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AS BUILT CERTIFICATE
 ARTHUR E. MUEGGE #8707 DATE

I CERTIFY THAT ALL SITES FOR MOBILE HOME LOCATION IN BRENTWOOD MANOR, MEET THE HOWARD COUNTY ZONING REGULATIONS, SECTION III, FOR A R-MHZ ZONED DISTRICT THESE REQUIREMENTS INCLUDE
 1) 4,000 SF MINIMUM SITE SIZE
 2) 49' AVERAGE WIDTH OF SITE AT THE MOBILE HOME LOCATION
 3) BUILDING/MOBILE HOME SETBACKS
 A) 30' FROM E. OF INTERNAL PRIVATE STREET
 B) 5' SIDE YARD SETBACK
 C) 10' REAR YARD SETBACK
 D) 50' FROM DIFFERENTLY ZONED DISTRICT
 E) 20' FROM ANOTHER BUILDING/MOBILE HOME
 4) 20% OPEN SPACE
 5) 40% MAXIMUM LOT COVERAGE

Arthur E. Muegge
 ARTHUR E MUEGGE DATE

A MINIMUM OF 40' IS AVAILABLE ACROSS THE TRAVELWAY BETWEEN TWO DWELLING UNITS MEETING THE REQUIREMENTS OF COMAR 1016.02 EXTERIOR LIGHTING WILL BE PROVIDED IN ACCORDANCE WITH COMAR 1016.02

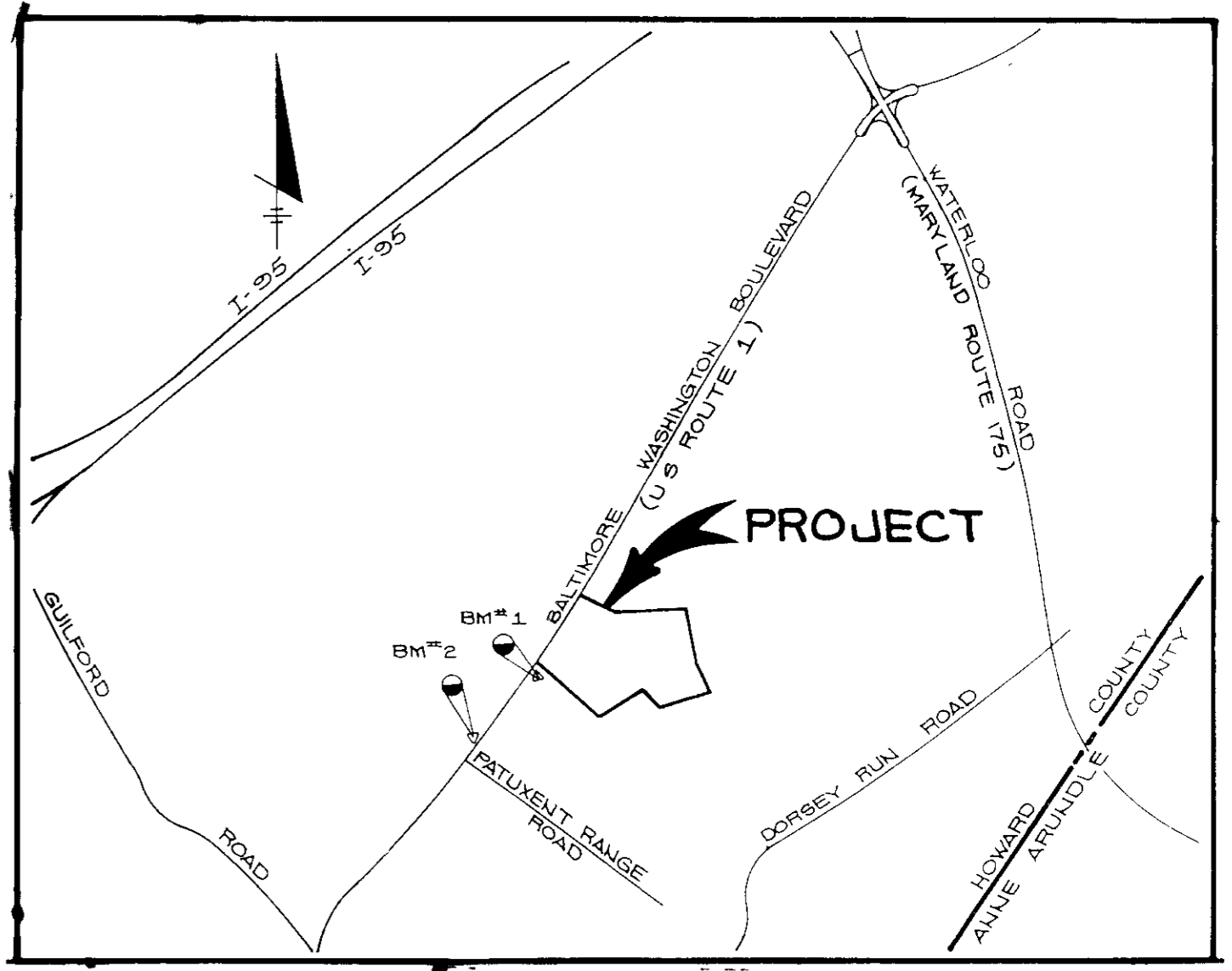
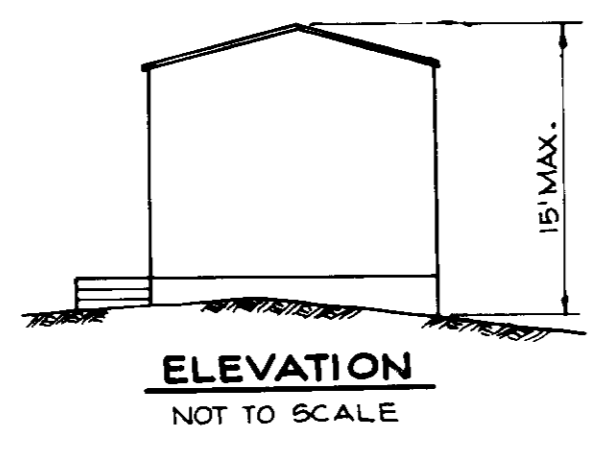
SITE DEVELOPMENT PLAN

BRENTWOOD MANOR

6TH ELECTION DISTRICT

HOWARD COUNTY, MARYLAND

BENCH MARKS
 BM #1 - HO CO STA # 2143002 ELEV = 243.15
 CONCRETE MONUMENT ON SE SIDE OF RTE #1
 1/4 MILE SW OF RTE #175
 (N 481,041.15, E 836,744.81)
 BM #2 - HO CO STA # 2143003 ELEV = 274.90
 CONCRETE MONUMENT ON NE SIDE OF RTE #1
 1/107 NORTH OF BRIDGE ON RTE #1 OVER RR SPUR



VICINITY MAP
 SCALE 1" = 2000'

DENSITY TABULATION

GROSS AREA OF TRACT	43.310 AC
AREA OF FLOODPLAIN & STEEP SLOPES	7.770 AC
NET AREA	35.540 AC
NUMBER OF DU PERMITTED @ 6 DU/NET AC	264 DU
NUMBER OF DU PROPOSED	182 DU
DENSITY	5.15 DU/NET ACRE

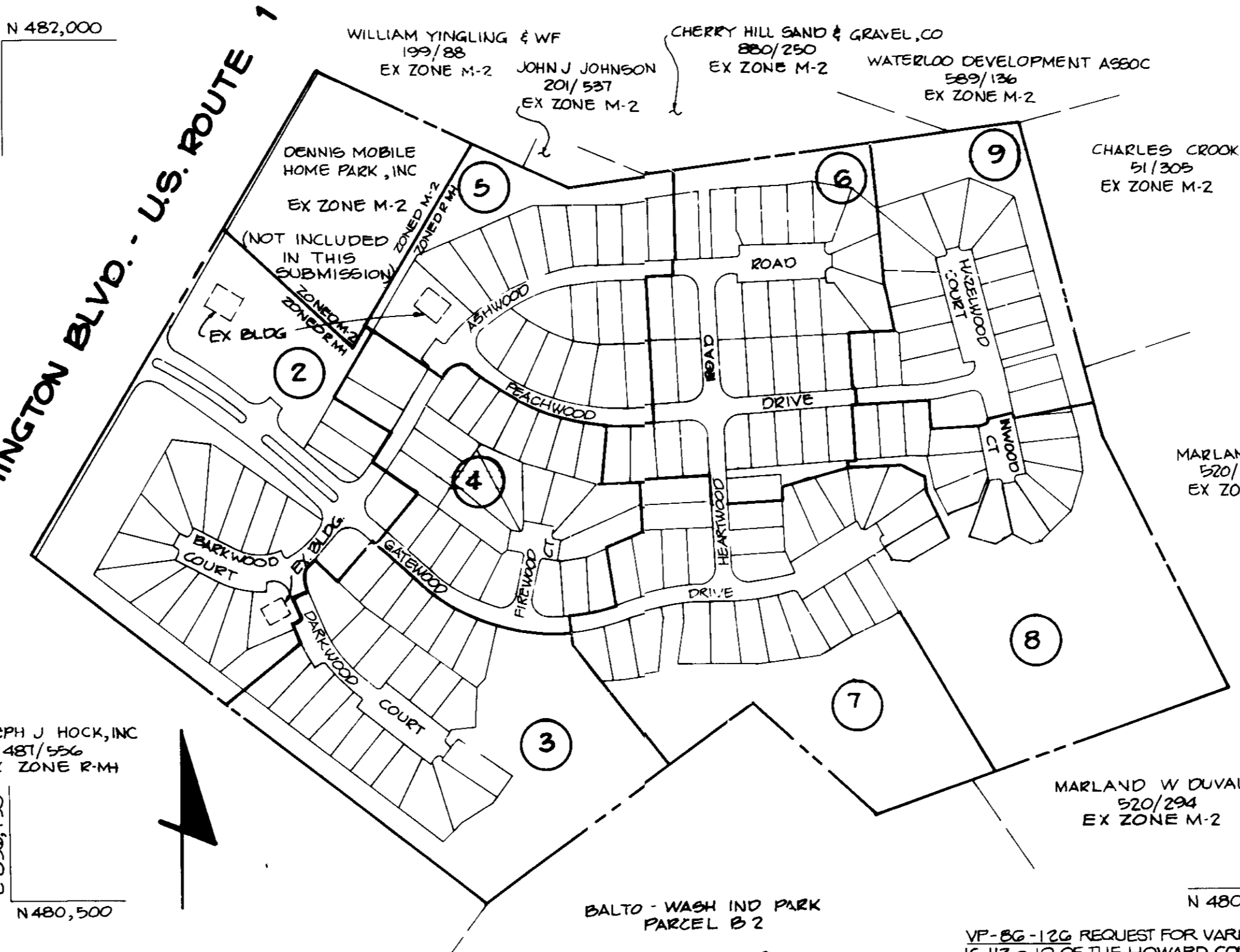
GENERAL NOTES

- ALL WATER LINES SHALL BE CONSTRUCTED A MINIMUM OF 42" COVER BELOW FINISHED GRADE
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL, VOLUME IV, I.E., STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION, 1990 EDITION
- APPROXIMATE LOCATION OF EXISTING UTILITIES ARE SHOWN. FROM BEST AVAILABLE INFORMATION THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES AND MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED DUE TO CONTRACTOR'S OPERATION SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL TEST PIT EXISTING UTILITIES AT LEAST FIVE (5) DAYS BEFORE STARTING WORK SHOWN ON THESE DRAWINGS TO VERIFY THEIR LOCATION AND ELEVATION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY IF LOCATION OF UTILITIES IS OTHER THAN SHOWN
- CONTRACTOR TO NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST FIVE DAYS BEFORE STARTING WORK SHOWN ON THESE DRAWINGS

MISS UTILITY	1-800-257-7777
C & P TELEPHONE COMPANY	725-9976
HOWARD COUNTY BUREAU OF UTILITIES	992-2366
AT&T CABLE LOCATION DIVISION	393-3553
BALTIMORE GAS & ELECTRIC COMPANY	685-0123
STATE HIGHWAY ADMINISTRATION	531-5533
HOWARD COUNTY CONSTRUCTION/INSPECTION SURVEY DIVISION (24 HOURS NOTICE PRIOR TO COMMENCEMENT OF WORK)	792-7272

- ALL INLETS SHALL BE CONSTRUCTED IN ACCORDANCE WITH HOWARD COUNTY STANDARDS.
- ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS
- THE CONTRACTOR SHALL PROVIDE A JOINT IN ALL SEWER MAINS WITHIN 2'-0" OF EXTERIOR MANHOLE WALLS
- PROFILE STATIONS SHALL BE ADJUSTED AS NECESSARY TO CONFORM TO PLAN DIMENSIONS
- NO PIPE SHALL BE LAID UNTIL LINES OF EXCAVATION HAVE BEEN BROUGHT TO SUBGRADE.
- TOPO TAKEN FROM FIELD RUN SURVEY DATED JUNE 1986 BY THE REMER GROUP, INC.
- ALL PLAN DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED
- ALL STORM DRAIN PIPE BEDDING SHALL BE AS SHOWN IN DETAIL G2 01 (TRENCH IN ROCK OR TRENCH IN EARTH AS DETERMINED BY FIELD CONDITIONS) IN VOL. IV OF HOWARD COUNTY DESIGN MANUAL UNLESS OTHERWISE DIRECTED BY THE ENGINEER OR AS SHOWN ON THE DRAWINGS.
- THE DEVELOPER IS RESPONSIBLE FOR THE ACQUISITION OF ALL EASEMENTS, RIGHTS AND/OR RIGHTS-OF-WAY THAT MAY BE REQUIRED FOR THE SEDIMENT AND EROSION CONTROL PRACTICES, STORM WATER MANAGEMENT PRACTICES AND THE DISCHARGE OF STORM WATER ONTO OR ACROSS ADJACENT OR DOWNSTREAM PROPERTIES INCLUDED IN THIS PLAN. HE IS ALSO RESPONSIBLE FOR THE ACQUISITION OF ALL EASEMENTS, RIGHTS AND/OR RIGHTS-OF-WAY THAT MAY BE REQUIRED FOR GRADING AND/OR WORK ON ADJACENT PROPERTIES INCLUDED IN THIS PLAN
- THE 100 YEAR FLOODPLAIN SHOWN HEREON IS BASED ON THE DORSEY RUN-FLOODPLAIN SWM STUDY PREPARED BY THIS OFFICE
- WATER CONTRACT NUMBER 24-1841-D
- REFUSE COLLECTION SERVICE DEVELOPMENT WILL USE BOTH CURBSIDE AND MODIFIED CURB SERVICE. RESIDENTS WITH INDIVIDUAL DRIVEWAYS OR WALKS WILL PLACE TRASH AT THE END OF THE YARD. RESIDENTS WITHOUT INDIVIDUAL WALKS OR DRIVEWAYS ADJOINING A COUNTY OR PUBLIC STREET WILL PLACE THEIR TRASH IN A "GROUPING" USING THE NEAREST ISLE BETWEEN PARKING SPACES WHERE A COMMON PARKING LOT IS USED.

