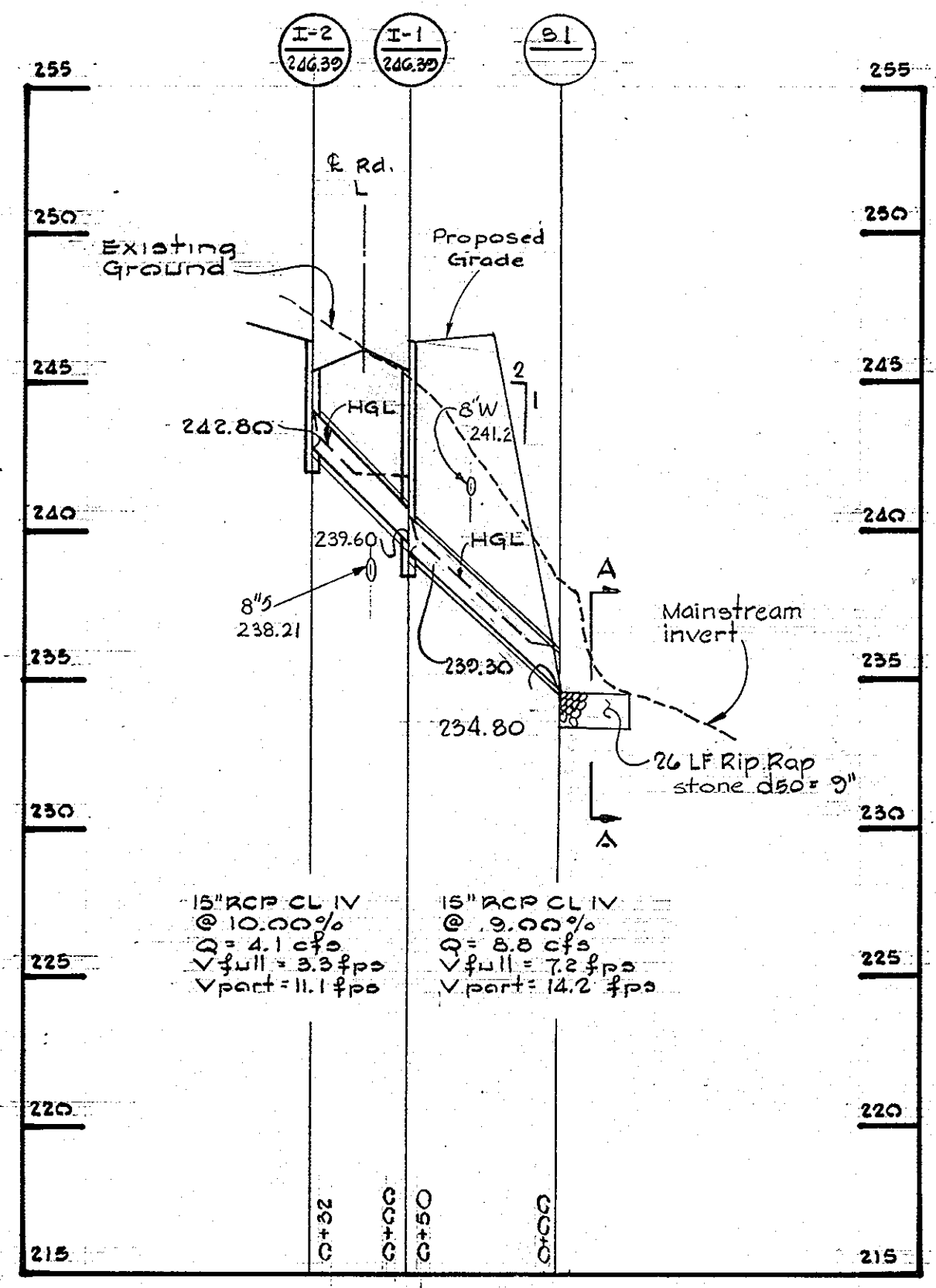
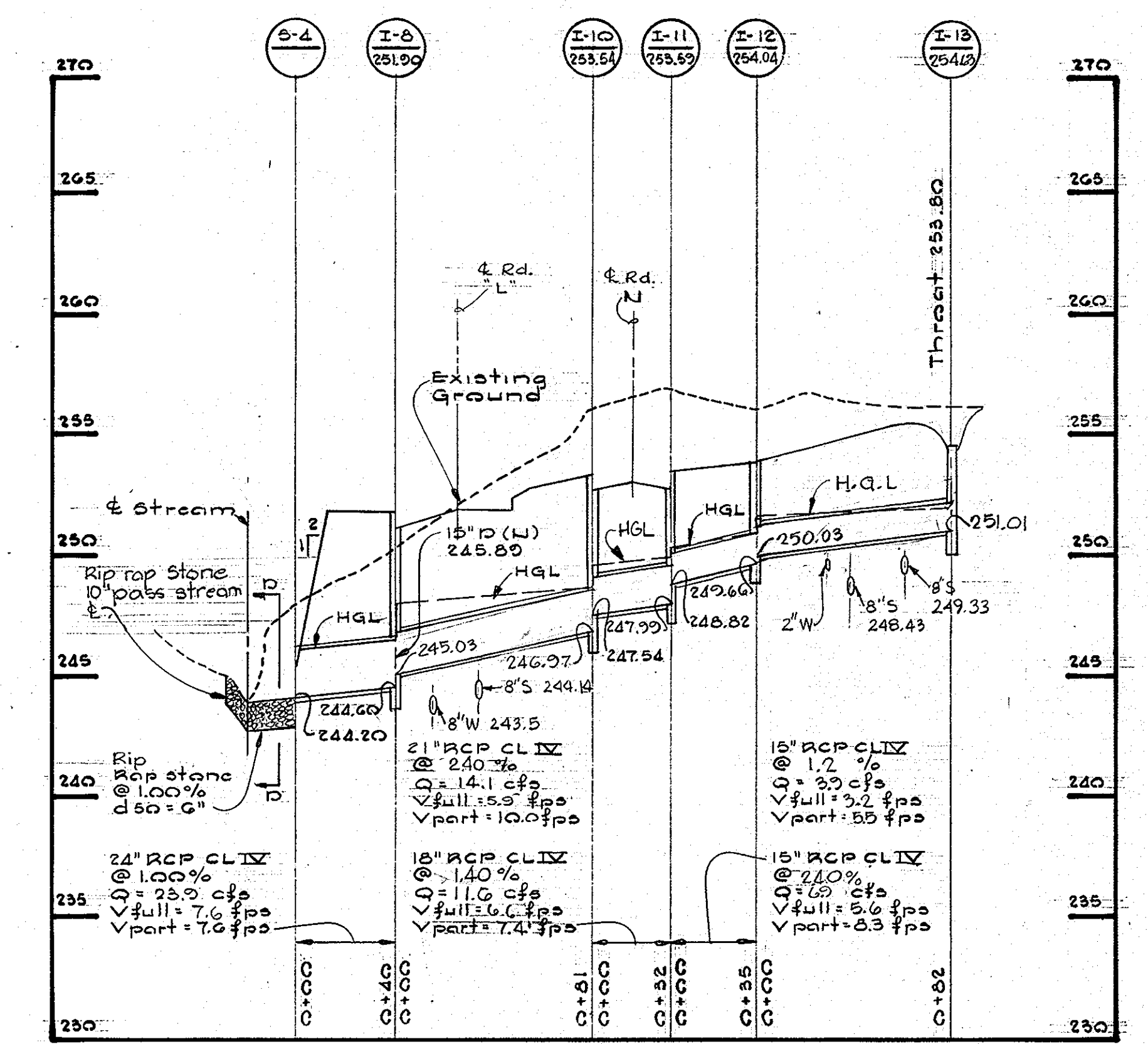
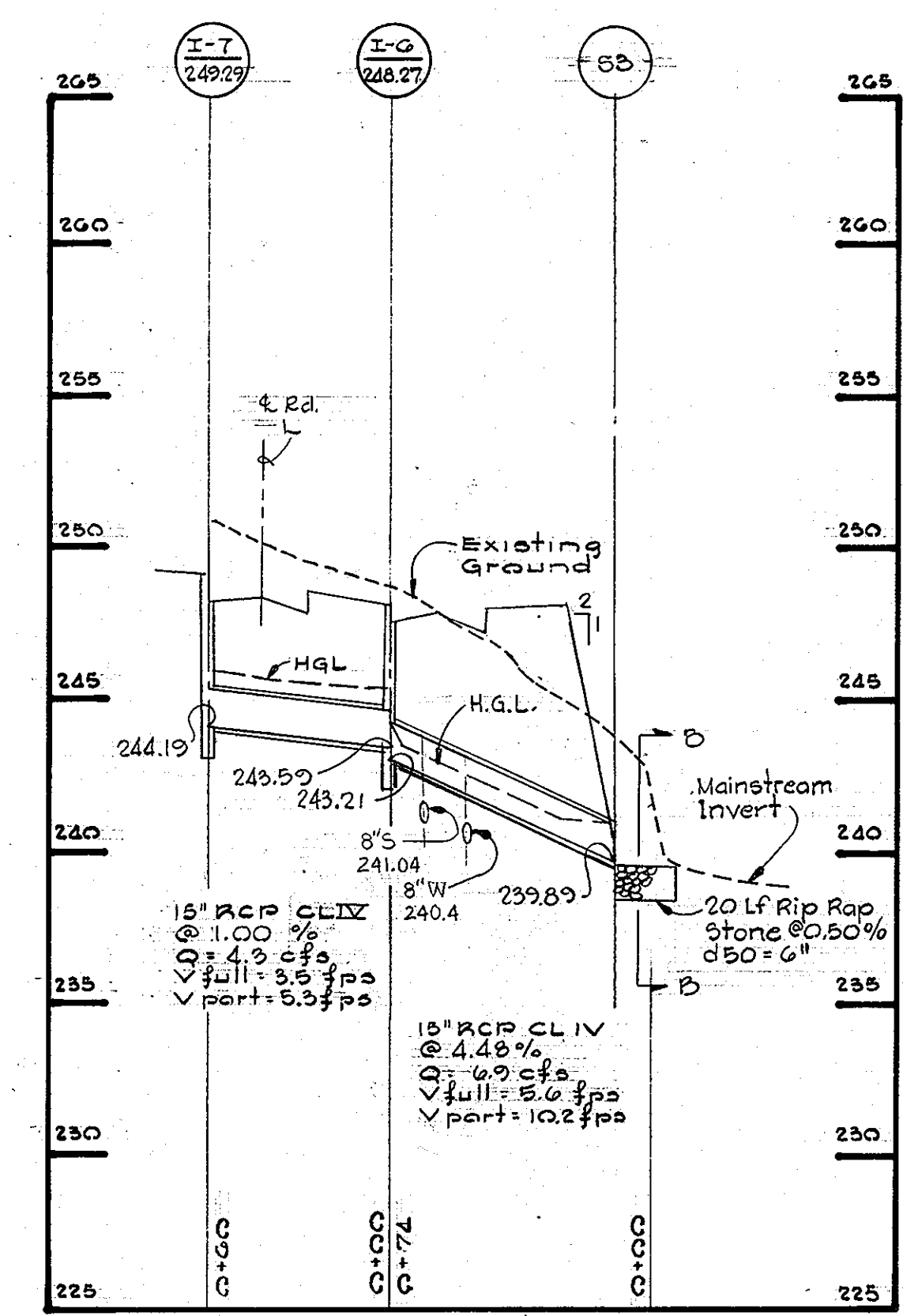
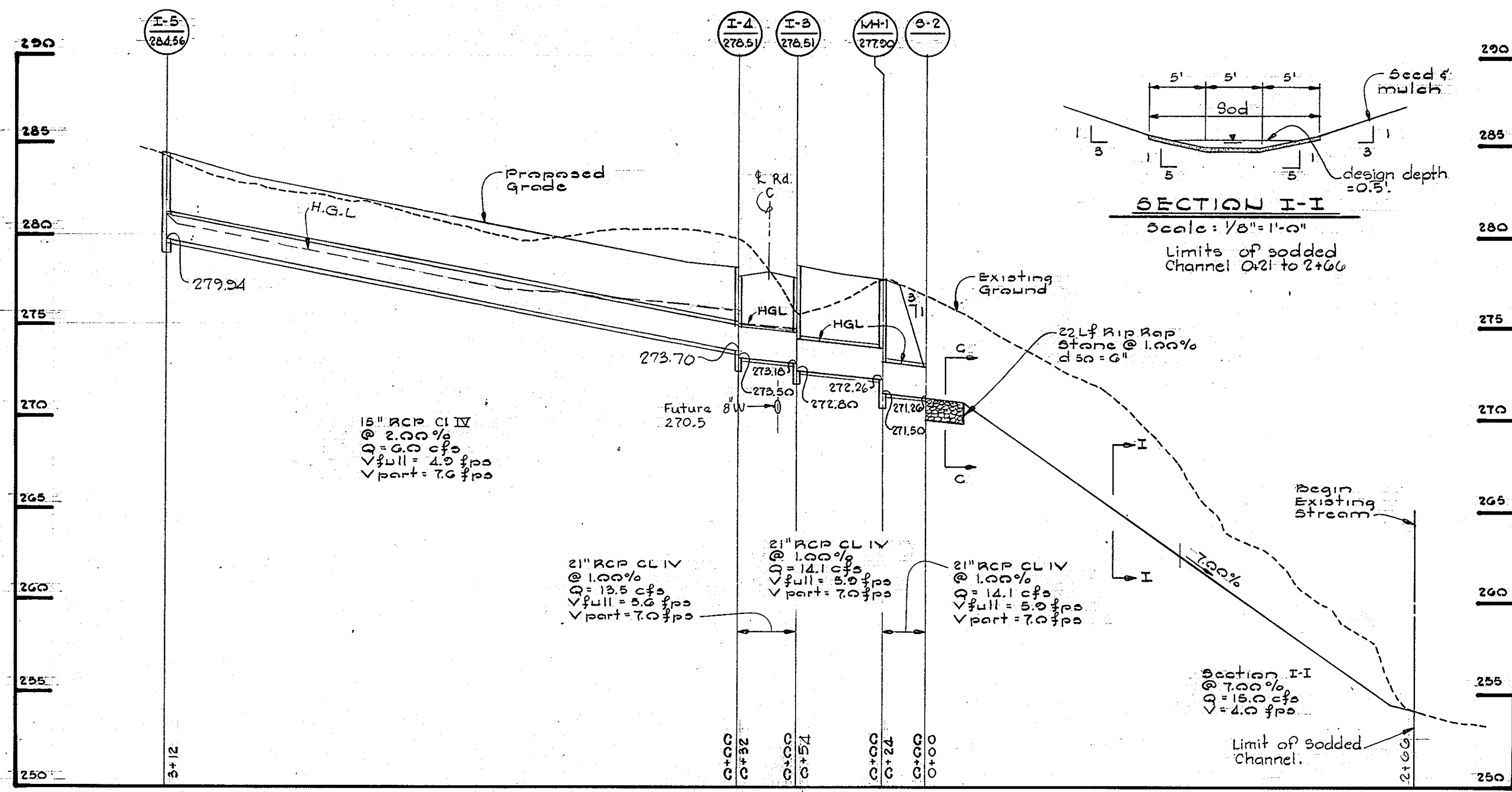
APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING
PLANNING DIRECTOR
CHIEF, DIVISION OF LAND DEVELOPMENT
APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE AND STORM DRAINAGE SYSTEMS AND ROADS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
APPROVED: HOWARD S.C.D.
DATE: 8-18-80
SIGNATURE: J. F. Neumann
DATE: 8-18-80
APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DATE: 8-14-80
SIGNATURE: J. F. Neumann
DATE: 8-14-80

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

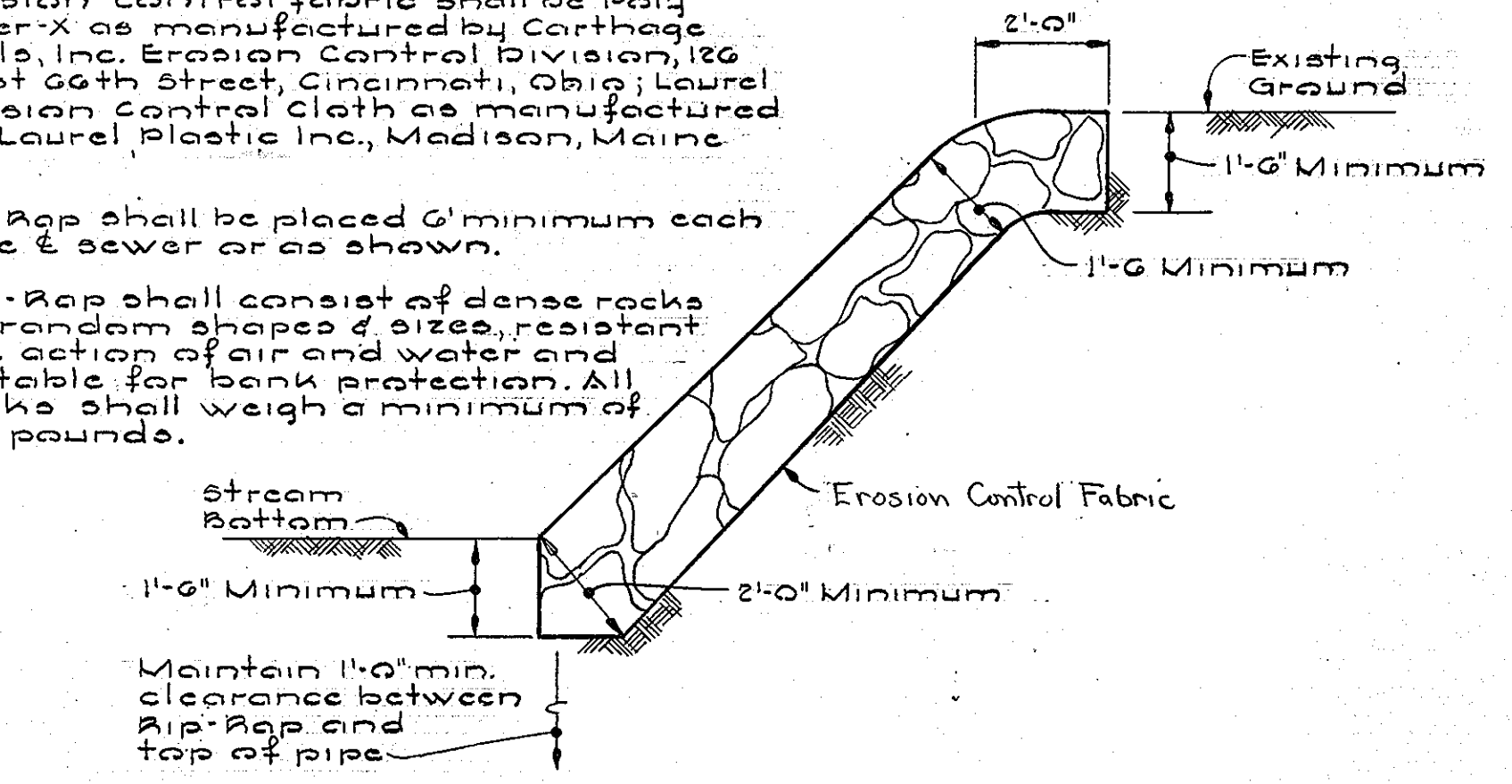
FIRST ELECTION DISTRICT OF HOWARD COUNTY MARYLAND
TAX MAP 37
DATE: November 16, 1979
PARCEL 163
SCALE: As Noted

SHEET
13
OF
33

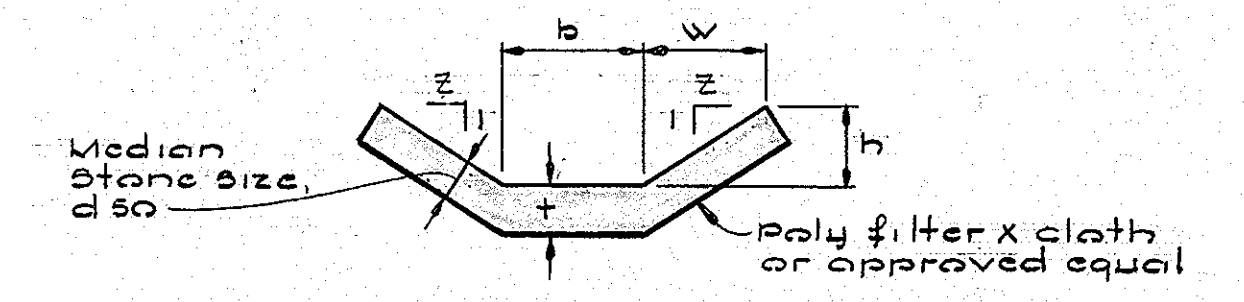


Notes:

- Erosion control fabric shall be Poly Filter-X as manufactured by Corthane Mills, Inc. Erosion Control Division, 126 West 64th Street, Cincinnati, Ohio; Laurel Erosion Control Cloth as manufactured by Laurel Plastic Inc., Madison, Maine.
- Rip-Rap shall be placed 6" minimum each side & sewer as shown.
- Rip-Rap shall consist of dense rocks of random shapes & sizes, resistant to the action of air and water and suitable for bank protection. All rocks shall weigh a minimum of 150 pounds.

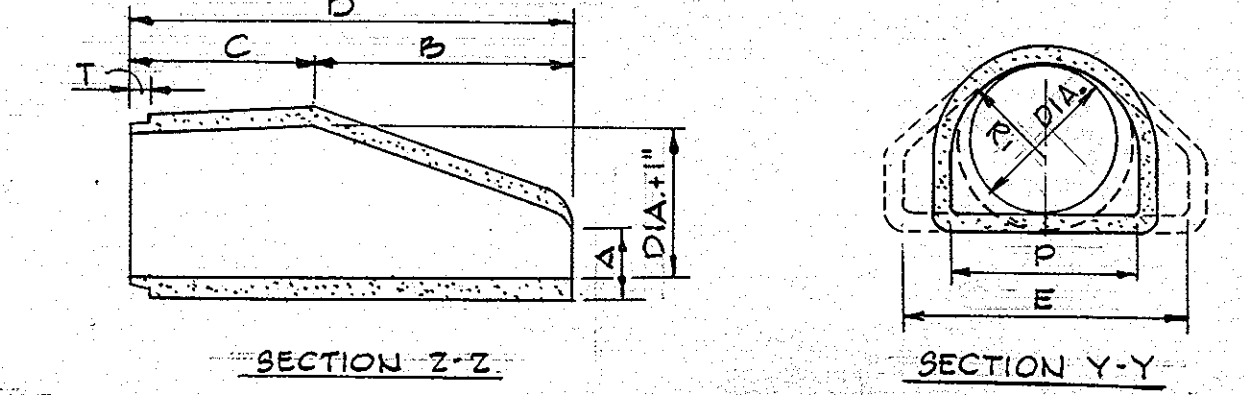
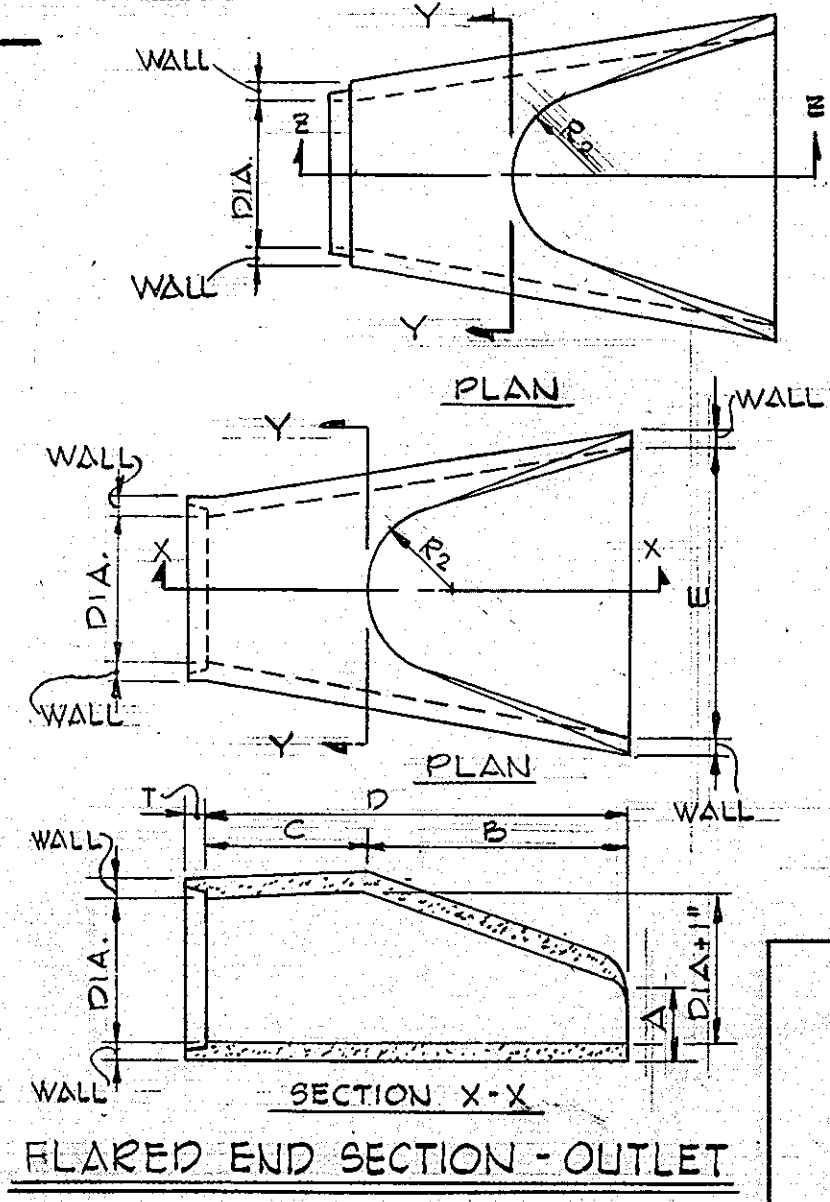
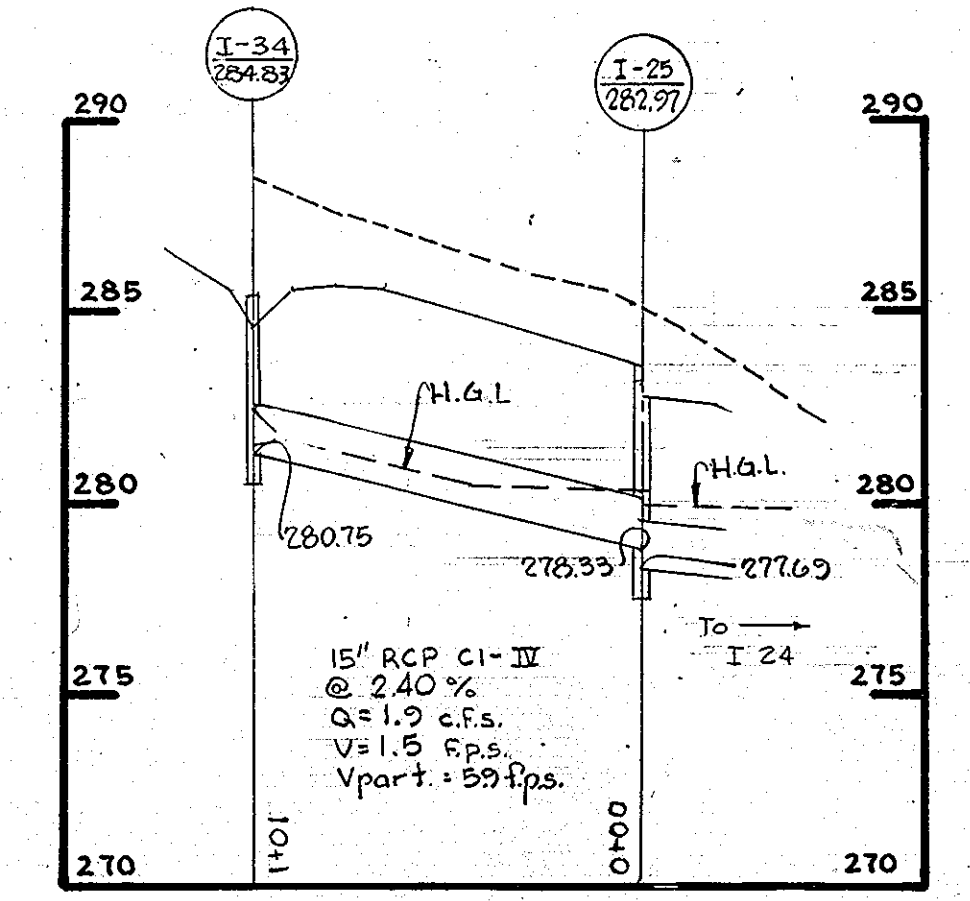


TYPICAL RIP-RAP DETAIL FOR WATER AND SEWER
Scale: 3/8" = 1'-0"



TYPICAL RIP-RAP DETAIL FOR STORM DRAINS
No Scale

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



FLARED END SECTION - DIMENSIONS

DIA.	WALL	A	B	C	D	E	F	P	R ₁	R ₂	T
15	2 1/2	6	27	46	73	30	3:1	24 1/2	12 1/2	11	2
18	2 1/2	9	27	46	73	36	3:1	29	15 1/2	12	2 1/2
24	3	12	43 1/2	30	73 1/2	48	3:1	33 3/4	16 3/4	14	2 3/4
30	3 1/2	12	64	19 3/4	73 1/2	60	3:1	37	18 1/2	15	3
36	4	15	63	34 3/4	97 1/4	72	3:1	47 3/4	24 3/4	20	3 1/2
42	4 1/2	21	63	35	98	78	3:1	53 7/8	27 1/2	22	3 3/4
48	5	24	72	26	98	84	3:1	56 1/2	28 1/2	22	4 1/4

ALL DIMENSIONS IN INCHES

STORM DRAIN PROFILES

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

APPROVED
DIVISION OF LAND DEVELOPMENT
HOWARD COUNTY, MARYLAND
DATE 7-3-80

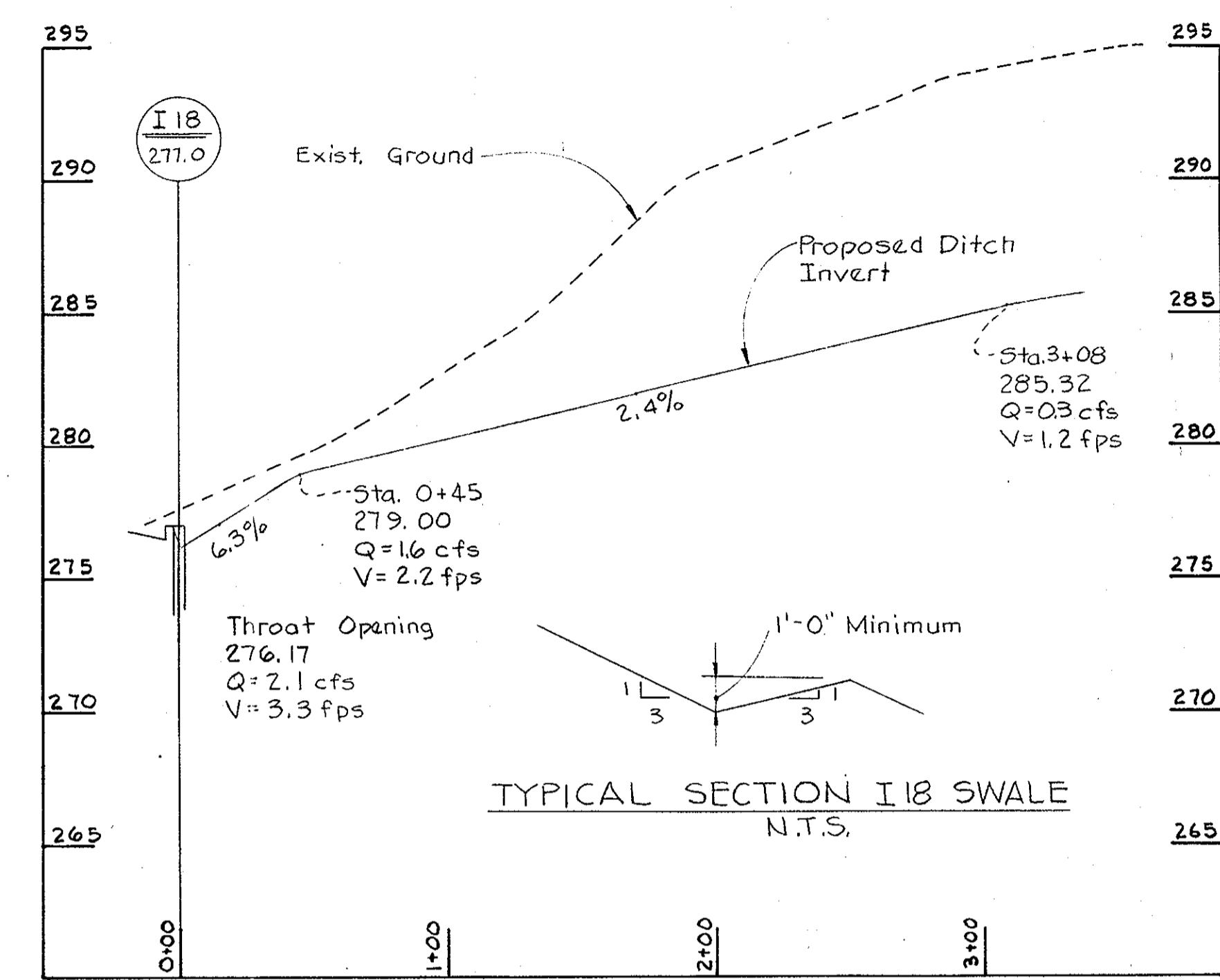
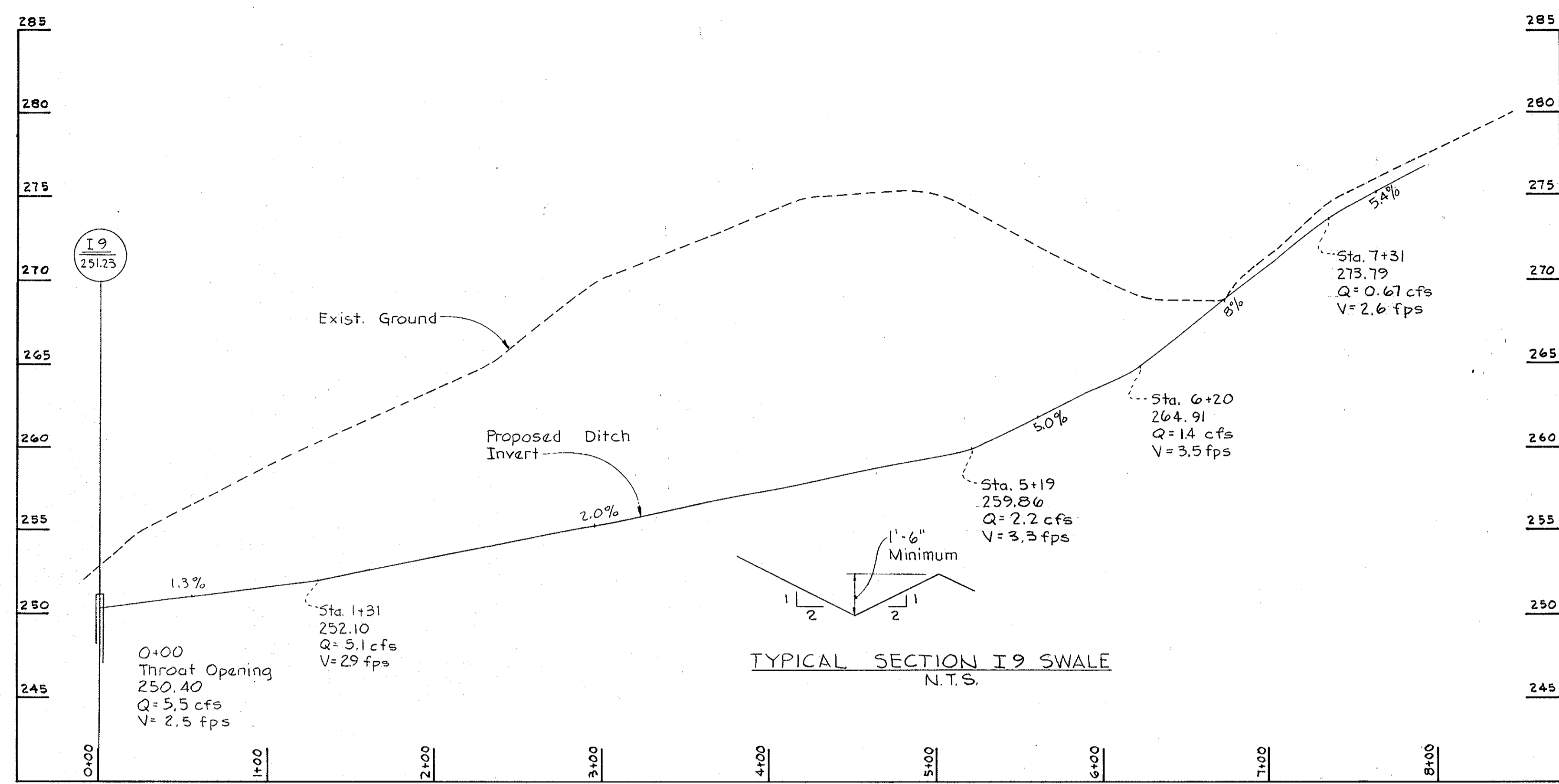
WHITMAN, REQUARDT AND ASSOCIATES
ENGINEERS
1111 N. CHARLES STREET
BALTIMORE, MARYLAND

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

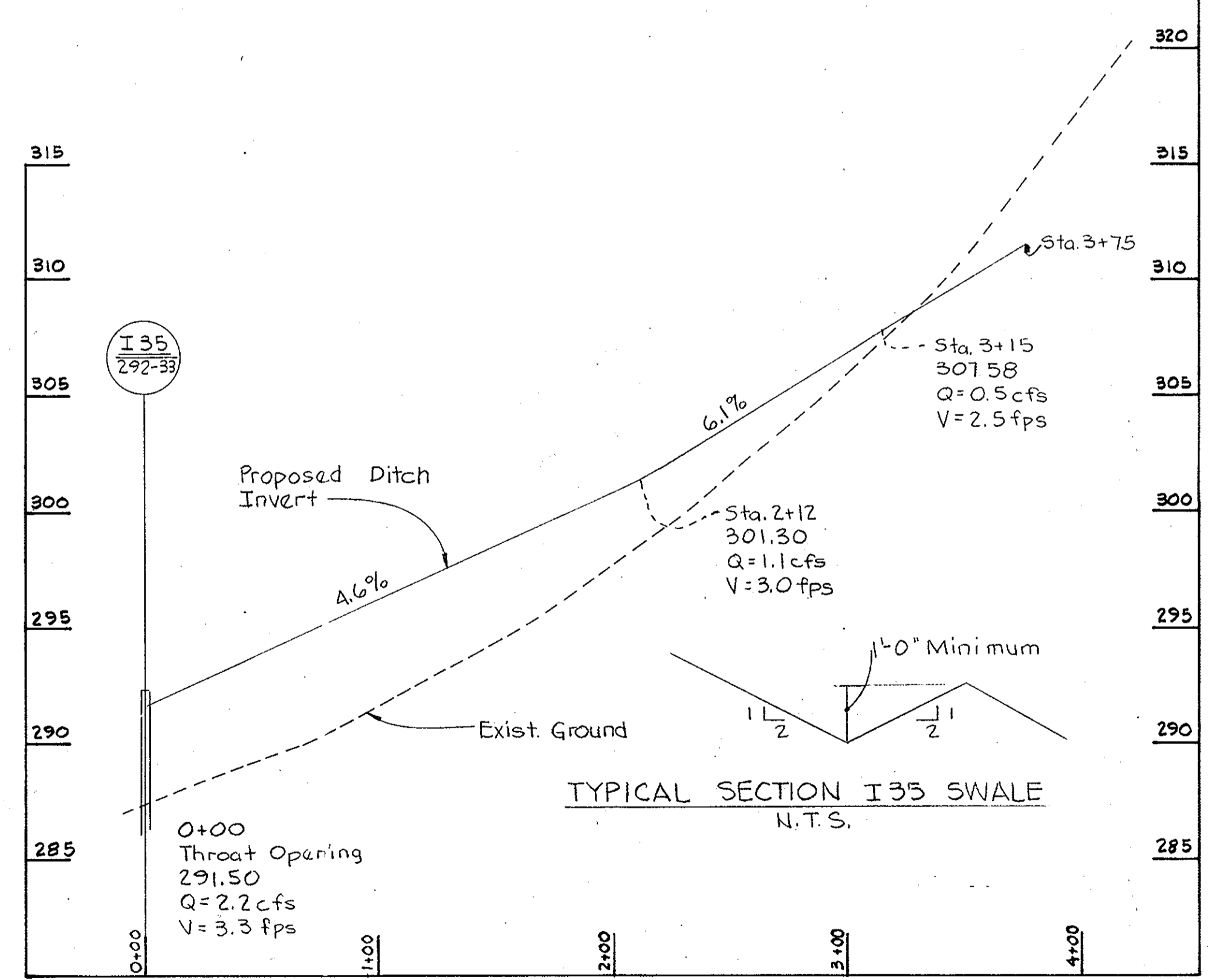
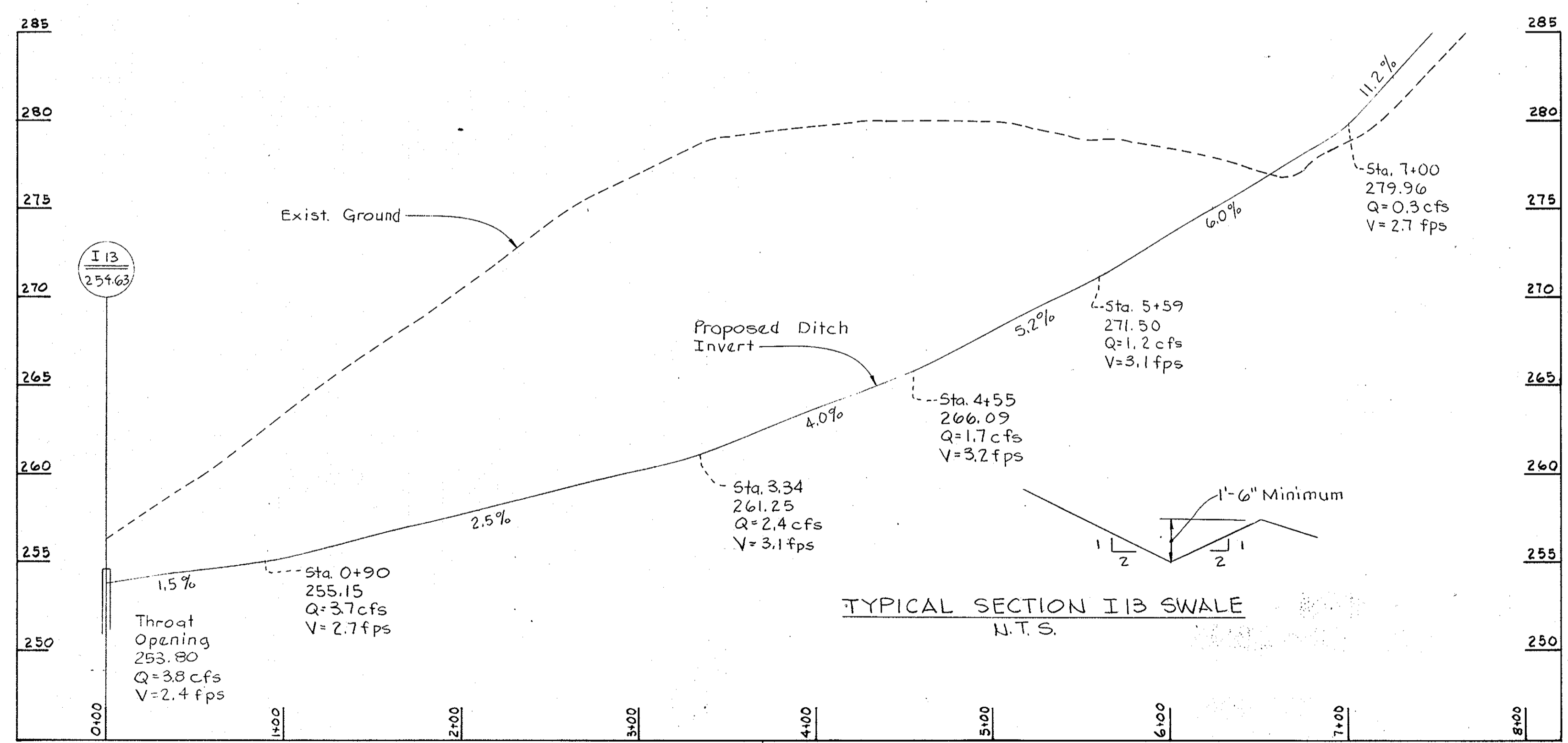
THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
APPROVED: HOWARD S.C.D.
SIGNATURE: U.S. SOIL CONSERVATION SERVICE
APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS
HOWARD COUNTY HEALTH DEPARTMENT.
COUNTY HEALTH OFFICER

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
DATE: November 16, 1979
PARCEL 163
SCALE: As Noted
SHEET 14 OF 33



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



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

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

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING
 PLANNING DIRECTOR: *James M. Harris* DATE: 8-12-80
 CHIEF, DIVISION OF LAND DEVELOPMENT: *James M. Harris* DATE: 8-12-80
 APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE AND STORM DRAINAGE SYSTEMS AND ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 DIRECTOR: *Wm. F. Nimmup* DATE: 8-11-80
 CHIEF BUREAU OF ENGINEERING: *James M. Harris* DATE: 8-11-80

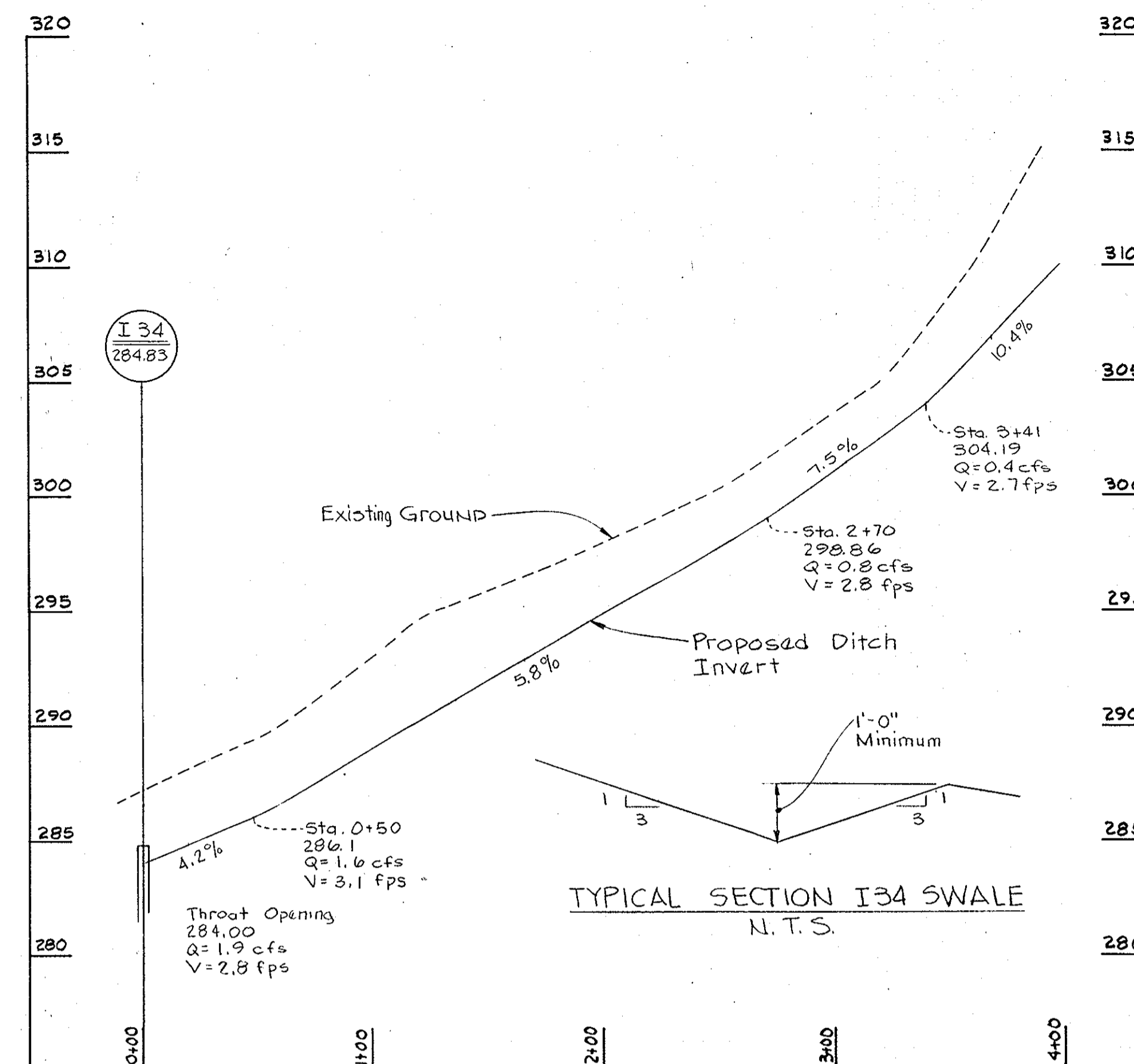
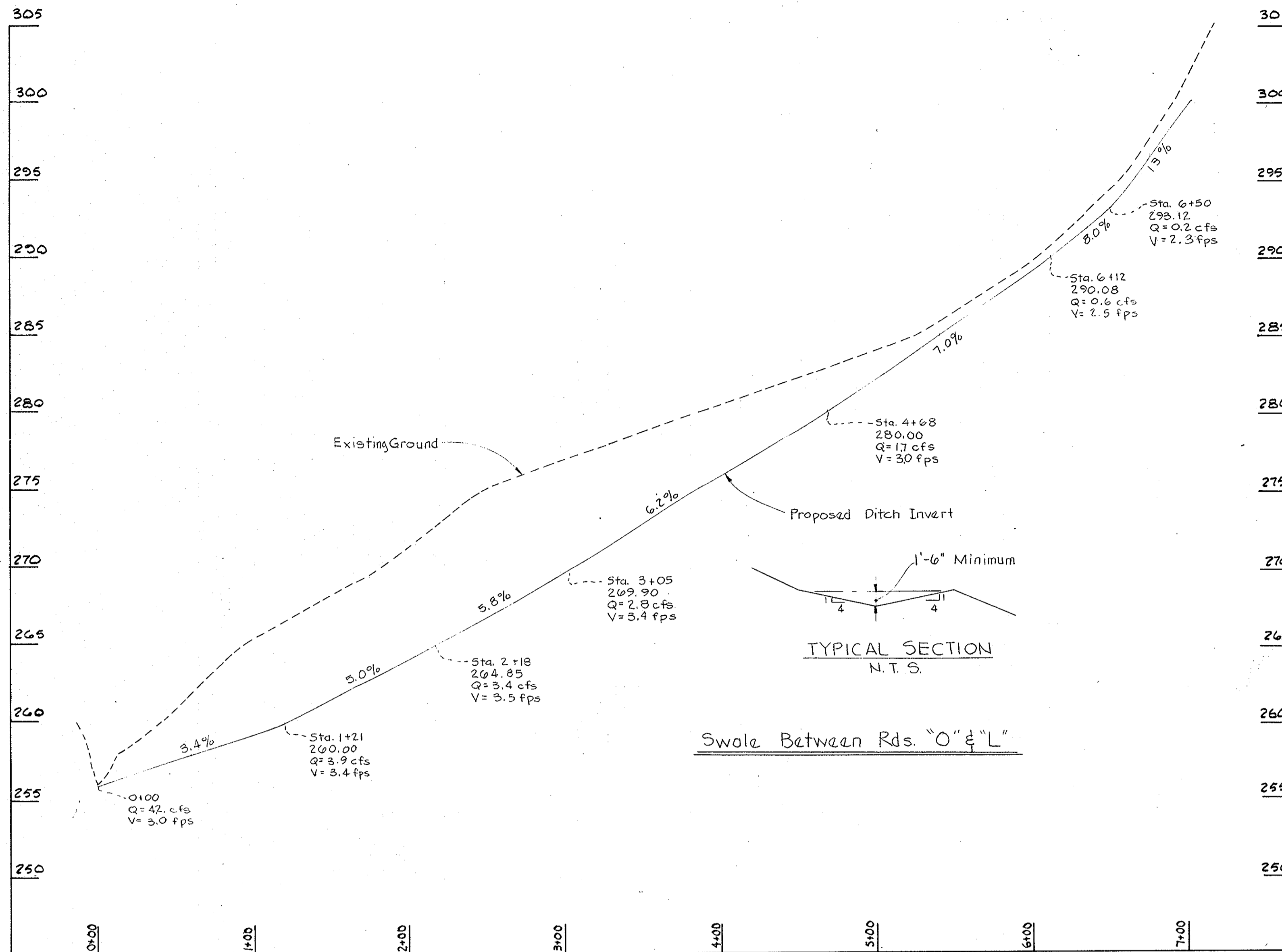
THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
 APPROVED: *Wm. Raine* HOWARD S.C.D. DATE: 8-13-80
 SIGNATURE: *James M. Harris* DATE: 8-13-80
 APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS HOWARD COUNTY HEALTH DEPARTMENT.
 COUNTY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

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

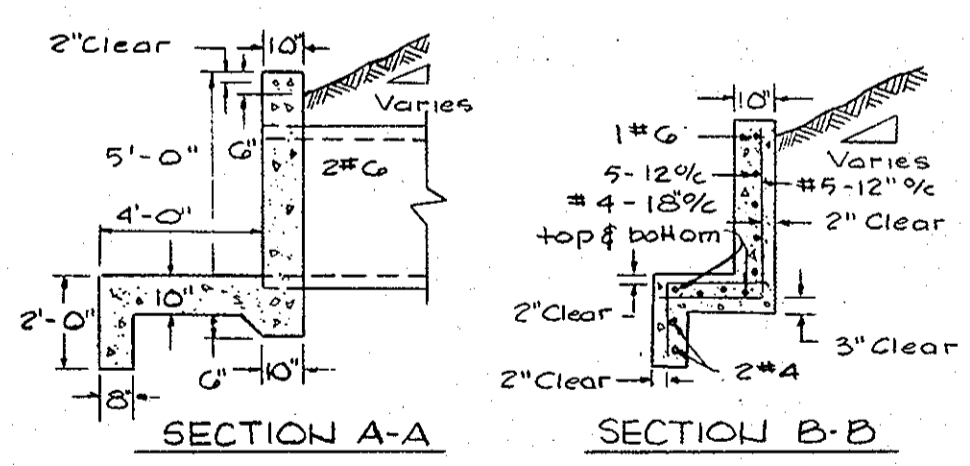
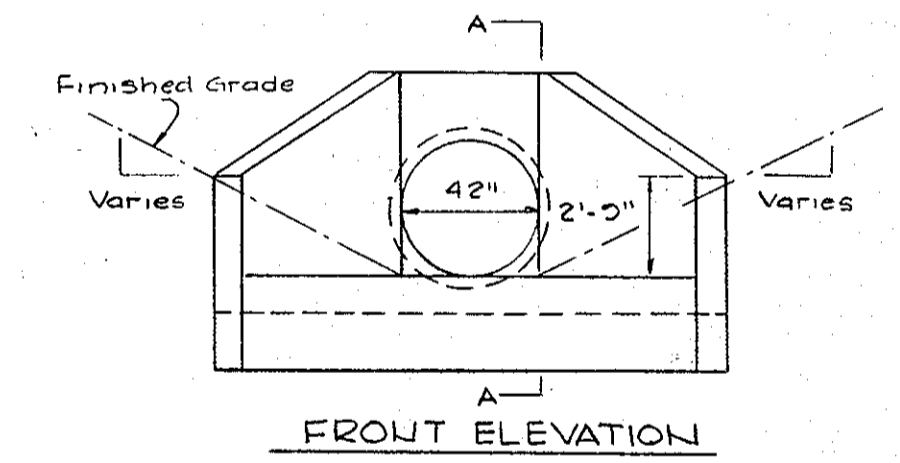
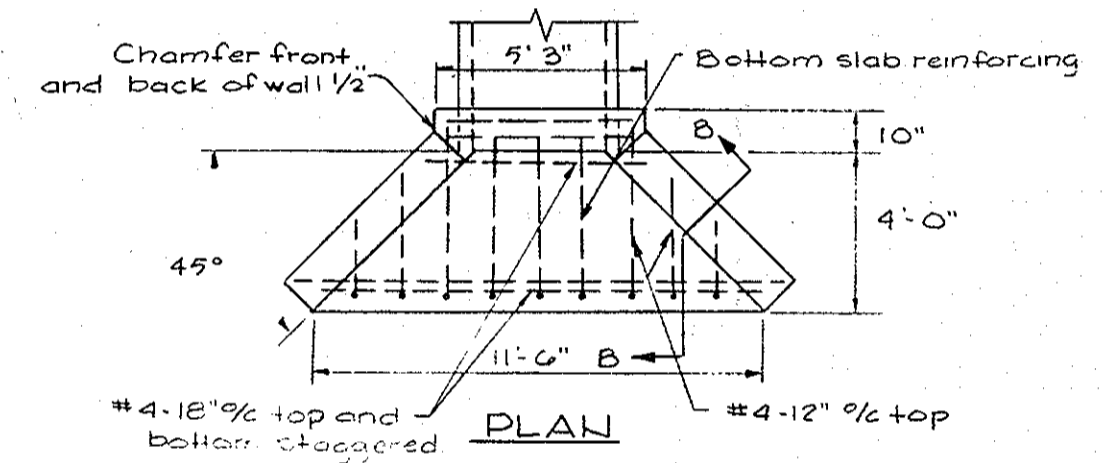
OWNER AND DEVELOPER
DEEP RUN ASSOCIATES
3701 OLD COURT ROAD UNIT #11
BALTIMORE, MARYLAND 21208

SITE DEVELOPMENT PLAN
DEEP RUN PARK - SECTION I
SWALE PROFILES
FIRST ELECTION DISTRICT OF HOWARD COUNTY MARYLAND
TAX MAP, 37
DATE: 4-16-80
PARCEL 163
SCALE: AS NOTED

SHEET
15
OF
33

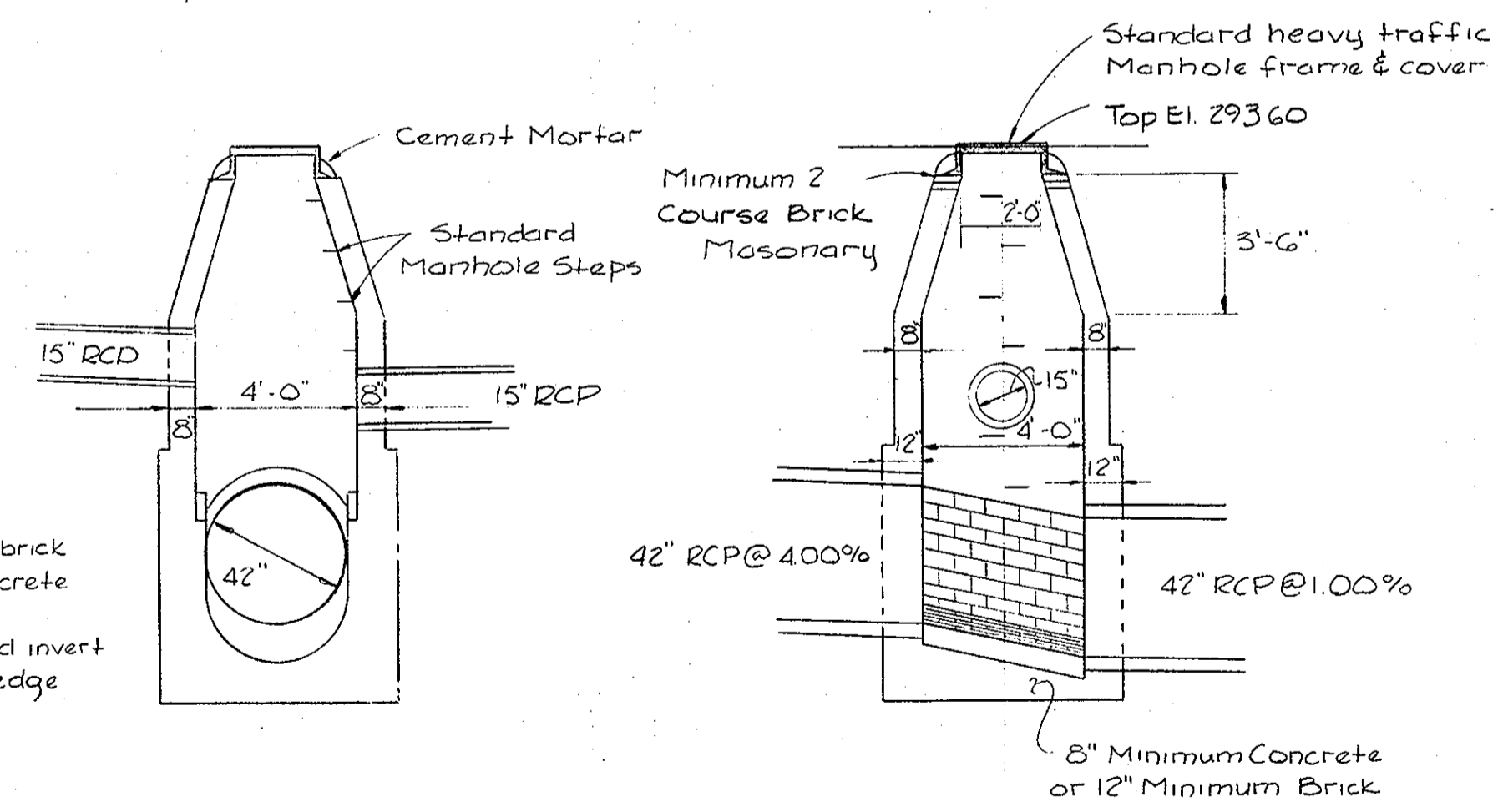
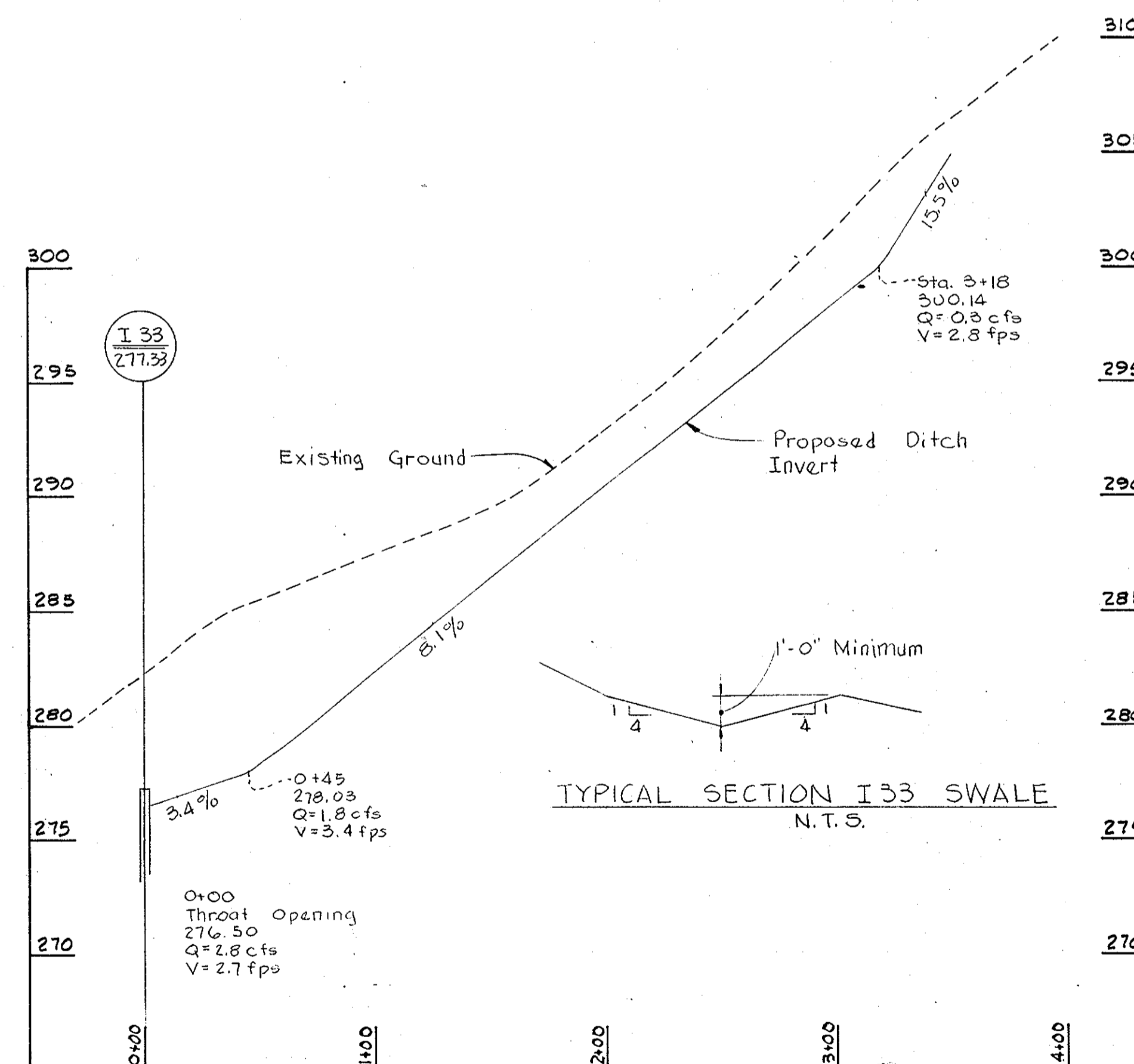


NOTE: JUTE MAT OR EXCELSIOR BLANKET REQUIRED ON SWALES I-33, I-34 & BETWEEN ROADS "O" & "L".



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

TYPE "A" HEADWALL Not to Scale



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

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

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

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

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

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

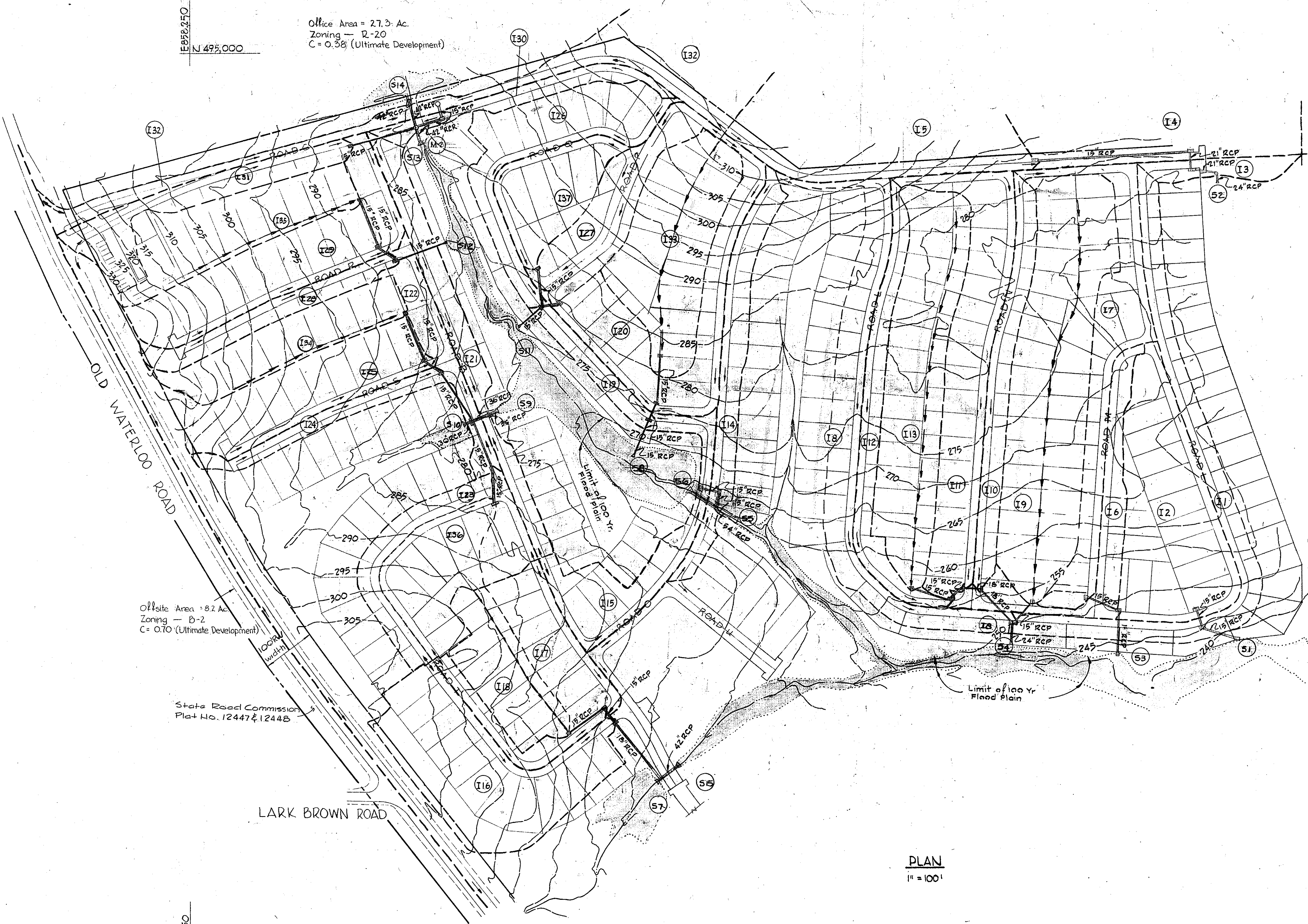
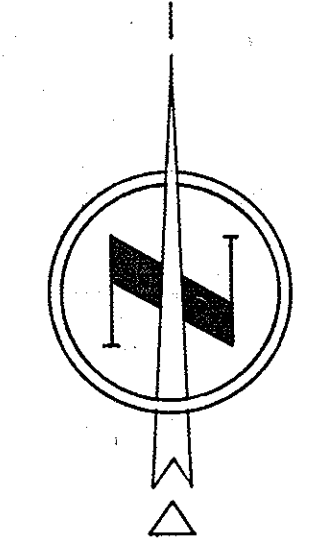
OWNER AND DEVELOPER
DEEP RUN ASSOCIATES
3701 OLD COURT ROAD, UNIT #11
BALTIMORE, MARYLAND 21208

SITE DEVELOPMENT PLAN
DEEP RUN PARK - SECTION I
- SWALE PROFILES -
FIRST ELECTION DISTRICT OF HOWARD COUNTY MARYLAND
PARCEL 163
SCALE: AS NOTED

SHEET 16 OF 33

E 856,250
N 493,000

Office Area = 27.3 Ac.
Zoning - R-20
C = 0.58 (Ultimate Development)



Offsite Area = 8.2 Ac.
Zoning - B-2
C = 0.70 (Ultimate Development)

State Road Commission
Plat No. 12447 & 12448

LARK BROWN ROAD

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	0.56
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	0.58
I 20	0.89	60	0.65
I 21	0.71	61	0.65
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

E 856,250
N 493,250

E 856,500
N 493,250

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
Thomas L. Hamilton
PLANNING DIRECTOR
DATE: 8-18-80

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE AND STORM DRAINAGE SYSTEMS AND ROADS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
John F. Norman
DIRECTOR
DATE: 8-11-80

CHIEF, BUREAU OF ENGINEERING
James S. [unclear]
DATE: 8-11-80

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

APPROVED: *Wm. J. [unclear]* HOWARD S.C.D. DATE: 8-13-80

SIGNATURE: *James M. [unclear]* U.S. SOIL CONSERVATION SERVICE DATE: 8-13-80

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS
HOWARD COUNTY HEALTH DEPARTMENT
James [unclear]
COUNTY HEALTH OFFICER DATE: 8-14-80