NOTE
 ALL UNITS PROPOSED ARE TO MEET LATEST HUD STANDARDS



LOCATION PLAN
 SCALE 1" = 200'

SITE TABULATION

DESCRIPTION	AREA	REMARKS
GROSS AREA OF TRACT	43.310 AC	
ZONING OF TRACT	R-MH, M-2	
AREA OF R-MH ZONING/AREA OF SUBMISSION	40.768 AC	
AREA OF M-2 ZONING (Not in this submission)	2.55 AC	
AREA OF FLOODPLAIN & STEEP SLOPES	7.770 AC	(SEE BREAKDOWN BELOW)
NET AREA	35.540 AC	
NUMBER OF D U PERMITTED @ 6 D U PER NET ACRE	264	
NUMBER OF D U PROPOSED	182	
TOTAL NO OF D U PROPOSED	182	
DENSITY PROPOSED PER NET ACRE	5.15 DU/NET ACRE	
AREA OF PROPOSED RESIDENTIAL SITES	21.137 AC	
AREA OF PROPOSED PRIVATE ROADS	4.6 AC	
AREA OF SALES AND MANAGEMENT OFFICE SITE	1.37 AC	
AREA OF LAUNDRY FACILITY	1,650 S F (.038 AC)	
OPEN SPACE REQUIRED (20%)	8.14 AC	
OPEN SPACE PROPOSED (33.6%)	13.78 AC	
PERCENTAGE OF OPEN SPACE OUT OF FLOOD PLAIN & STEEP SLOPES	79.7%	
FLOOR AREA OF SALES OFFICE BUILDING	2800 S F	
SALES AND MANAGEMENT OFFICES STORAGE	1150 S F	
AREA OF STEEP SLOPES	1.96 AC	
AREA OF FLOOD PLAIN	6.210 AC	
AREA OF FLOODPLAIN AND STEEP SLOPES	7.770 AC	
AREA OF DRY GROUND	4.07 AC	
AREA OF OPEN SPACE PROVIDED	6.00 AC	

THE WETLANDS BUFFER INDICATED ON THIS SDP DOES NOT AFFECT THE INITIAL CONSTRUCTION OF A RESIDENTIAL UNIT ON A LOT. IT DOES PROHIBIT SUBSEQUENT CLEARING, GRADING AND CONSTRUCTION IN THE BUFFER AREA. MAINTENANCE OF RESIDENCES, LANDSCAPING AND UTILITIES IS PERMITTED

LEGEND

EXISTING	---
PROPOSED	---
2' CONTOUR	---272---
10' CONTOUR	---220---
SPOT ELEVATION	228.56
CURB	28 x 28
BUILDING RESTRICTION LINE	BRL 7
MAILBOX	MB
100 YR FLOODPLAIN ELEV	[21.3]
WATER METER SETTINGS	SINGLE
	DOUBLE
STOP SIGN	▲

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT
James M. Brooks 3/2/91 DATE
 COUNTY HEALTH OFFICER

APPROVED: HOWARD COUNTY DEPT OF PLANNING AND ZONING.
James M. Brooks 3/25/91 DATE
 DIRECTOR

APPROVED: DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT
Arthur E. Muegge 3/25/91 DATE
 CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT

VP-85-126 REQUEST FOR VARIANCE FROM SECTION 16.113.1.10 OF THE HOWARD COUNTY SUBDIVISION AND LAND DEVELOPMENT REGULATIONS TO EXCEED THE ALLOWABLE ADT AND MAXIMUM LENGTH FOR A CUL-DE-SAC STREET WAS APPROVED JUNE 11, 1986.

VP-87-48 REQUEST FOR WAIVER OF SECTION 16.120 OF THE HOWARD COUNTY SUBDIVISION AND LAND DEVELOPMENT REGULATIONS, REQUIRING SUBMISSION OF A PRELIMINARY PLAN WAS APPROVED ON APRIL 30, 1987.

VP-88-99 REQUEST FOR WAIVER OF SECTION 16.121.1.2.2 (3) OF THE HOWARD COUNTY SUBDIVISION AND LAND DEVELOPMENT REGULATIONS TO ALLOW THE RECORD PLAN TO BE DRAWN AT A SCALE OF 1" = 200' WAS APPROVED ON APRIL 18, 1988.

VP-91-15 REQUEST FOR WAIVER OF SECTION 16.476 TO EXTEND THE 1-YEAR SITE DEVELOPMENT PLAN APPROVAL BY 6 MONTHS APPROVED BY THE PLANNING DIRECTOR NOVEMBER 14, 1990 SUBJECT TO 1) PROVIDE NOISE BERM (ELIMINATE 60' BARRIER LINE FROM UNITS ON SITES 100-172), 2) REDUCE IMPACT TO WETLANDS BUFFER VIA SMALLER UNITS, 3) PROVIDE CONSTRUCTION FENCE ALONG LIMIT OF DISTURBANCE IN OR NEAR WETLANDS BUFFER & WOODED AREAS TO REMAIN.

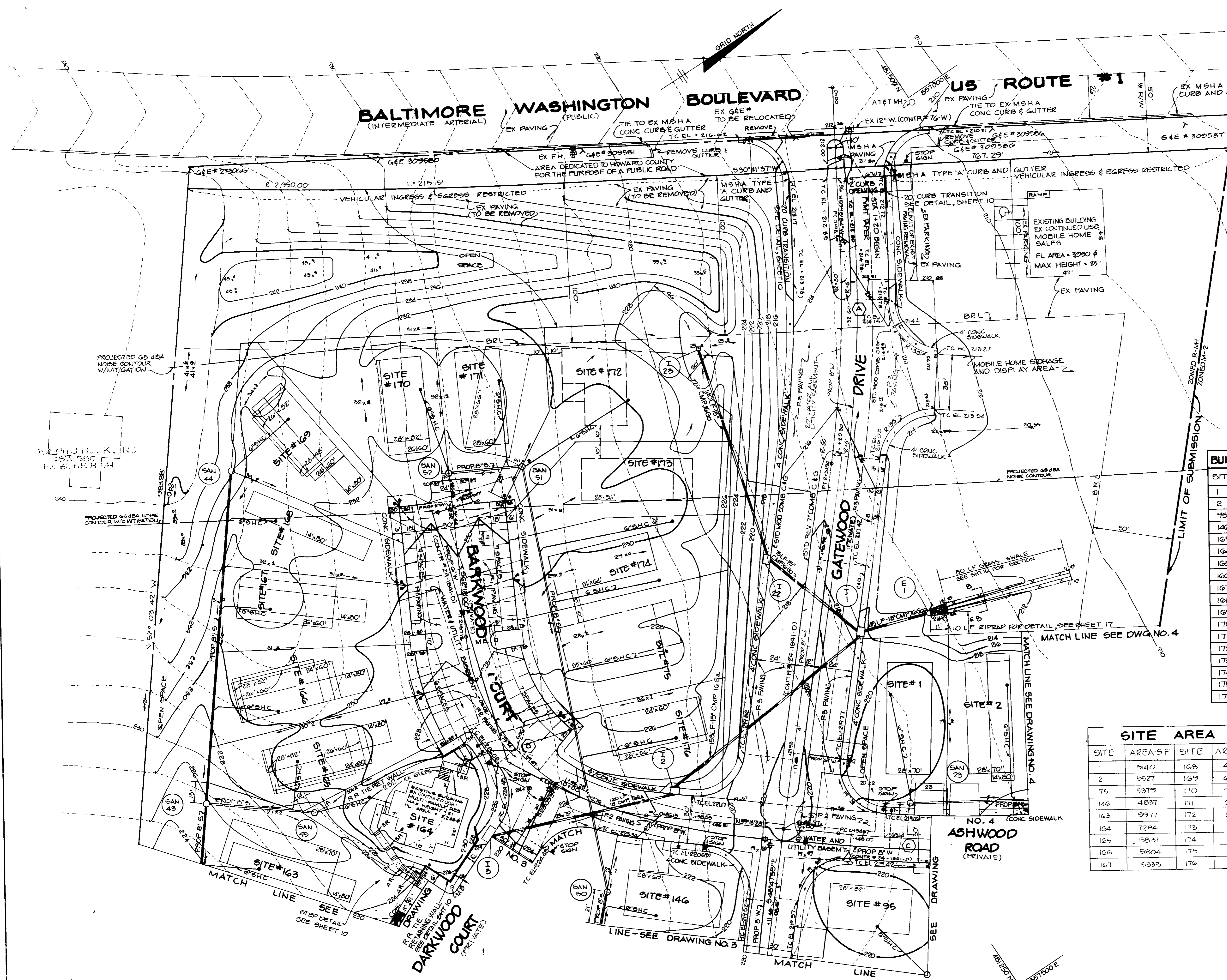
ARMY CORPS OF ENGINEERS WETLANDS PERMIT NUMBER IS 89-3297-3. MARYLAND DEPARTMENT OF THE ENVIRONMENT WATER QUALITY CERTIFICATION NUMBERS ARE: 89-WQ-0967 AND 89-GWQC-001

SUBDIVISION NAME	BRENTWOOD MANOR	SECT./AREA	DOE/PARCEL # A
PLAT # OR DATE	8182	ZONE	1544
TAX/ZONE MAP	ELC. DIST.	CHUBB TR	6064
MAPLE CODE	802	SEWER CODE	5170.000

APPROVED FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
<i>James M. Brooks</i> 3.5.91 DATE DIRECTOR
<i>Arthur E. Muegge</i> 3.19.91 DATE CHIEF, BUREAU OF ENGINEERING
DATE NO REVISION
OWNER/DEVELOPER
DENNIS MOBILE HOME PARK INC 8315 WASHINGTON BOULEVARD JESSUP, MARYLAND 20794
PROJECT
PARCEL A BRENTWOOD MANOR FORMERLY DENNIS MOBILE HOME PARK
AREA TAX MAP 43 PARCEL 232504
6TH ELECTION DISTRICT HOWARD COUNTY MARYLAND
TITLE
TITLE SHEET
RIEMER MUEGGE & ASSOCIATES, INC. A Land Planning, Engineering and Consulting Firm 3105 North Ridge Road Ellicott City, Maryland 21033 301-461-2690 FAX 301-750-3176
DATE 3-7-91
DESIGNED BY JJB, RLH
DRAWN BY JCR
PROJECT NO 27802
DATE JUNE 1989
SCALE AS SHOWN
ARTHUR E. MUEGGE #8707 DRAWING NO 1 OF 28

E CURVE DATA										
NO	PC	PT	RADIUS	ARC	TAN	Dc	CHD	CHD BEARING		
A	0+98.59	2+34.94	750.00'	136.55'	10°25'53"	68.46'	07°38'22"	126.36'	6.54°00'52"	
B	0+86.15	2+57.18	125.00'	171.03'	78°23'33"	101.93'	45°50'12"	157.99'	N 78°30'14"	
C	0+34.67	1+46.34	800.00'	111.67'	07°59'53"	55.93'	07°09'43"	111.58'	S 39°18'31"W	

ELEVATIONS FOR SEWER HOUSE CONNECTIONS					
SITE	MIN SEWER ELEV.	R ELEV @ TRAILER	S ELEV @ MOB. HOME	SITE	MIN SEWER ELEV.
1	218.94	220.00	168	228.48	233.00
2	216.66	218.50	169	230.10	233.70
95	214.22	220.50	170	225.65	232.50
146	215.52	222.50	171	223.73	232.05
163	218.57	225.10	172	223.61	232.05
164	223.50(BLDG)	236.0(FF)	173	222.38	232.20
165	222.78	230.30	174	221.17	232.00
166	223.24	230.28	175	219.59	232.50
167	222.27	232.20	176	218.50	232.50



BUILDING COVERAGE CHART		
SITE	COVERAGE AREA SQ. FT.	PERCENTAGE
1	1760	28
2	1760	28
95	1456	27
146	1680	28
163	1760	27
164	1551	21
165	1560	27
166	1560	27
167	1440	27
168	1120	23
169	1440	24
170	1560	21
171	1848	30
172	1638	24
173	1568	26
174	1536	25
175	1680	21
176	1568	28