APPROVED
DIVISION OF LAND DEVELOPMENT
HOWARD COUNTY, MARYLAND
DATE: 7-3-80

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

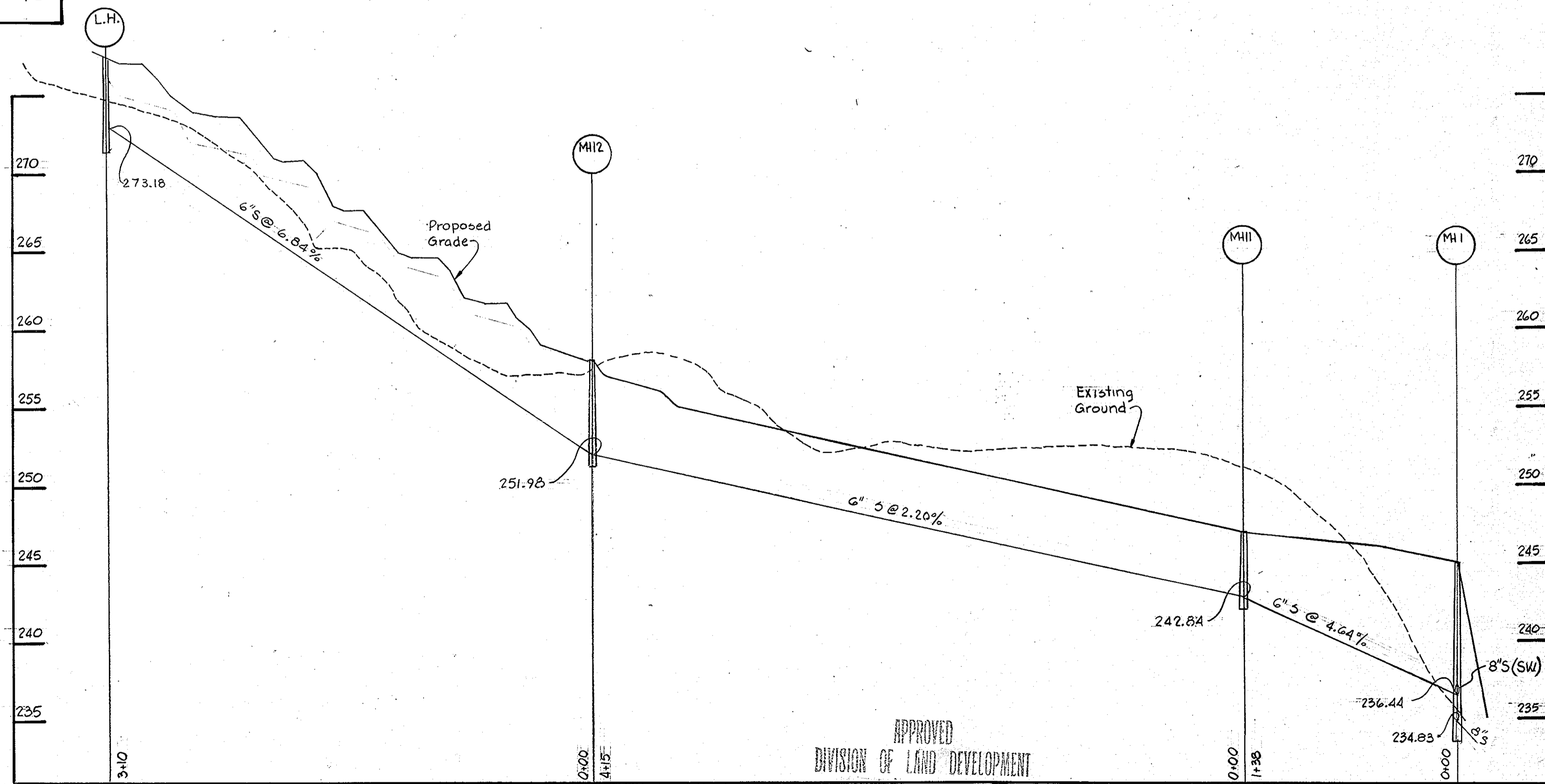
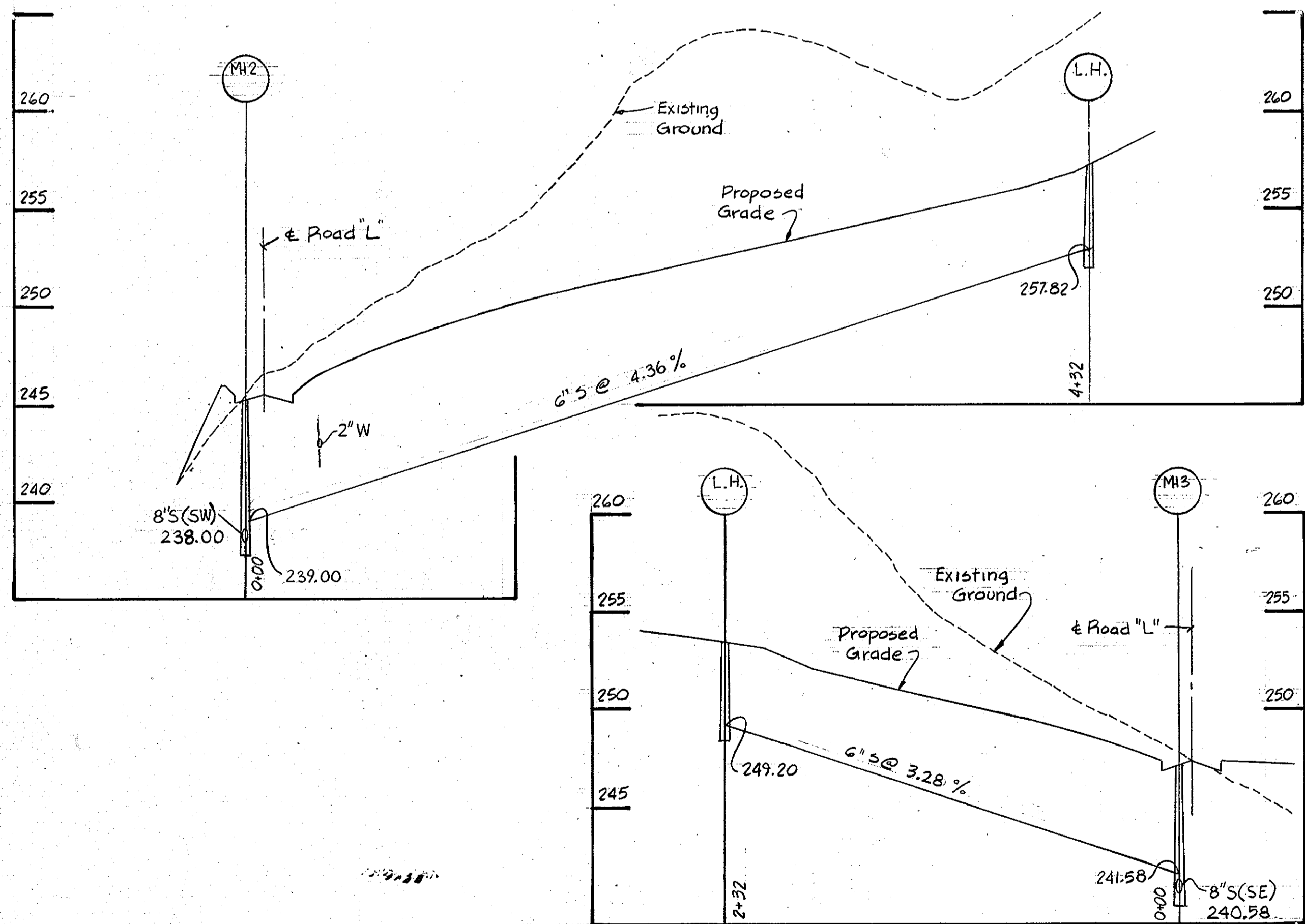
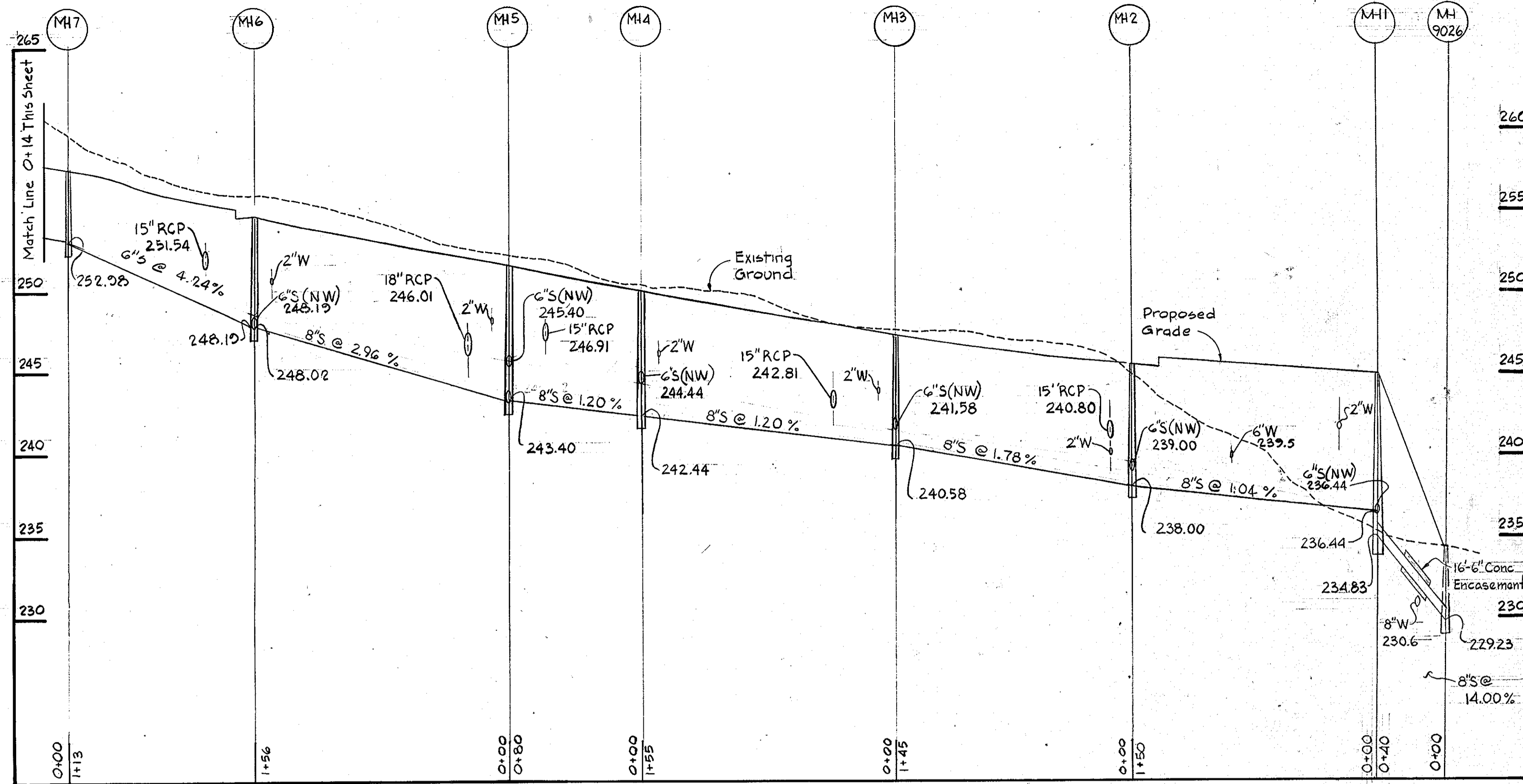
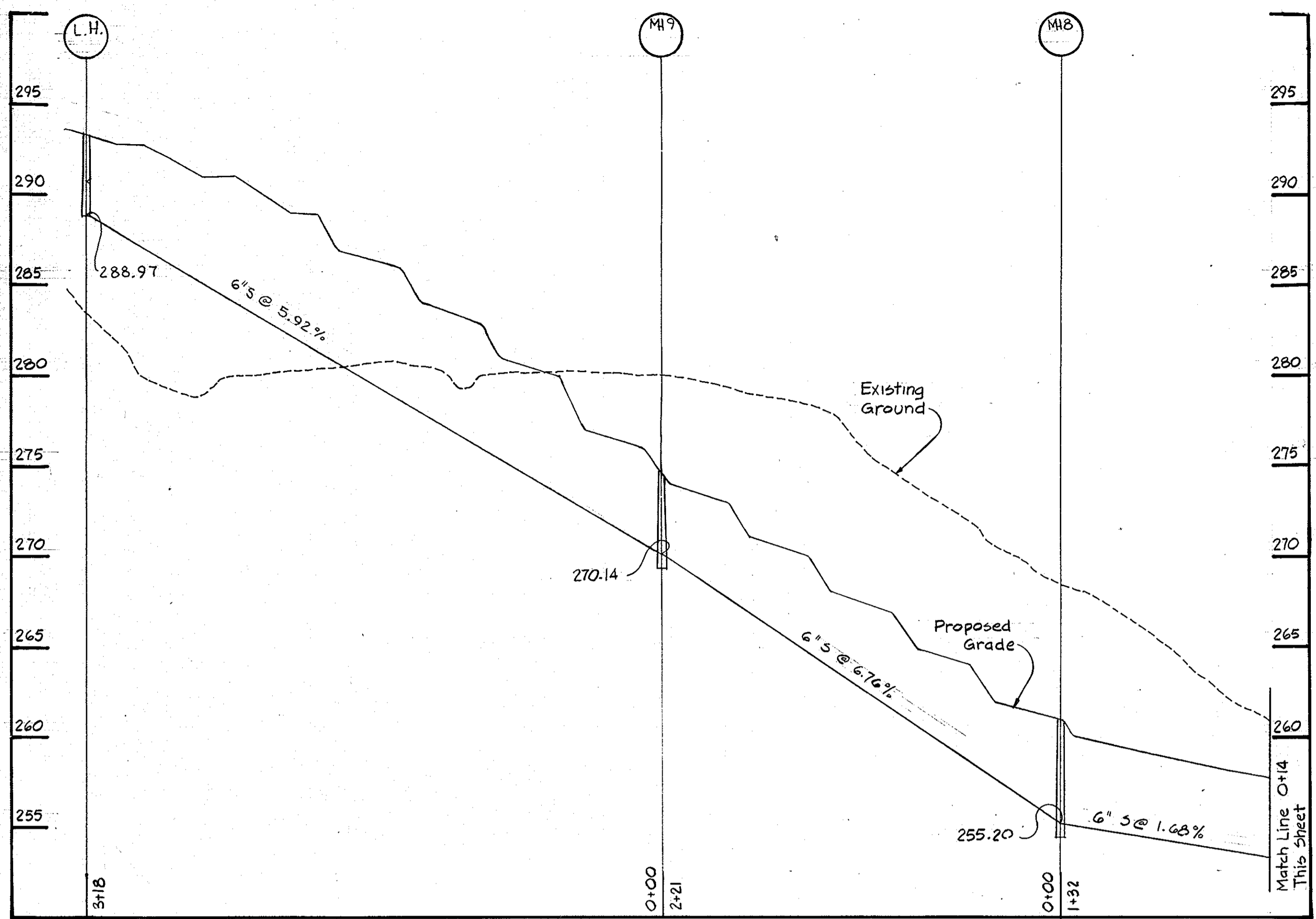
FIRST ELECTION DISTRICT OF HOWARD COUNTY MARYLAND
TAX MAP 37
DATE: November 16, 1979

PARCEL 163
SCALE: As Noted

SHEET 17 OF 33

6-11-80

SDP-80-95



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

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING
William J. Davis 8-18-80
 PLANNING DIRECTOR DATE
 APPROVED: *William J. Davis* 8-18-80
 CHIEF DIVISION OF LAND DEVELOPMENT DATE
 APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE AND STORM DRAINAGE SYSTEMS AND ROADS
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
William E. Nims 8-11-80
 DIRECTOR DATE
Kenneth A. McCord 8-11-80
 CHIEF, BUREAU OF ENGINEERING DATE

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

SEWER PROFILES

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

APPROVED
DIVISION OF LAND DEVELOPMENT
DATE 7-8-80

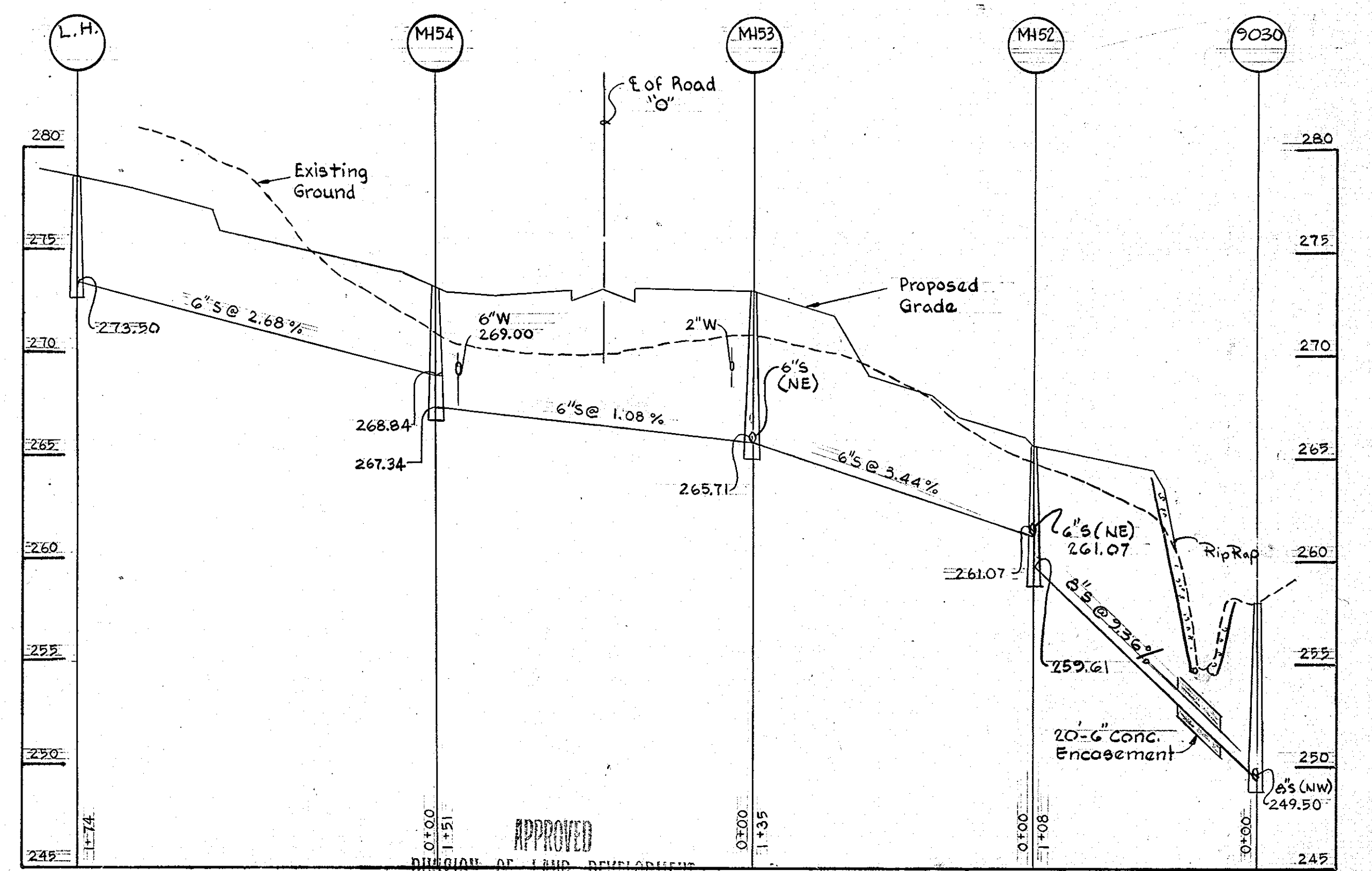
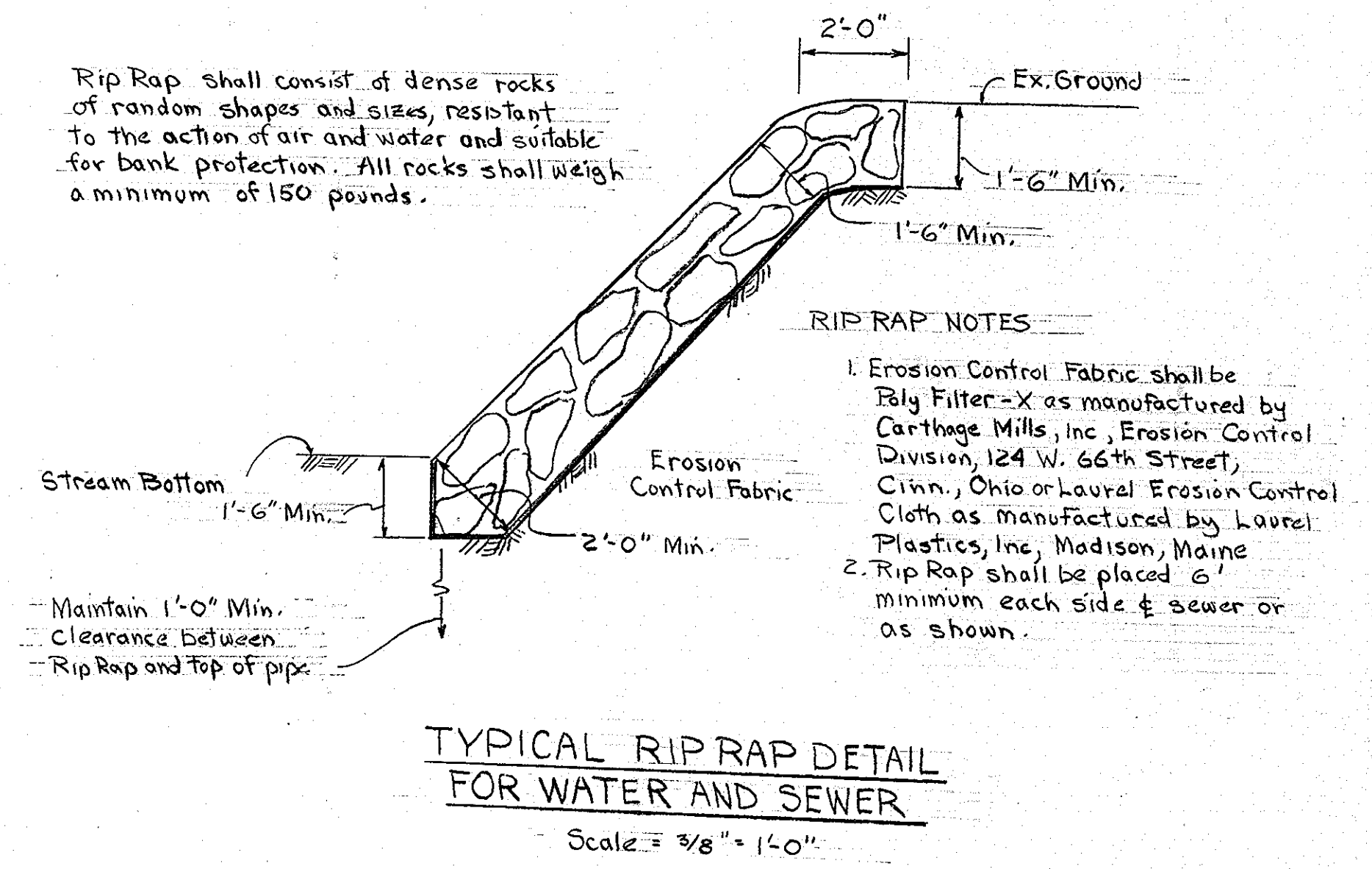
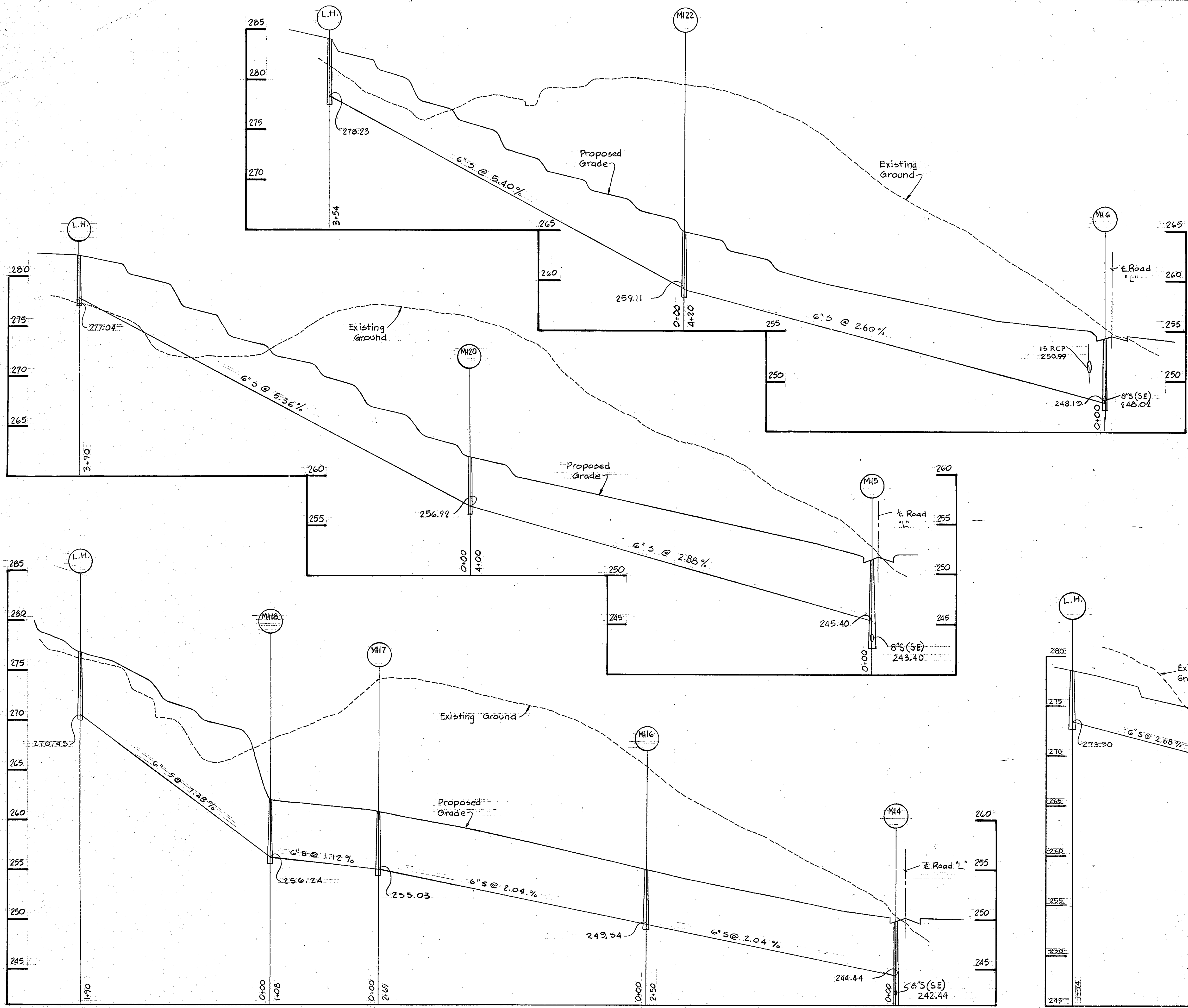
HOWARD COUNTY, MARYLAND
DATE 7-8-80

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 18 OF 33



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

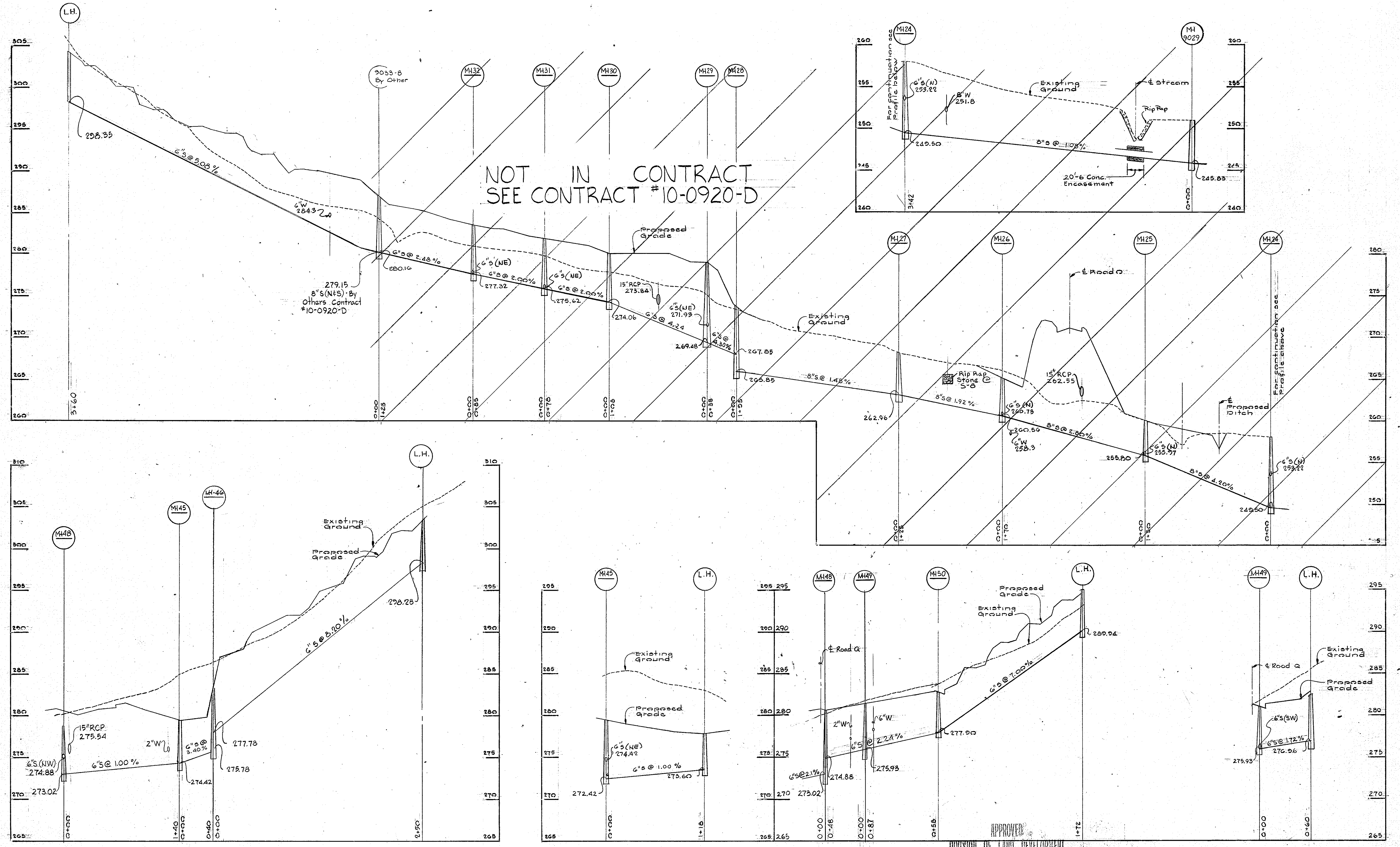
APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING
 PLANNING DIRECTOR
 CHIEF, DIVISION OF LAND DEVELOPMENT
 APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE AND STORM DRAINAGE SYSTEMS AND ROADS
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 DIRECTOR
 CHIEF, BUREAU OF ENGINEERING

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

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

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

SITE DEVELOPMENT PLAN
 DEEP RUN PARK - SECTION I
 SEWER PROFILES
 FIRST ELECTION DISTRICT OF HOWARD COUNTY MARYLAND
 TAX MAP 37
 DATE: November 16, 1979
 OWNER AND DEVELOPER
 DEEP RUN ASSOCIATES
 3701 OLD COURT ROAD UNIT #11
 BALTIMORE, MARYLAND 21208
 PARCEL 163
 SCALE: As Noted
 SHEET 35 OF 35



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

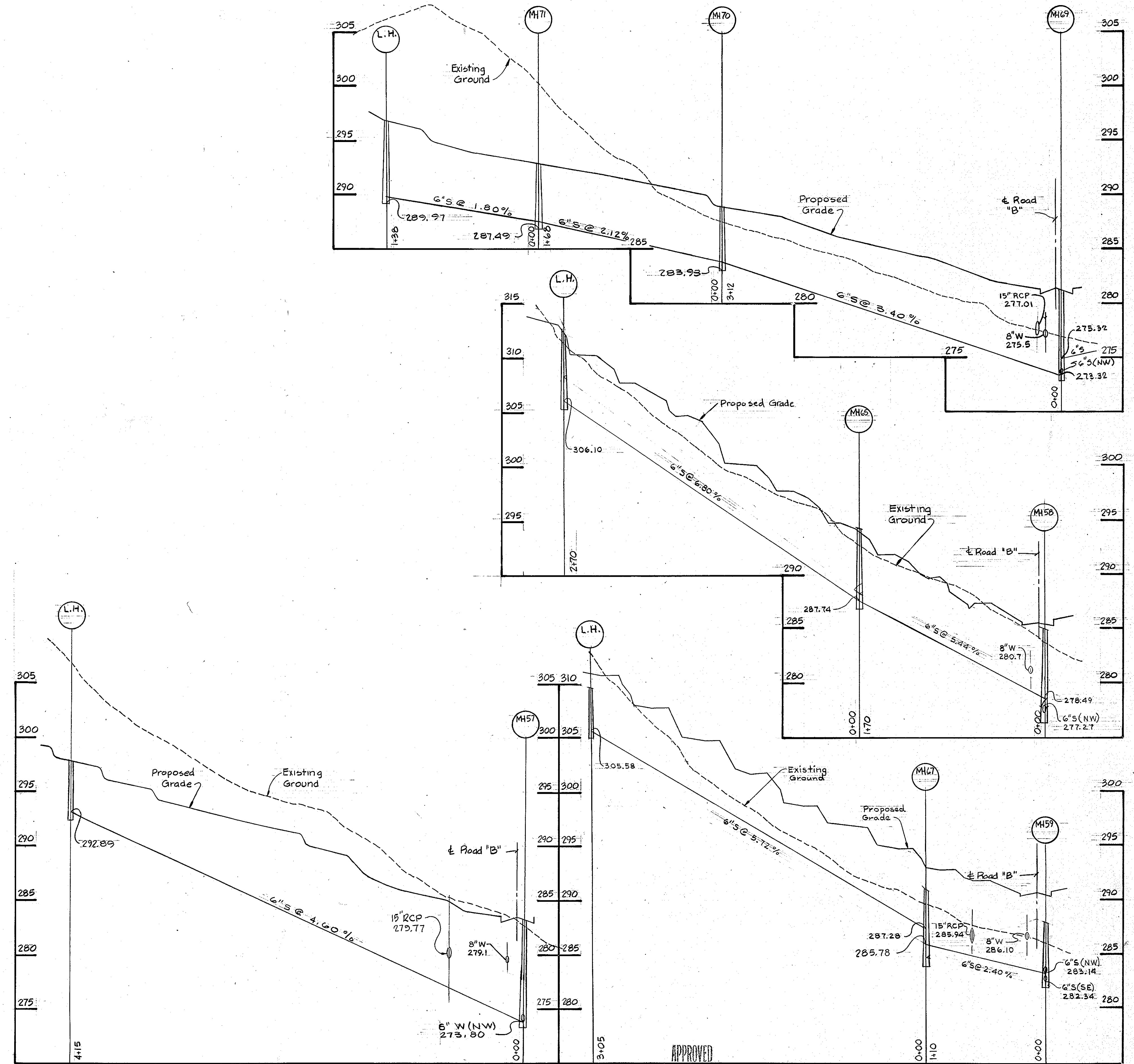
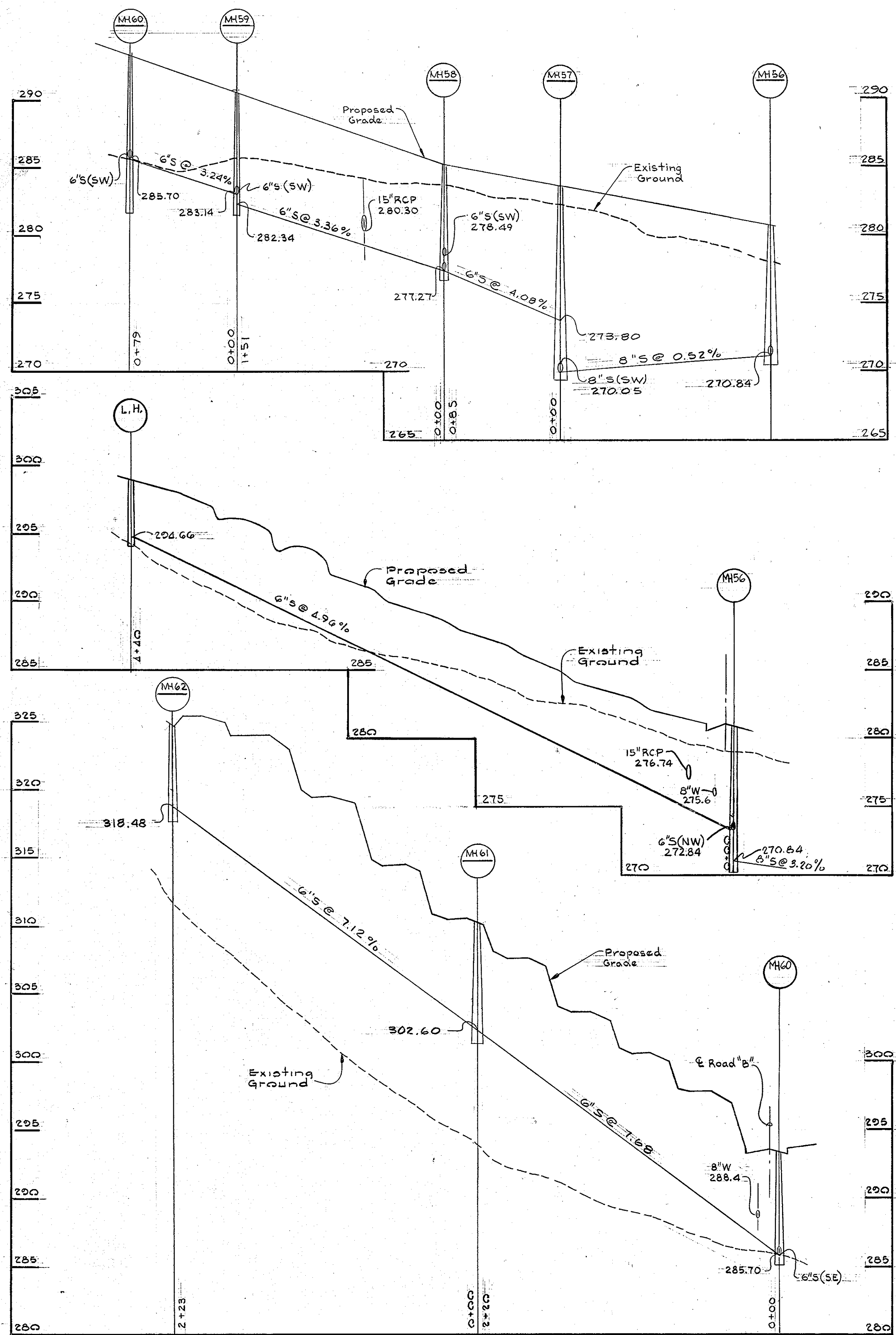
APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING
 PLANNING DIRECTOR: *Thomas A. Hanks* 8-18-80
 DATE: 8-18-80
 CHIEF DIVISION OF LAND DEVELOPMENT
 APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE AND STORM DRAINAGE SYSTEMS AND ROADS
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 DIRECTOR: *John F. Newman*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

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: 8-17-80
 SIGNATURE: *James McNeil* DATE: 8-13-80
 U.S. SOIL CONSERVATION SERVICE
 APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS
 HOWARD COUNTY HEALTH DEPARTMENT.
 COUNTY HEALTH OFFICER: *John Brown* DATE: 8-14-80

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

APPROVED: *[Signature]*
 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
 DATE: November 16, 1979
 PARCEL 163
 SCALE: As Noted
 SHEET 20 OF 33



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

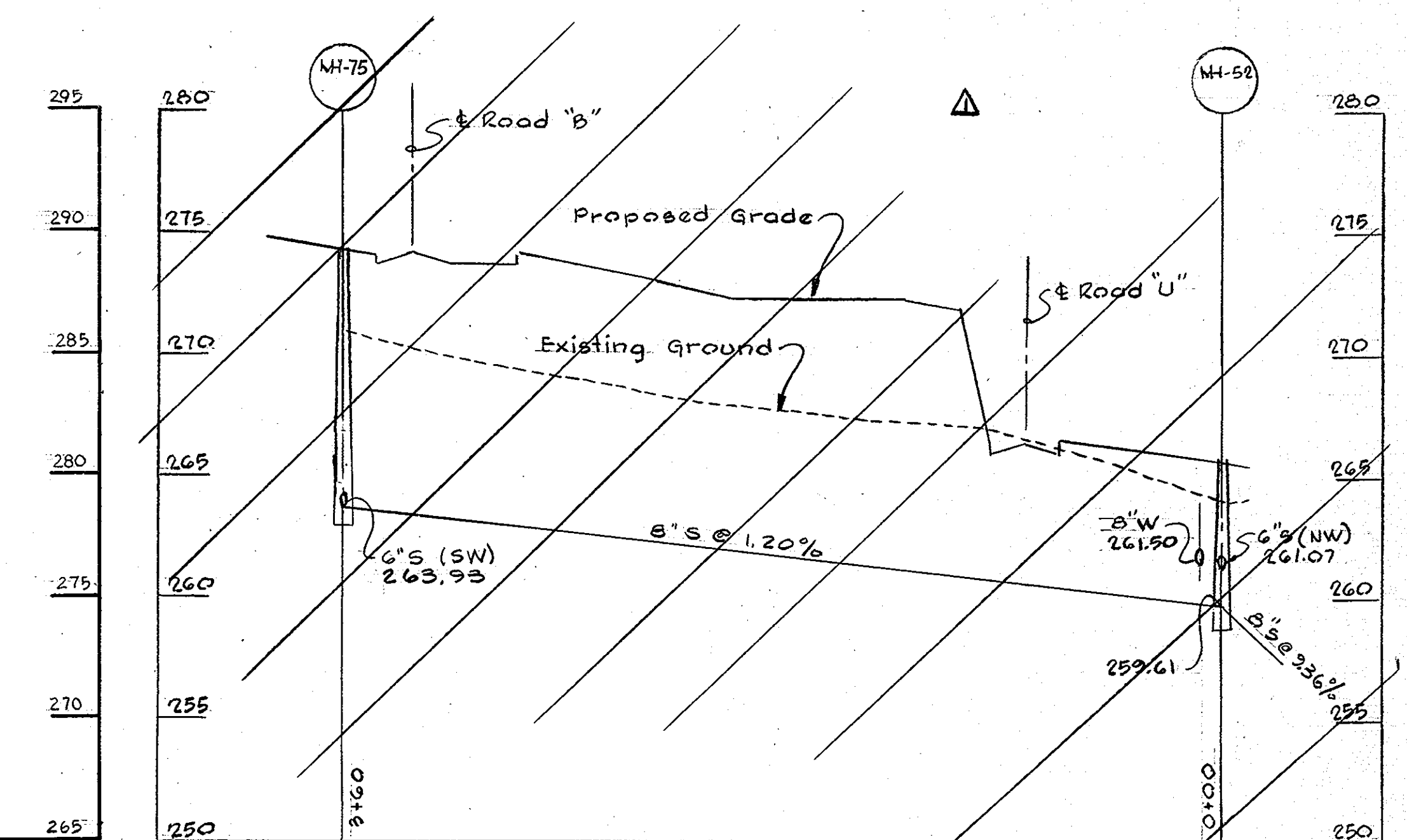
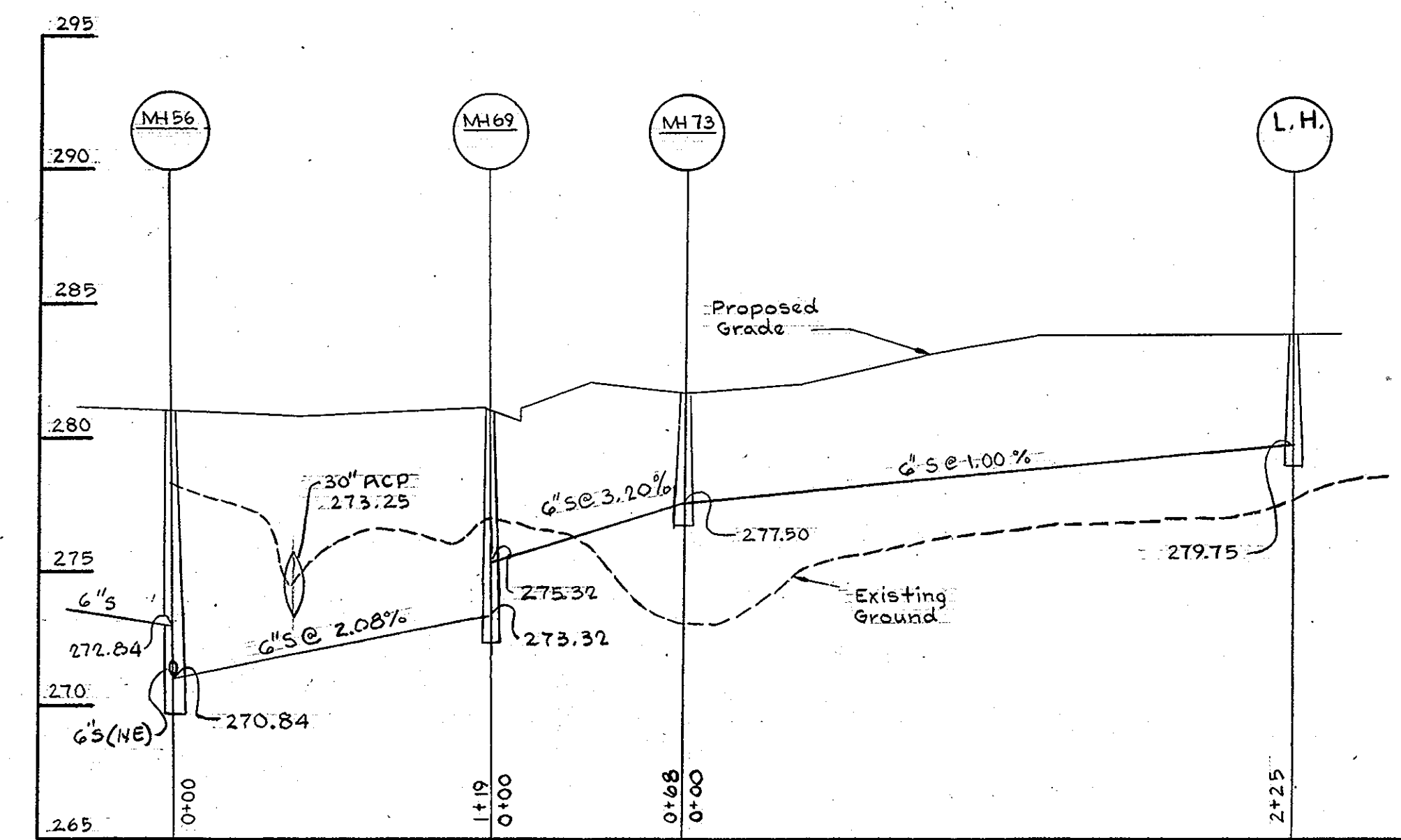
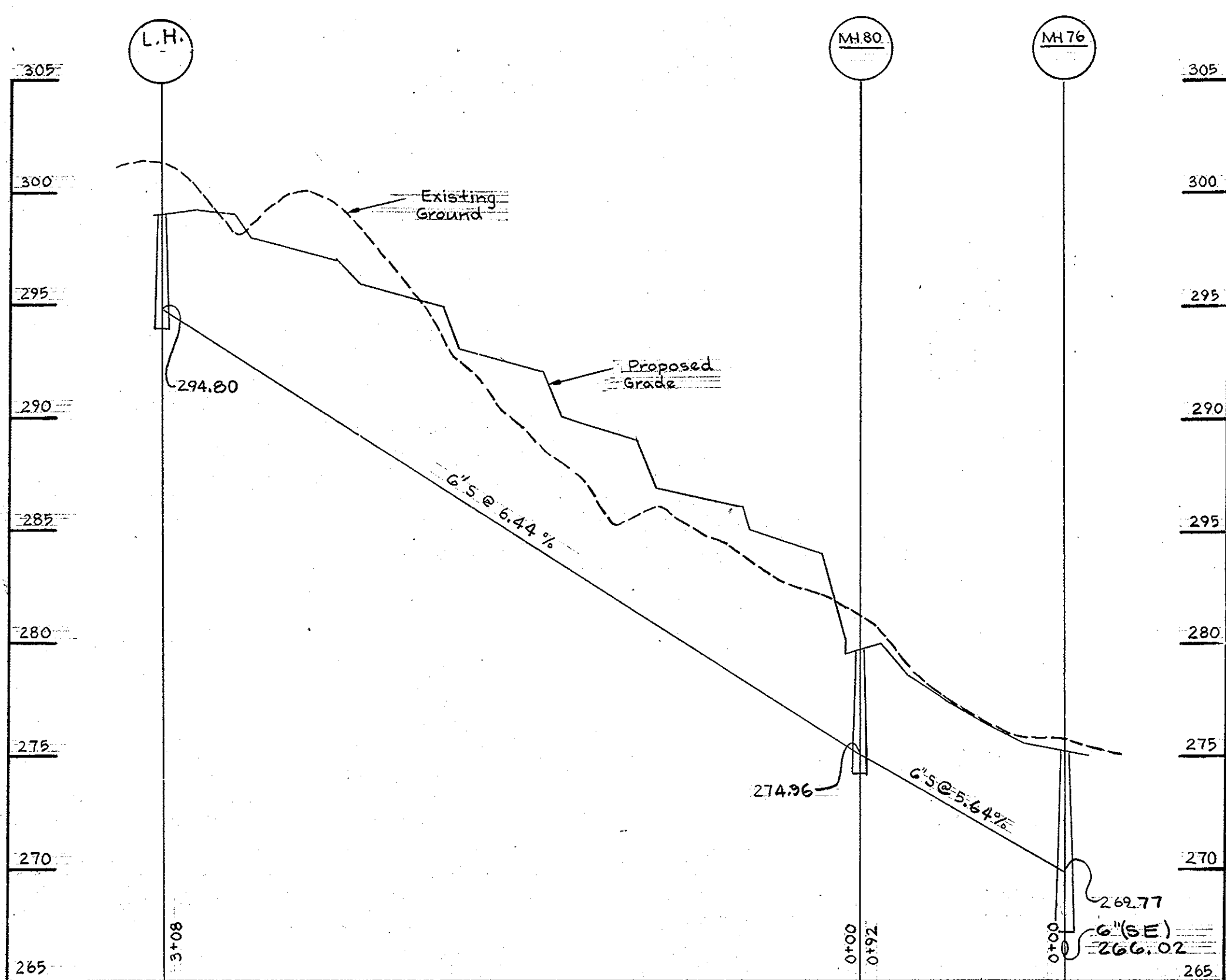
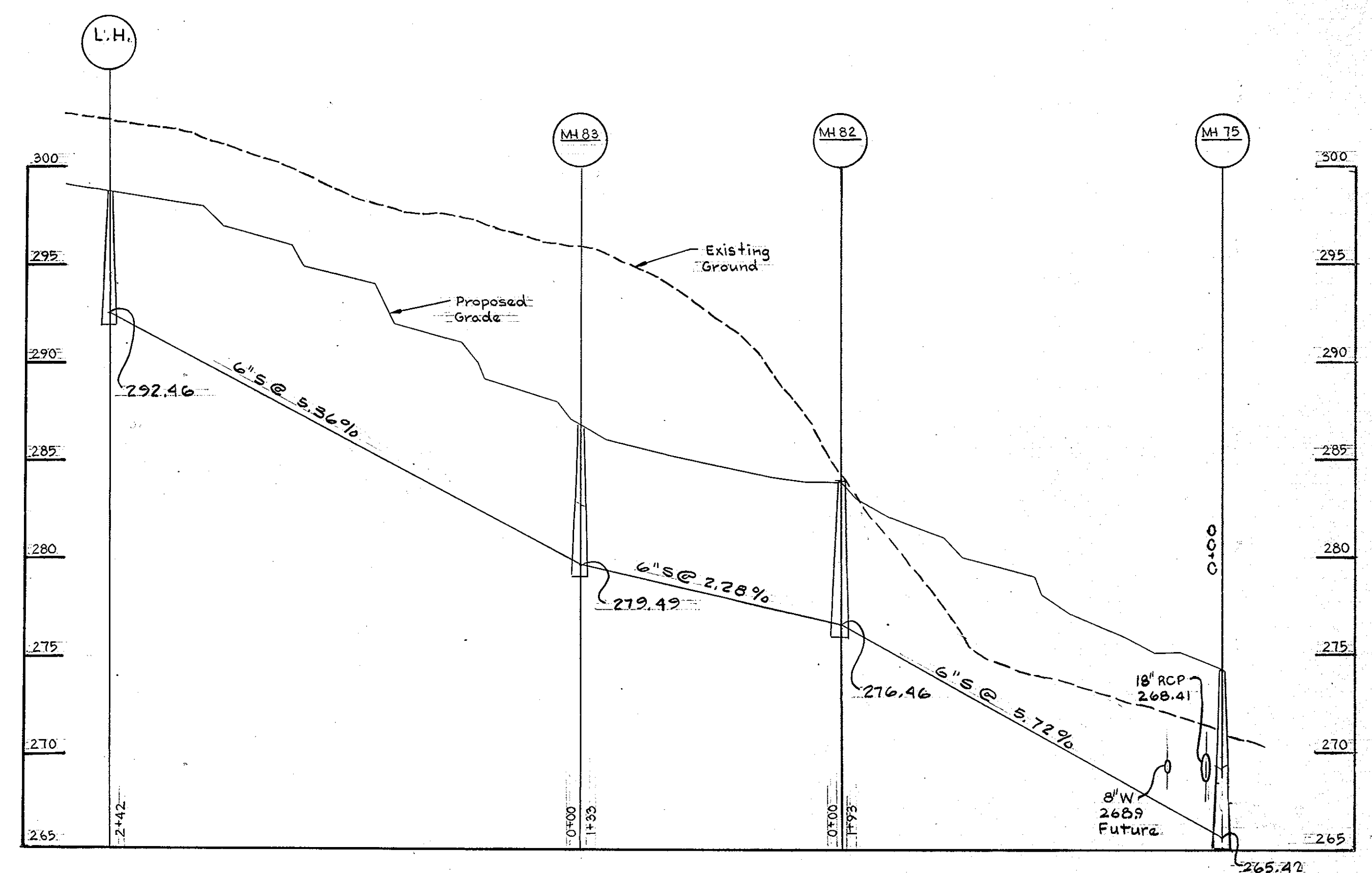
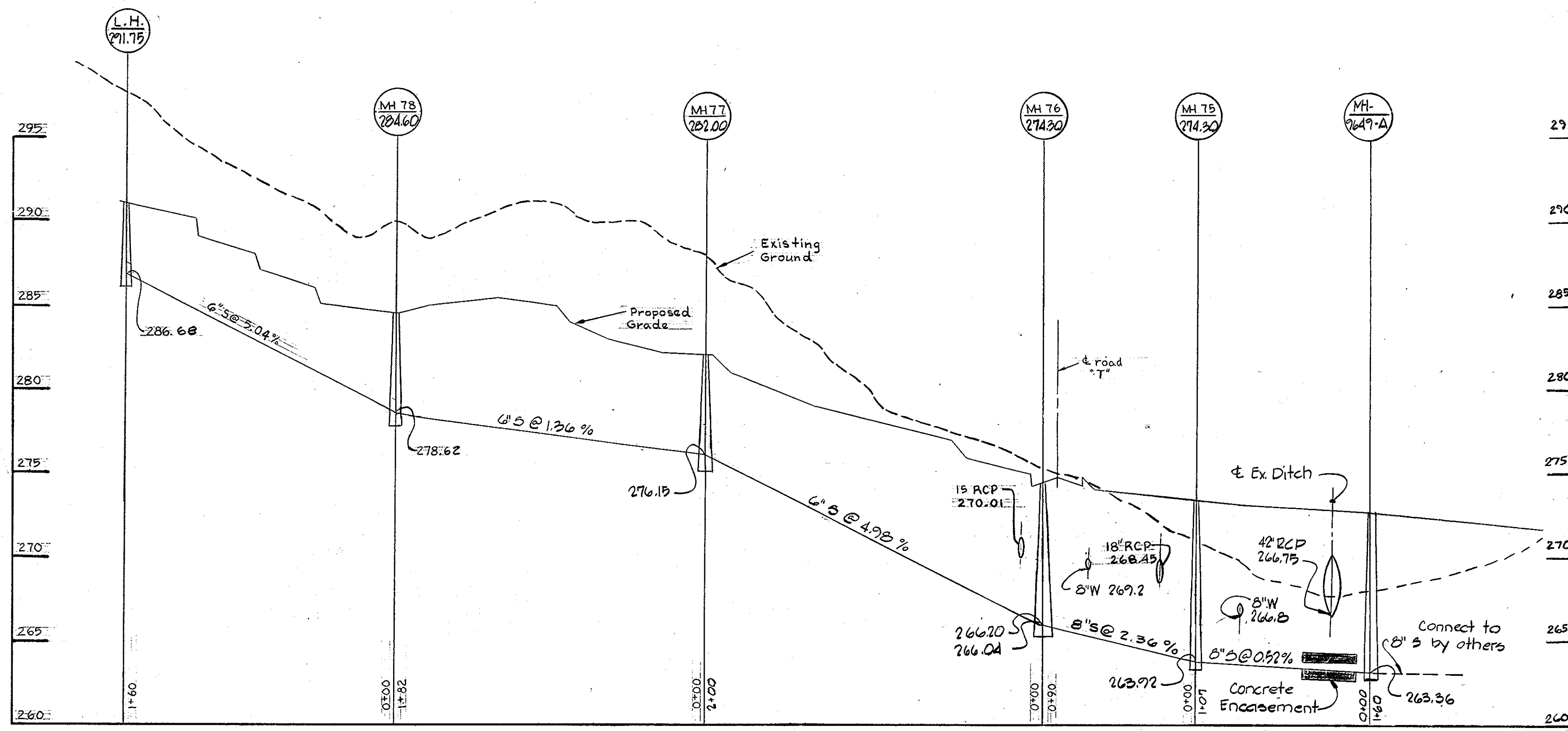
APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING
 Planning Director: *[Signature]* DATE: 8-18-80
 Chief, Division of Land Development: *[Signature]* DATE: 8-18-80
 APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE AND STORM DRAINAGE SYSTEMS AND ROADS
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 Director: *[Signature]* DATE: 8-11-80
 Chief, Bureau of Engineering: *[Signature]* DATE: 8-11-80

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
 APPROVED: *[Signature]* HOWARD S.C.D. DATE: 8-13-80
 Signature: *[Signature]* DATE: 8-13-80
 APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS
 HOWARD COUNTY HEALTH DEPARTMENT.
 County Health Officer: *[Signature]* 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
 DATE: November 16, 1979
 PARCEL 163
 SCALE: As Noted
 SHEET 21 OF 35



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

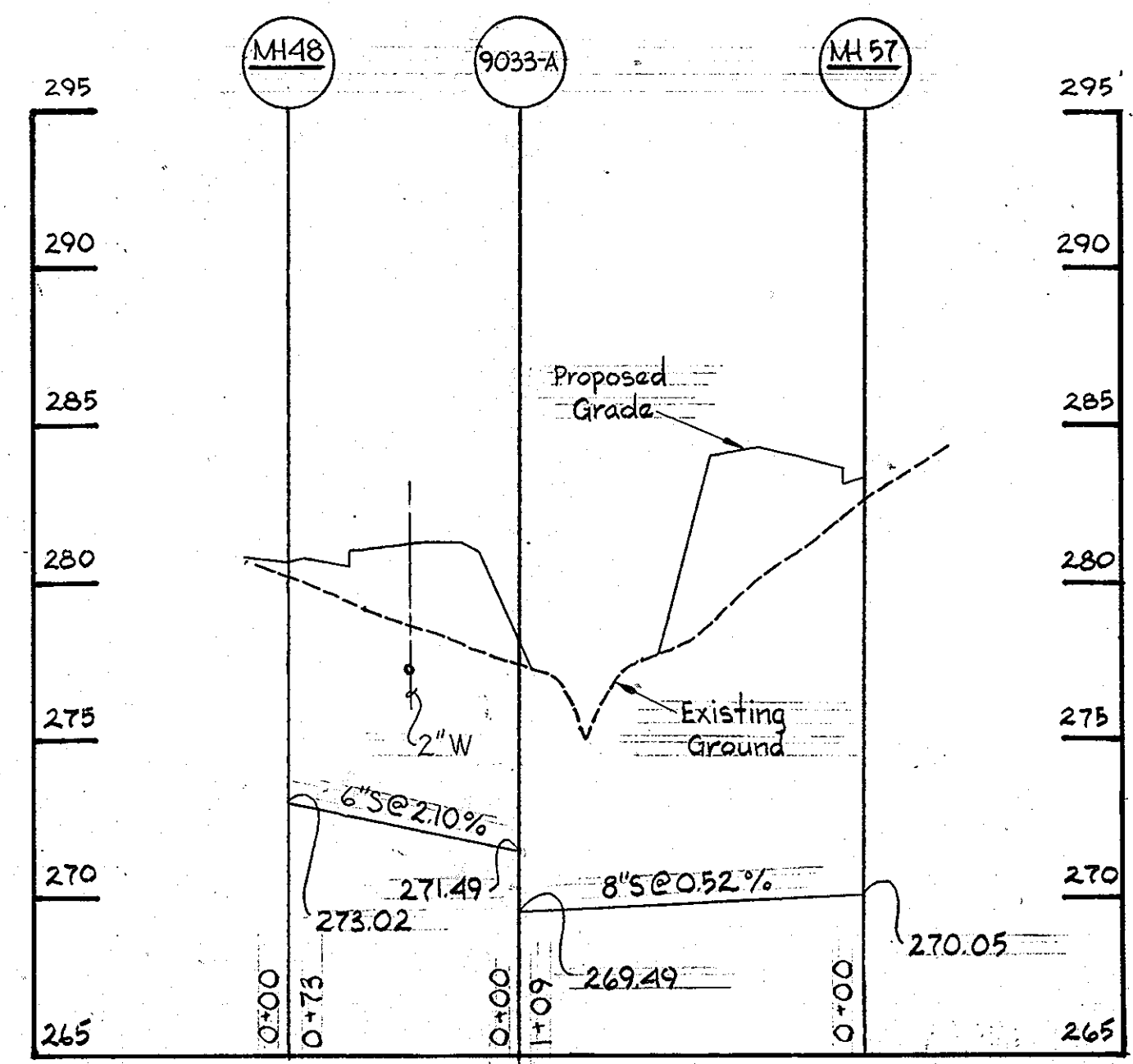
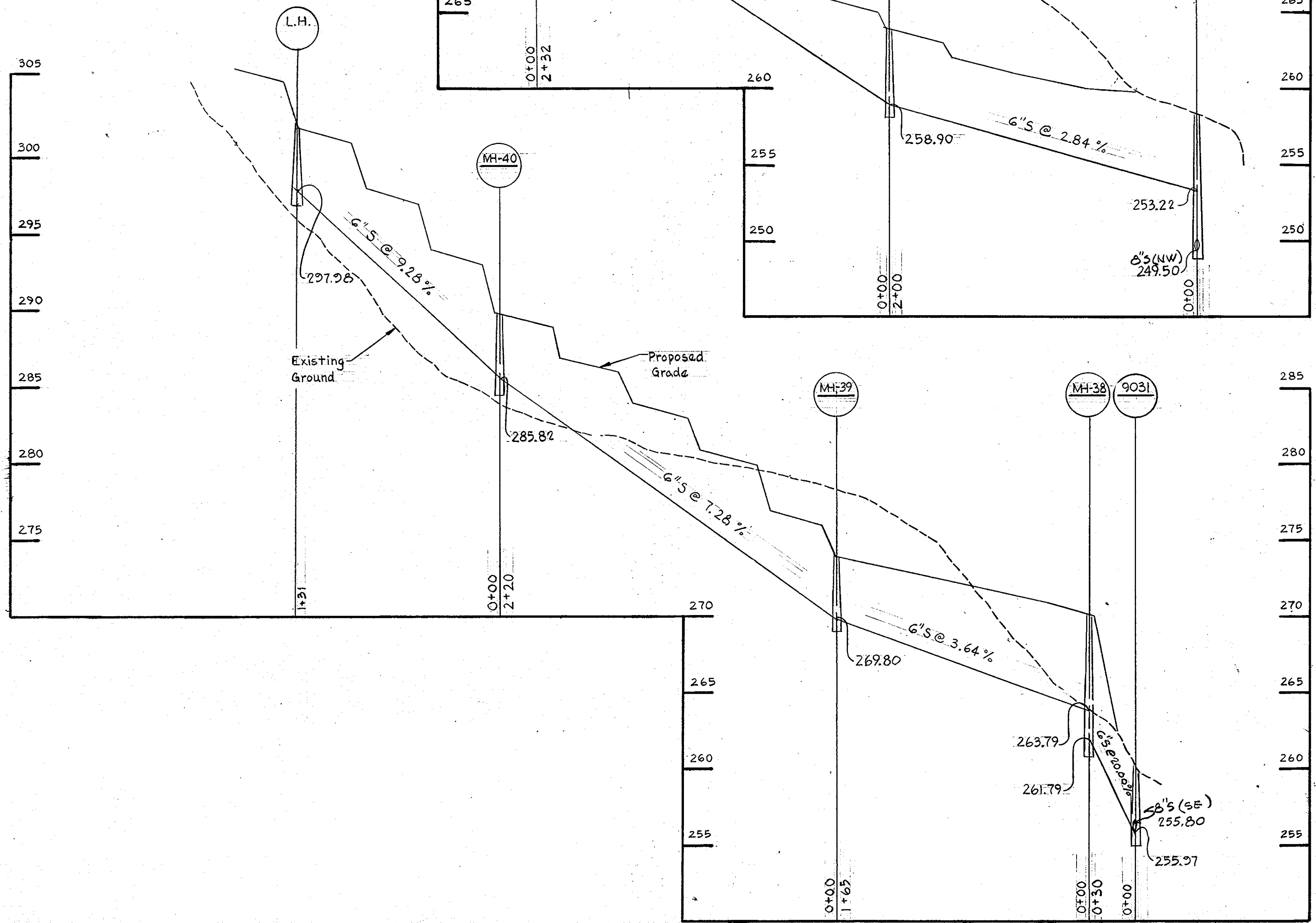
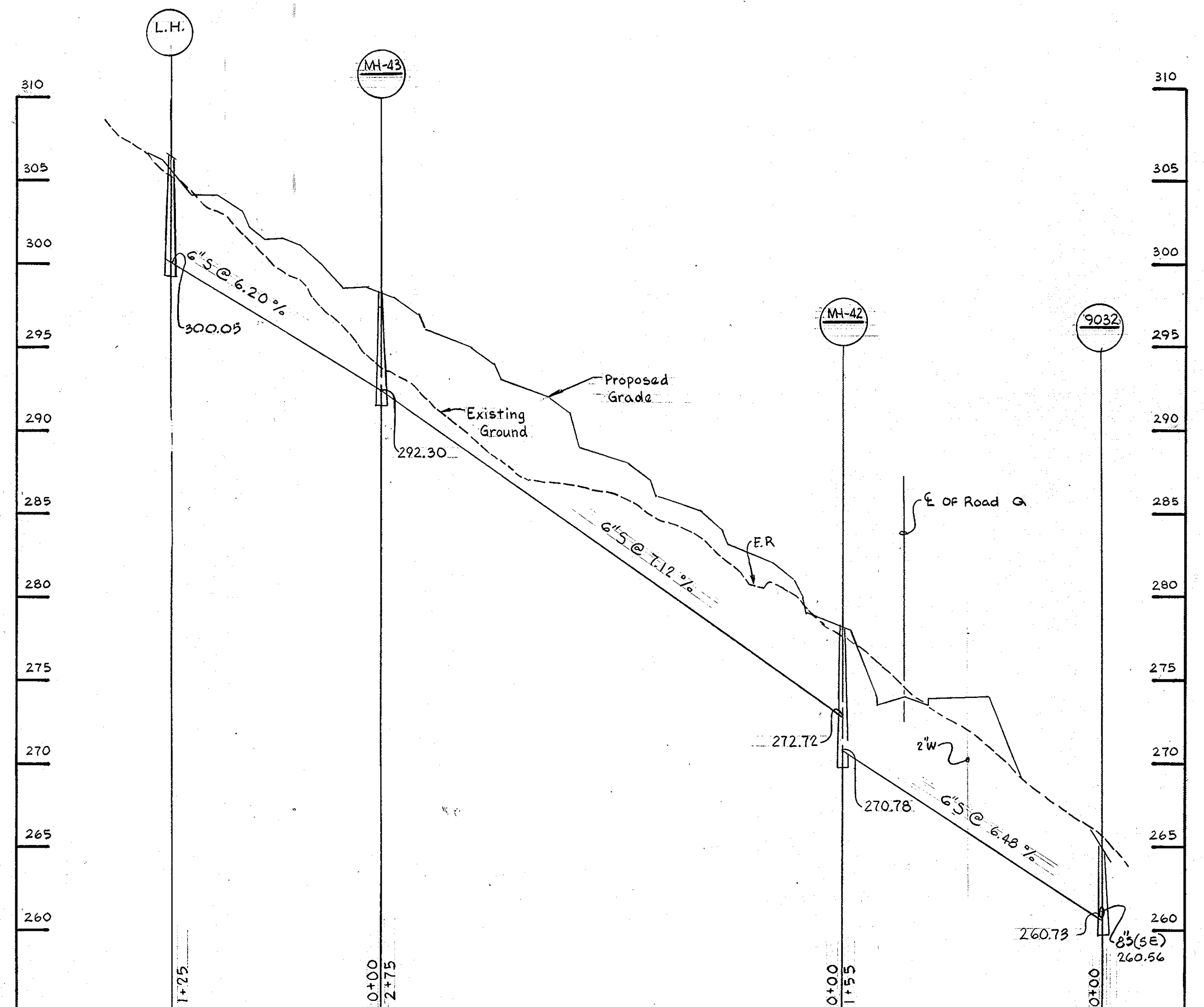
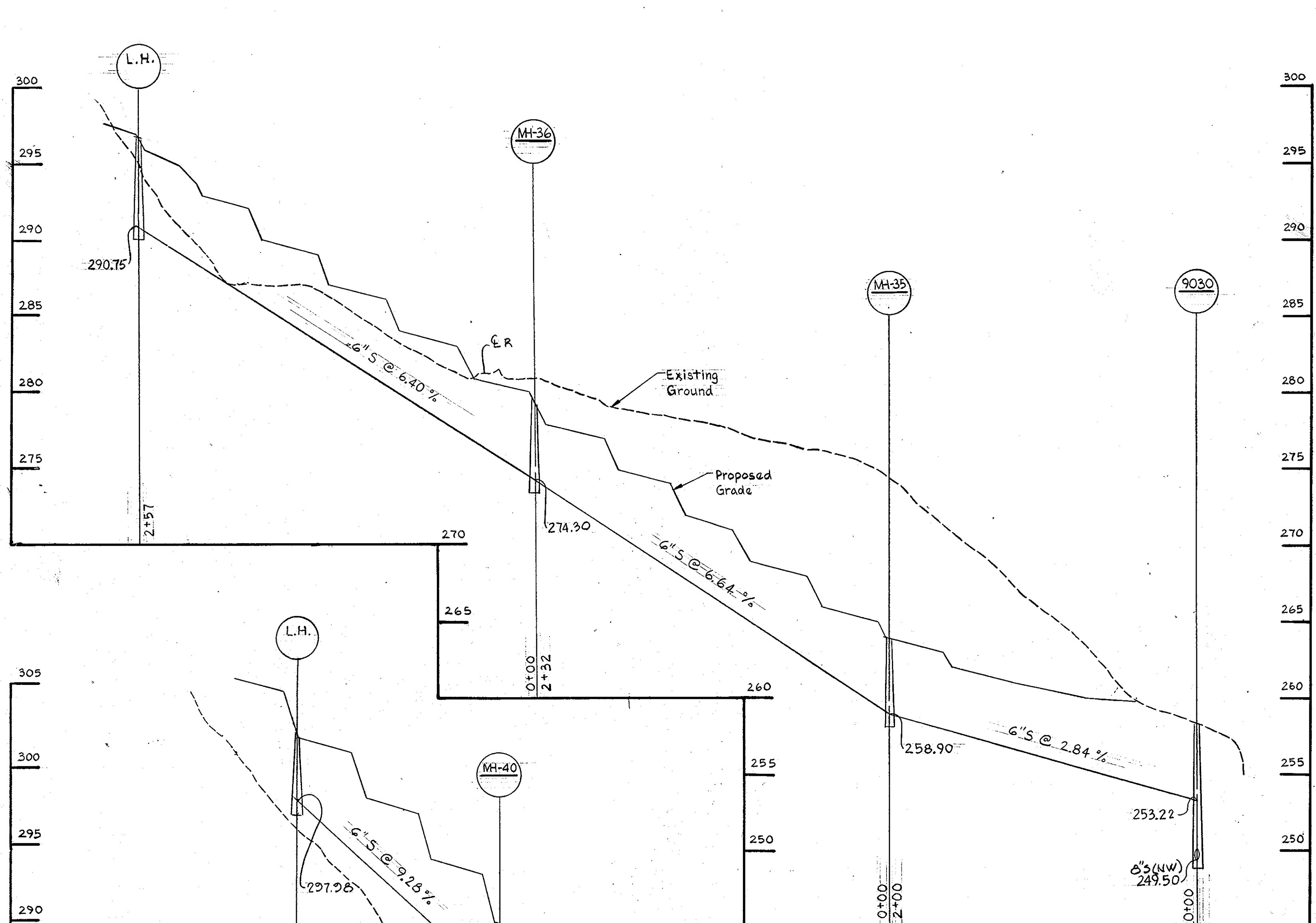
APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING
 PLANNING DIRECTOR
 CHIEF DIVISION OF LAND DEVELOPMENT
 APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE AND STORM DRAINAGE SYSTEMS AND ROADS
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 DIRECTOR
 CHIEF, BUREAU OF ENGINEERING

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
 APPROVED: HOWARD S.C.D.
 SIGNATURE: J.S. SOIL CONSERVATION SERVICE
 APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS
 HOWARD COUNTY HEALTH DEPARTMENT.
 COUNTY HEALTH OFFICER

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
 DATE: November 16, 1979
 PARCEL 163
 SCALE: As Noted
 SHEET 22 OF 23



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
William T. Paul 8-18-80
 PLANNING DIRECTOR DATE
William T. Paul 8-18-80
 CHIEF DIVISION OF LAND DEVELOPMENT DATE

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

John F. Neuman 8-11-80
 DIRECTOR DATE
William T. Paul 8-11-80
 CHIEF, BUREAU OF ENGINEERING DATE

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

APPROVED: *William T. Paul* HOWARD S.C.D. DATE: 8-17-80

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

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

Joseph Boylan 8-14-80
 COUNTY HEALTH OFFICER 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