SITE AREA			
SITE	AREA S.F.	SITE	AREA S.F.
1	5140	168	4820
2	5527	169	6078
95	5379	170	7276
146	4837	171	6180
163	5977	172	6030
164	7284	173	8048
165	5831	174	6610
166	5804	175	8201
167	5333	176	5418

AS BUILT CERTIFICATE

ARTHUR E. MUEGGE #8707 DATE 3/12/91

APPROVED FOR PUBLIC WATER AND PUBLIC UTILITY LINES
HOWARD COUNTY HEALTH DEPARTMENT

APPROVED, HOWARD COUNTY DEPT. OF PLANNING AND LAND DEVELOPMENT

APPROVED FOR PUBLIC WATER, PUBLIC STORM DRAINAGE SYSTEMS AND PUBLIC UTILITIES
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

REVISIONS:
 0 25 09 2 REV. LOCATION FOR SITES 172, 173, 174
 11/20 1 REVISED SEVERAL MOBILE HOME SITES, REALIGNED WATER MAIN, RELOCATED DRIVEWAY ENTRANCE

OWNER/DEVELOPER: DENNIS MOBILE HOME PARK, INC. 8315 WASHINGTON BOULEVARD JESSUP, MARYLAND 20794

PROJECT: PARCEL A BRENTWOOD MANOR (FORMERLY DENNIS MOBILE HOME PARK)

AREA TAX MAP 45 PARCEL 232,504
6TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND

TITLE: SITE DEVELOPMENT PLAN

RIEMER MUEGGE & ASSOCIATES, INC.
A Land Planning, Engineering and Consulting Firm
3105 North Ridge Road Ellicott City, Maryland 21114
301-461-2690 FAX 301-750-3176

DESIGNED BY J.J.B., R.L.H.
DRAWN BY J.C.R.
PROJECT NO 27802
DATE JUN 1989
SCALE 1" = 30'
DRAWING NO 2 OF 28

ELEVATIONS FOR SEWER HOUSE CONNECTIONS

SITE	MIN SEWER ELEV	≈ ELEV @ TRAILER	SITE	MIN SEWER ELEV	≈ ELEV @ MOB HOME
140	203 10	209 35	152	201 50	208 65
141	205 24	211 20	153	202 50	204 18
142	208 76	213 90	154	202 70	205 16
143	211 71	216 25	155	198 16	205 16
144	213 50	218 35	156	199 12	208 75
145	214 99	220 52	157	200 40	210 80
147	214 35	222 85	158	203 84	213 50
148	213 38	220 60	159	207 34	216 00
149	211 41	217 10	160	210 89	218 00
150	207 66	213 00	161	213 62	220 35
151	201 73	210 50	162	216 15	222 35

CURVE DATA

NO	PC	PT	RADIUS	ARC	Δ	TAN	Dc	CHD	CHD BEARING
D	1+13.67	2+36.01	250.00'	122.32'	28°02'00"	62.41'	22°55'06"	121.10'	S 27°09'34" E

BUILDING COVERAGE CHART

SITE	COVERAGE AREA SQ FT	PERCENTAGE
140	1440	31
141	1248	31
142	1352	31
143	1456	34
144	1440	34
145	1568	33
147	1568	21
148	1568	30
149	1680	31
150	1456	34
151	1680	35
152	1152	27
153	1064	16
154	2016	36
155	1680	27
156	1440	32
157	1584	36
158	1584	36
159	1584	38
160	1820	34
161	1680	32
162	1440	26

SITE AREA

SITE	AREA-S F	SITE	AREA-S F
140	4625	152	4325
141	4091	153	6606
142	4408	154	5861
143	4225	155	6852
144	4208	156	4570
145	4715	157	4372
147	7522	158	4412
148	5275	159	4833
149	5470	160	5319
150	4341	161	5319
151	4799	162	5527

AS BUILT CERTIFICATE

JAYKANT D PAREKH #10148 DATE

APPROVED FOR PUBLIC WATER AND PUBLIC SEWER SYSTEMS
HOWARD COUNTY HEALTH DEPARTMENT

Joseph J. Zylke 3/12/91
COUNTY HEALTH OFFICER

APPROVED HOWARD COUNTY DEPT OF PLANNING & LAND DEVELOPMENT

Joseph J. Zylke 3/25/91
DIRECTOR

Joseph J. Zylke 3/25/91
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT

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

James R. ... 3.5.91
DIRECTOR

Joseph J. Zylke 3.1.91
CHIEF, BUREAU OF ENGINEERING

8/25/90 REVISED MOBILE HOME SITES (CONVEAL)

11/1/92 DATE NO REVISION

OWNER/DEVELOPER

DENNIS MOBILE HOME PARK, INC.
8315 WASHINGTON BOULEVARD
JESSUP, MARYLAND 20794

PROJECT PARCEL A
BRENTWOOD MANOR
(FORMERLY DENNIS MOBILE HOME PARK)

AREA TAX MAP 43 PARCEL 232.504
6TH ELECTION DISTRICT
HOWARD COUNTY MARYLAND

TITLE
SITE DEVELOPMENT PLAN

RIEMER MUEGGE & ASSOCIATES, INC.
A Land Planning, Engineering and Consulting Firm
3105 North Ridge Road Ellicott City, Maryland 21043
301-461-2690 FAX 301-750-3176

12.3.90 DATE

5-26-89 VP-26-122, WP-010
VP-27-45, WP-02-122, 242

DESIGNED BY J.J.B., R.L.H.

DRAWN BY J.C.R.

PROJECT NO 27802

DATE FEBRUARY 16, 1990

SCALE 1" = 30'

DRAWING NO 3 OF 20

ARTHUR E. MUEGGE 40407

SDP-88-105 AS-BUILT 4-11-90



MARYLAND SURVEYING CO., INC.

CURVE DATA										
NO	PC	PT	RADIUS	ARC	Δ	TAN	Dc	CHD	CHD BEARING	
C	0+34.67	1+46.34	800.00'	111.67'	07°59'53"	55.93'	07°09'43"	111.58'	6°55'18"31"W	
E	6+77.06	9+60.46	285.00'	283.40'	56°58'24"	154.66'	20°06'14"	271.86'	57°17'07"E	

BUILDING COVERAGE CHART		
SITE	COVERAGE AREA SQ FT	PERCENTAGE
3	1820	35
85	980	21
86	1456	32
87	980	23
88	980	23
89	980	23
90	1440	32
91	980	23
92	1680	33
93	1960	39
94	1680	34
96	1568	34
97	1440	34
98	1440	34
99	1152	26
100	1248	25
101	1680	27
102	1144	20
103	980	17
104	1440	34
105	1860	36
106	1960	27
107	1820	28
108	1248	26
109	1440	32
110	980	22

SITE AREA			
SITE	AREA SF	SITE	AREA SF
3	5163	98	4285
		99	4465
85	4581	100	4959
86	4497	101	6186
87	4300	102	5710
88	4316	103	5811
89	4172	104	4281
90	4556	105	5135
91	4288	106	7300
92	5160	107	6495
93	5028	108	4800
94	4914	109	4471
96	4609	110	4366
97	4285		

ELEVATIONS FOR SEWER HOUSE CONNECTIONS

SITE	MIN SEWER ELEV	± ELEV @ MOB HOME	SITE	MIN SEWER ELEV	± ELEV @ MOB HOME
3	215.31	218.40	98	208.90	214.60
85	204.25	213.22	99	207.44	212.70
86	205.36	214.30	100	205.08	209.85
87	206.46	215.20	101	210.80	213.50
88	207.23	216.10	102	210.38	213.25
89	208.13	216.30	103	208.25	213.40
90	210.56	216.50	104	206.18	212.70
91	211.78	216.50	105	204.95	212.50
92	210.11	216.55	106	202.85	210.45
93	210.30	218.20	107	196.44	206.75
94	213.23	218.75	108	202.48	206.00
96	212.88	218.70	109	200.63	202.40
97	210.73	216.70	110	198.78	201.00

AS BUILT CERTIFICATE

APPROVED FOR PUBLIC WATER AND PUBLIC SEWER SYSTEM
HOWARD COUNTY HEALTH DEPARTMENT

ARTHUR E. MUEGGE #8707 DATE 3/14/91
COUNTY HEALTH OFFICER

APPROVED HOWARD COUNTY DEPT. OF PLANNING

JAMES J. RAY #1000 DIRECTOR 3/25/91
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT

APPROVED FOR PUBLIC WATER, PUBLIC SEWER, AND DRAINAGE SYSTEMS AND PUBLIC WORKS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

JAMES J. RAY #1000 DIRECTOR 3.5.91
CHIEF, BUREAU OF ENGINEERING

0-7-00	2	ADDED 16'-0" PAD TO SITE # 107
11/01/02	1	REVISED SEVERAL MOBILE HOME SITES
DATE	NO	REVISION

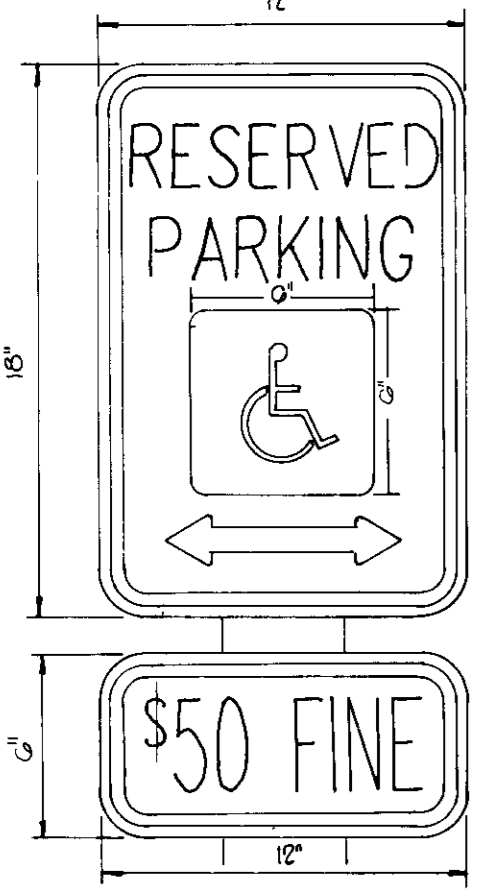
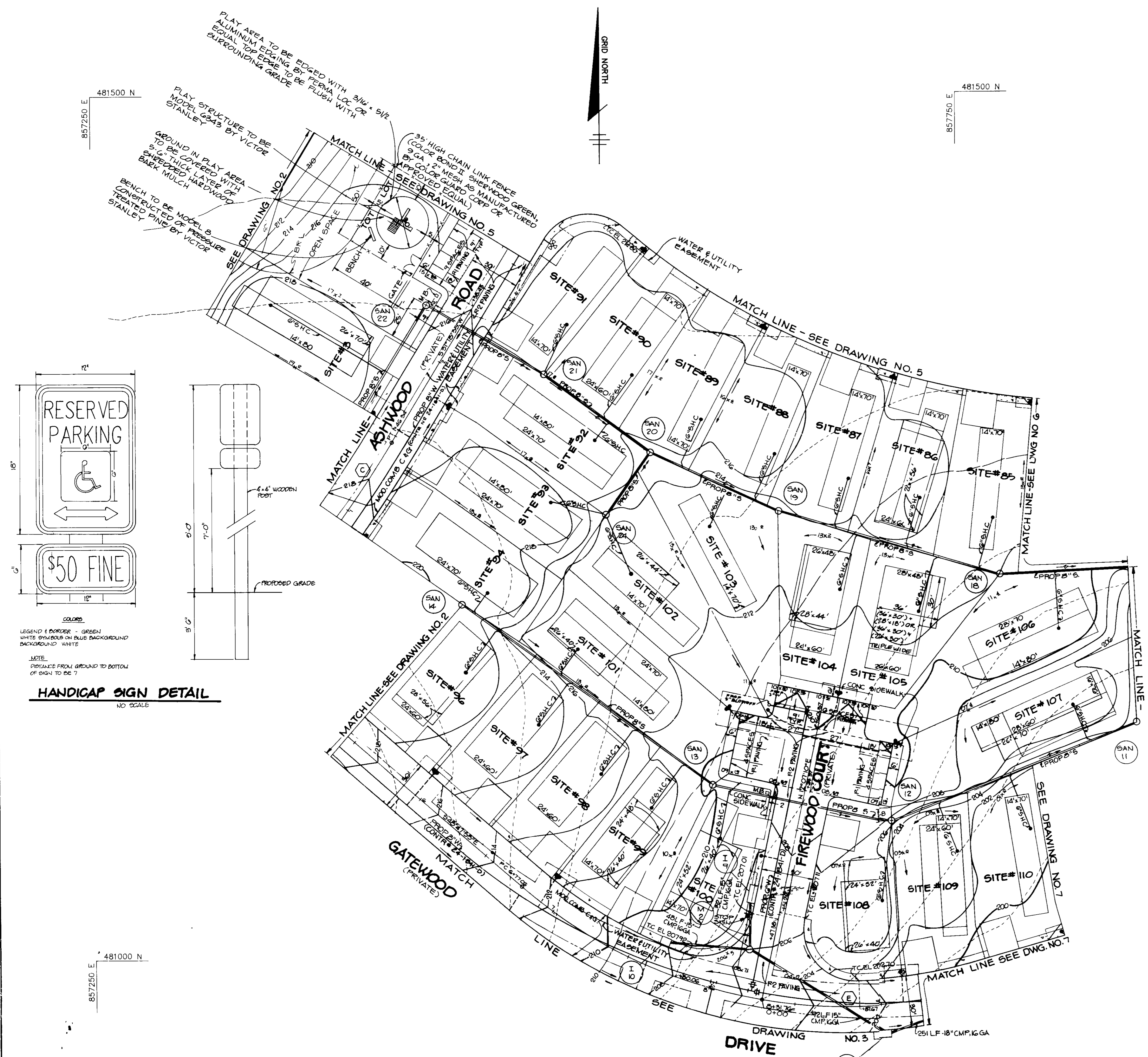
OWNER / DEVELOPER
DENNIS MOBILE HOME PARK, INC
8315 WASHINGTON BOULEVARD
JESSUP, MARYLAND 20794