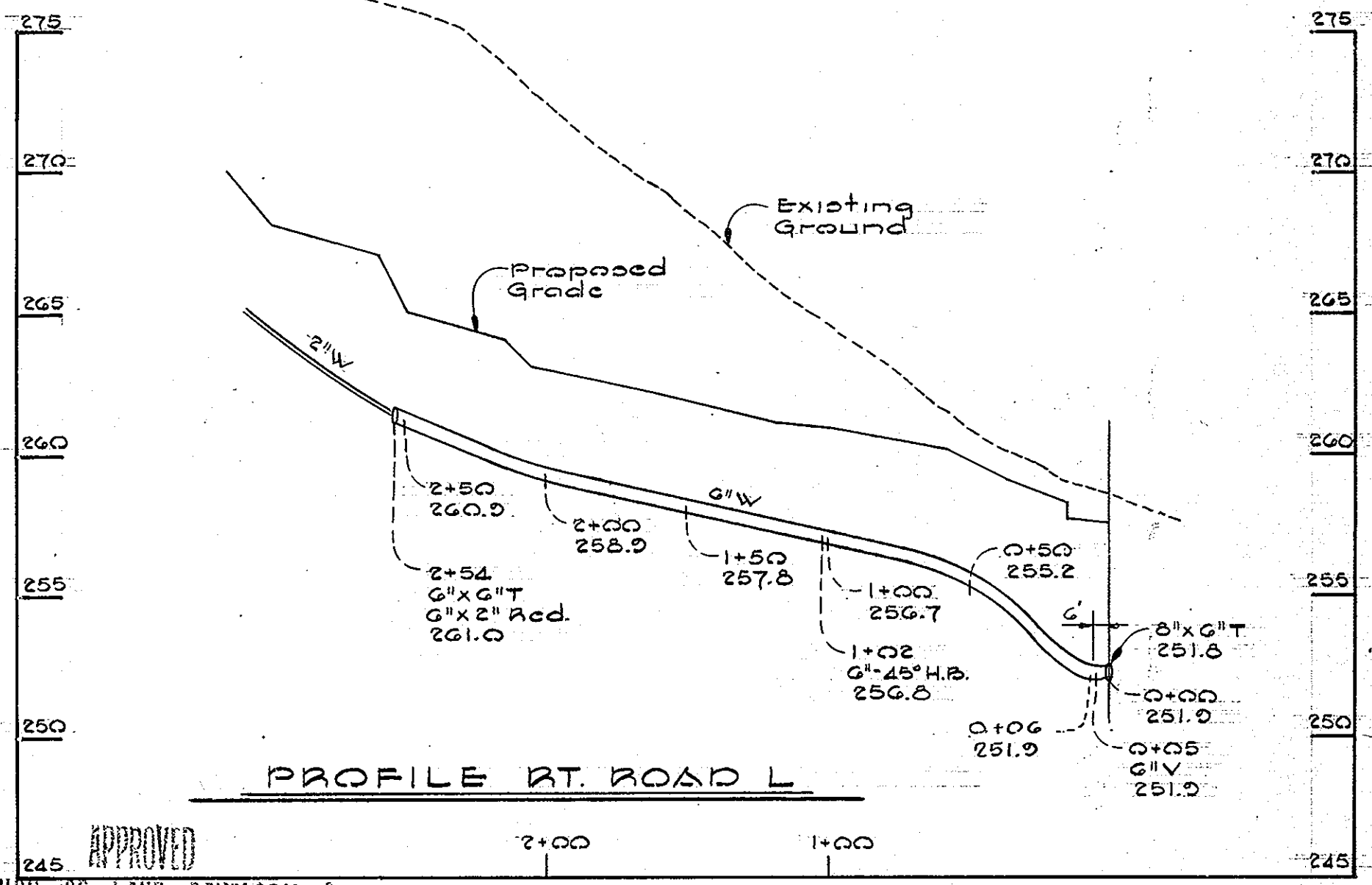
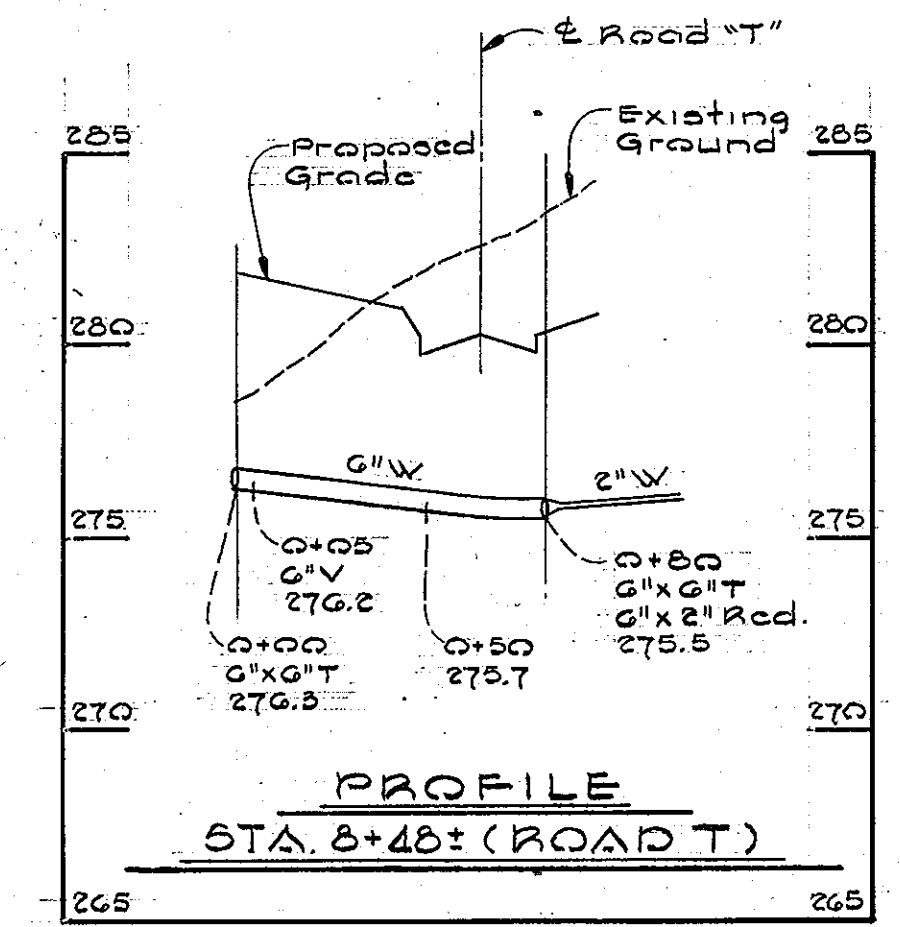
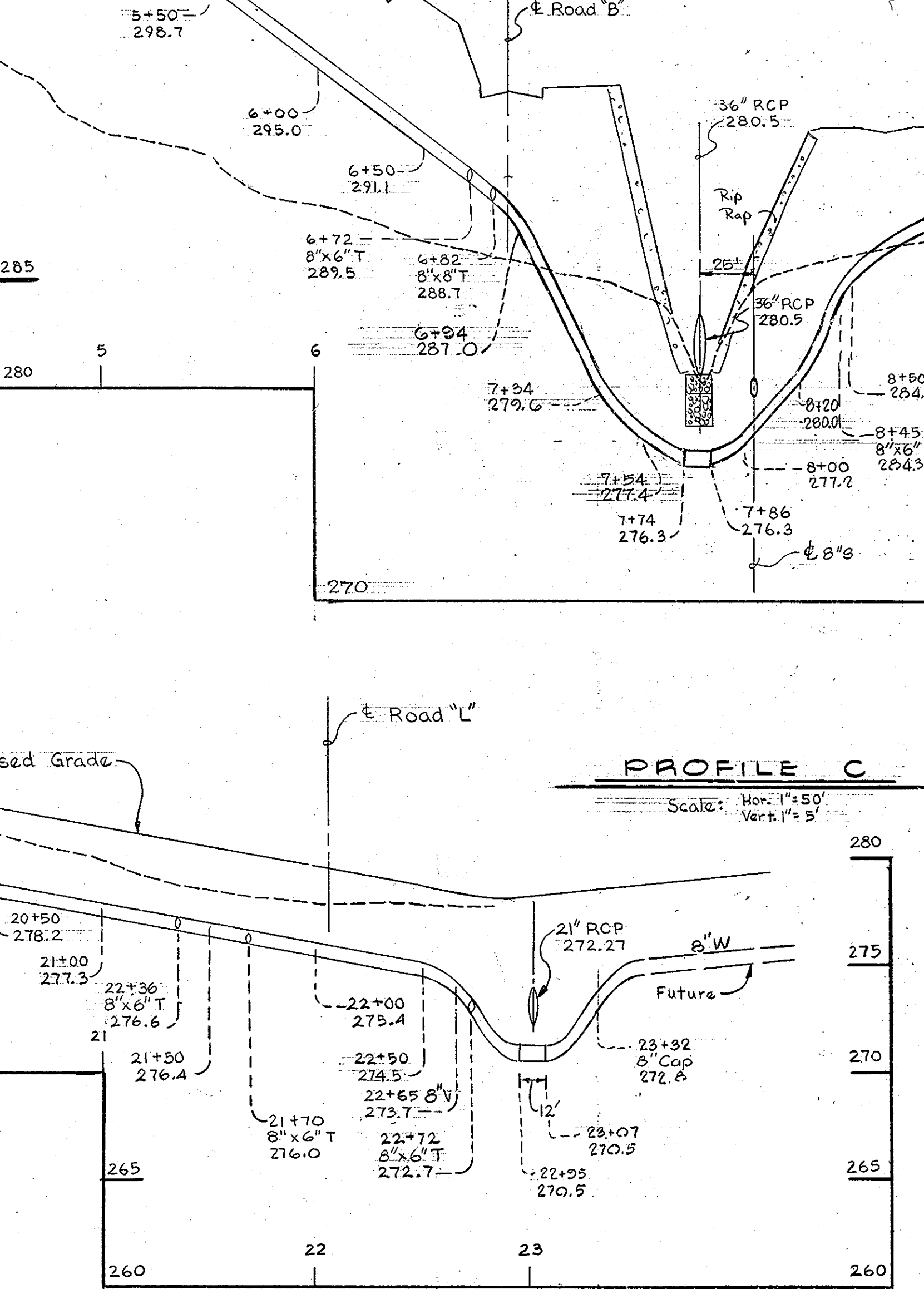
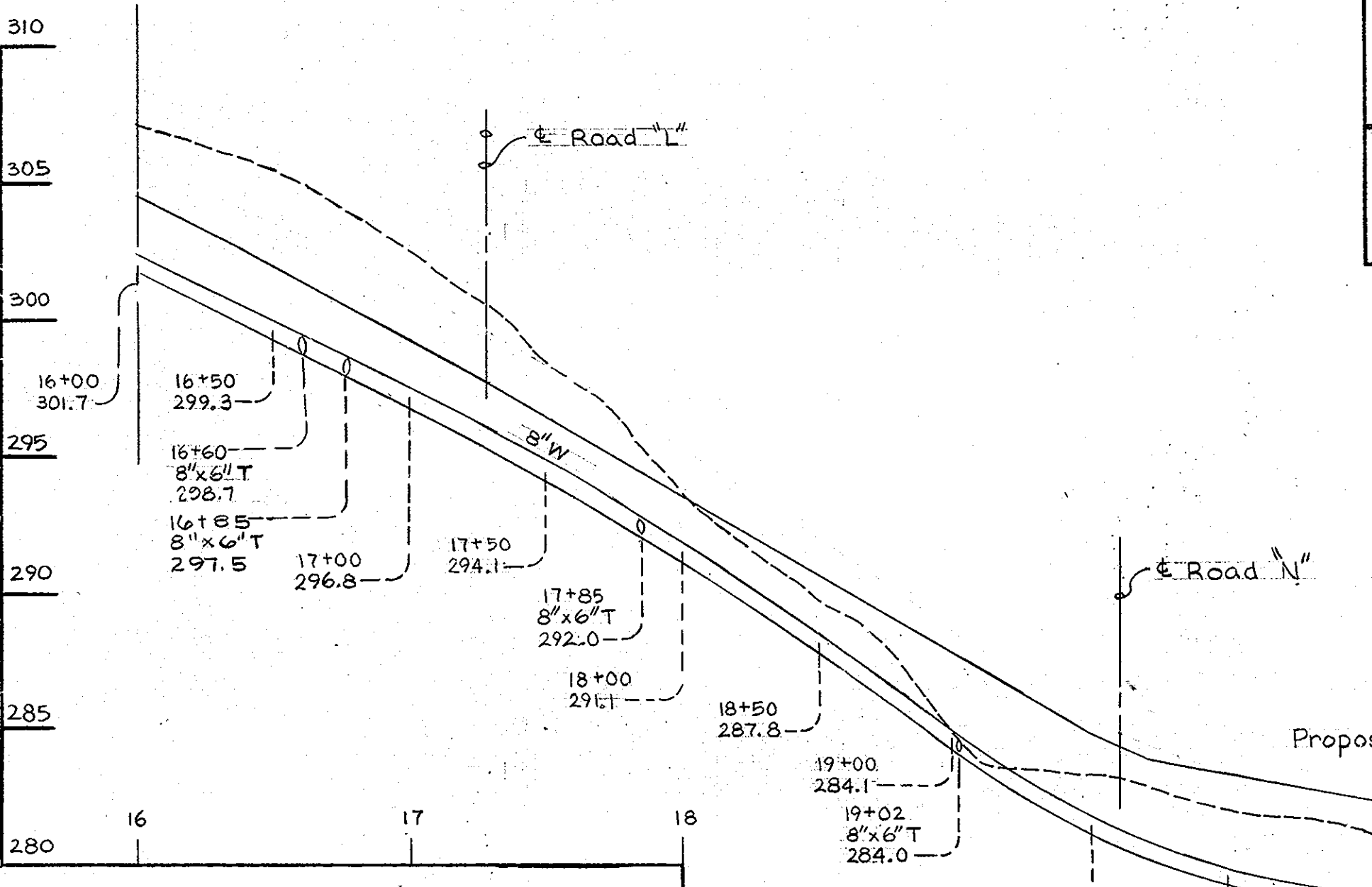
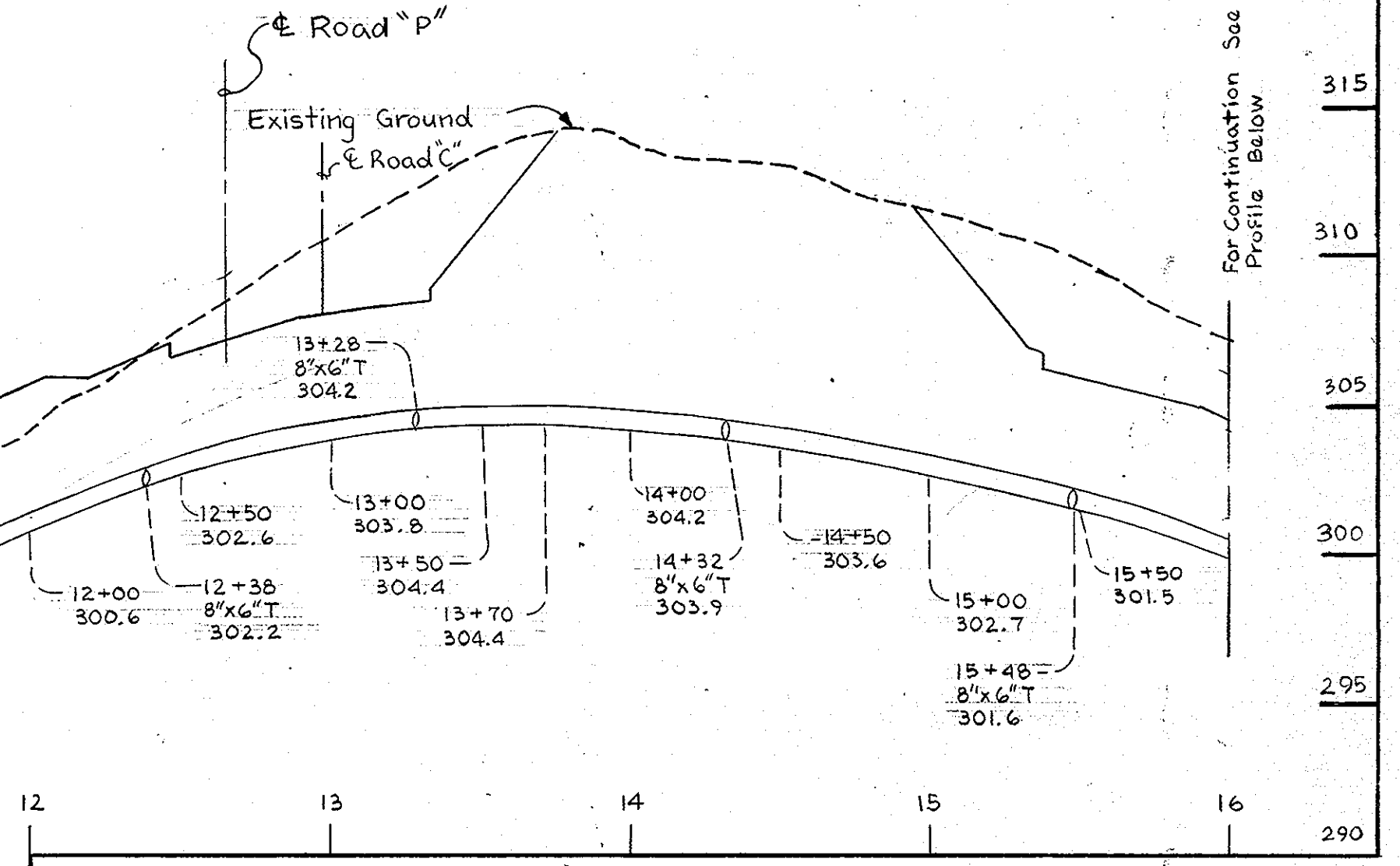
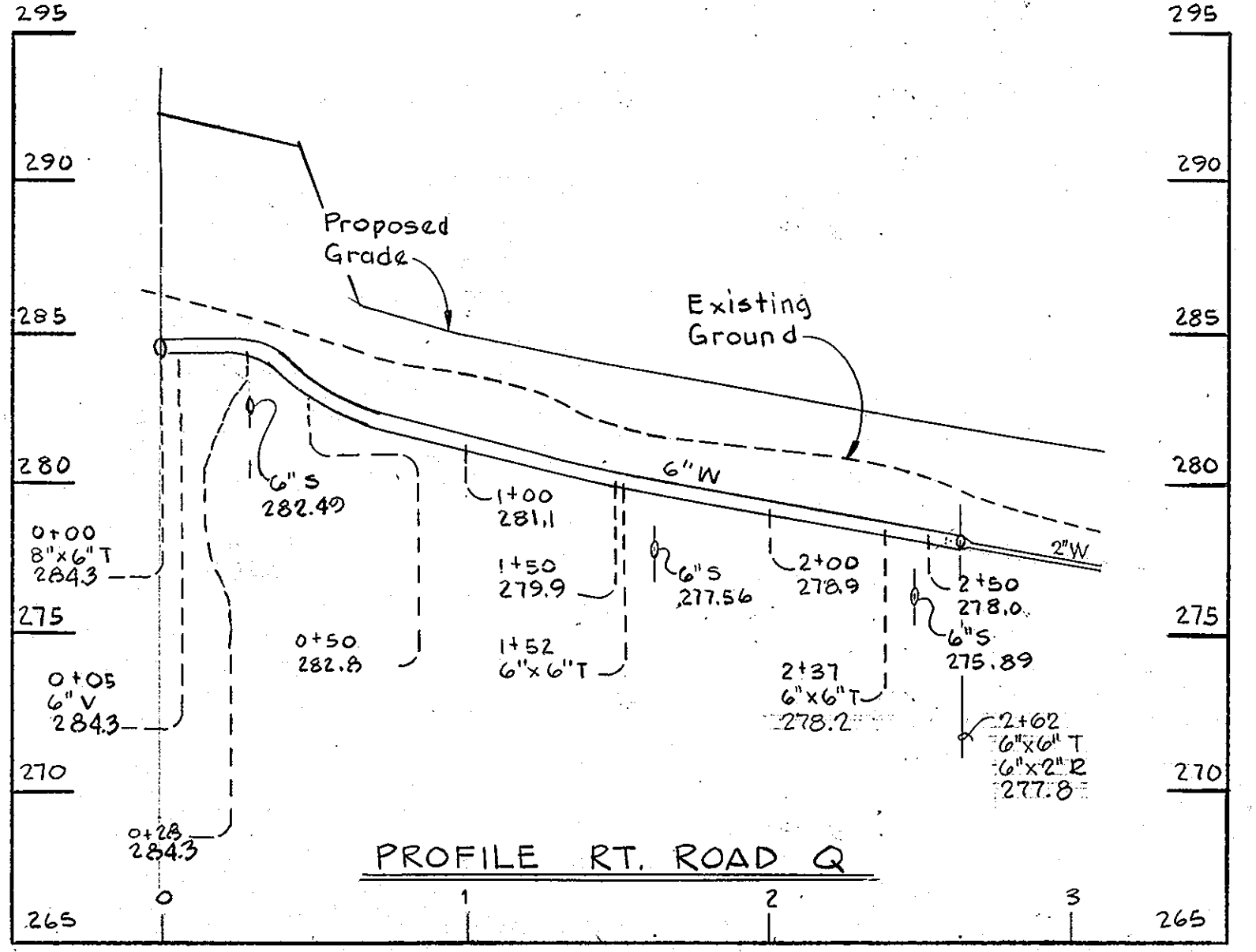
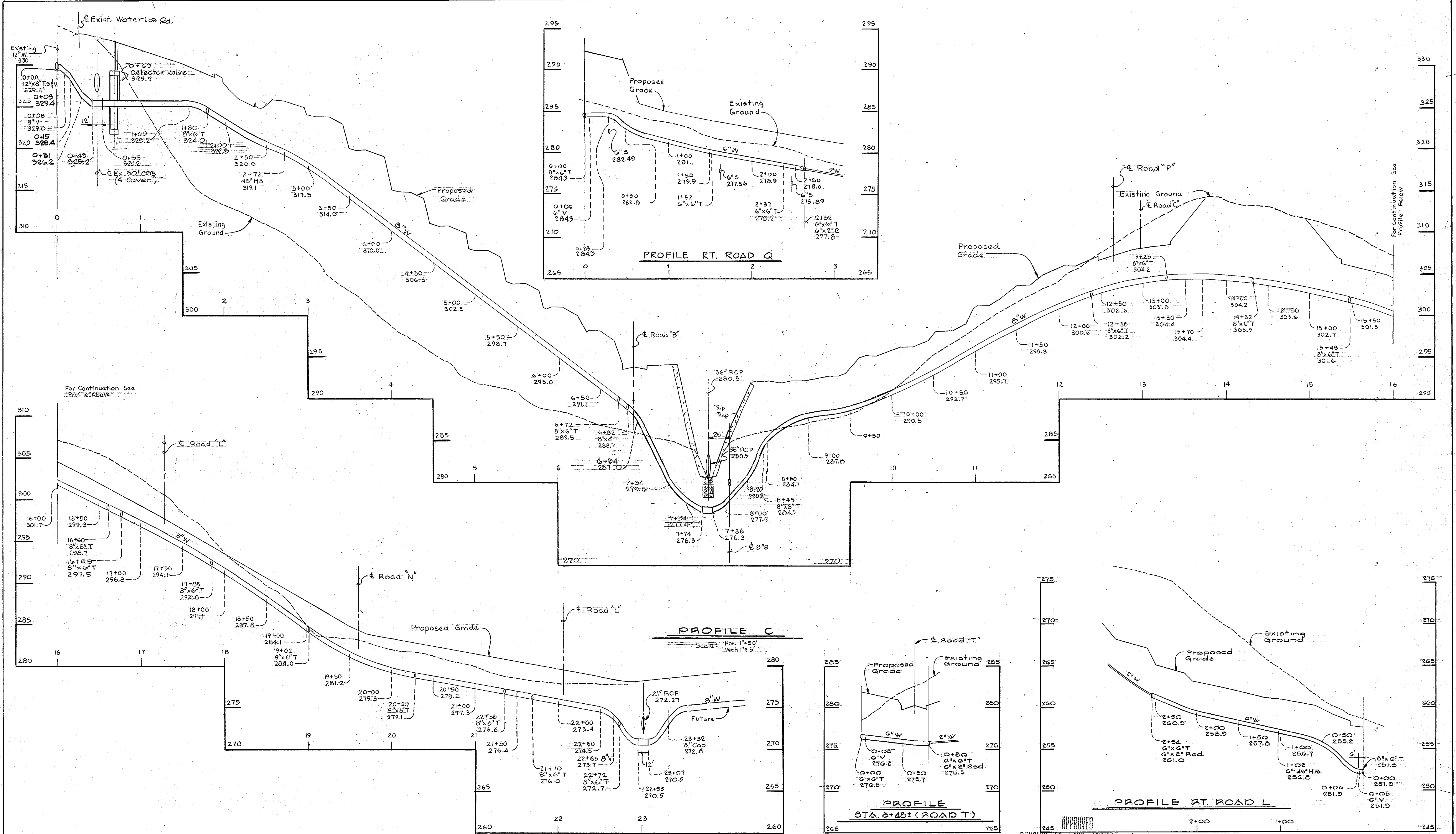
SITE DEVELOPMENT PLAN
 DEEP RUN PARK - SECTION I
 SEWER PROFILES

FIRST ELECTION DISTRICT OF HOWARD COUNTY MARYLAND

TAX MAP 37
 DATE: November 16, 1979

PARCEL 163
 SCALE: As Noted

SHEET 23 OF 23



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

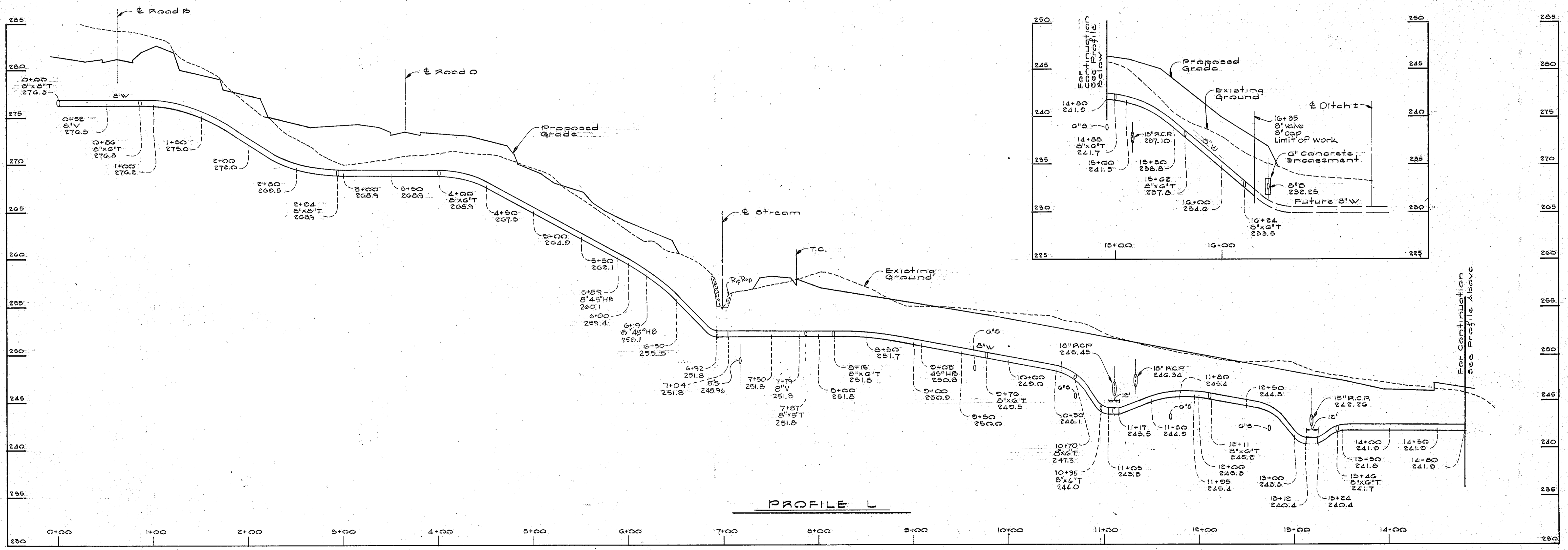
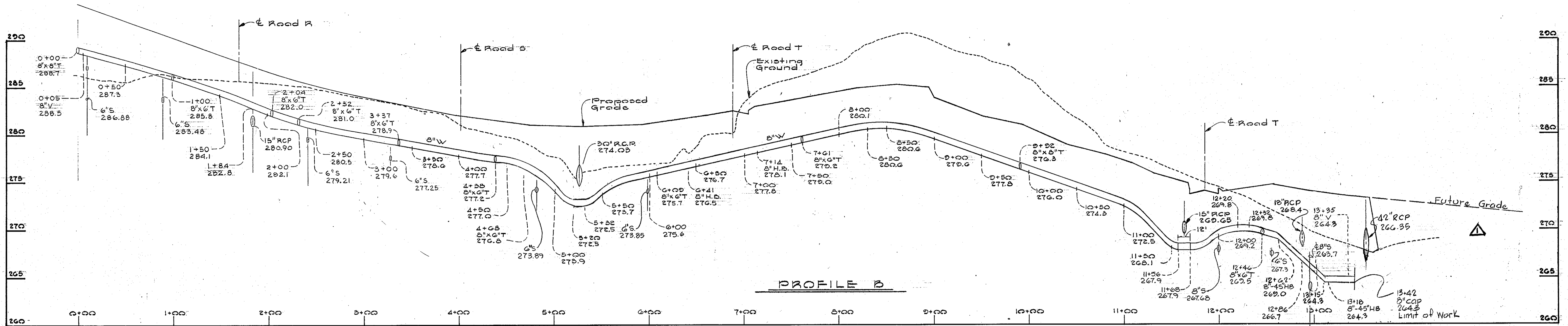
APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING
Thomas L. Harris 8-18-80
 PLANNING DIRECTOR DATE
William J. Thorne 8-13-80
 CHIEF, DIVISION OF LAND DEVELOPMENT DATE
 APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE AND STORM DRAINAGE SYSTEMS AND ROADS
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
William F. Nemmer 8-11-80
 DIRECTOR DATE
Kenneth A. McCord 8-11-80
 CHIEF, BUREAU OF ENGINEERING DATE

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

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
 WATER PROFILES
 FIRST ELECTION DISTRICT OF HOWARD COUNTY MARYLAND
 TAX MAP 37
 DATE: December 6, 1979
 PARCEL 163
 SCALE: AS SHOWN
 SHEET 24 OF 27
 SDP-80-95



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

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

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING
PLANNING DIRECTOR: *Thomas J. Smith* 8-18-80
DATE: 8-18-80
CHIEF OF DIVISION OF LAND DEVELOPMENT: *William T. Rame* 8-18-80
DATE: 8-18-80
APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE AND STORM DRAINAGE SYSTEMS AND ROADS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DIRECTOR: *James F. Nemes* 8-11-80
DATE: 8-11-80
CHIEF, BUREAU OF ENGINEERING: *James F. Nemes* 8-11-80
DATE: 8-11-80

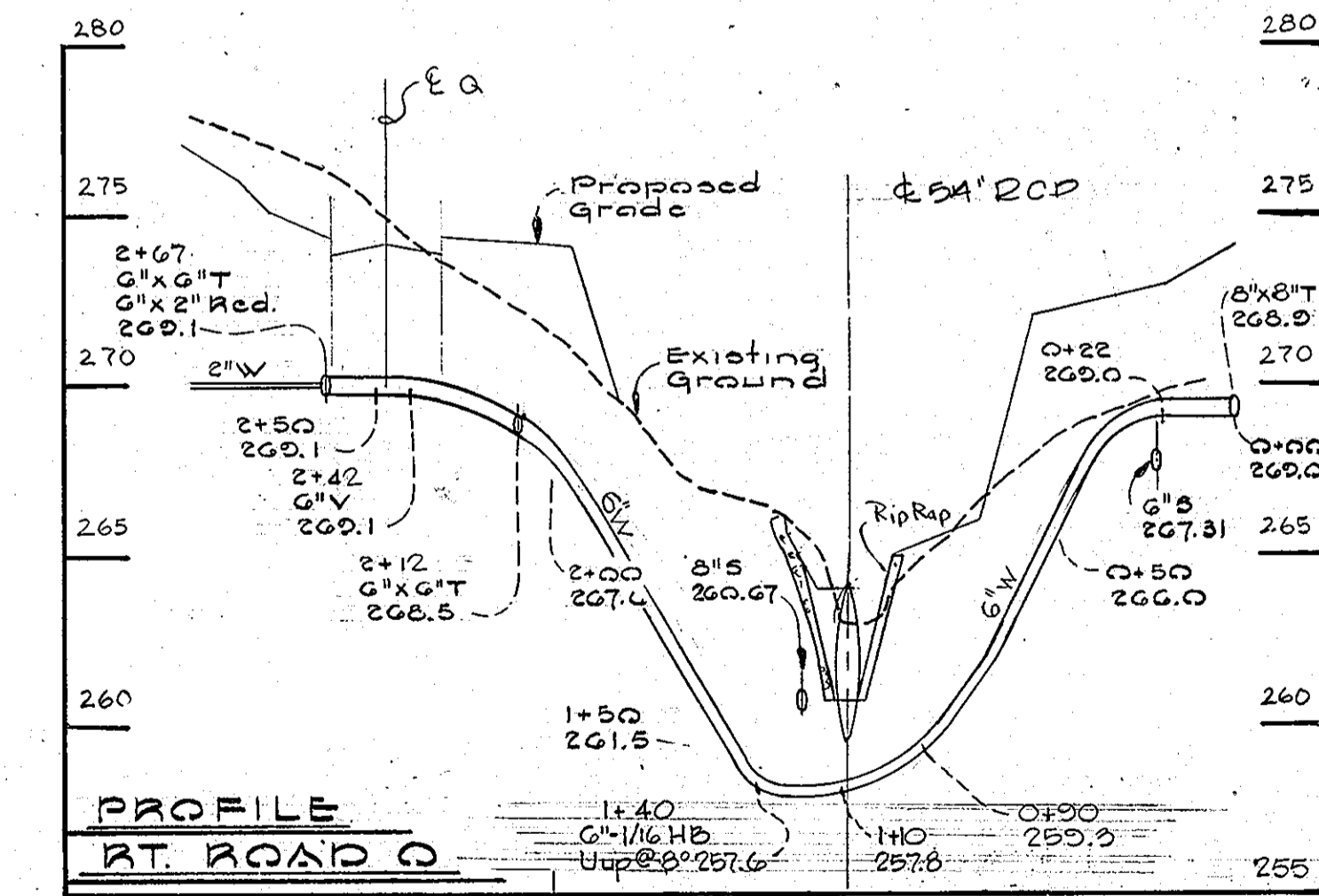
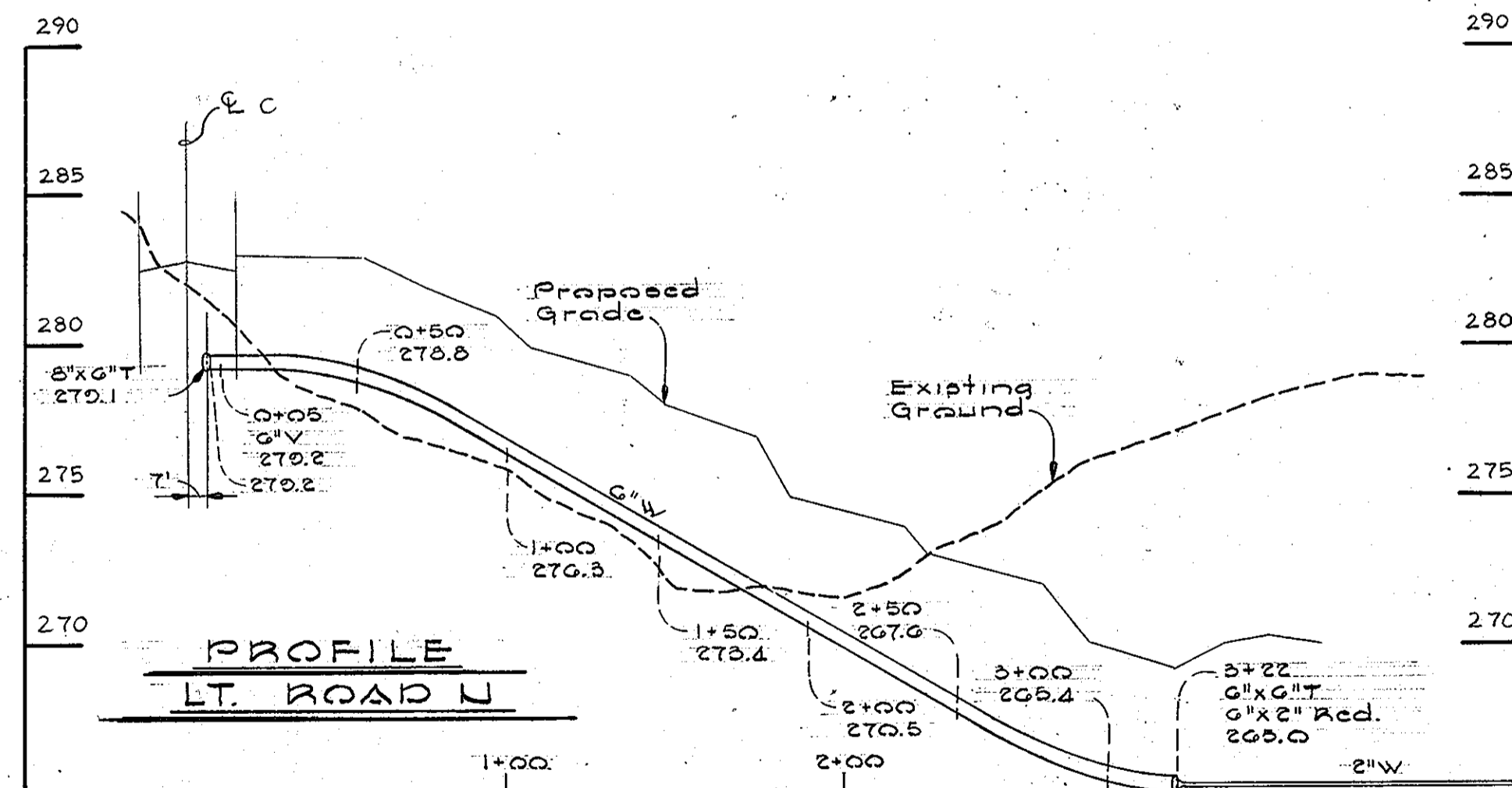
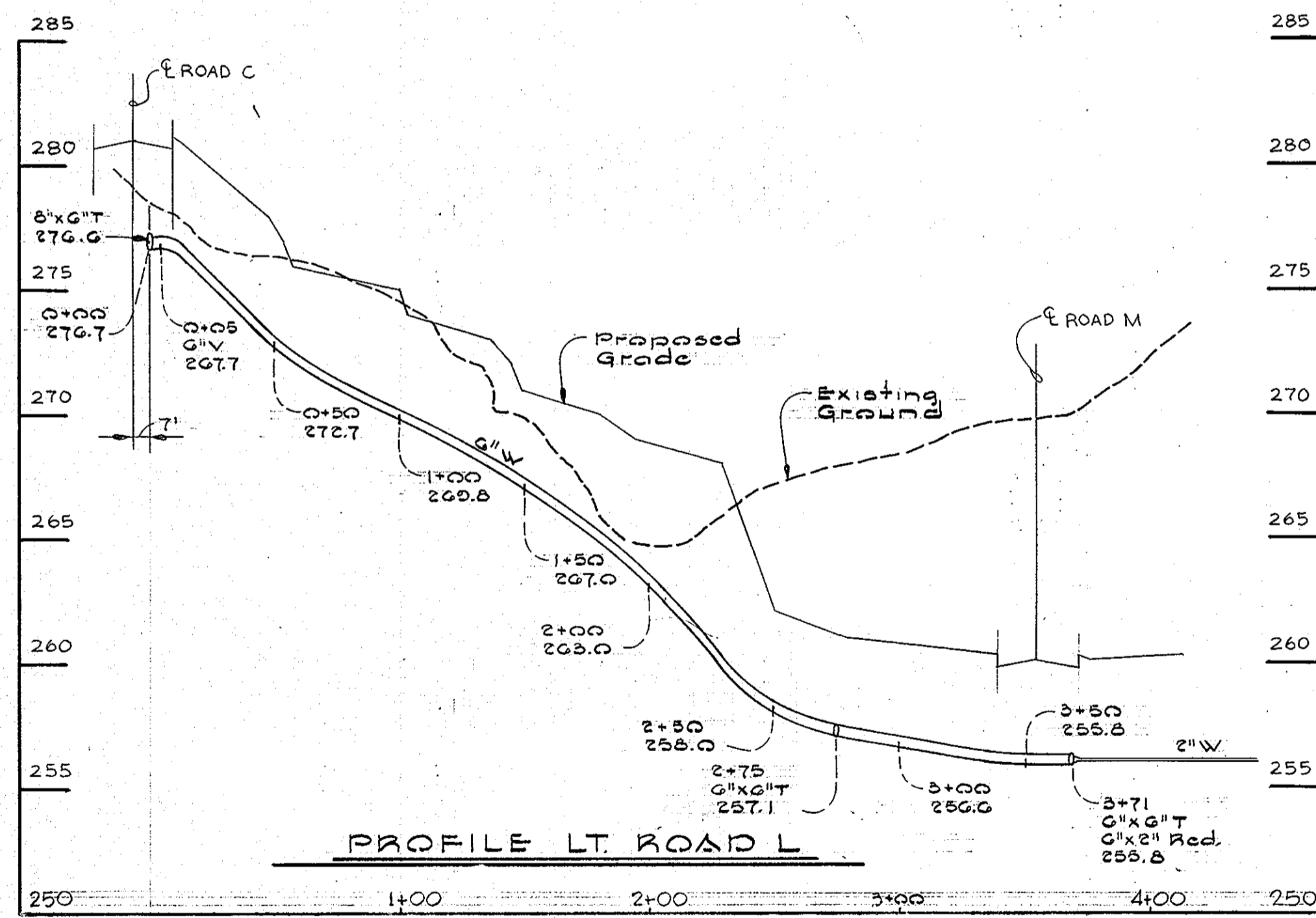
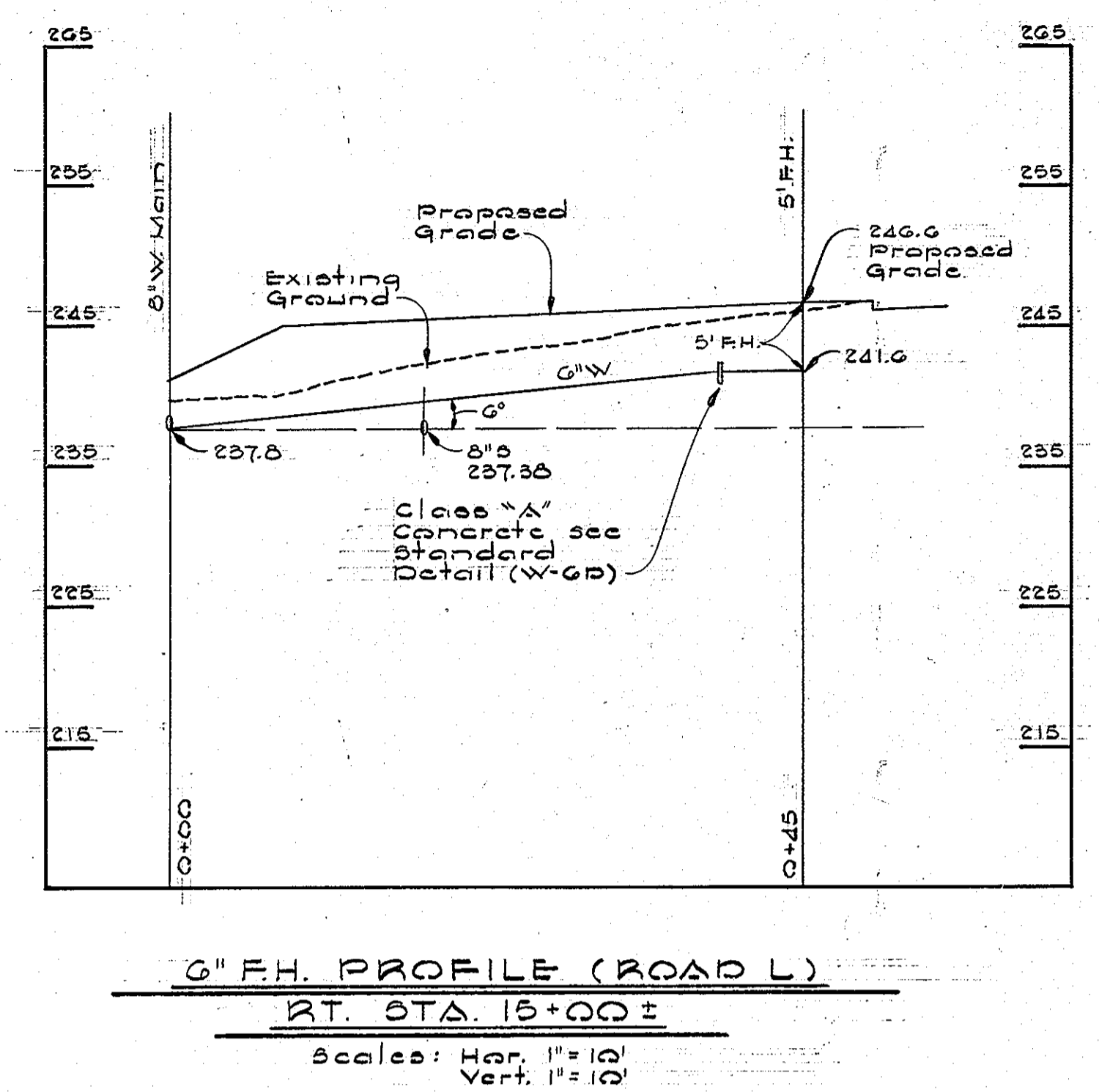
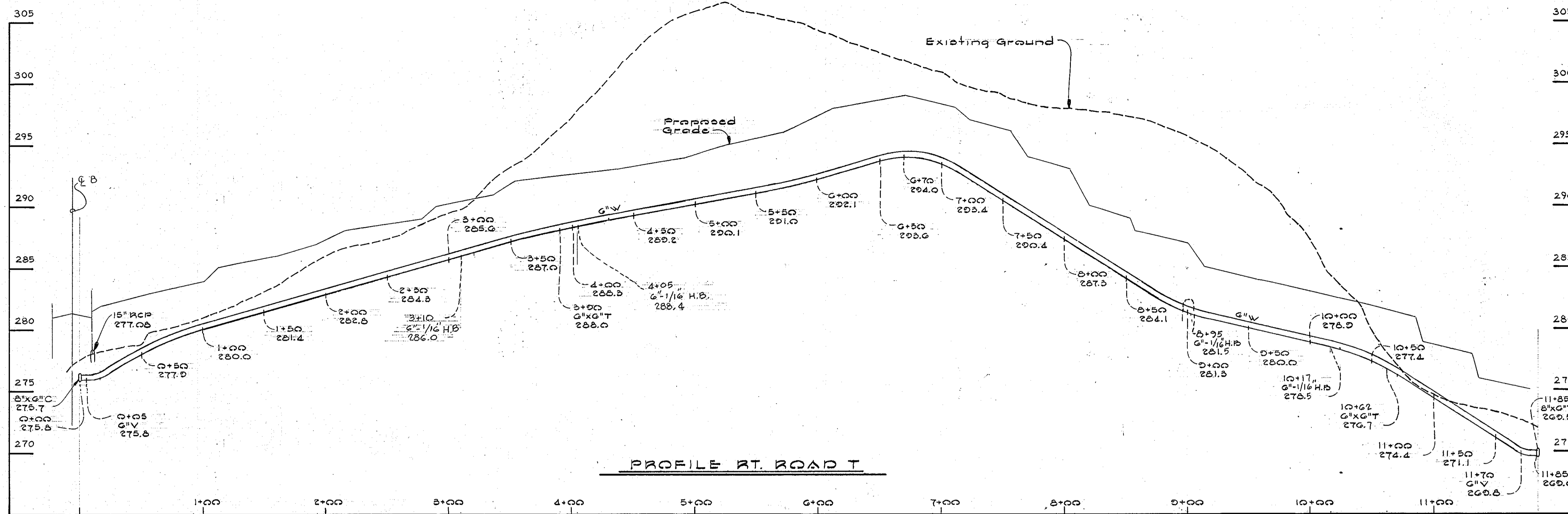
THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
APPROVED: *William T. Rame* HOWARD S.C.D. DATE: 8-18-80
SIGNATURE: *James M. Helm* DATE: 8-18-80
U.S. SOIL CONSERVATION SERVICE
APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS
HOWARD COUNTY HEALTH DEPARTMENT
SIGNATURE: *James P. Ryan* DATE: 8-14-80
COUNTY HEALTH OFFICER

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

OWNER AND DEVELOPER
DEEP RUN ASSOCIATES
3701 OLD CORTY 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
DATE: December 6, 1979
PARCEL 163
SCALE: As shown
SHEET 25 OF 25

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



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

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

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

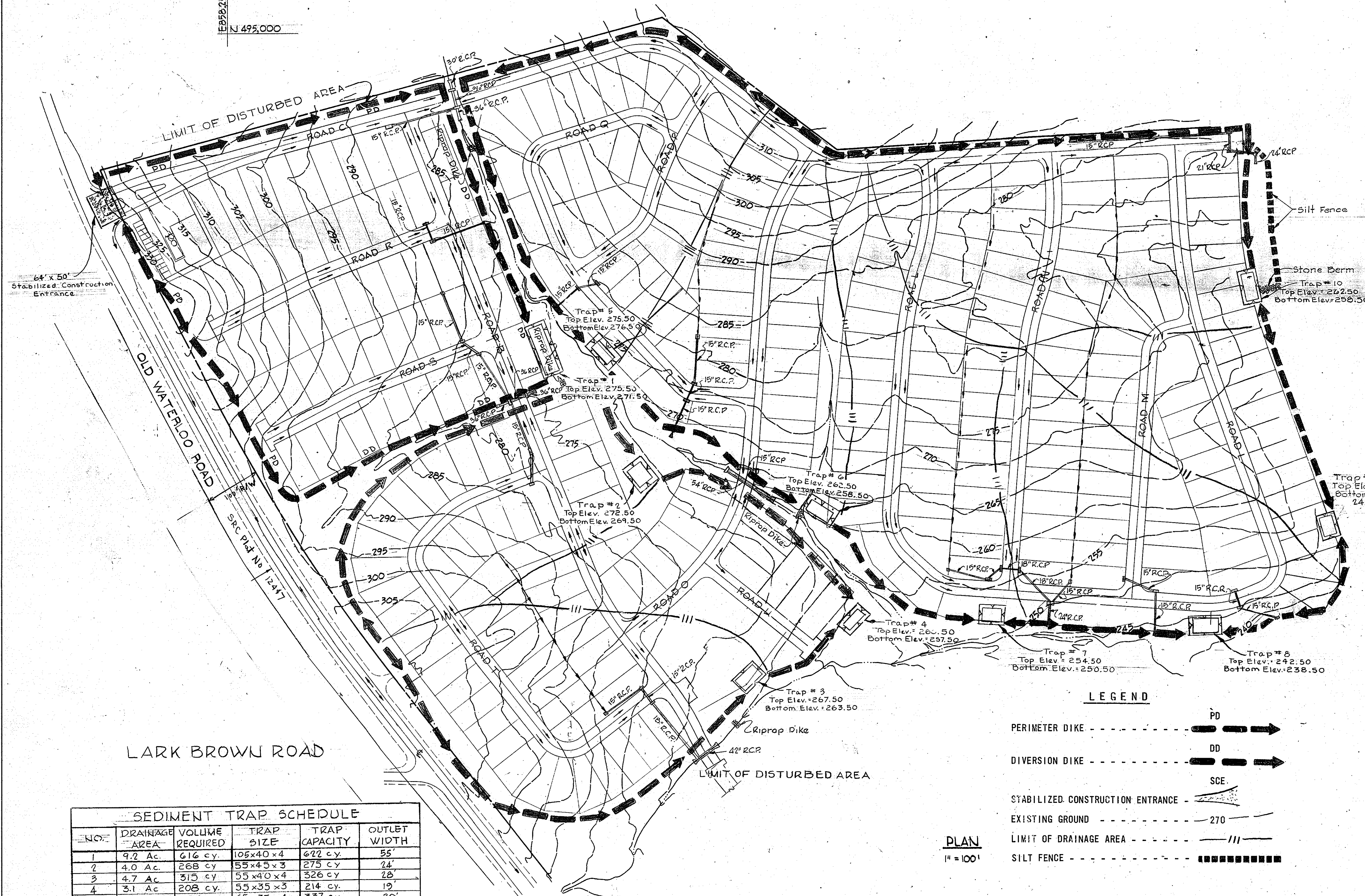
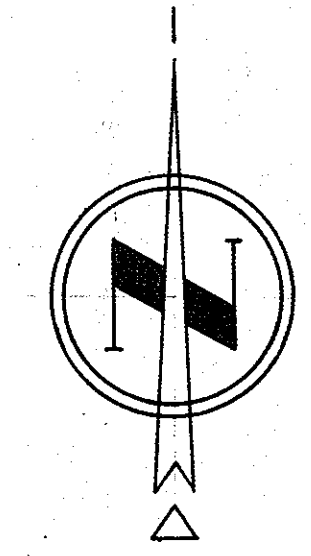
SITE DEVELOPMENT PLAN
DEEP RUN PARK - SECTION I
WATER PROFILES

FIRST ELECTION DISTRICT OF HOWARD COUNTY MARYLAND
TAX MAP 37
DATE: December 6, 1979

PARCEL 163
SCALE: AS SHOWN

SHEET
26
OF
33

EB52,250
N 495,000



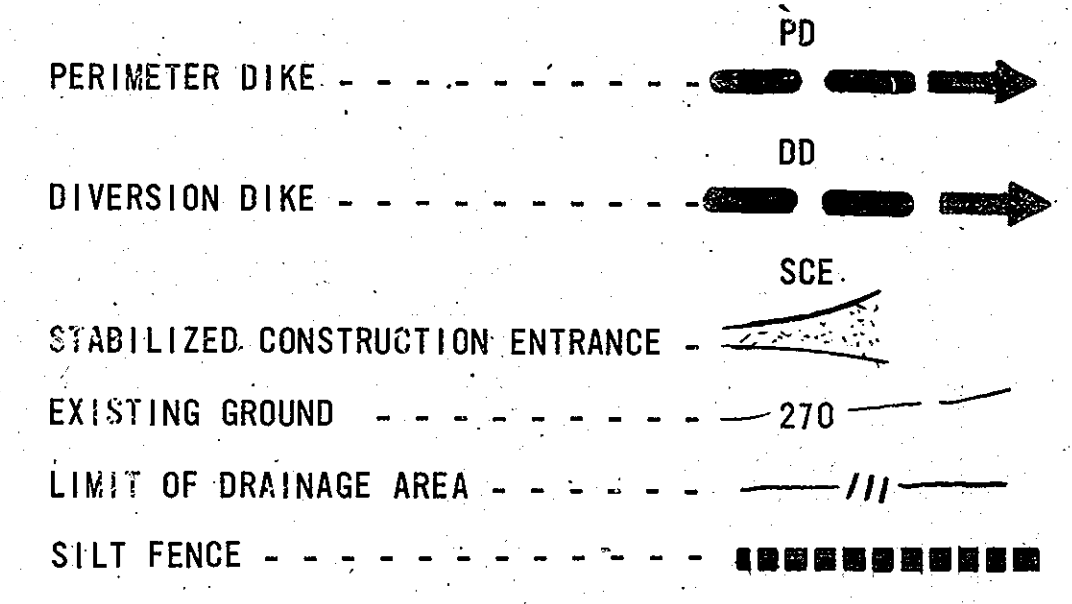
SEDIMENT CONTROL NOTES

- 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").
- ALL STREETS SHOWN ON THIS PLAN ARE PRIVATE AND SHALL NOT BE DEDICATED FOR PUBLIC USE.
- ALL DISTURBED AREAS WHICH ARE TO BE EXPOSED FOR MORE THAN 60 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.
- 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".
- STABILIZATION OF THE PERIMETER DIKES WILL BE IN ACCORDANCE WITH PAGES 12.01 THROUGH 12.03 "STANDARDS AND SPECIFICATIONS FOR DIVERSION".
- THE STABILIZED CONSTRUCTION ENTRANCE WILL BE IN ACCORDANCE WITH PAGE 16.03 OF "STANDARDS AND SPECIFICATIONS".
- 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".
- STABILIZATION OF THE DIVERSION DIKES WILL BE IN ACCORDANCE WITH PAGES 10.01 THROUGH 10.03 "STANDARDS AND SPECIFICATIONS FOR DIVERSION".
- THE SEDIMENT TRAPS SHALL BE MAINTAINED BY THE CONTRACTOR ON A WEEKLY BASIS OR AFTER RAINFALL.

SEQUENCE OF CONSTRUCTION OPERATION

- NOTIFY 48 HOURS BEFORE ANY WORK BEGINS THE HOWARD COUNTY SOIL CONSERVATION DISTRICT AND THE HOWARD COUNTY BUREAU OF LICENCES, INSPECTIONS AND PERMITS.
- INITIALLY CLEAR AND GRUB SEDIMENT TRAP AND DIKE AREAS.
- CONSTRUCT SEDIMENT CONTROL MEASURES: SEDIMENT TRAPS, PERIMETER AND DIVERSION DIKES, STONE CONSTRUCTION ENTRANCE, AND CULVERTS AT THE ROAD CROSSINGS.
- CLEAR AND GRUB REMAINING AREAS.
- STRIP AND STOCKPILE TOPSOIL FOR THE ENTIRE SITE.
- 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.
- 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.
- INSTALL REMAINING UNDER GROUND UTILITIES.
- COMPLETE ROAD CONSTRUCTION.
- STABILIZE AND SEED AS REQUIRED.
- REMOVE EACH SEDIMENT TRAP AND RELATED SEDIMENT CONTROL MEASURES ONLY AFTER THE DRAINAGE AREA CONTRIBUTING TO IT HAS BEEN COMPLETELY STABILIZED.
- COMPLETE REMAINING GRADING AND STABILIZATION PROCEDURES AFTER EACH TRAP HAS BEEN REMOVED.
- THE STORM WATER MANAGEMENT BASIN SHALL BE CONSTRUCTED BY OTHERS (THE VILLAGE OF DEEP RUN, SECTION I, CONTRACTOR).

LEGEND



PLAN
1" = 100'

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 20 of 41

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

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

OWNER AND DEVELOPER
DEEP RUN ASSOCIATES
3701 OLD COURT ROAD, UNIT 11
BALTIMORE, MARYLAND - 21206
J.O.7153
FILE
SHEET 27 OF 33

WHITMAN, REQUARDT AND ASSOCIATES
ENGINEERS
1111 NORTH CHARLES STREET
BALTIMORE, MARYLAND 21201
[Signature]
KENNETH A. MCCORD, P.E. 1974

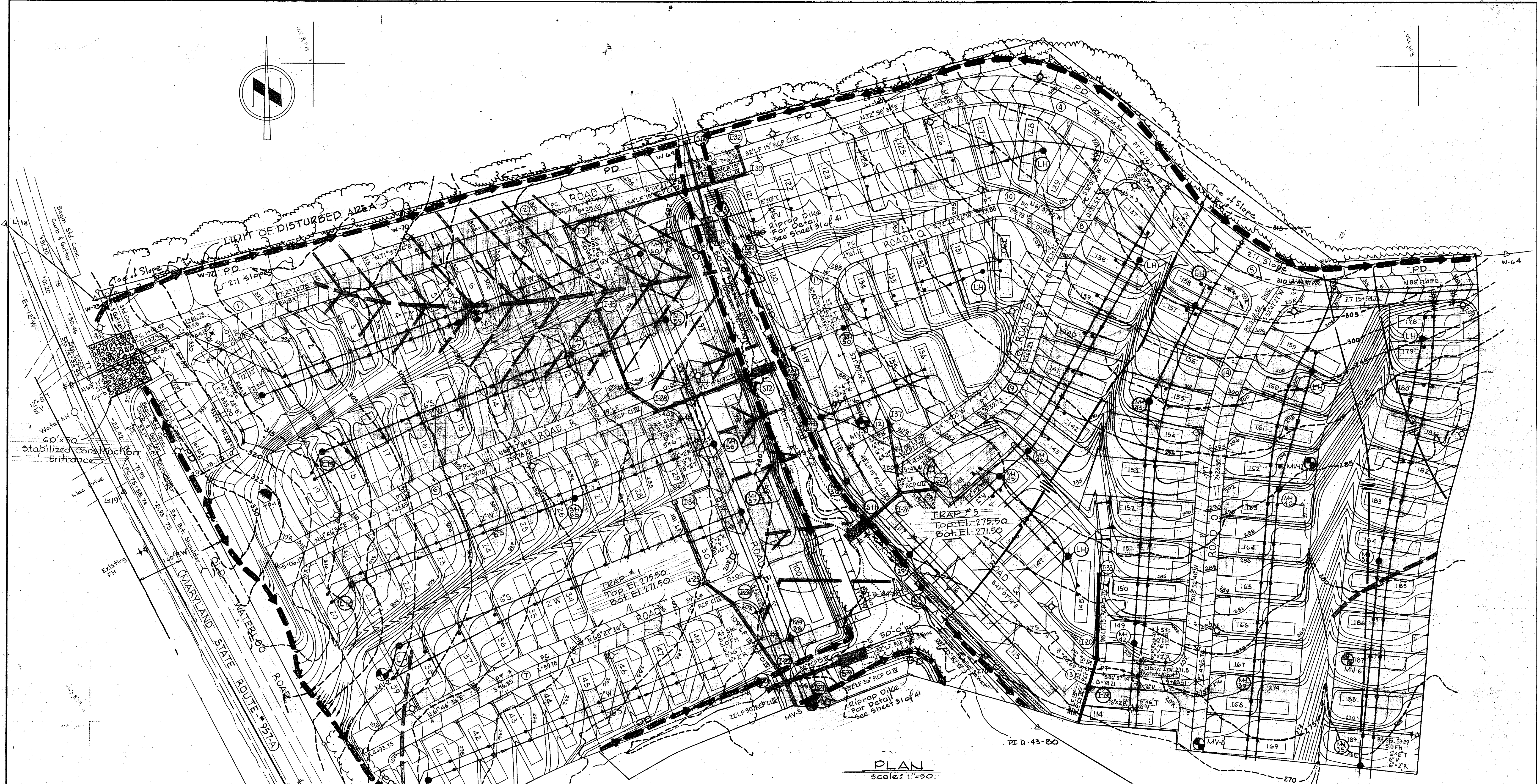
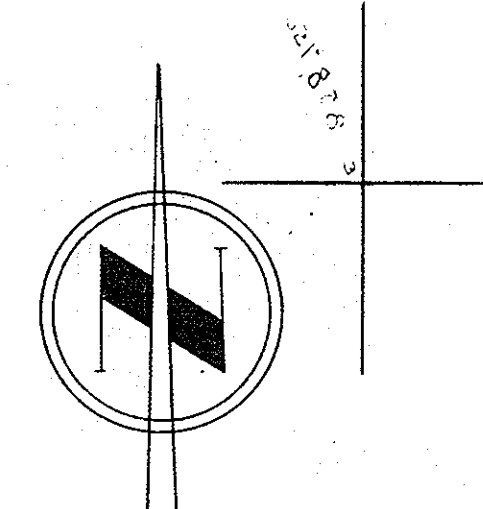
APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING
[Signature] 8-18-80
PLANNING DIRECTOR DATE
[Signature] 8-18-80
CHIEF, DIVISION OF LAND DEVELOPMENT DATE
APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE AND STORM DRAINAGE SYSTEMS AND ROADS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
[Signature] 8-11-80
DIRECTOR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

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
APPROVED: *[Signature]* HOWARD S.C.D. DATE: 8-11-80
[Signature] 8-13-80
SIGNATURE: U.S. CONSERVATION SERVICE DATE
APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS,
HOWARD COUNTY HEALTH DEPARTMENT
[Signature] 8-14-80
COUNTY HEALTH OFFICER DATE

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] 8-14-80
SIGNATURE OF DEVELOPER DATE

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."
[Signature] 11/16/79
KENNETH A. MCCORD, P.E. 1974 DATE

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



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	N48°24'46"E	6'26'00"	56.20'	2+22.75	8	186.95'	187.66'	624.00'	0+81.57	S23°24'23"W	17'13'51"	94.54'	2+69.23
2	53.76'	53.77'	1000.00'	5+10.43	N73°10'11"E	3'04'50"	26.89'	5+64.19	9	69.12'	70.55'	100.78'	2+69.23	S34°50'45"W	40'06'36"	36.79'	3+39.78
3	36.09'	36.10'	1000.00'	7+31.48	N75°40'33"E	2'04'05"	18.05'	7+67.58	10	39.08'	40.15'	50.00'	0+59.73	S84°37'07"E	46'00'14"	2.123'	0+99.88
4	233.79'	249.69'	200.00'	10+23.02	S71°35'32"E	71'31'55"	114.06'	12+72.71	11	72.84'	81.59'	50.00'	2+61.12	N25°07'46"E	93'30'00"	53.15'	3+42.71
5	193.55'	202.03'	200.00'	13+52.68	S64°45'54"E	57'52'40"	110.58'	15+54.71	12	133.57'	134.39'	350.00'	4+58.02	S32°07'13"E	22'00'00"	68.03'	5+92.41
6	83.82'	83.87'	719.00'	2+59.78	S65°07'06"W	6'41'00"	41.98'	3+43.65	13	36.65'	37.53'	50.00'	8+40.69	N64°37'14"W	43'00'00"	19.70'	8+78.21
7	56.54'	56.57'	485.00'	2+59.78	S65°07'06"W	6'41'00"	28.32'	3+16.36	14	194.71'	196.79'	390.00'	0+31.50	S18°20'07"W	28'54'41"	100.54'	2+28.30

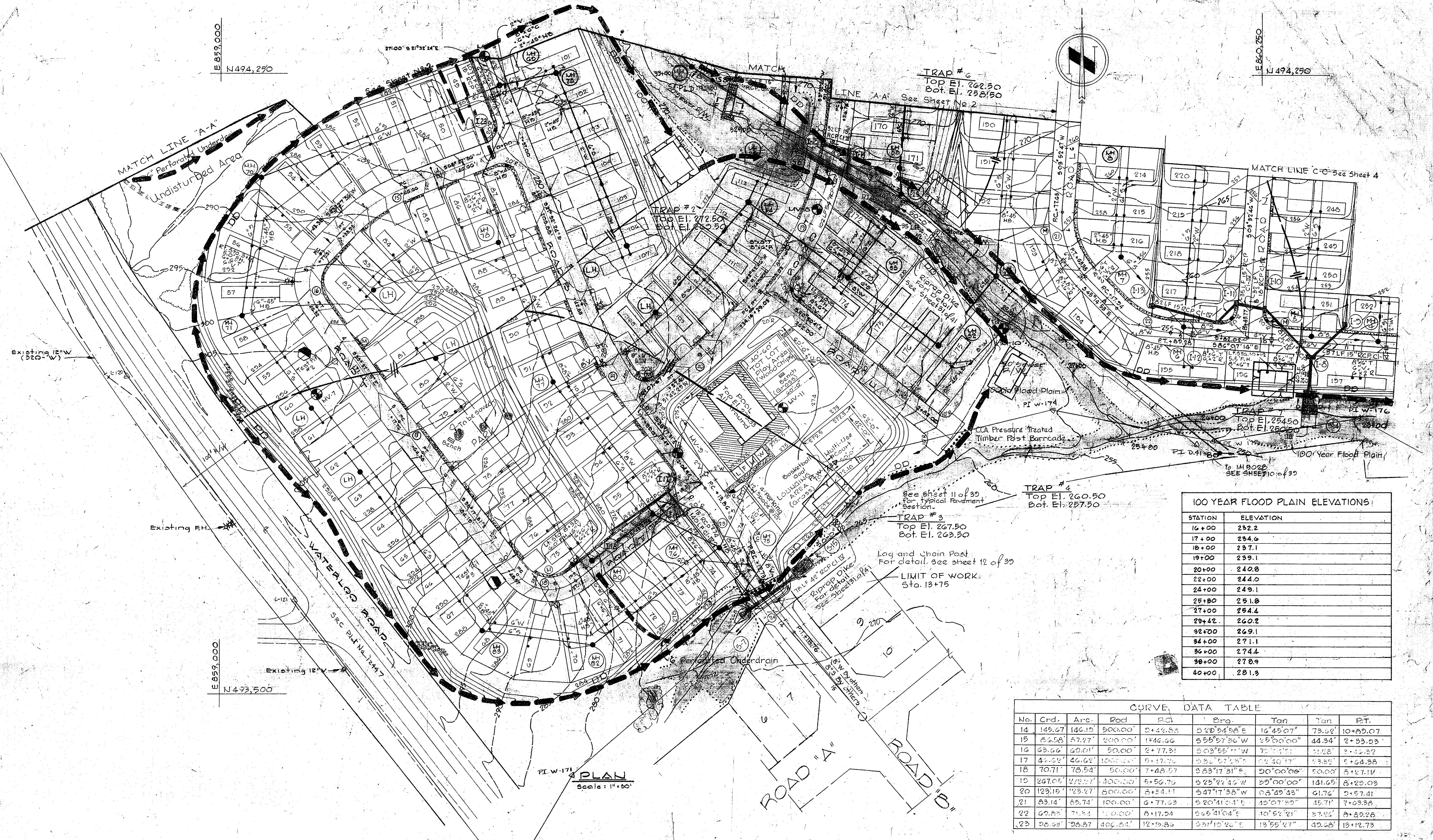
WHITMAN, REQUARDT AND ASSOCIATES
 ENGINEERS
 1111 N. CHARLES STREET
 BALTIMORE, MARYLAND
 Kenneth A. McCord, P.E. 1974

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING
 PLANNING DIRECTOR: *William T. Rame* DATE: 8-18-80
 CHIEF, DIVISION OF LAND DEVELOPMENT: *William T. Rame* DATE: 8-18-80
 APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE AND STORM DRAINAGE SYSTEMS AND ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 DIRECTOR: *William T. Rame* DATE: 8-11-80
 CHIEF, BUREAU OF ENGINEERING: *William T. Rame* 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: *James M. Dehn* DATE: 8-13-80
 U.S. SOIL CONSERVATION SERVICE
 APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS
 HOWARD COUNTY HEALTH DEPARTMENT
 COUNTY HEALTH OFFICER: *James M. Dehn* 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 25 OF 33
 6-11-80 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.	Ord.	Arc	Rad	PC	Brg.	Tan	Tan	P.T.
14	145.67	146.15	500.00	2+24.82	S 28° 54' 58" E	16' 45' 07"	73.62	10+89.07
15	62.58	67.27	500.00	1+46.66	S 55° 57' 36" W	25' 00' 00"	44.34	2+33.23
16	68.66	69.01	500.00	2+77.31	S 03° 55' 11" W	75' 00' 00"	11.08	2+13.22
17	4+32	46.62	1000.00	9+17.72	S 23° 07' 29" E	23' 30' 17"	13.52	8+64.38
18	70.71	78.54	500.00	7+48.57	S 63° 17' 31" E	20' 00' 00"	61.00	6+21.11
19	267.65	272.27	3000.00	5+56.75	S 23° 24' 42" W	29' 00' 00"	141.65	8+25.03
20	123.15	123.27	500.00	8+24.11	S 47° 17' 38" W	08' 29' 43"	61.76	2+57.41
21	63.14	65.74	1000.00	6+77.63	S 20° 41' 34" E	40' 07' 29"	45.71	7+03.38
22	62.55	71.24	1000.00	8+17.24	S 45° 41' 04" E	40' 52' 21"	37.22	8+82.26
23	28.63	28.67	400.00	12+15.86	S 51° 15' 24" E	13' 55' 27"	42.63	13+12.73

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

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

APPROVED: *Thomas J. Hamstra*, 8-18-80
 PLANNING DIRECTOR
 CHIEF, DIVISION OF LAND DEVELOPMENT

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

James E. Nunnally
 DIRECTOR

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

James E. Nunnally
 CHIEF, BUREAU OF ENGINEERING

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

APPROVED: *William Thorne* HOWARD S.C.D. DATE: 8-18-80

SIGNATURE: *James M. Vela* U.S. SOIL CONSERVATION SERVICE DATE: 8-13-80

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

James E. Nunnally
 COUNTY HEALTH OFFICER

APPROVED
 DIVISION OF LAND DEVELOPMENT

HOWARD COUNTY, MARYLAND
 DATE: 7-8-80

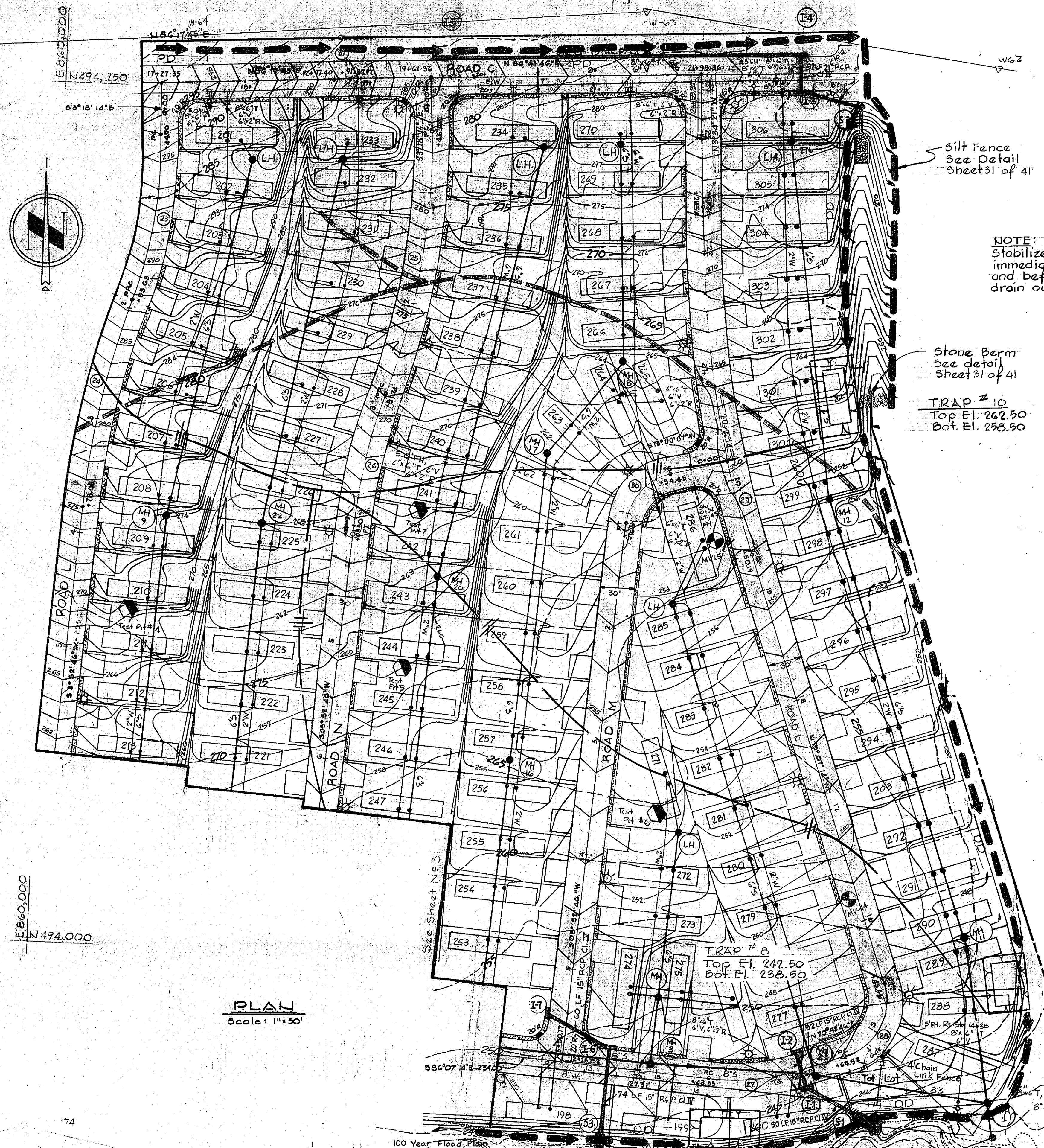
OWNER AND DEVELOPER
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 BALTIMORE, MARYLAND 21208

SITE DEVELOPMENT PLAN
 DEEP RUN PARK - SECTION I
 SEDIMENT CONTROL PLAN

FIRST ELECTION DISTRICT OF HOWARD COUNTY MARYLAND

TAX MAP 37 PARCEL 163 SHEET 29
 DATE: February 27, 1980 SCALE: AS NOTED OF 33

6-11-80



SEEDING NOTES (HYDROSEED METHOD ONLY)

- ALL DISTURBED SLOPE AREAS TO BE STABILIZED AS SOON AS GRADING IS COMPLETED.
- ALL SEDIMENT CONTROL MEASURES MUST BE CONSTRUCTED AND STABILIZED ACCORDING TO NOTE 1 PRIOR TO ANY OTHER GRADING ON THE SITE.
- NO TEMPORARY SEDIMENT CONTROL STRUCTURE MAY BE REMOVED OR DESTROYED WITHOUT APPROVAL OF THE HOWARD SOIL CONSERVATION DISTRICT.
- ALL AREAS OTHER THAN LAWNS TO BE SEEDED (DIKES, TRAPS, DRAINAGE SWALES AND DISTURBED AREAS) AT THE RATE OF 80 lbs./ACRE OF THE FOLLOWING: KENTUCKY 31 TALL FESCUE 60 lbs./ACRE AND KOREAN LESPEDEZA (SCARIFY AND INOCULATE) 20 lbs./ACRE. IMMEDIATELY AFTER CONSTRUCTION, SOW WITH MECHANICAL SPREADER, RAKE MINIMUM TWO (2) PASSES WITH "YORK RAKE" COVER AND COMPACT WITH CULTIPACKER.
- 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 45 lb/ACRE AND CROWNVECH (SCARIFY AND INOCULATE) 15 lb/ACRE. INOCULANT FOR CROWNVECH SHALL BE AT THE RATE OF 6.7 oz. POWDER OR LIQUID CULTURE PER 20 lbs. CROWNVECH.
- ALL OTHER SURFACES SHALL BE UNIFORMLY SOWN AT THE RATE OF 250 lbs./ACRE.
- APPLICATION METHODS: (HYDROSEED)
 - SEED, FERTILIZER, LIMESTONE AND MULCH MATERIAL SHALL BE PLACED BY THE FOLLOWING METHODS:
 - 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.
 - 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.
 - ANY AREA INADEQUATELY COVERED SHALL BE RE-TREATED.

NOTE: Stabilize with permanent seeding immediately after finish grading and before installation of storm drain outfall. (S-2)

Stone Berm See detail Sheet 31 of 41

TRAP # 10
Top El. 262.50
Bot. El. 258.50

TRAP # 2
Top El. 244.50
Bot. El. 241.50

TRAP # 8
Top El. 242.50
Bot. El. 238.50

PLAN
Scale: 1"=50'

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
DATE: 8-18-80

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

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

APPROVED: WILLIAM T. HANE
HOWARD S.C.D.
DATE: 8-14-80

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

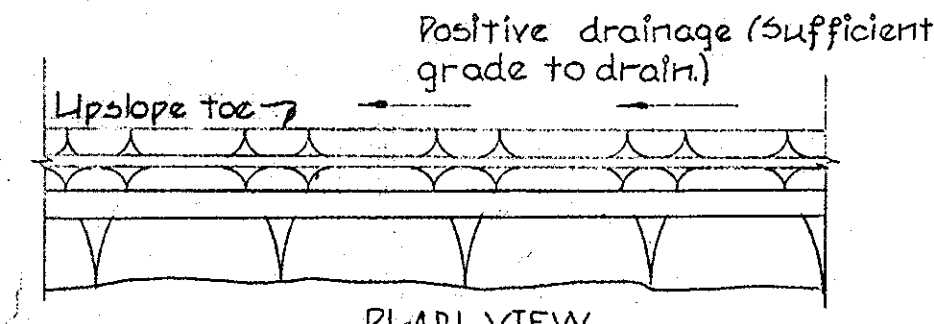
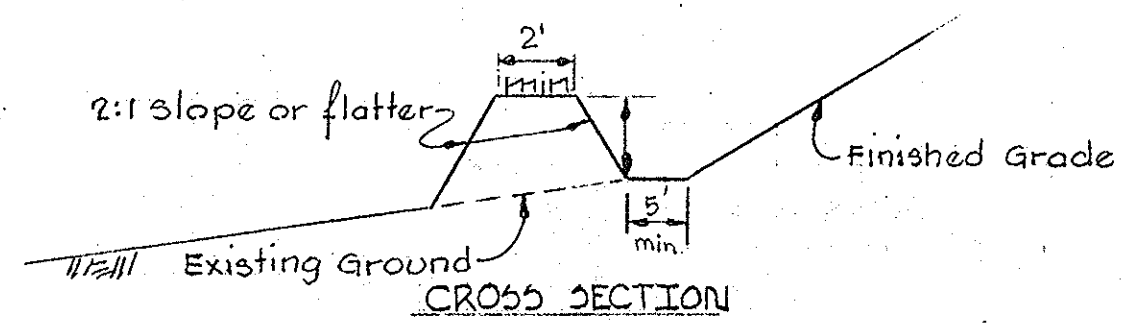
FIRST ELECTION DISTRICT OF HOWARD COUNTY MARYLAND

TAX MAP 37
DATE: February 27, 1980

PARCEL 183
SCALE: AS NOTED

CONSTRUCTION SPECIFICATIONS: PERIMETER DIKE

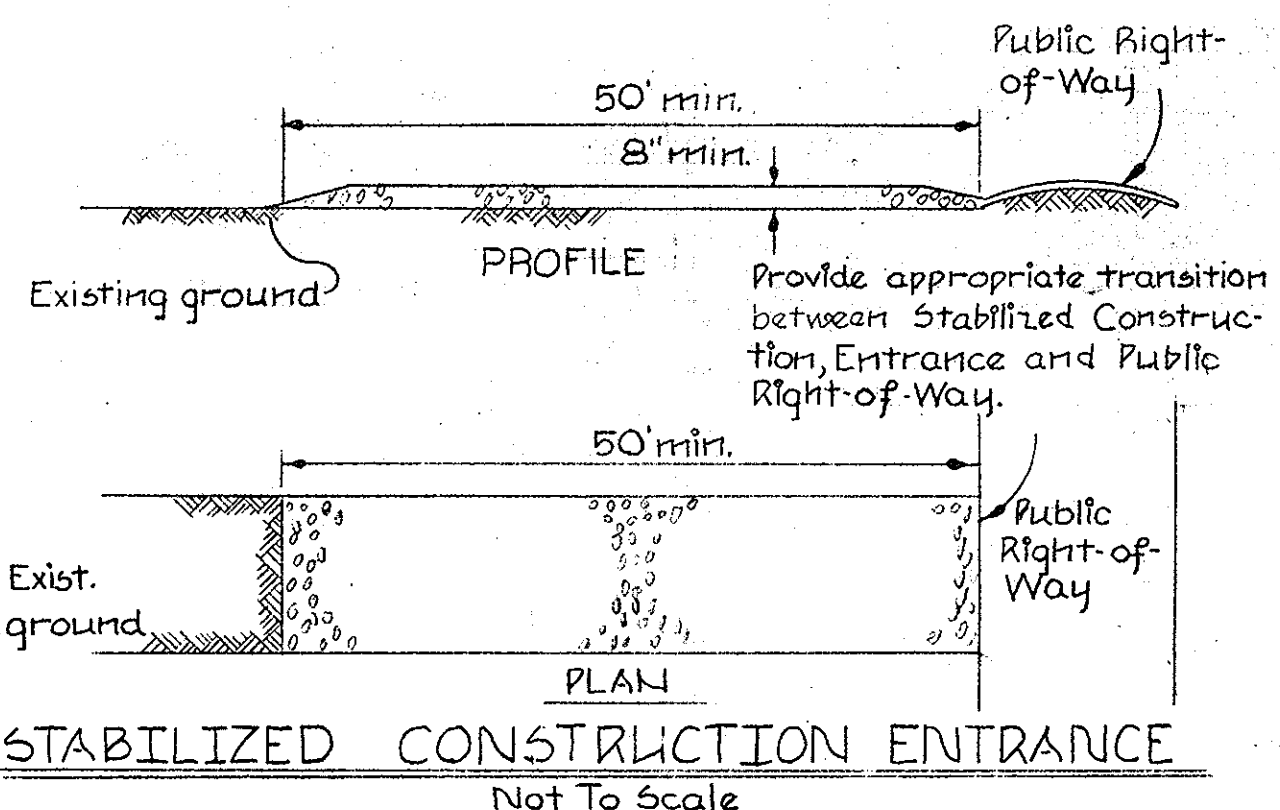
- ALL DIKES SHALL BE MACHINE COMPACTED.
- ALL PERIMETER DIKES SHALL HAVE POSITIVE DRAINAGE TO AN OUTLET.
- A. DIVERTED RUNOFF FROM A PROTECTED OR STABILIZED UPLAND AREA SHALL OUTLET DIRECTLY ONTO AN UNDISTURBED STABILIZED AREA OR INTO A LEVEL SPREADER OR GRADE STABILIZATION STRUCTURE.
- B. DIVERTED RUNOFF 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.
- 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.
- PERIODIC INSPECTION AND REQUIRED MAINTENANCE SHALL BE PROVIDED.