PROJECT
PARCEL A
BRENTWOOD MANOR
(FORMERLY DENNIS MOBILE HOME PARK)
AREA TAX MAP 43 PARCEL 232504
6TH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

TITLE
SITE DEVELOPMENT PLAN

RIEMER MUEGGE & ASSOCIATES, INC.
A Land Planning, Engineering and Consulting Firm
3105 North Ridge Road Ellicott City, Maryland 21043
301-461-2690 FAX 301-750-3176

DATE 12.3.90
DESIGNED BY J.J.B., R.L.H.
DRAWN BY J.C.R.
PROJECT NO 27602
DATE JUNE 1989
SCALE 1" = 30'
ART. J. E. MUEGGE #8707 DRAWING NO 4 OF 38



LEGEND (BORDER - GREEN)
WHITE SYMBOLS ON BLUE BACKGROUND
BACKGROUND WHITE

NOTE:
DIMENSIONS FROM GROUND TO BOTTOM
OF SIGN TO BE 7'

HANDICAP SIGN DETAIL
NO SCALE

CURVE DATA										
NO	PC	PT	RADIUS	ARC	Δ	TAN	Dc	CHC	CHD BEARING	
F	2+86.93	6+95.46	350.00'	348.53'	57°03'20"	190.25'	16°22'13"	334.51'	N59°40'20"E	
G	0+60.30	3+64.35	400.00'	304.05'	43°33'06"	159.79'	140°19'26"	269.78'	S 72°07'47"E	

SITE AREA			
SITE	AREA-SF	SITE	AREA-SF
4	6483	31	4720
5	9900	32	5286
6	5388	33	4984
7	5521	34	5209
8	5225	35	5120
9	4967	36	5828
10	4722	37	6081
11	4733	38	5622
12	4929		
29	4909		
30	4879		

BUILDING COVERAGE CHART		
SITE	COVERAGE SQ. FT.	PERCENTAGE
4	1680	26
5	1680	28
6	1680	31
7	1440	27
8	1440	28
9	1456	29
10	1440	30
11	1680	35
12	1680	34
29	1680	34
30	1680	34
31	980	21
32	1248	24
33	980	20
34	1680	32
35	1680	33
36	1560	27
37	1680	28
38	1680	30

ELEVATIONS FOR SEWER HOUSE CONNECTIONS					
SITE	MIN SEWER ELEV.	≈ ELEV @ MOB HOME	SITE	MIN SEWER ELEV.	≈ ELEV @ MOB HOME
4	207.74	212.30	30	204.41	207.05
5	207.35	212.20	31	205.70	208.60
6	206.91	210.30	32	208.30	210.20
7	206.36	208.70	33	210.03	213.20
8	205.63	208.20	34	208.76	215.30
9	204.76	206.70	35	206.97	214.50
10	203.44	206.20	36	205.50	214.20
11	201.95	204.30	37	203.80	212.50
12	201.17	203.00	38	202.65	211.20
29	202.60	205.50			

5-17-90 ADDED NOTE ABOUT STRUCTURE TO REMAIN

AS BUILT CERTIFICATE

JAYKANT D. PAREKH #10146 DATE

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

Joseph B. Berman 3/14/91
COUNTY HEALTH OFFICER DATE

APPROVED HOWARD COUNTY DEPT. OF PLANNING AND LAND DEVELOPMENT

James B. Smith 3/21/91
DIRECTOR DATE

Richard J. ... 4/15/91
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT DATE

APPROVED FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS

HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

Thomas ... 2-5-91
DIRECTOR DATE

... 2-11-91
CHIEF, BUREAU OF ENGINEERING DATE

10-5-90 REV. PROPOSED OF EX. BLDG. TO A HEALTH CARE

11-01-91 REVISED SEVERAL MOBILE HOME SITES

DATE	NO.	REVISION

OWNER/DEVELOPER

DENNIS MOBILE HOME PARK, INC.
8315 WASHINGTON BOULEVARD
JESSUP, MARYLAND 20794

PROJECT PARCEL A
BRENTWOOD MANOR
(FORMERLY DENNIS MOBILE HOME PARK)

AREA TAX MAP 45 PARCEL 232.504
5TH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

TITLE

SITE DEVELOPMENT PLAN

RIEMER MUEGGE & ASSOCIATES, INC.
A Land Planning, Engineering and Consulting Firm
3105 North Ridge Road Ellicott City, Maryland 21114
301-461-2690 FAX 301-750-3176

12-5-90 DATE

5-86-69, VP-86-126 WP 91
VP-87-48, WP 88-70, F 88-24
DESIGNED BY J.J.B.R.H.

DRAWN BY J.C.R.

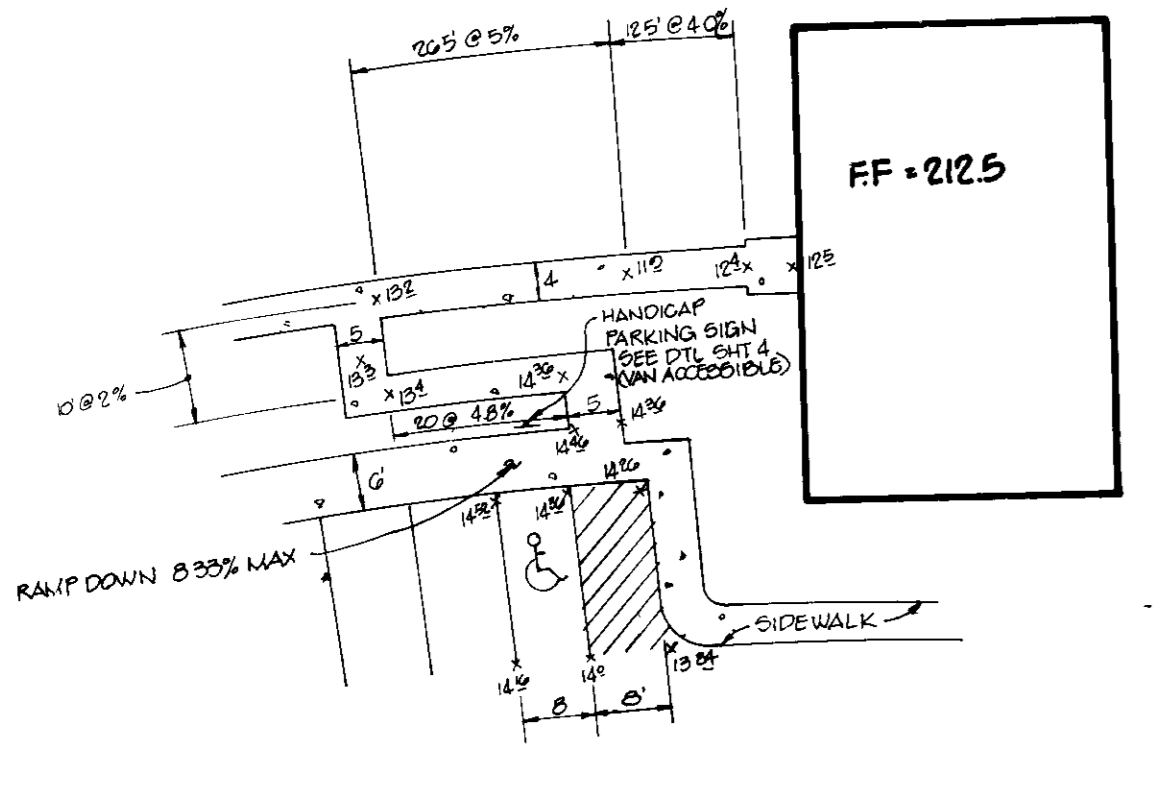
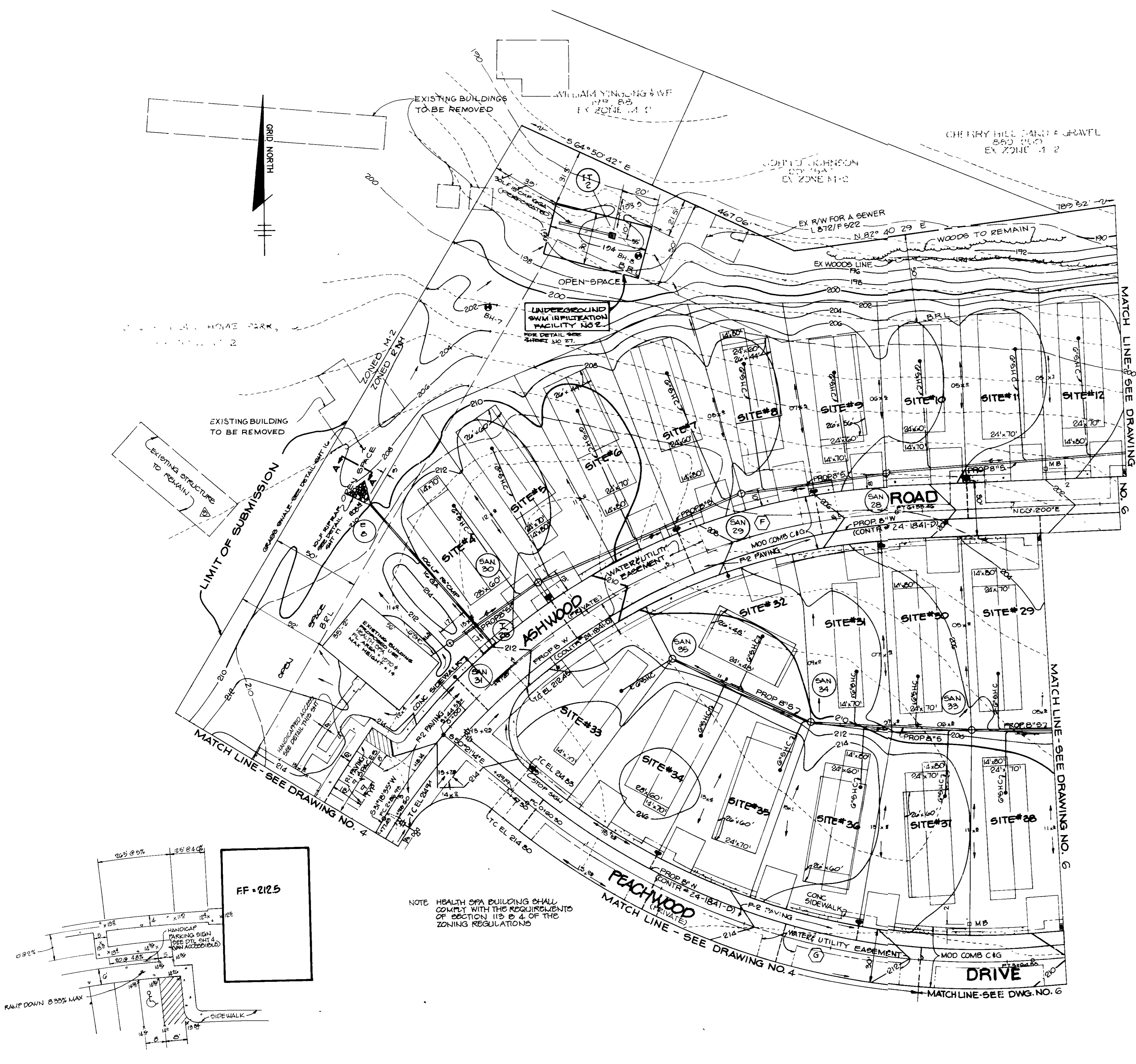
PROJECT NO 27302

DATE JUNE 1989

SCALE 1" = 30'