PERIMETER / DIVERSION DIKE
Not To Scale

CONSTRUCTION SPECIFICATIONS: DIVERSION DIKE

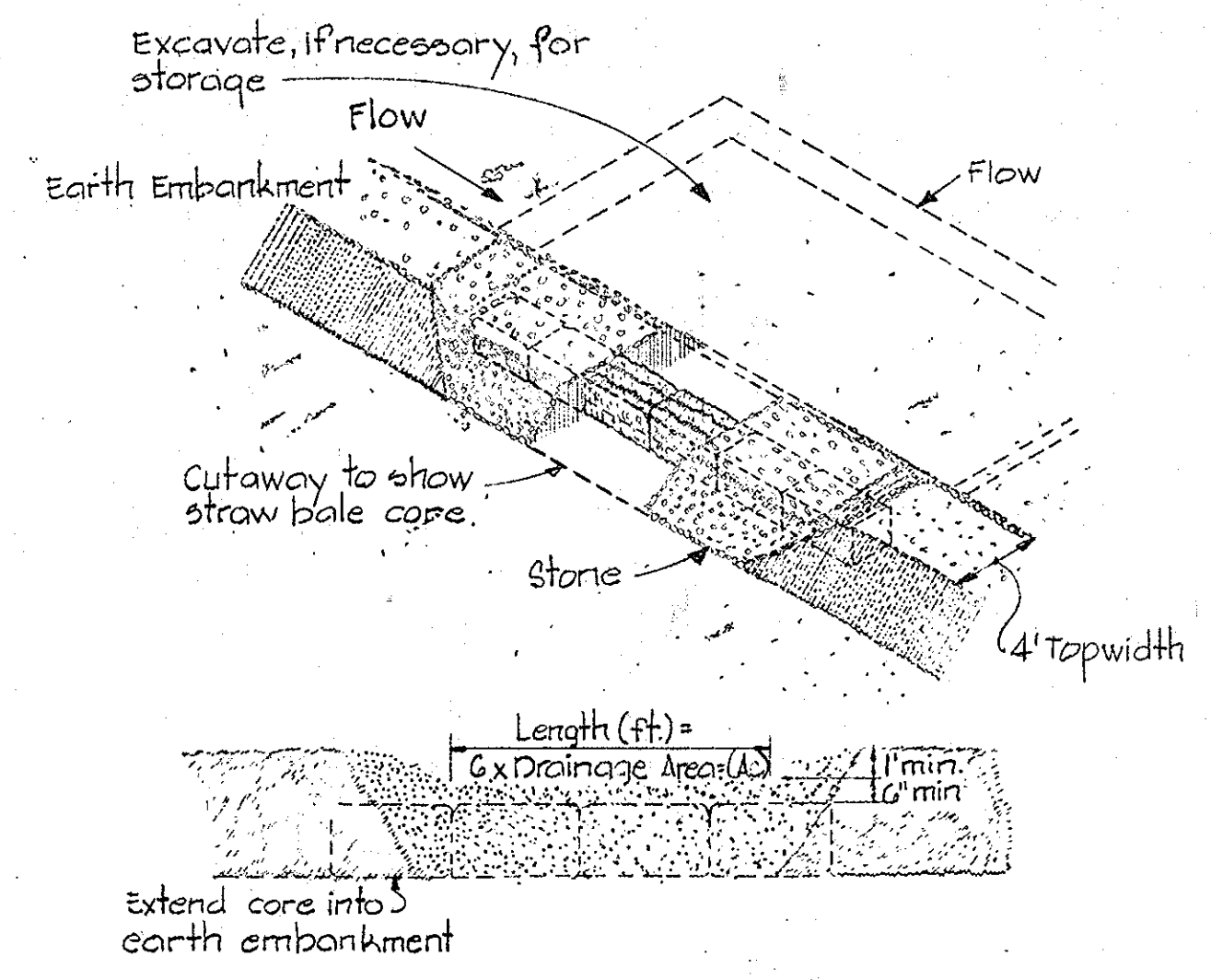
- ALL DIKES SHALL BE MACHINE COMPACTED.
- ALL DIVERSION DIKES SHALL HAVE POSITIVE DRAINAGE TO AN OUTLET.
- A. DIVERTED RUNOFF FROM A PROTECTED OR STABILIZED AREA SHALL OUTLET DIRECTLY TO AN UNDISTURBED STABILIZED AREA OR INTO A LEVEL SPREADER OR GRADE STABILIZATION STRUCTURE.
- B. DIVERTED RUNOFF FROM 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.
- 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.



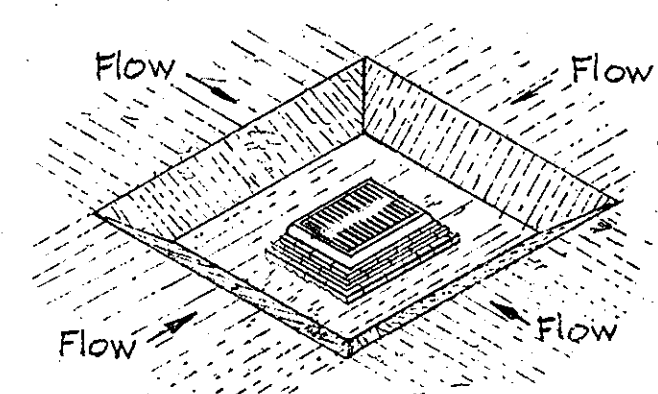
STABILIZED CONSTRUCTION ENTRANCE
Not To Scale

CONSTRUCTION SPECIFICATIONS: SEDIMENT TRAP

- AREA UNDER EMBANKMENT SHALL BE CLEARED, GRUBBED AND STRIPPED OF ANY VEGETATION AND ROOT MAT. THE POOL AREA SHALL BE CLEARED.
- 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.
- 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.
- THE STRUCTURE SHALL BE INSPECTED AFTER EACH RAIN AND REPAIRS MADE AS NEEDED.
- CONSTRUCTION OPERATIONS SHALL BE CARRIED OUT IN SUCH A MANNER THAT EROSION AND WATER POLLUTION IS MINIMIZED.
- THE STRUCTURE SHALL BE REMOVED AND THE AREA STABILIZED WHEN THE DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.
- ALL CUT AND FILL SLOPES SHALL BE 2:1 OR FLATTER.
- 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.



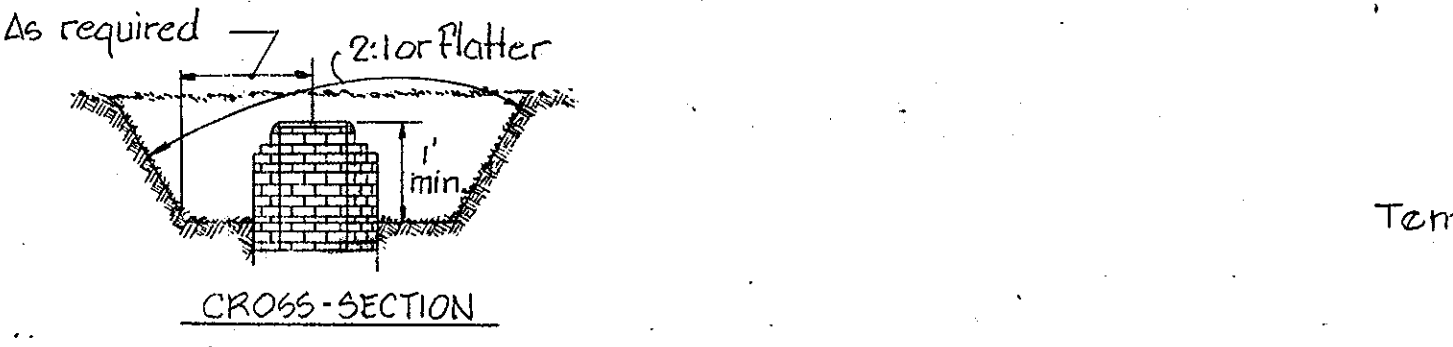
DETAIL-STONE OUTLET SEDIMENT TRAP
Not To Scale



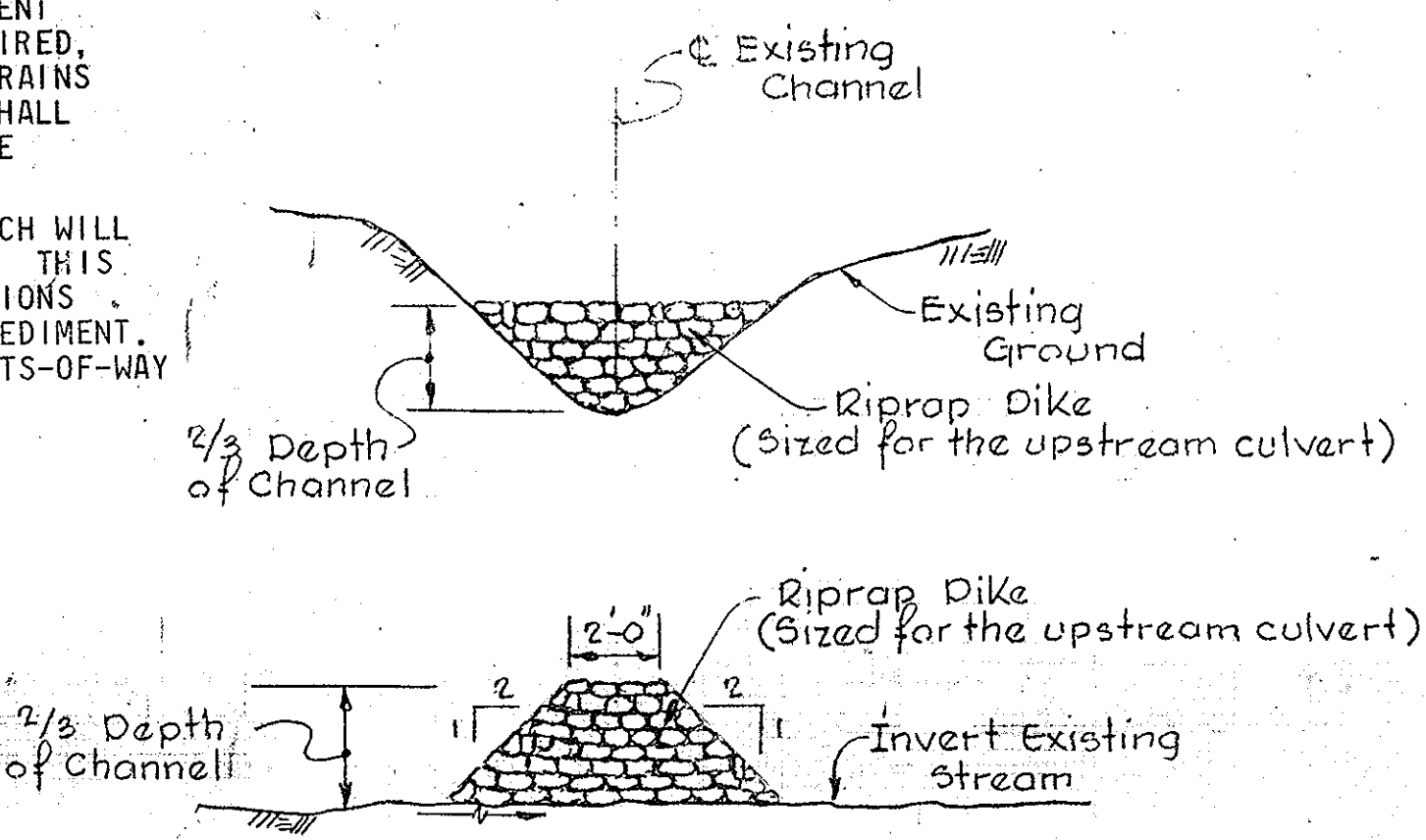
STORM INLET SEDIMENT TRAP
Not To Scale

CONSTRUCTION SPECIFICATIONS: STABILIZED CONSTRUCTION ENTRANCE

- STONE SIZE - USE MSHA SIZE NO. 2 (2-1/2" TO 1") OR AASHTO DESIGNATION M43 SIZE NO. 2 (2-1/2" TO 1-1/2"). USE CRUSHED STONE.
- LENGTH - AS EFFECTIVE, BUT NOT LESS THAN 50 FEET.
- THICKNESS - NOT LESS THAN EIGHT (8) INCHES.
- WIDTH - NOT LESS THAN FULL WIDTH OF PROPOSED PAVING.
- 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.
- 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.

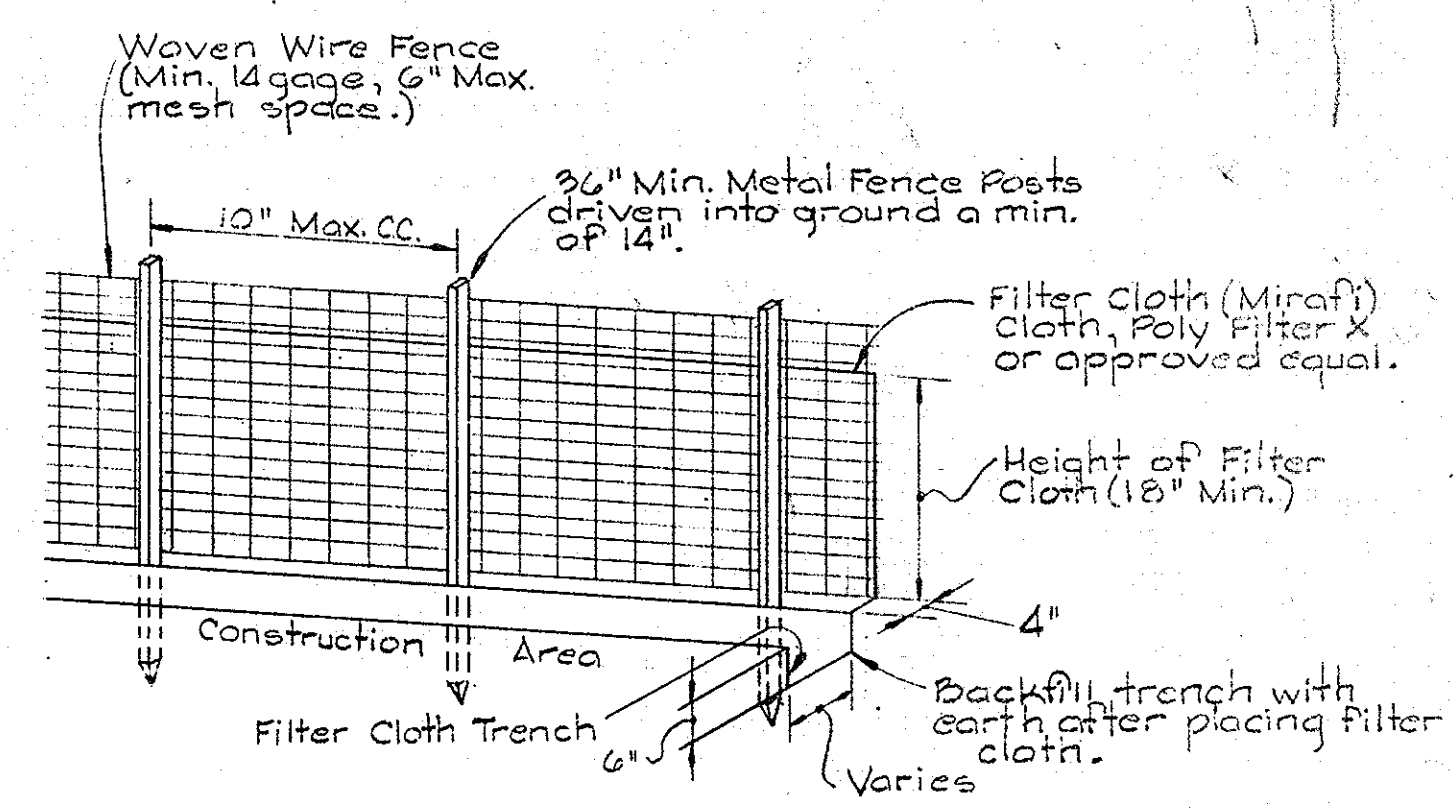


YARD DRAIN
STORM INLET SEDIMENT TRAP
Not To Scale



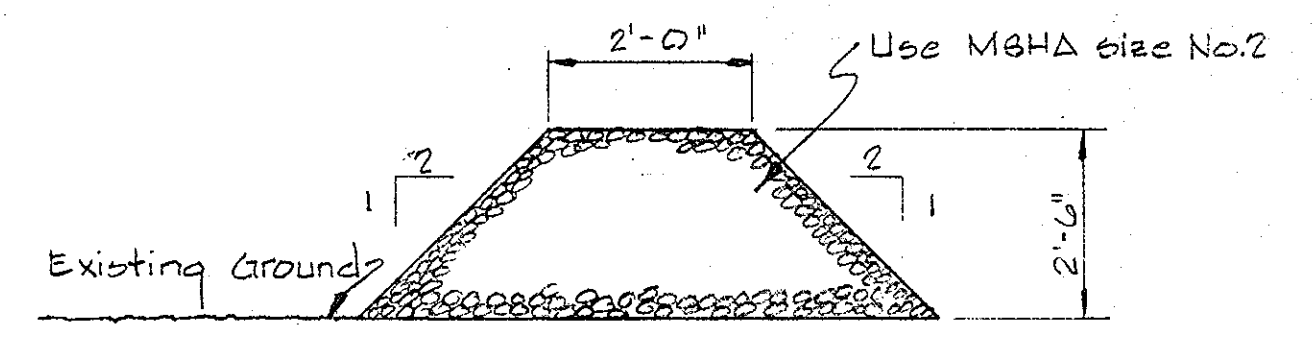
SEDIMENT CONTROL FOR CULVERT CONSTRUCTION AT ROADS
Not To Scale

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

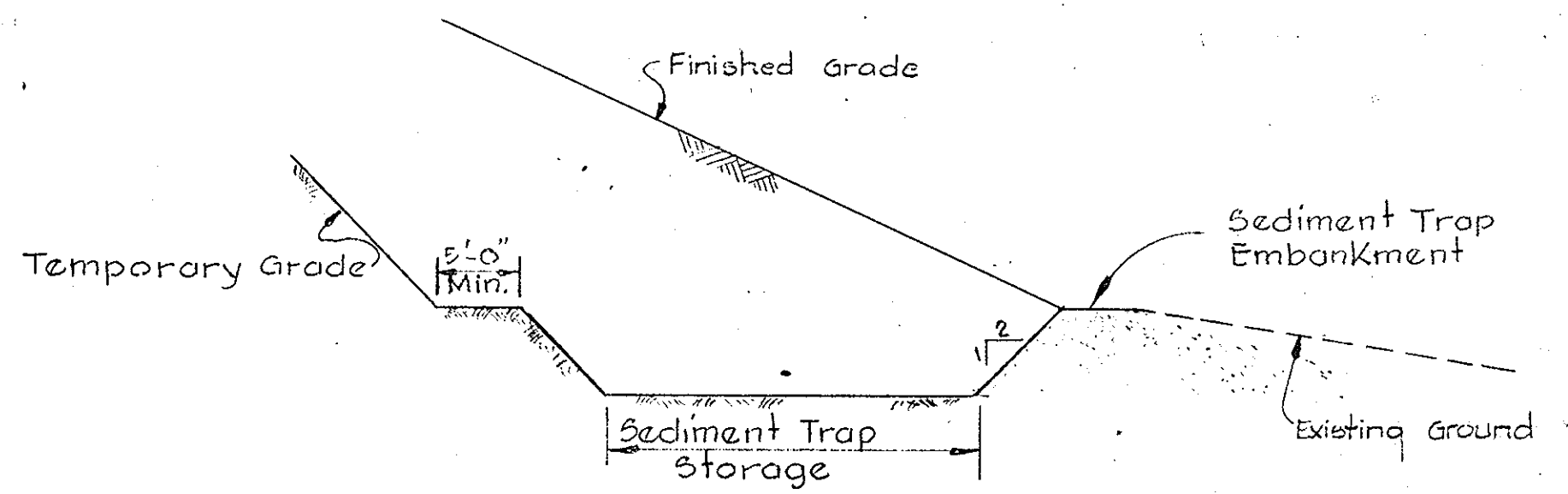


- Notes:**
- Woven wire fence to be fastened securely to fence posts by use of wire ties.
 - Filter cloth to be fastened securely to woven wire fence by use of wire ties, spaced every 24" x 24".

SILT FENCE DETAIL
No Scale



STONE BERM DETAIL
No Scale



DETAIL-TEMPORARY GRADING AT SEDIMENT TRAP
Not to scale

CONSTRUCTION SPECIFICATIONS: SILT FENCE

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

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

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

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

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."
... DATE: 8/8/80
SIGNATURE OF DEVELOPER DATE

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: 11/16/78
KENNETH A. MCCORD DATE

APPROVED
DIVISION OF LAND DEVELOPMENT

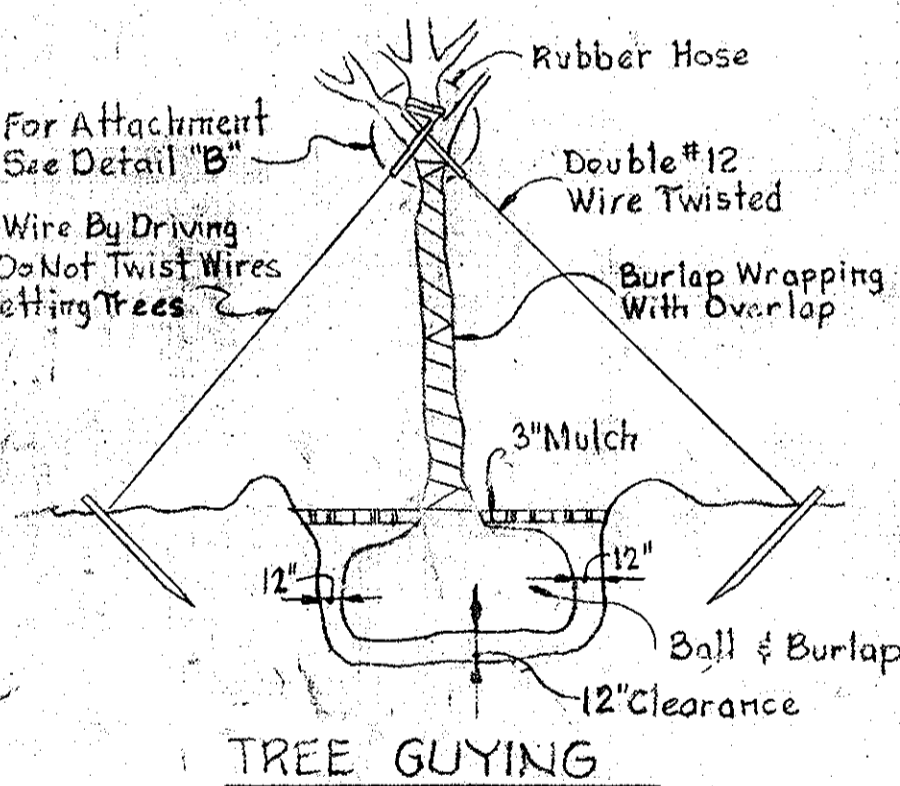
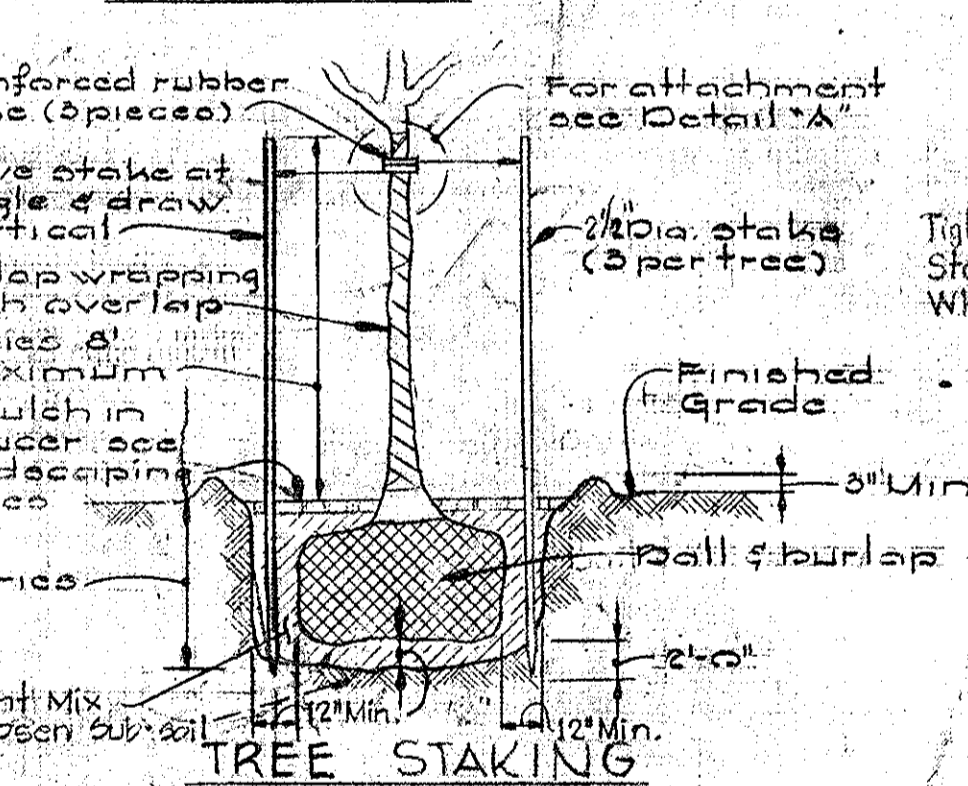
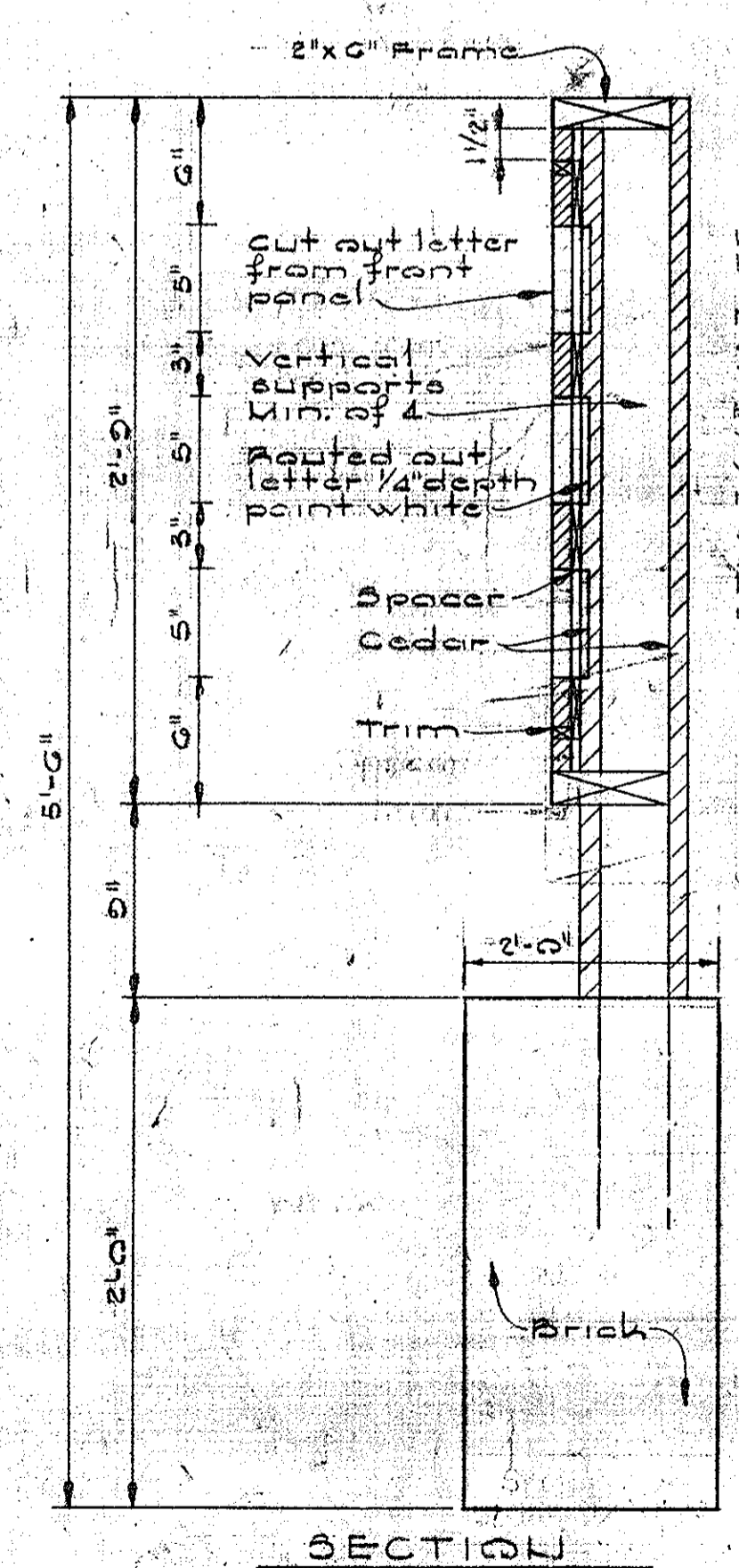
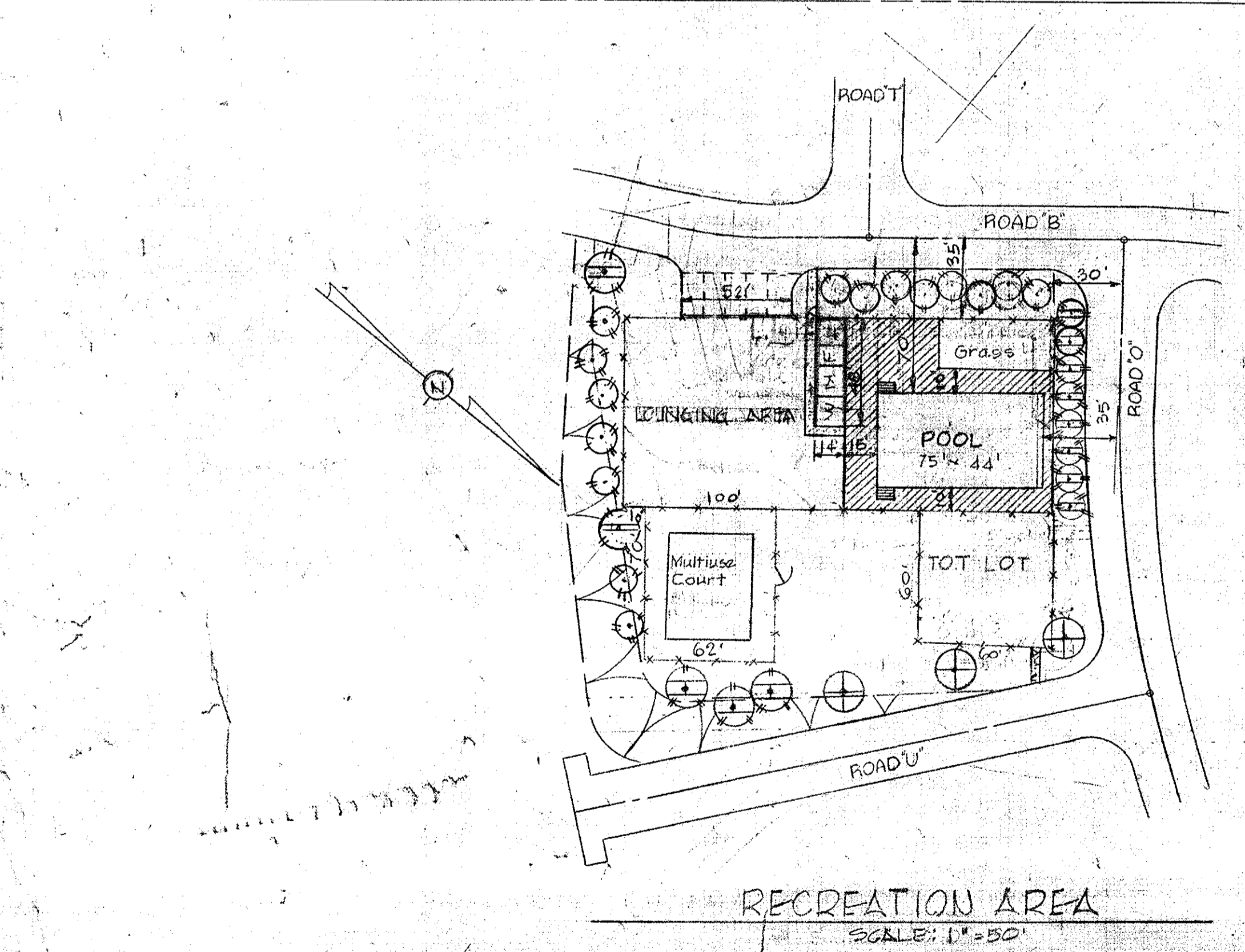
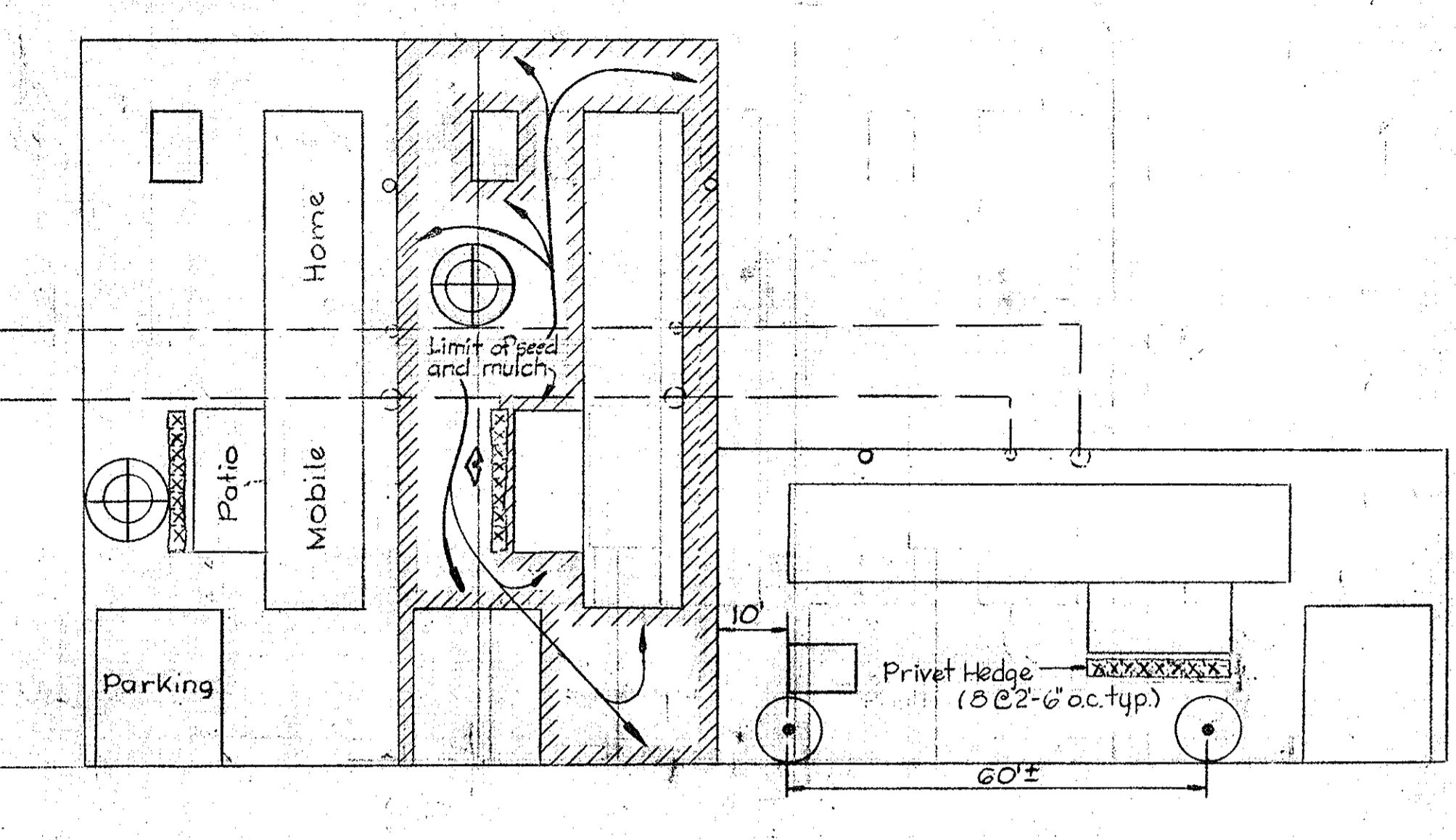
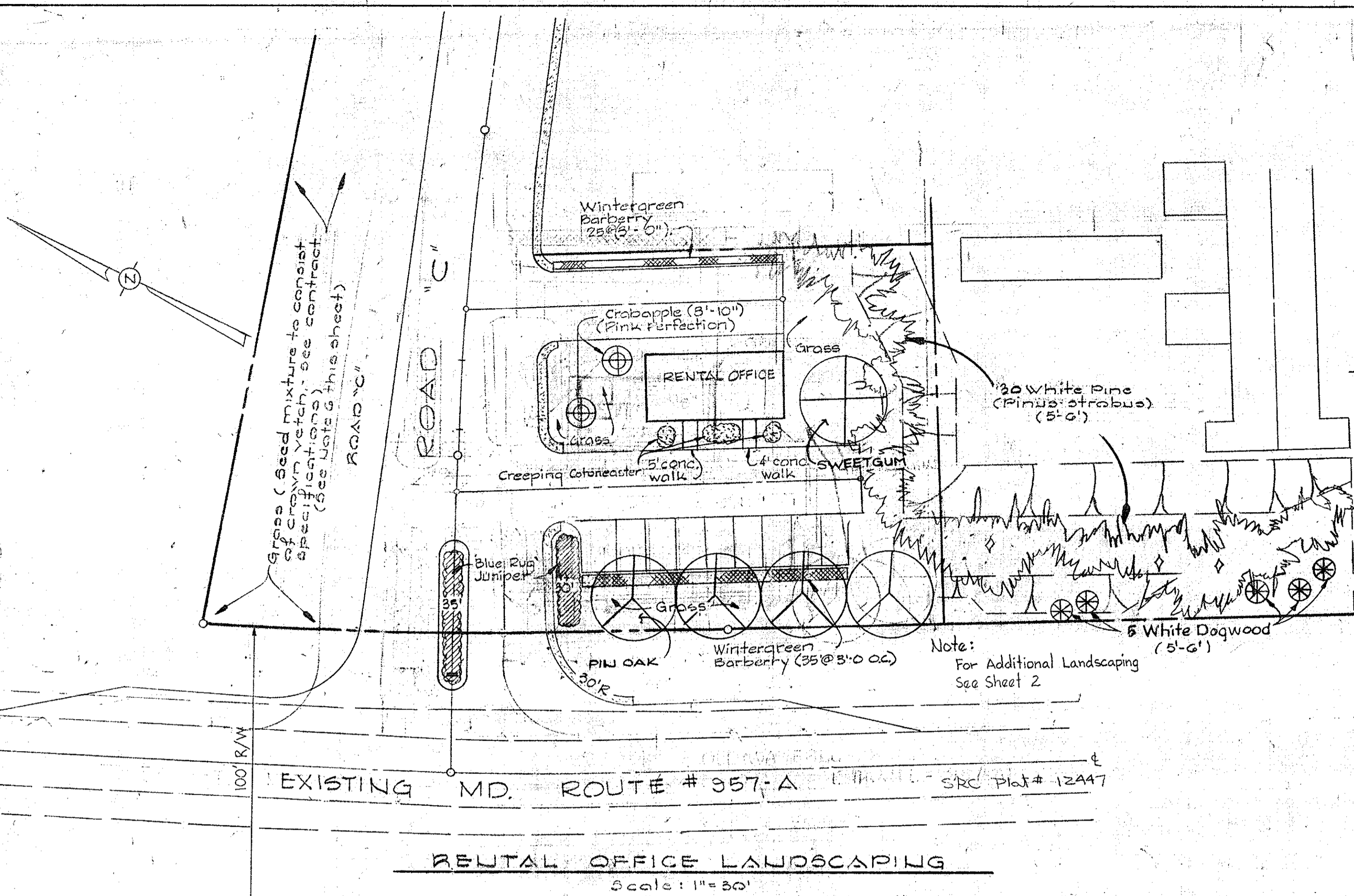
HOWARD COUNTY, MARYLAND
DATE: 7-8-80
...