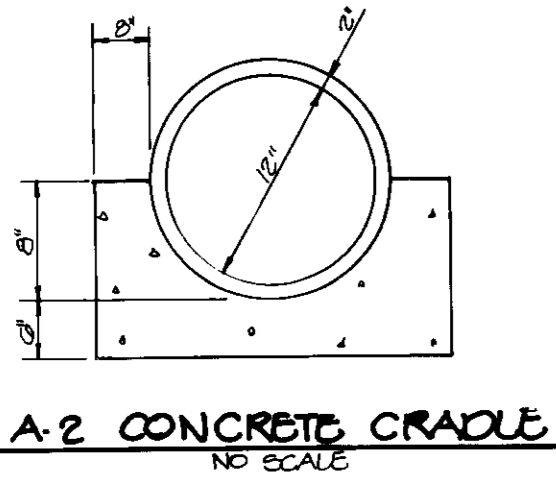
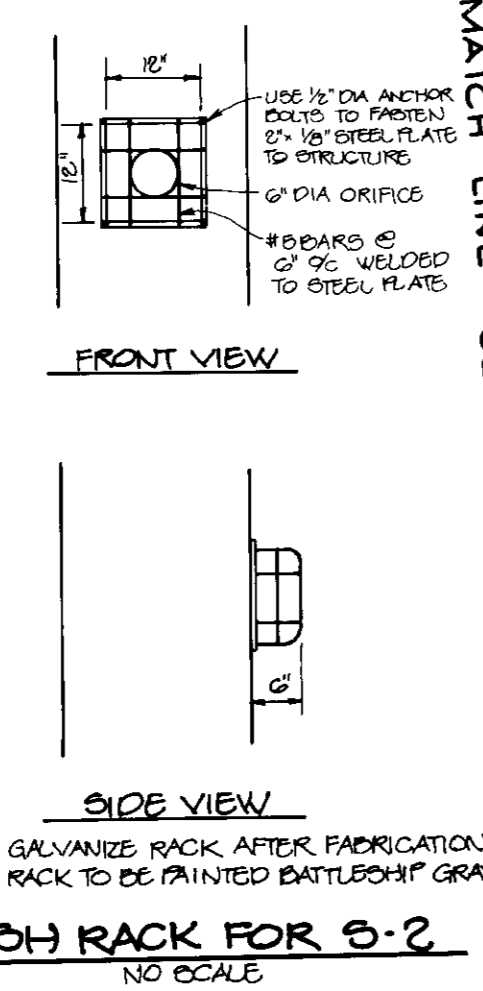
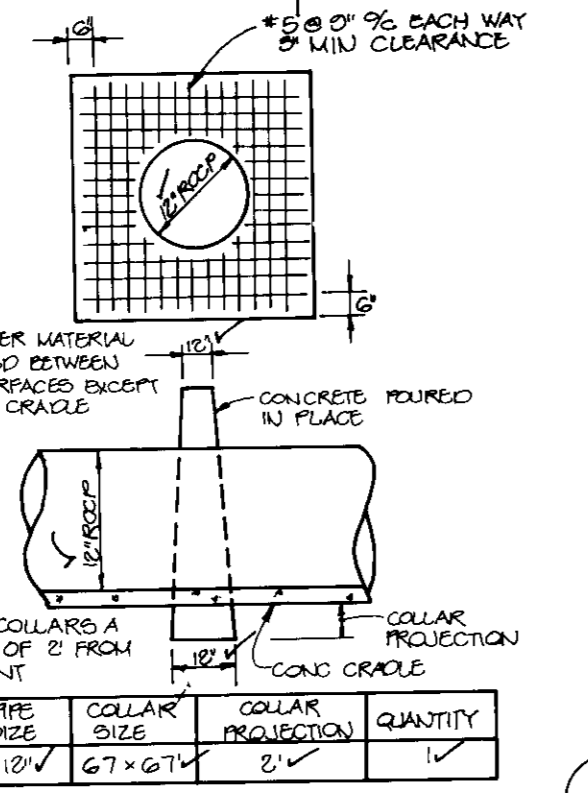
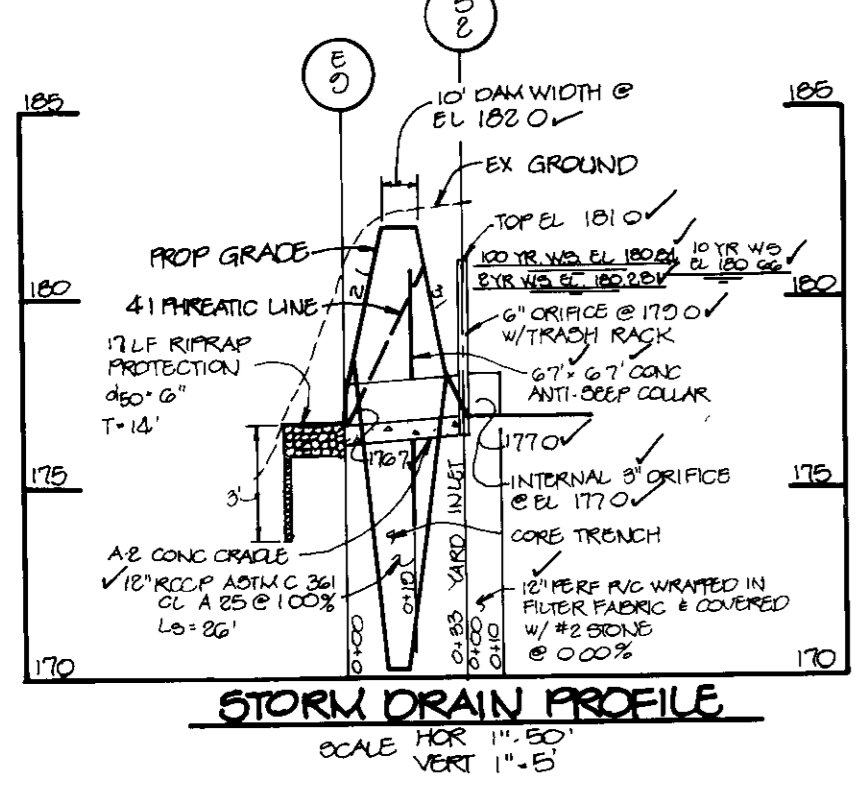
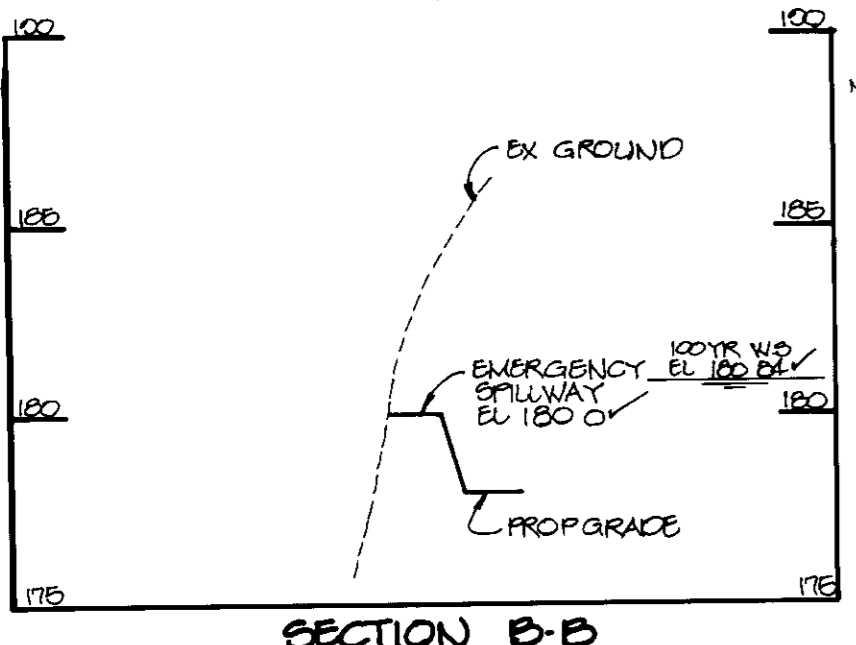
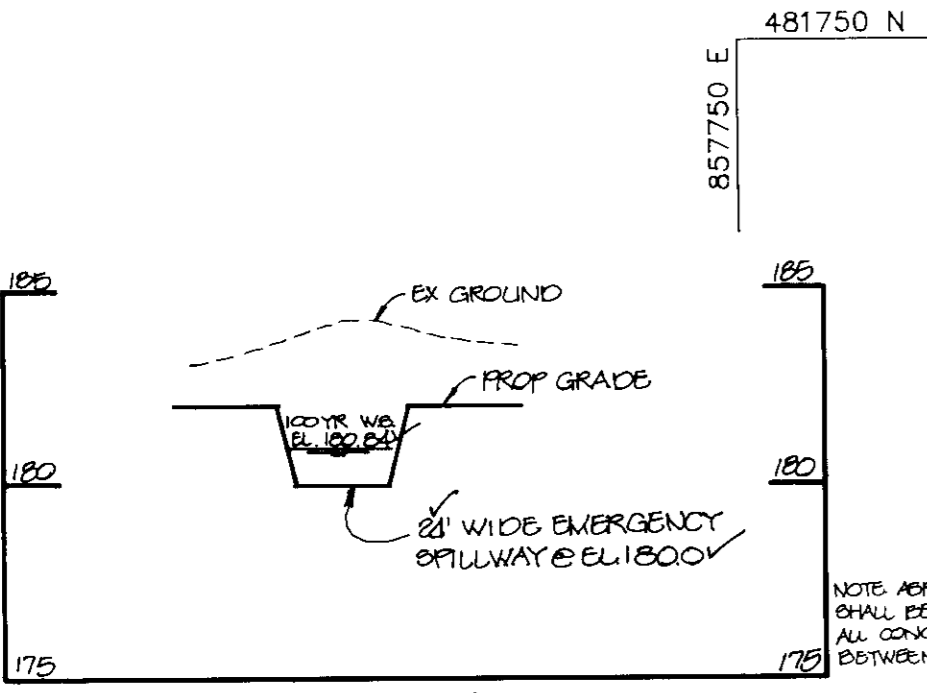
DRAWING NO 5 OF 25

ARTHUR E. MUEGGE #6607



858000 E 481750 N

858000 E 481250 N



BUILDING COVERAGE CHART

SITE	COVERAGE AREA SQ FT	PERCENTAGE
13	1960	38
14	1960	36
15	1716	38
16	1716	37
17	1440	31
18	1456	29
19	1456	25
20	1716	33
21	1568	29
22	1704	32
23	1680	38
24	1680	38
25	1680	38
26	1680	32
27	1440	30
28	1680	34

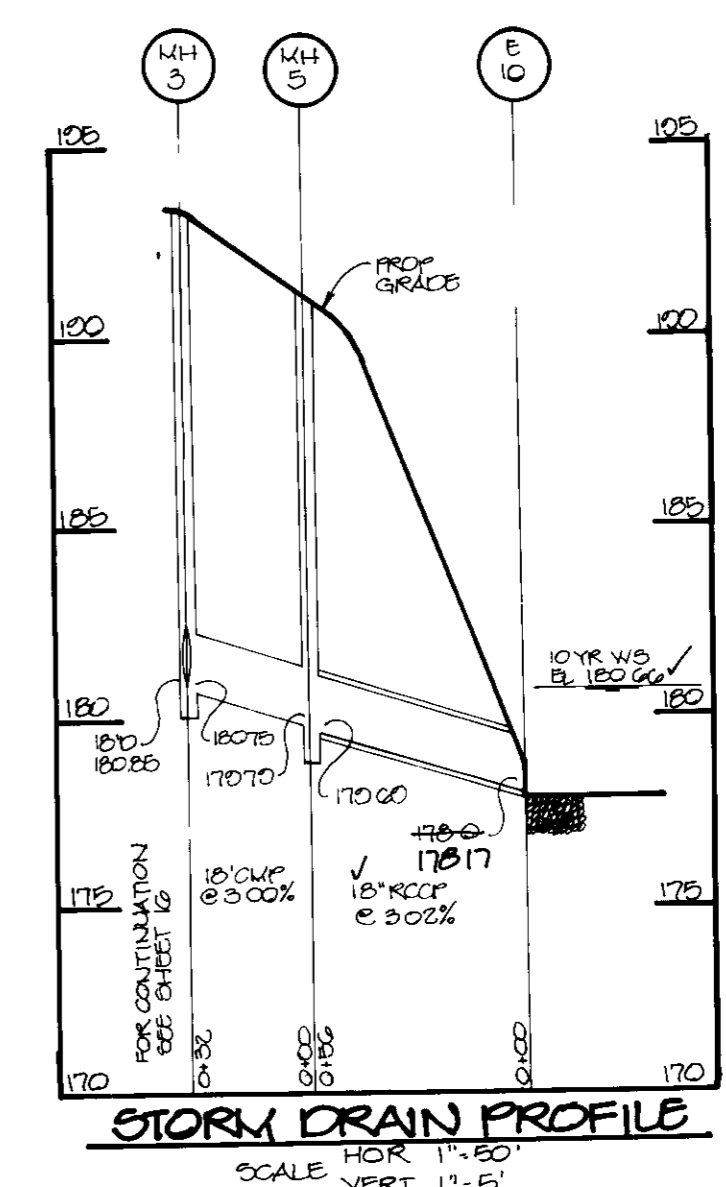
BUILDING COVERAGE CHART

SITE	COVERAGE AREA SQ FT	PERCENTAGE
29	1680	38
40	1344	28
41	1440	30
42	1440	32
43	1440	32
44	1440	33
45	1440	33
76	1440	34
77	1440	34
78	1440	34
79	1560	36
80	980	23
81	1344	31
82	1440	33
83	1440	33
84	980	22
117	1440	34

SITE AREA

SITE	AREA-SF	SITE	AREA-SF
13	5125	40	4790
14	5472	41	4825
15	4519	42	4531
16	4588	43	4453
17	4719	44	4380
18	4991	45	4327
19	5743	76	4275
20	5095	77	4275
21	6796	78	4275
22	5311	79	4275
23	4390	80	4293
24	4370	81	4394
25	4387	82	4401
26	5277	83	4349
27	4777	84	4432
28	4934	117	4275
29	5077		

BY 10' NEED TO REMAIN AND BE BULKHEADED & FILLED WITH STANDARD OHA FLYASH FLOWABLE FILL



ELEVATIONS FOR SEWER HOUSE CONNECTIONS

SITE	MIN SEWER ELEV	≈ ELEV @ MOB HOME	SITE	MIN SEWER ELEV	≈ ELEV @ MOB HOME
13	193.35	200.70	39	201.70	210.44
14	198.00	199.40	40	200.53	206.90
15	193.38	198.30	41	198.25	206.00
16	192.24	197.00	42	196.64	206.00
17	192.70	197.00	43	195.42	204.70
18	192.26	196.30	44	193.87	202.70
19	191.44	195.00	45	192.35	200.50
20	190.41	194.40	76	191.95	201.00
21	190.40	195.00	77	194.26	203.00
22	192.35	196.50	78	196.56	205.00
23	193.56	197.30	79	198.23	206.69
24	195.07	198.40	80	198.55	206.65
25	196.58	199.80	81	199.47	206.60
26	198.28	202.05	82	200.28	209.30
27	200.65	204.00	83	201.39	211.00
28	201.69	204.52	84	202.86	212.45
			117	198.12	203.60

AS BUILT CERTIFICATE

JAYKANT D PAREKH #10146 DATE

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE, AND LAND DEVELOPMENT

HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

APPROVED: *Jaykant Parekh* 3/12/91
Joseph R. Smith 3/25/91
Charles W. Smith 3/25/91

CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT

APPROVED FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE, AND LAND DEVELOPMENT

HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

APPROVED: *James J. Allen* 3/5/91
Richard B. Ryan 3/19/91

CHIEF, BUREAU OF ENGINEERING

12-20-24-2- RESIGNED 100' PIPES, ADDED TRENCH GRADING FROM PIPES EXISTING ON S.W. 1/4

11-01-02-1- REVISED SEVERAL MOBILE HOME SITES

DATE NO REVISION

OWNER/DEVELOPER

DENNIS MOBILE HOME PARK, INC.
 8315 WASHINGTON BOULEVARD
 JESSUP, MARYLAND 20794

PROJECT: PARCEL A
BRENTWOOD MANOR
 (FORMERLY DENNIS MOBILE HOME PARK)

AREA TAX MAP 43 PARCEL 232,504
 6TH ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

TITLE: **SITE DEVELOPMENT PLAN**

RIEMER MUEGGE & ASSOCIATES, INC.
 A Land Planning, Engineering and Consulting Firm
 3105 North Ridge Road, Ellicott City, Maryland 21043
 301-461-2690 FAX 301-750-3176

12-5-90
 DATE
 DESIGNED BY J J B R L H
 DRAWN BY J C R
 PROJECT NO 27802
 DATE FEBRUARY 16, 1988
 SCALE 1" = 30'
 DRAWING NO 2 OF 28

ARTHUR E MUEGGE #107

481250 N

857750 E

481250 N

858500 E

CURVE DATA									
NO	PC	PT	RADIUS	ARC	Δ	TAN	DC	CHD.	CHD BEARING
E	6+77.06	9+60.46	285.00'	283.40'	56°58'24"	154.66'	20°06'14"	271.86'	S 77°17'07" E
H	10+63.93	11+68.68	400.00'	105.35'	15°05'24"	52.98'	14°19'26"	105.04'	N 81°46'23" E
I	12+69.82	13+37.61	125.00'	67.79'	31°04'16"	34.75'	45°50'12"	66.96'	N 73°46'57" E

ELEVATIONS FOR SEWER HOUSE CONNECTIONS

SITE	MIN SEWER ELEV	SE ELEV @ MOB HOME	SITE	MIN SEWER ELEV	SE ELEV @ MOB HOME
111	126.53	125.85	126	183.61	182.30
112	125.10	128.70	127	182.51	182.50
113	124.85	125.70	128	184.95	182.82
114	124.52	125.28	130	185.54	182.00
115	124.88	201.18	131	182.28	182.84
116	200.57	205.60	132	187.12	182.57
118	123.41	200.45	133	185.17	182.00
119	123.41	192.25	134	180.06	192.73
120	120.80	194.10	135	190.23	194.00
121	182.14	193.70	136	191.47	194.11
122	187.48	193.28	137	194.28	196.74
123	185.24	193.20	138	195.28	198.28
124	184.65	192.55	139	195.86	198.78
125	184.63	192.60			

SITE AREA

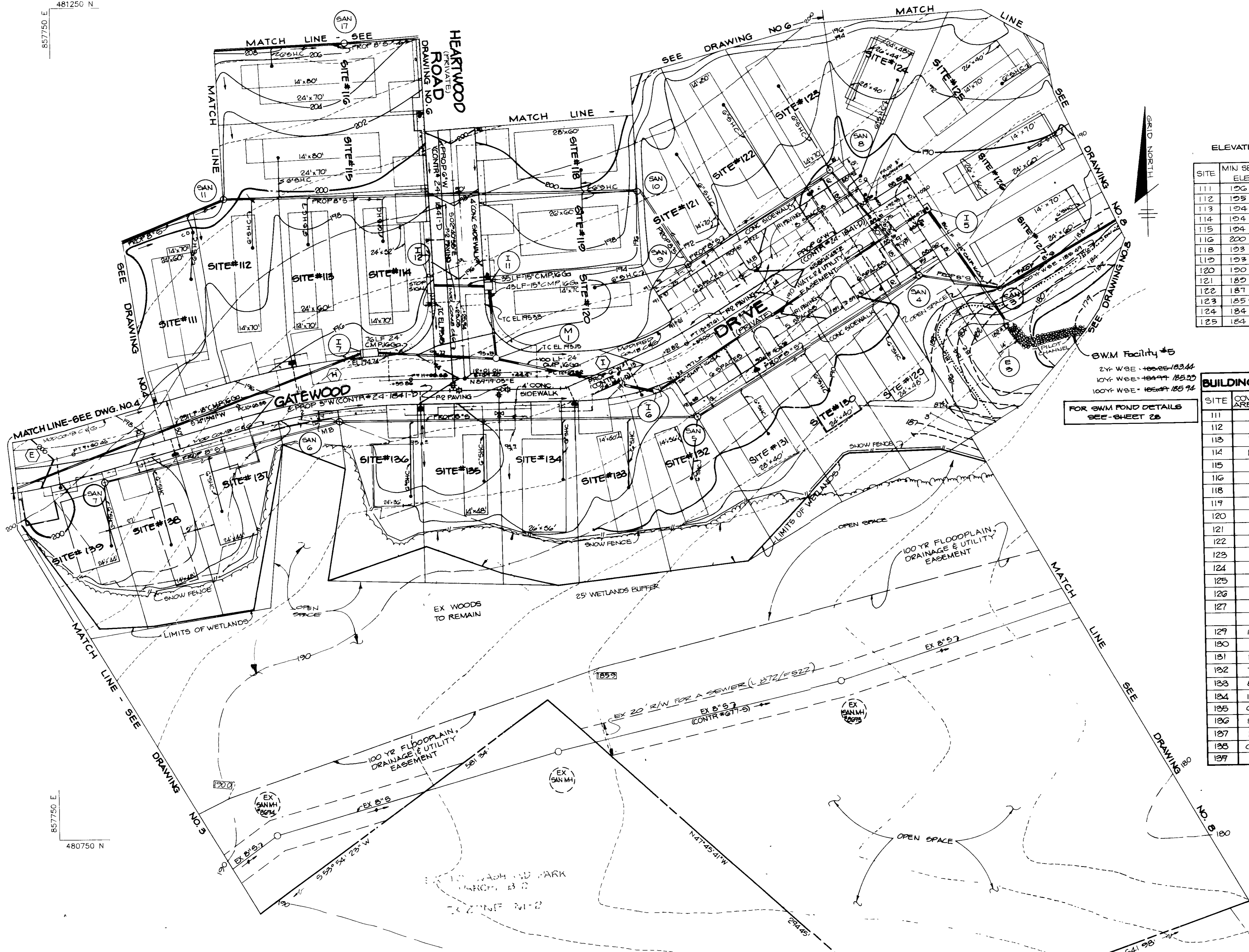
SITE	AREA-SF	SITE	AREA-SF
111	4615	126	4768
112	4893	127	4913
113	4509	128	5614
114	4265	129	4754
115	5556	130	4523
116	5556	131	4925
118	4275	132	5279
119	4276	133	4792
120	4683	134	4994
121	5152	135	5085
122	4935	136	5351
123	4104	137	5137
124	4537	138	4587
125	5465	139	4481

BUILDING COVERAGE CHART

SITE	COVERAGE AREA SQ FT	PERCENTAGE
111	1440	31
112	780	20
113	1440	32
114	1248	29
115	1680	30
116	1680	30
118	1680	37
119	1560	36
120	980	21
121	980	17
122	1120	23
123	980	24
124	1152	25
125	1040	19
126	1456	31
127	1440	29
129	1152	25
130	960	22
131	1120	25
132	784	15
133	840	18
134	1456	20
135	672	14
136	894	16
137	1090	20
138	672	15
139	1090	24

FOR GWM POND DETAILS SEE SHEET 26

GWM Facility #5
24' WBE = 100.65/103.44
104' WBE = 104.97/103.20
100' WBE = 102.89/105.94



APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAL SYSTEMS
HOWARD COUNTY HEALTH DEPARTMENT

[Signature] 3/12/91
COUNTY HEALTH OFFICER

APPROVED HOWARD COUNTY DEPT OF PLANNING AND ZONING

[Signature] 3/25/91
DIRECTOR

[Signature] 3/27/91
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT

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

[Signature] 3.5.91
DIRECTOR

[Signature] 3.1.91
CHIEF, BUREAU OF ENGINEERING

5-20-92 2 REVISED SITE #126
11/01/92 1 REVISED GENERAL MOBILE HOME SITES
DATE NO REVISION

OWNER/DEVELOPER
DENNIS MOBILE HOME PARK INC
8315 WASHINGTON BOULEVARD
JESSUP, MARYLAND 20794

PROJECT
PARCEL A
BRENTWOOD MANOR
(FORMERLY DENNIS MOBILE HOME PARK)

AREA TAX MAP 43 PARCEL 232,504
6TH ELECTION DISTRICT
HOWARD COUNTY MARYLAND

TITLE
SITE DEVELOPMENT PLAN

RIEMER MUEGGE & ASSOCIATES, INC
A Land Planning, Engineering and Consulting Firm
3105 North Ridge Road Ellicott City, Maryland 21043
301-461-2690 FAX 301-750-3176

12-2-90
DATE

5-26-97, VP-06-102
VP-07-48 WF-06-00 FEB 97
DESIGNED BY JJB, RLH
DRAWN BY JCR
PROJECT NO 27802
DATE JUN 1989
SCALE 1" = 50'
DRAWING NO 7 OF 28

AS BUILT CERTIFICATE

JAYKANT D. PAREKH #10148
DATE

BY THE DEVELOPER:
"I CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I WILL PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN 'AS-BUILT' PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT."

[Signature] 11-28-90
DEVELOPER DATE

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL.

[Signature] 2/22/91
U.S. SOIL CONSERVATION SERVICE DATE

THESE PLANS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

[Signature] 2/22/91
APPROVED HOWARD S.C.D. DATE

BY THE ENGINEER:
"I CERTIFY THAT THIS PLAN FOR POND CONSTRUCTION, EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT. I HAVE NOTIFIED THE DEVELOPER THAT HE MUST PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN 'AS-BUILT' PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION."

[Signature] 12-3-90
ENGINEER DATE



BUILDING COVERAGE CHART		
SITE	COVERAGE SQ. FT.	PERCENTAGE
G3	1980	35
G4	980	21
G5	1080	31
G6	1560	27
G7	980	17
G8	1548	33
G9	1512	37
70	980	22
71	1248	31
73	1456	33
74	1440	34
75	1440	34

SITE AREA			
SITE	AREA-S F	SITE	AREA-S F
G3	4746	69	4051
G4	4766	70	4505
G5	5348	71	4012
G6	5747	73	4447
G7	5922	74	4275
G8	4660	75	4275

ELEVATIONS FOR SEWER HOUSE CONNECTIONS					
SITE	MIN SEWER ELEV	SE ELEV @ MOB HOME	SITE	MIN SEWER ELEV	SE ELEV @ MOB HOME
G3	183.61	100.65	G9	183.62	100.65
G4	183.37	100.20	70	185.12	101.70
G5	183.41	188.05	71	183.81	101.30
G6	176.42	185.00	73	186.25	105.45
G7	178.73	188.20	74	187.08	107.55
G8	180.77	188.20	75	190.25	109.40

GWM Facility
 2yr WSE - 185.44
 10yr WSE - 185.38
 100yr WSE - 185.94
 FOR GWM POND DETAILS SEE SHEET 28

BY THE DEVELOPER:
 "I CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I WILL PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN 'AS-BUILT' PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT."
 [Signature] 11-28-90
 DEVELOPER DATE

BY THE ENGINEER:
 "I CERTIFY THAT THIS PLAN FOR POND CONSTRUCTION, EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT. I HAVE NOTIFIED THE DEVELOPER THAT HE MUST PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN 'AS-BUILT' PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION."
 [Signature] 12-3-90
 ENGINEER DATE

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL.
 [Signature] 2/22/91
 HOWARD SOIL CONSERVATION SERVICE DATE

THESE PLANS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.
 [Signature] 2/22/91
 APPROVED HOWARD S.C.D. DATE

AS BUILT CERTIFICATE

JAYKANT D PAREKH #10148 DATE

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT
 [Signature] 3/12/91
 COUNTY HEALTH OFFICER DATE

APPROVED HOWARD COUNTY DEPT OF PLANNING AND ZONING
 [Signature] 3/25/91
 DIRECTOR DATE

[Signature] 10/25/91
 CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT DATE

APPROVED FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 [Signature] 3-5-91
 DIRECTOR DATE

[Signature] 3-1-91
 CHIEF, BUREAU OF ENGINEERING DATE

8-7-90 2 REV. POND SITE #10
 11-01-91 1 REVISED SEVERAL MOBILE HOME SITES
 DATE NO REVISION

OWNER/DEVELOPER
 DENNIS MOBILE HOME PARK INC
 8915 WASHINGTON BOULEVARD
 JESSUP, MARYLAND 20794

PROJECT PARCEL A
BRENTWOOD MANOR
 (FORMERLY DENNIS MOBILE HOME PARK)