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

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
SDP-80-95

PLANT LIST			
SYMBOL	BOTANICAL & COMMON NAME	SIZE	QUANT.
(Symbol)	LIQUIDAMBER STYRACIFLUA - SWEETGUM	2 1/2' - 3'	4
(Symbol)	PINUS NIGRA-AUSTRIAN PINE	8'-10'	18
(Symbol)	PINUS STROBUS-WHITE PINE	5'-6" - 8'-10"	40
(Symbol)	QUERCUS PALUSTRIS - PIN OAK	2 1/2' - 3' Cal	4
(Symbol)	MALUS SP. - CRABBAPPLE SP. (PINK PERFECTION)	8'-10" (2' cal)	2
(Symbol)	SEE NOTE BELOW	2 1/2' - 3'	-
(Symbol)	QUERCUS BOREALIS - NORTHERN RED OAK	2'-2 1/2' cal	17
(Symbol)	CORNUS FLORIDA - WHITE DOGWOOD	6' - 8'	6
(Symbol)	PICEA ABIES - NORWAY SPRUCE	8'-10'	36
(Symbol)	CREeping COTONEASTER	15" - 18" cans	40
(Symbol)	JUNIPERUS HORIZONTALIS "BLUE RUG" - JUNIPER	15" - 18" cans	100
(Symbol)	BERBERIS JULIANAE - WINTERGREEN BARBERRY	2' - 2 1/2'	25
(Symbol)	LIGSTRUM LUCIDUM	2' - 2 1/2'	As Required
(Symbol)	SALIX BABYLONICA - WEEPING WILLOW	2 1/2' - 12'	4

** (Symbol) FLOWERING TREES - Symbol shall designate Flowering Crabapple, 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 owner's request
 ♦ EVERGREEN / BROADLEAF EVERGREEN HEDGES SUCH AS HOLLY (ILEX), YEW (TAXUS) AT OWNER'S REQUEST FOR SCREENING.
 * Location of plant material shall be determined by topography & individual site conditions.
 Note: Trees shall be a minimum of 2 1/2 inches caliper within the required landscape areas.



LANDSCAPING NOTES
 1. Plants shall conform to latest edition of "USA Standard for Nursery Stock, A-14"
 2. All plants shall 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. 10 and 12 and Lot Nos. 20 to 23 and 30 to 33.
 7. Tree staking for low branching and Conifers.
 8. Tree staking for shade trees.
 9. Crown vetch seeding between Lot Nos. 150 to 158 and Lot Nos. 137 to 143 rear slope areas.

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

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

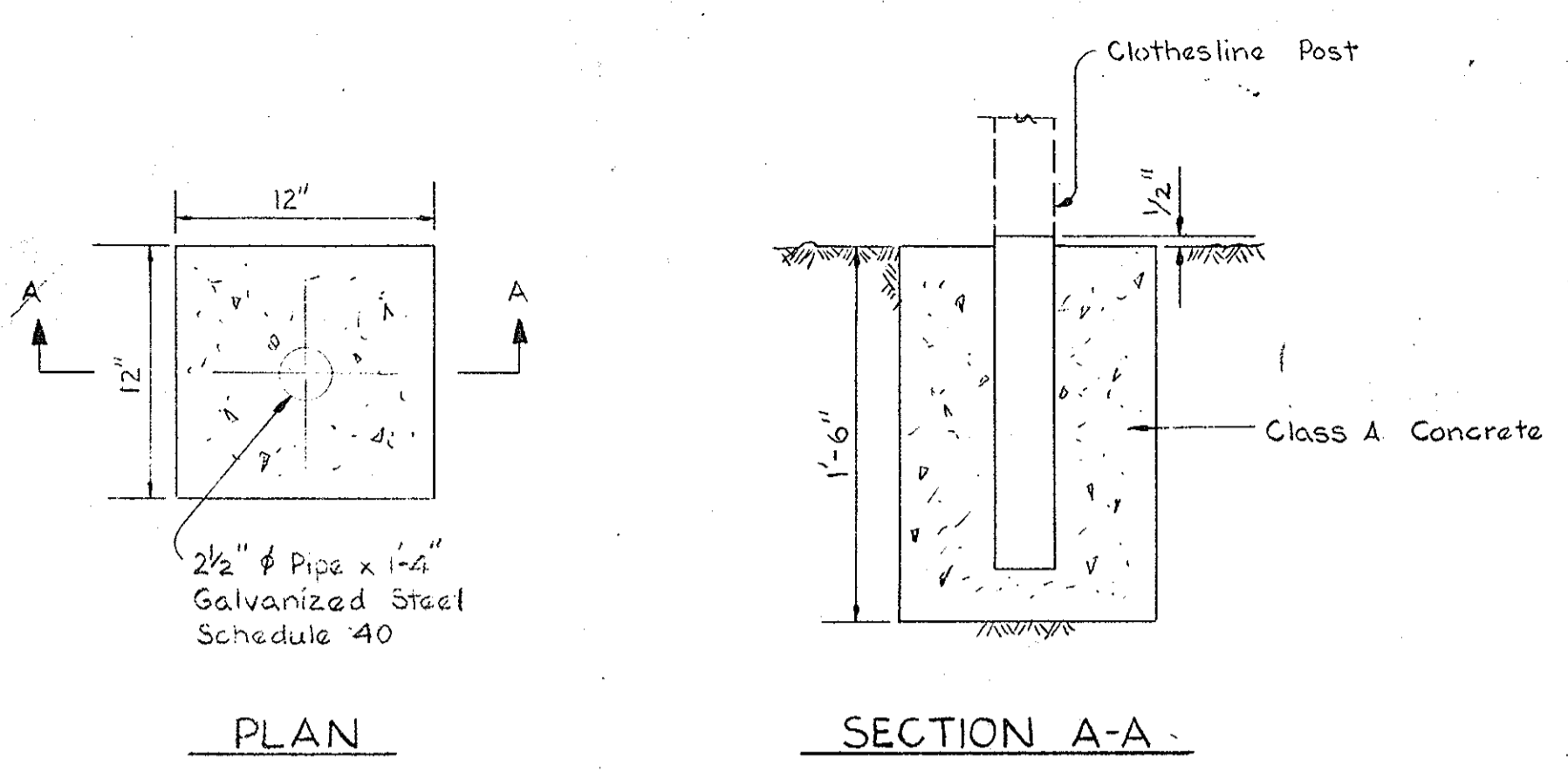
APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING
 Planning Director
 Chief, Division of Land Development
 APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE AND STORM DRAINAGE SYSTEMS AND ROADS
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 Director
 Chief, Bureau of Engineering

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
 APPROVED: William J. Lane HOWARD S.C.D. DATE: 8-28-80
 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

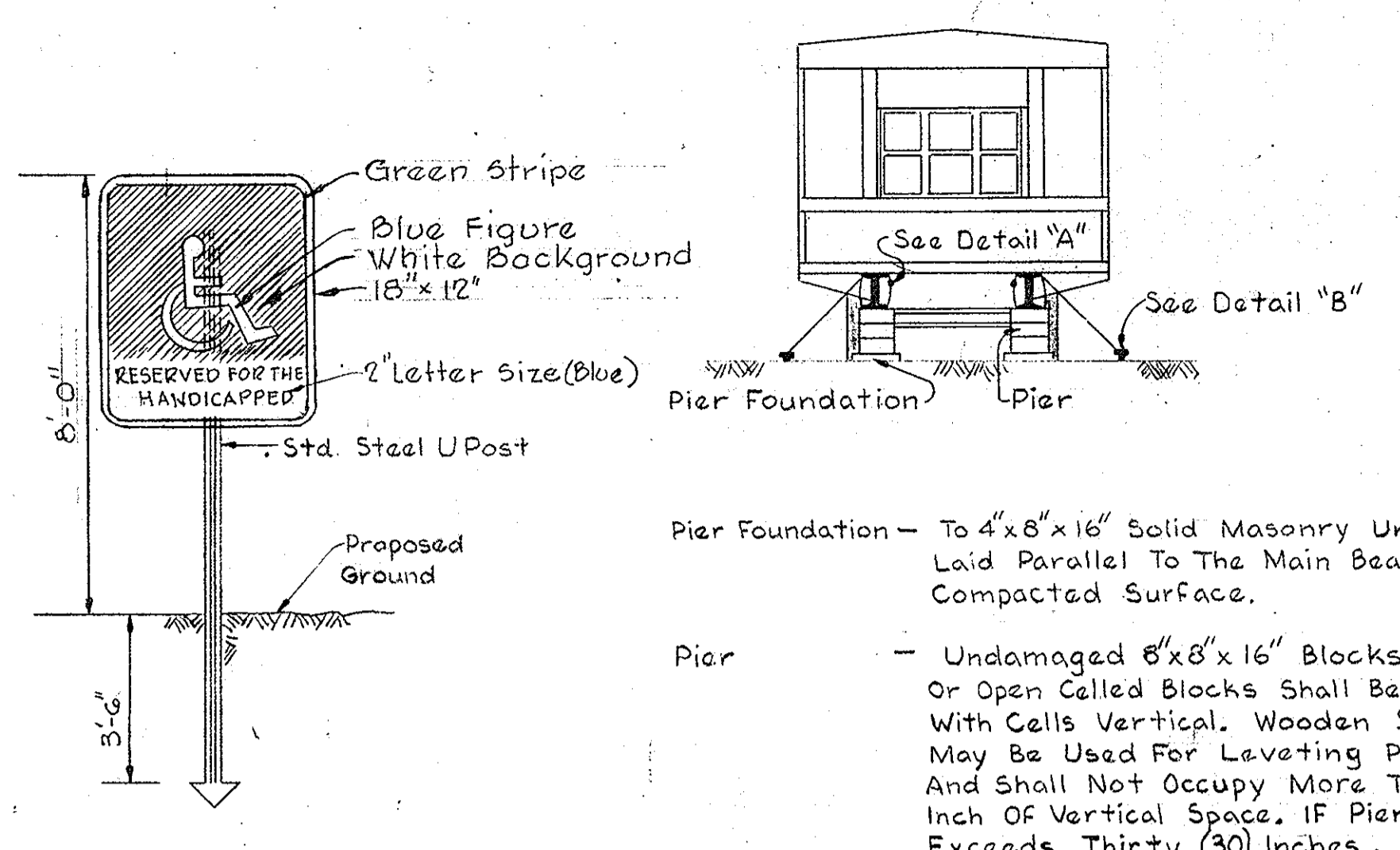
CERTIFICATION BY THE DEVELOPER
 "I certify that all development and/or construction will be done according to this Plan of Development and Plan for Erosion and Sediment Control, and I also authorize periodic on site inspection by the HOWARD SOIL CONSERVATION DISTRICT or their authorized agents, as are deemed necessary."
 SIGNATURE OF DEVELOPER DATE: 7-18-80

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."
 SIGNATURE: KENNETH A. MCCORD DATE: 11-18-79

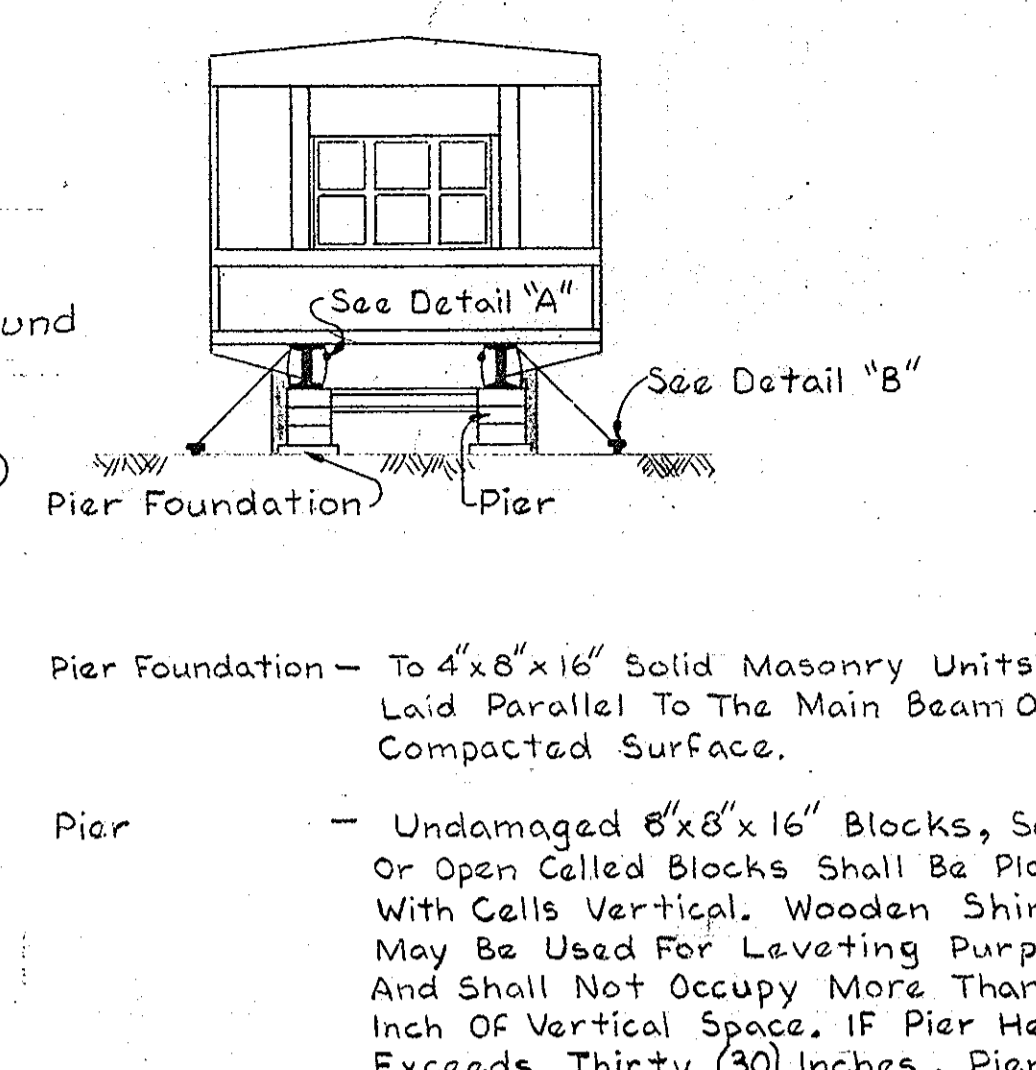
OWNER AND DEVELOPER
 DEEP RUN ASSOCIATES
 3701 OLD COURT ROAD, UNIT 11
 BALTIMORE, MARYLAND - 21208
 DEEP RUN PARK
 SECTION I
 LANDSCAPE PLAN AND DETAILS
 FIRST ELECTION DISTRICT OF HOWARD COUNTY, MARYLAND
 DATE: November 10, 1979
 SCALE: AS SHOWN
 J.O.7153
 FILE
 SHEET
 32 OF 33



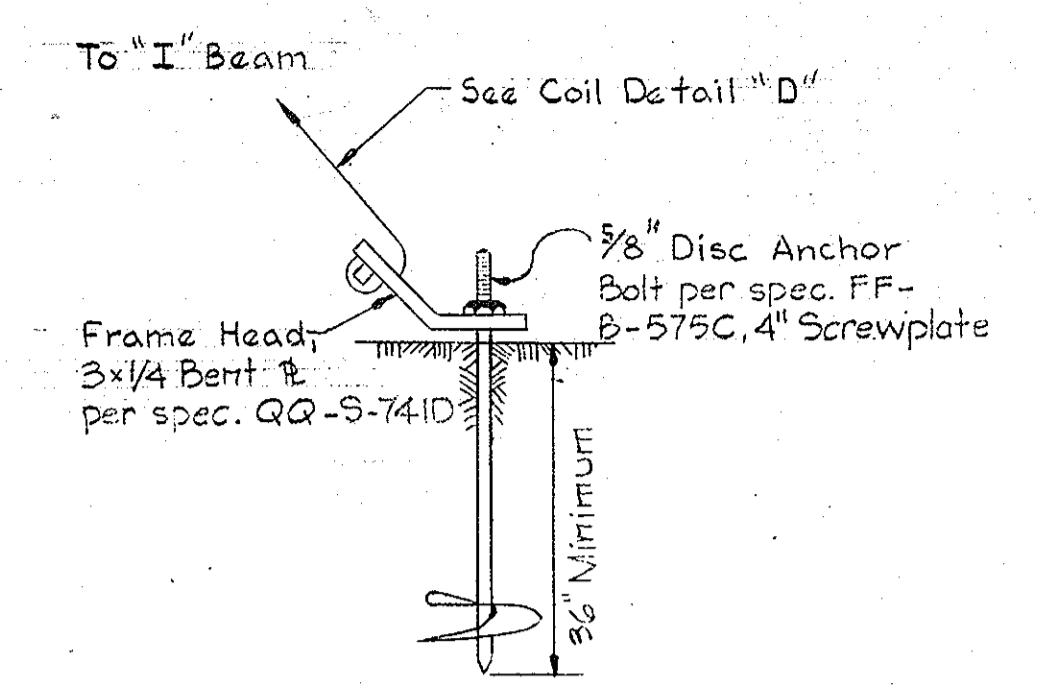
CLOTHESLINES MOUNTING SLEEVE
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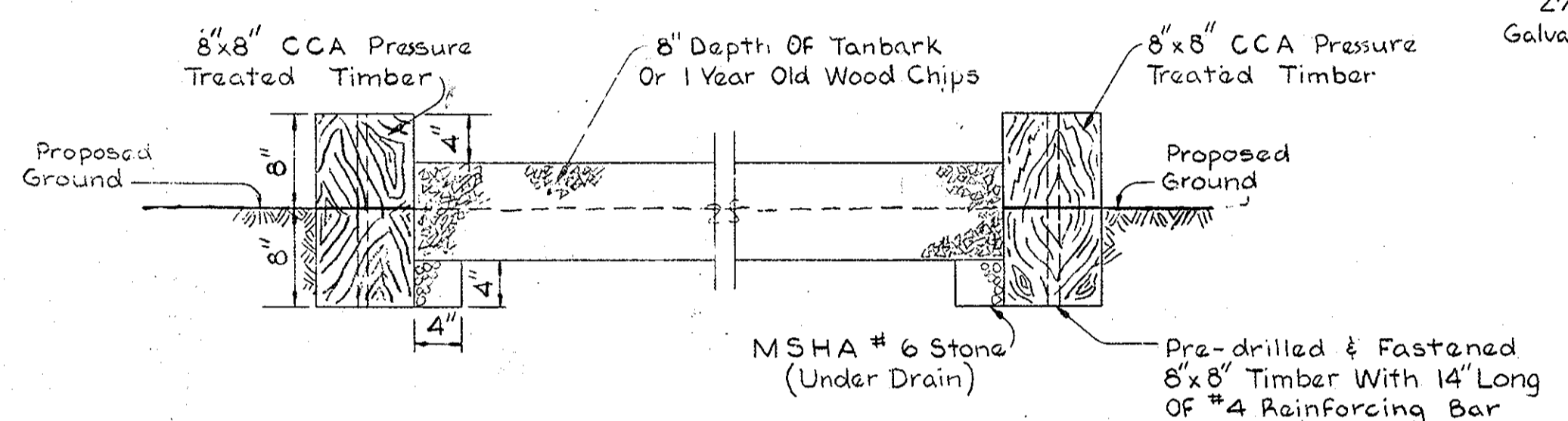
SIGN DETAIL FOR HANDICAPPED
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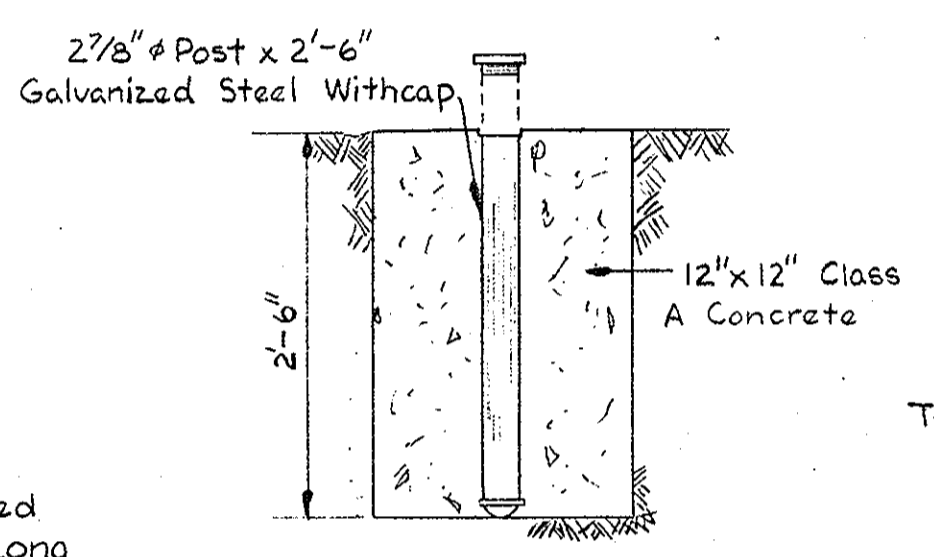
TYPICAL FRONT ELEVATION
No Scale



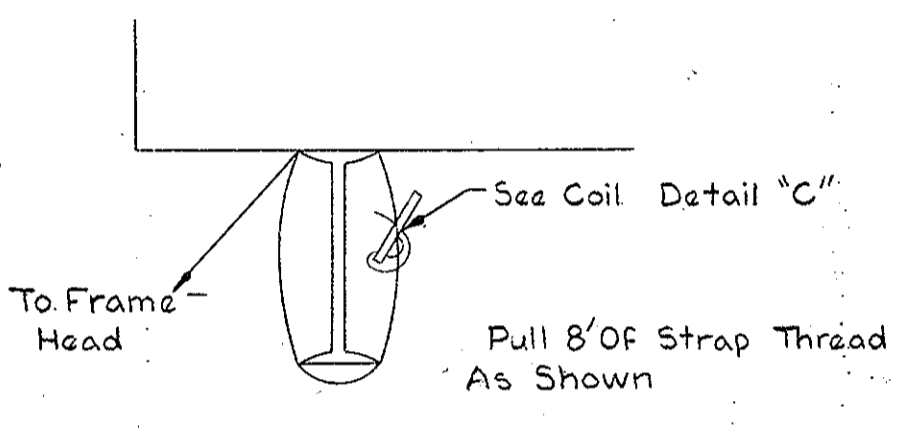
DETAIL "B"
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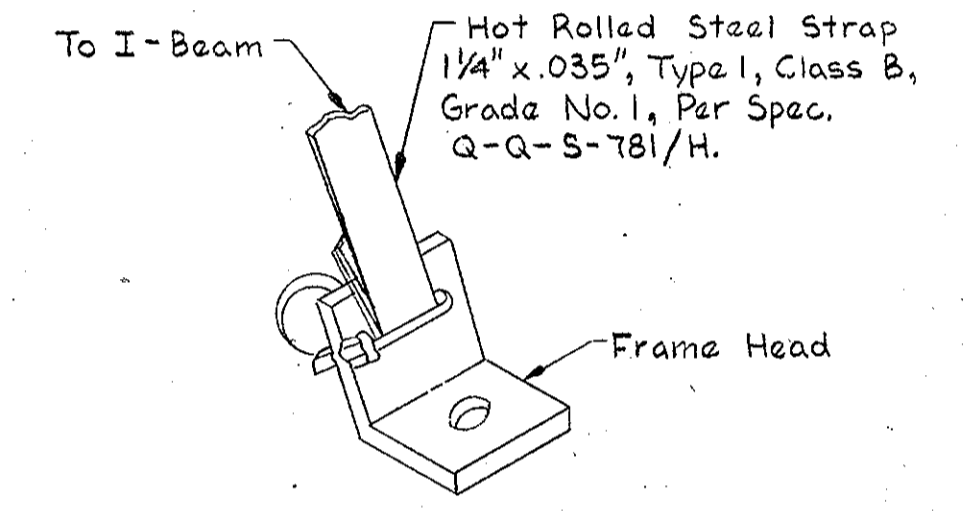
PLAY AREA TOT-LOT DETAIL
Scale 1"=1'-0"



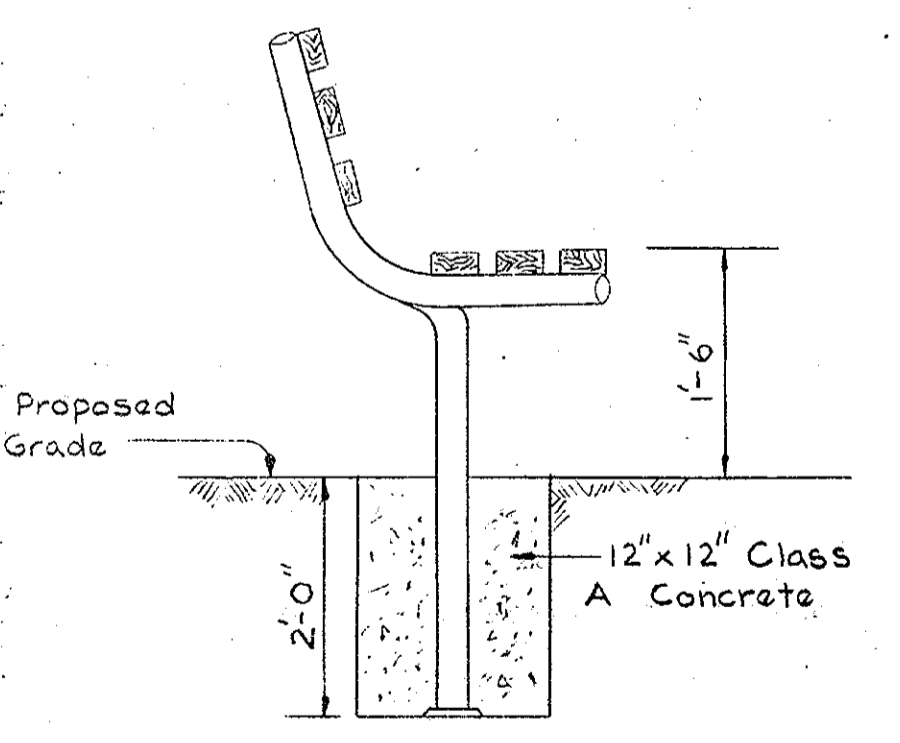
GROUND SOCKET FOR MULTI-USE COURT
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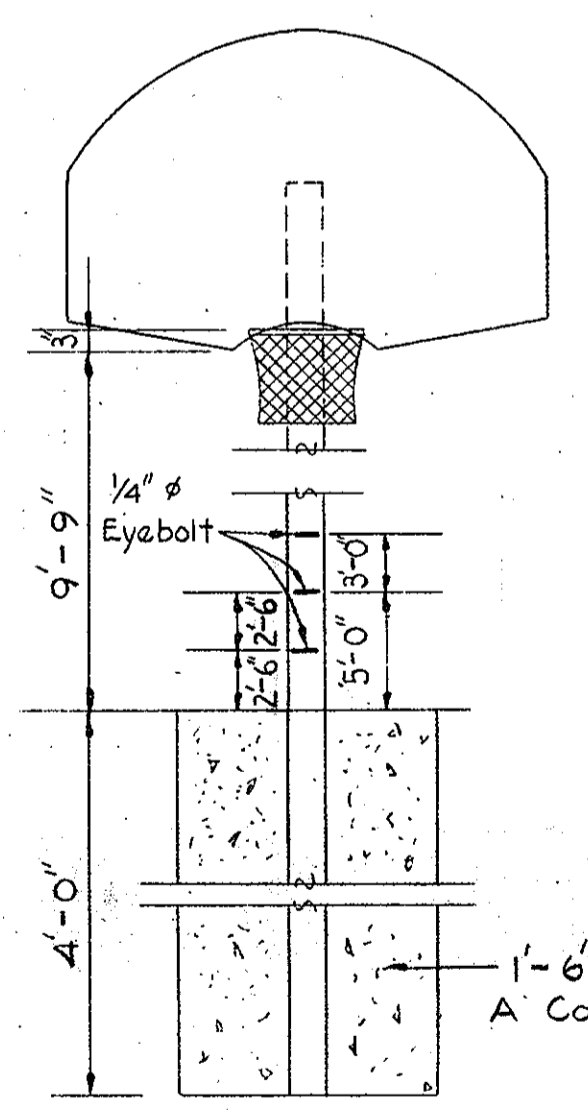
DETAIL "A"
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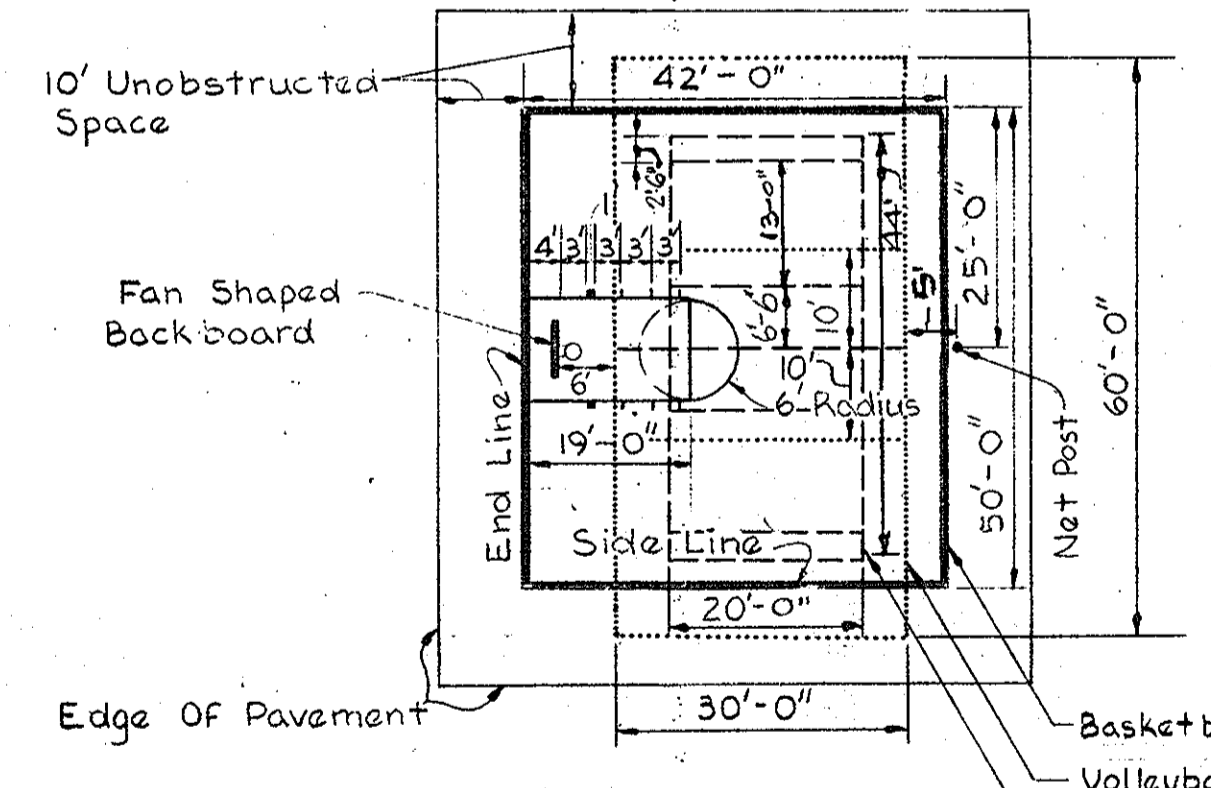
DETAIL "C" TYPICAL ANCHOR HEAD
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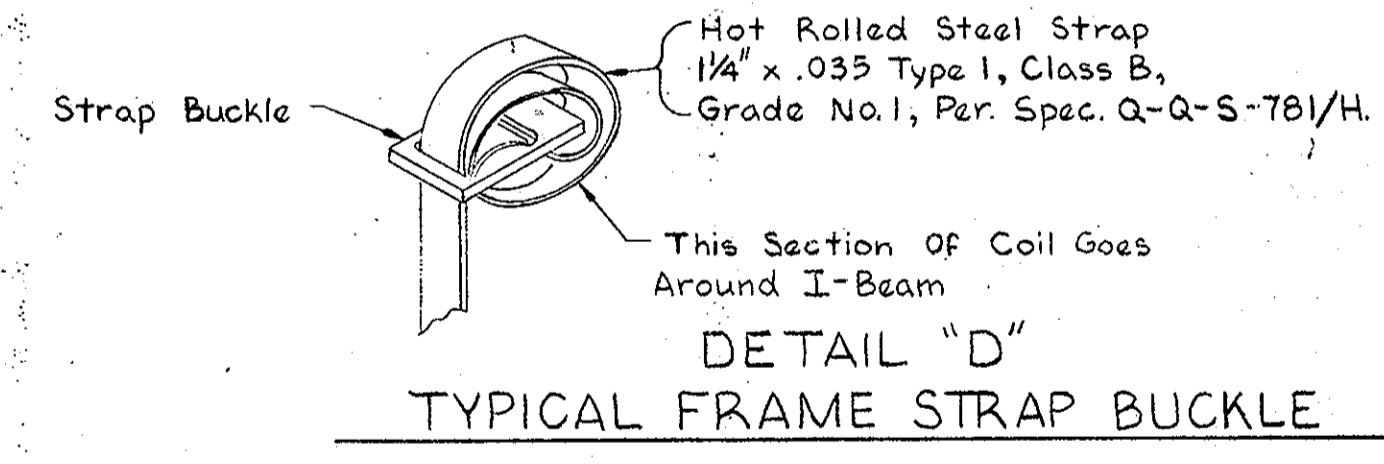
FOOTING DETAIL FOR PERMANENT BENCH
No Scale



FOOTING DETAIL FOR BASKETBALL POST
No Scale



* DETAIL FOR MULTI-USE COURT
Scale: 1"=20'-0"



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 Beginning 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

- 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
2 DOME CLIMBER #655
GAME TIME
900 ANDERSON ROAD
LITCHFIELD, MICHIGAN 49252
3 MINI-MOON CLIMBER #80
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,
LITCHFIELD, MICHIGAN 49252
2 STAINLESS STEEL BEDRILL, MODEL NO.102-1,
6' HEIGHT, 12' LENGTH
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
2 NO.1178 TUNNEL CLIMBER
GAME TIME
900 ANDERSON ROAD, LITCHFIELD, MICHIGAN 49252
3 TOT CASLE TC-1
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, LITCHFIELD, MICHIGAN 49252
6' CLASSIC BENCH 170-006
2 MEXICO FORGE
MANUFACTURED BY KILGORE CORPORATION
P.O. BOX 565, REEDSVILLE, PA. 17084
3 MODEL NO.1236-2 WOODEN SLAT PARK BENCHES
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
3 LITTER RECEPTACLES 7722-F WITH 22 GAL.PLASTIC
GAME TIME
900 ANDERSON ROAD, LITCHFIELD, MICHIGAN 49252

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

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
CHIEF, DIVISION OF LAND DEVELOPMENT
APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE AND STORM DRAINAGE SYSTEMS AND ROADS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DIRECTOR
CHIEF, BUREAU OF ENGINEERING

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

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
DATE: November 16, 1979
PARCEL 163
SCALE: AS NOTED