AREA TAX MAP 43 PARCEL 292,504
 6TH ELECTION DISTRICT
 HOWARD COUNTY MARYLAND

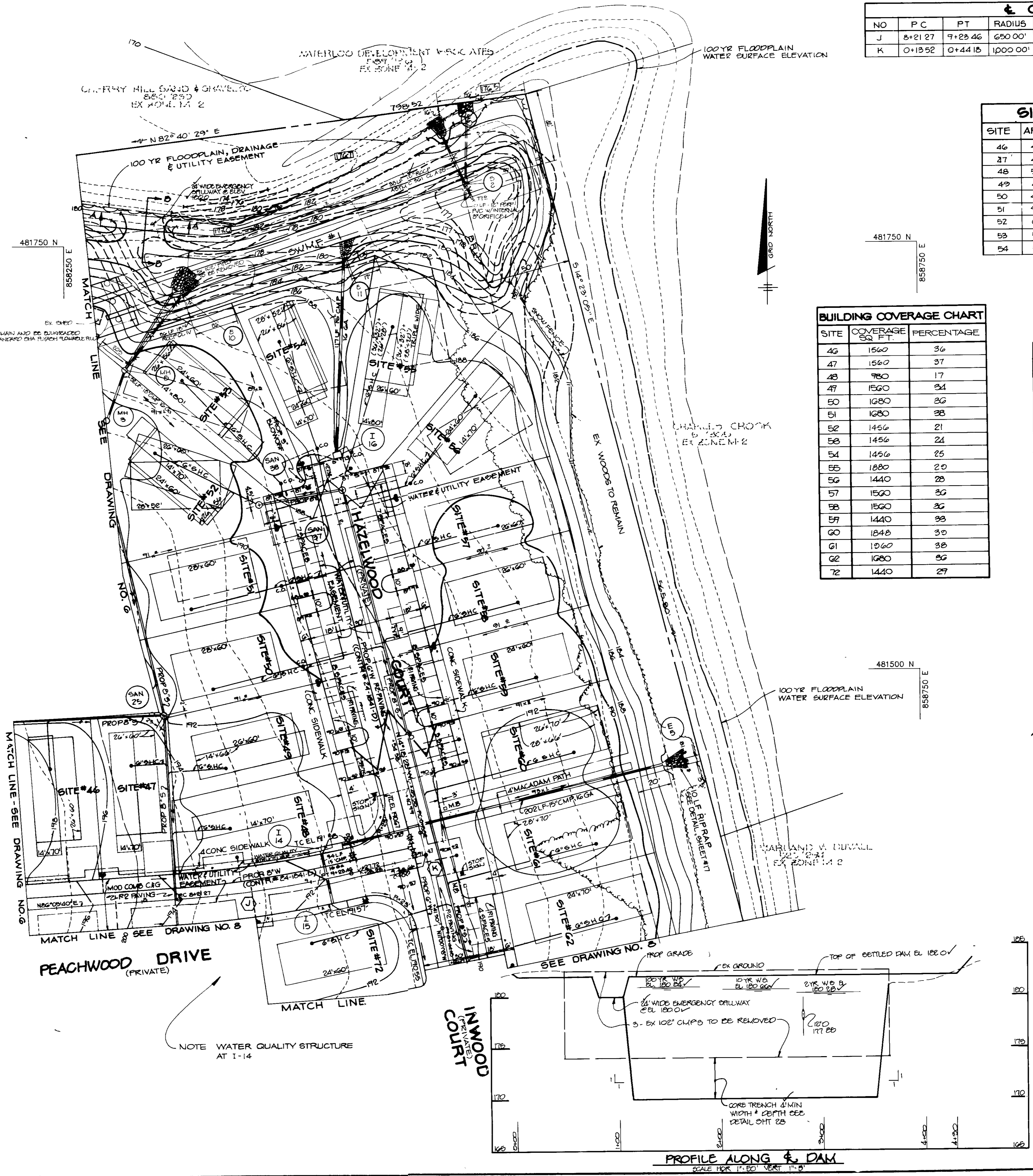
TITLE
SITE DEVELOPMENT PLAN

RIEMER MUEGGE & ASSOCIATES, INC.
 A Land Planning, Engineering and Consulting Firm
 3105 North Ridge Road Elicott City, Maryland 21043
 301-461-2690 FAX 301-750-3176

12-3-90
 DATE

DESIGNED BY J.J.B., R.L.H.
 DRAWN BY J.C.R.
 PROJECT NO 27802
 DATE JUNE 1989
 SCALE 1" = 50'
 DRAWING NO 8 OF 28

SITE #	STREET ADDRESS	SITE #	STREET ADDRESS
1	8303 ASHWOOD ROAD	98	8308 PEACHWOOD DRIVE
2	8307	99	8308
3	8311	100	8308
4	8315	101	8308 ASHWOOD ROAD
5	8319	102	8308
6	8323	103	8308
7	8327	104	8308 GATEWOOD DRIVE
8	8331	105	8308
9	8335	106	8308
10	8339	107	8308
11	8343	108	8308
12	8347	109	8308
13	8351	110	8301 FIREWOOD COURT
14	8355	111	8306
15	8359	112	8308
16	8363	113	8308
17	8367	114	8308
18	8371	115	8308
19	8375	116	8308
20	8379	117	8308
21	8383	118	8308
22	8387	119	8308
23	8391	120	8308
24	8395	121	8308
25	8399	122	8308
26	8403	123	8308
27	8407	124	8308
28	8411	125	8308
29	8415	126	8308
30	8419	127	8308
31	8423	128	8308
32	8427	129	8308
33	8431	130	8308
34	8435	131	8308
35	8439	132	8308
36	8443	133	8308
37	8447	134	8308
38	8451	135	8308
39	8455	136	8308
40	8459	137	8308
41	8463	138	8308
42	8467	139	8308
43	8471	140	8308
44	8475	141	8308
45	8479	142	8308
46	8483	143	8308
47	8487	144	8308
48	8491	145	8308
49	8495	146	8308
50	8499	147	8308
51	8503	148	8308
52	8507	149	8308
53	8511	150	8308
54	8515	151	8308
55	8519	152	8308
56	8523	153	8308
57	8527	154	8308
58	8531	155	8308
59	8535	156	8308
60	8539	157	8308
61	8543	158	8308
62	8547	159	8308
63	8551	160	8308
64	8555	161	8308
65	8559	162	8308
66	8563	163	8308
67	8567	164	8308
68	8571	165	8308
69	8575	166	8308
70	8579	167	8308
71	8583	168	8308
72	8587	169	8308
73	8591	170	8308
74	8595	171	8308
75	8599	172	8308
76	8603	173	8308
77	8607	174	8308
78	8611	175	8308
79	8615	176	8308
80	8619	177	8308
81	8623	178	8308
82	8627	179	8308
83	8631	180	8308
84	8635	181	8308
85	8639	182	8308
86	8643	183	8308
87	8647	184	8308
88	8651	185	8308
89	8655	186	8308
90	8659	187	8308
91	8663	188	8308
92	8667	189	8308
93	8671	190	8308
94	8675	191	8308
95	8679	192	8308
96	8683	193	8308
97	8687	194	8308
98	8691	195	8308
99	8695	196	8308
100	8699	197	8308



CURVE DATA									
NO	P.C.	P.T.	RADIUS	ARC	Δ	TAN	Dc	CHD	CHD BEARING
J	8+21.27	9+23.46	650.00'	102.97'	09°00'28"	51.20'	08'48'53"	102.09'	N81°35'20"E
K	0+13.52	0+44.15	1000.00'	57.70'	03°15'21"	28.66'	05'43'46"	57.69'	S12°39'15"E

SITE AREA			
SITE	AREA-S.F.	SITE	AREA-S.F.
46	4291	55	6423
47	4264	56	5179
48	5629	57	4360
49	4651	58	4348
50	4634	59	4341
51	4454	60	4693
52	6022	61	5168
53	5987	62	4639
54	5915	72	5011

BUILDING COVERAGE CHART		
SITE	COVERAGE SQ. FT.	PERCENTAGE
46	1560	36
47	1560	37
48	780	17
49	1560	34
50	1680	36
51	1680	38
52	1456	21
53	1456	24
54	1456	25
55	1880	20
56	1440	28
57	1500	30
58	1500	30
59	1440	30
60	1848	30
61	1060	38
62	1680	36
72	1440	29

AS BUILT CERTIFICATE

JAYKANT D PAREKH #10148 DATE 3/12/91

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

JOYCE BOYDA COUNTY HEALTH OFFICER

APPROVED HOWARD COUNTY DEPT OF PLANNING AND ZONING

JAMES S. HALL DIRECTOR 3/25/91 DATE

APPROVED FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS

HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

TOMAS J. HALL DIRECTOR 3/5/91 DATE

APPROVED FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS

HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

REVISIONS:

- 12/20/88: REVISED 100' CHIPS, ADDED POND GRADING & PROFILE ALONG S. DAM
- 11/02/88: REVISED SEVERAL MOBILE HOME SITES

OWNER/DEVELOPER: DENNIS MOBILE HOME PARK INC, 2315 WASHINGTON BLVD, JESSUP, MARYLAND 20794

PROJECT: PARCEL A BRENTWOOD MANOR (FORMERLY DENNIS MOBILE HOME PARK)

AREA TAX MAP 43 PARCEL 292,504

TITLE: SITE DEVELOPMENT PLAN & STREET ADDRESS CHART

RIEMER MUEGGE & ASSOCIATES, INC. A Land Planning, Engineering and Consulting Firm, 3105 North Ridge Road, Ellicott City, Maryland 21043, 301-461-2690, FAX 301-750-3176

DATE: 12-3-90

DESIGNED BY J.J.S., R.L.H.

DRAWN BY J.C.F.

PROJECT NO 27802

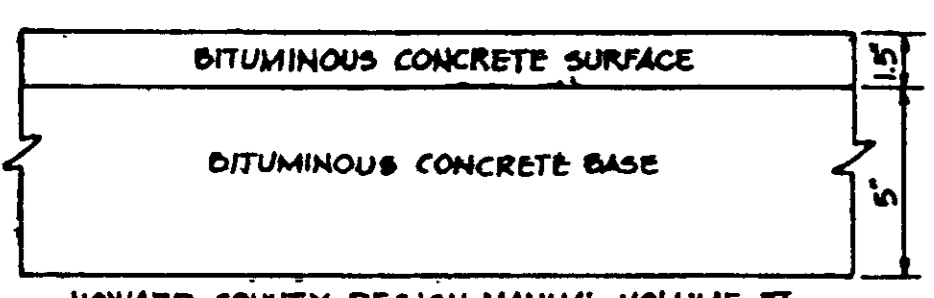
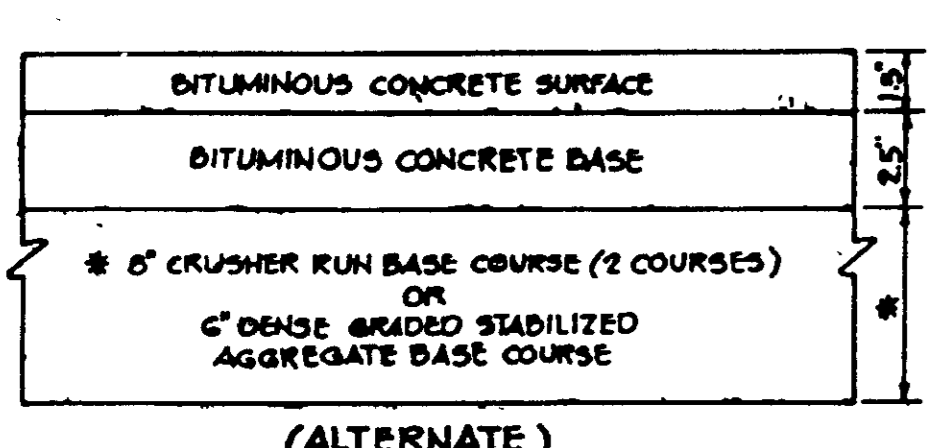
DATE JUNE 1988

SCALE 1" = 50'

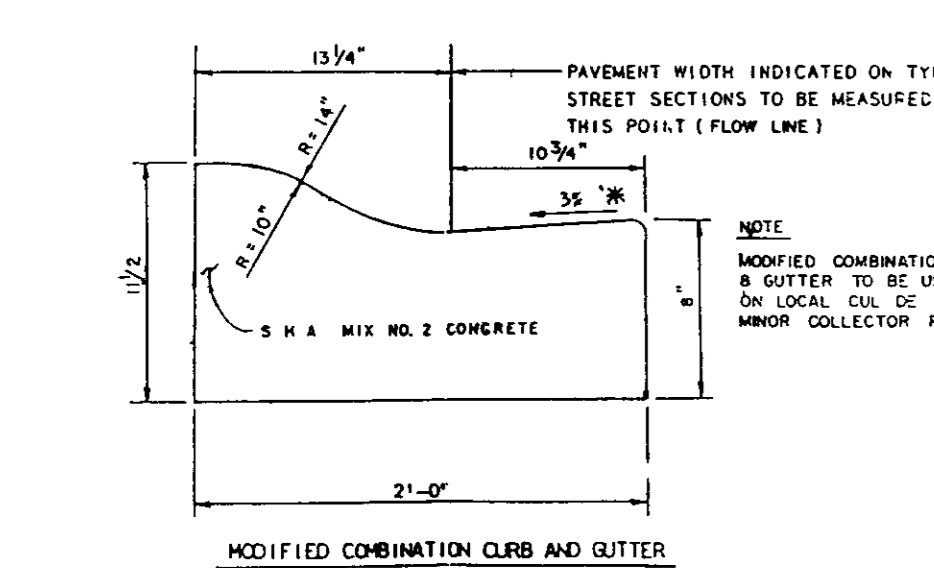
DRAWING NO 9 OF 20

ELEVATIONS FOR SEWER HOUSE CONNECTIONS			
SITE	MIN SEWER ELEV	≈ ELEV @ MOB. HOME	≈ ELEV @ MOB. HOME
46	100.24	103.00	103.00
47	107.22	103.25	103.25
48	107.80	103.55	103.55
49	108.15	103.25	103.25
50	104.25	101.45	101.45
51	105.21	101.30	101.30
52	105.46	102.10	102.05
53	105.81	100.00	101.30
54	105.57	100.00	102.25
SITE	MIN SEWER ELEV	≈ ELEV @ MOB. HOME	≈ ELEV @ MOB. HOME
55	105.22	103.20	103.20
56	105.41	103.50	103.50
57	104.80	103.10	103.10
58	104.55	101.00	101.00
59	104.32	101.65	101.65
60	104.28	102.10	102.10
61	103.20	102.05	102.05
62	103.75	101.30	101.30
72	103.00	102.25	102.25

MUEGGE & ASSOCIATES, INC.

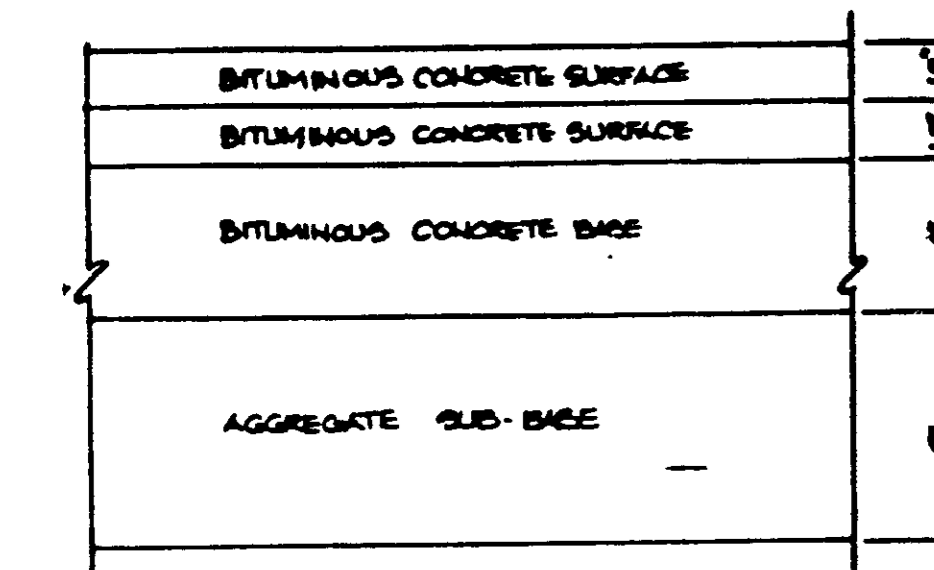


HOWARD COUNTY DESIGN MANUAL VOLUME III - STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION (DRAWING R-201)
(6" PAVING, P-2)
NO SCALE

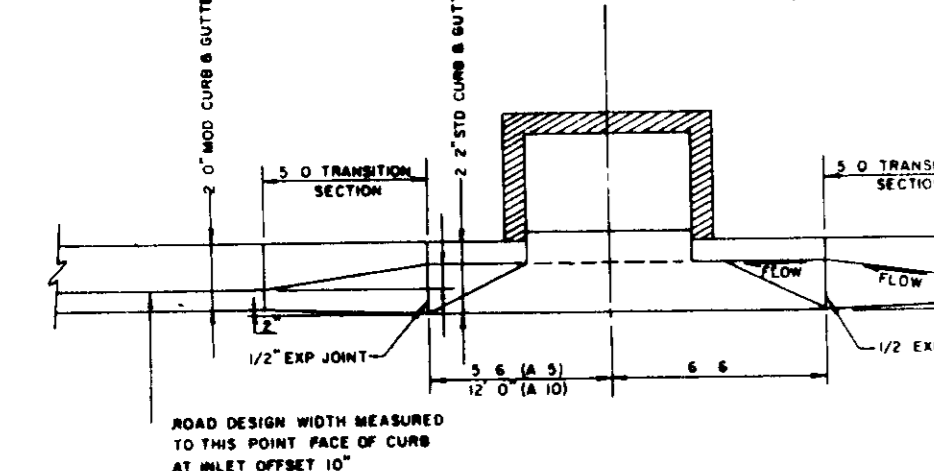


MODIFIED COMBINATION CURB AND GUTTER
NO SCALE

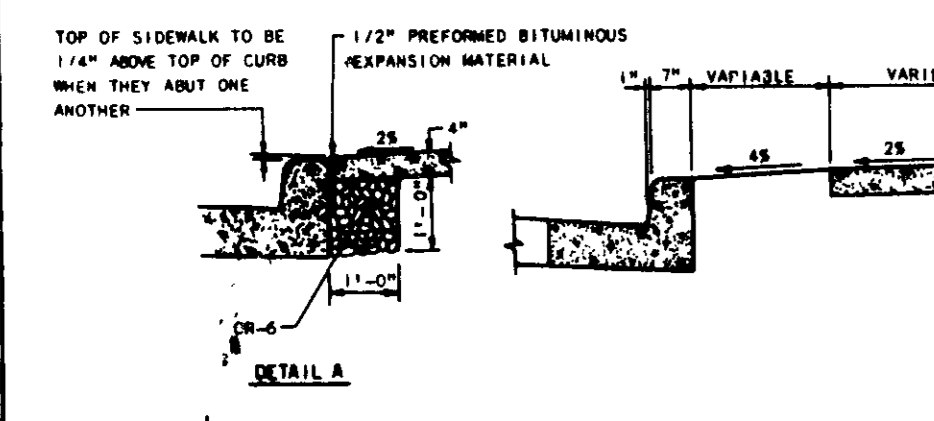
MODIFIED COMBINATION CURB AND GUTTER
NO SCALE



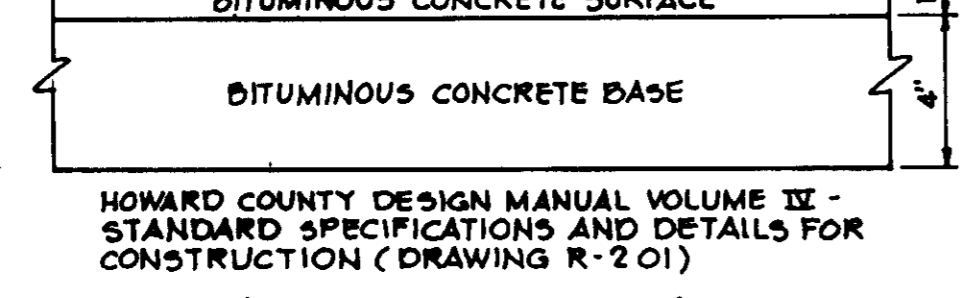
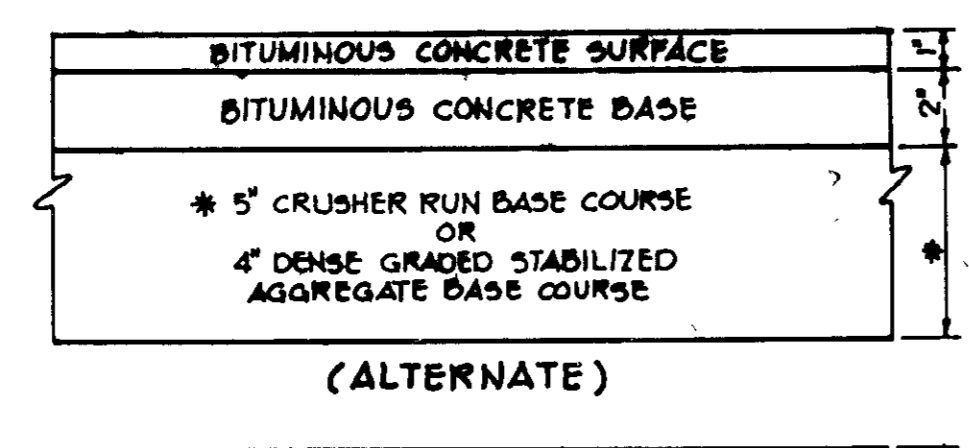
M.S.H.A. PAVING SECTION
NO SCALE



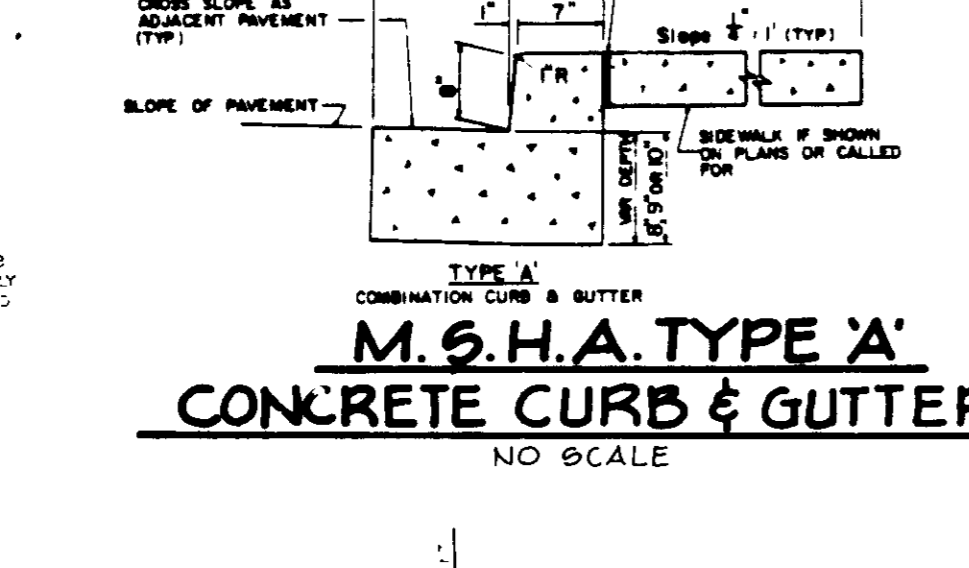
TRANSITION CURB SECTION AT 'A' TYPE INLETS
NO SCALE



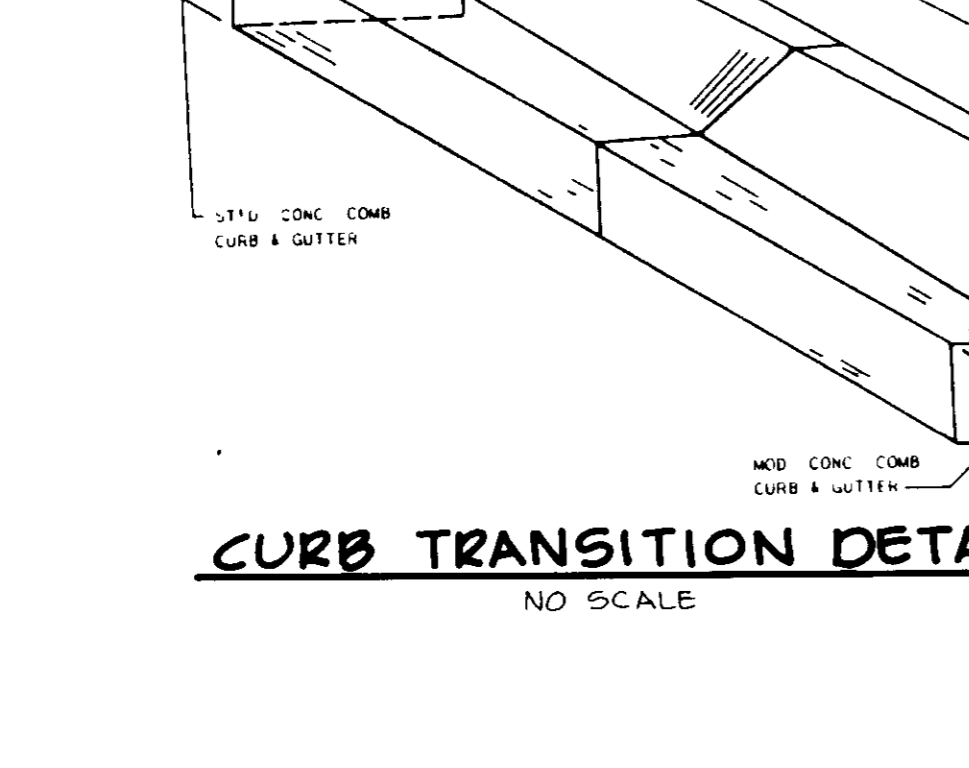
CONCRETE SIDEWALK
NO SCALE



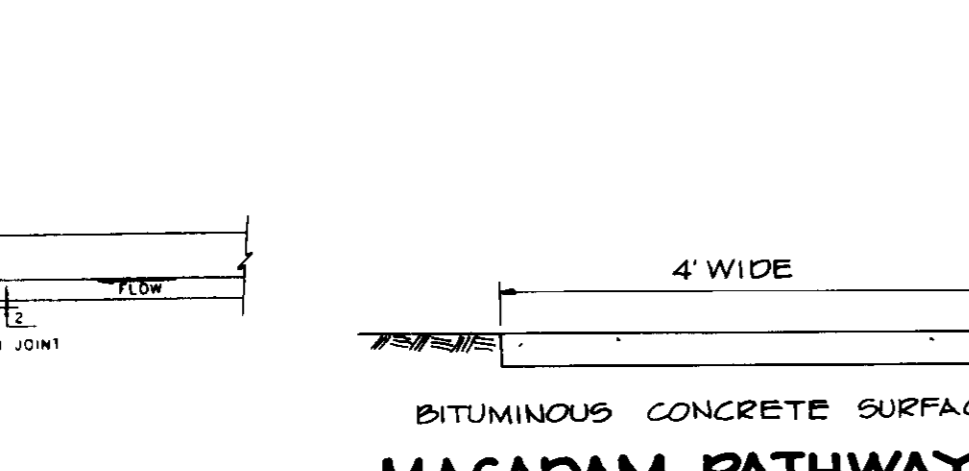
HOWARD COUNTY DESIGN MANUAL VOLUME III - STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION (DRAWING R-201)
(5" PAVING, P-1)
NO SCALE



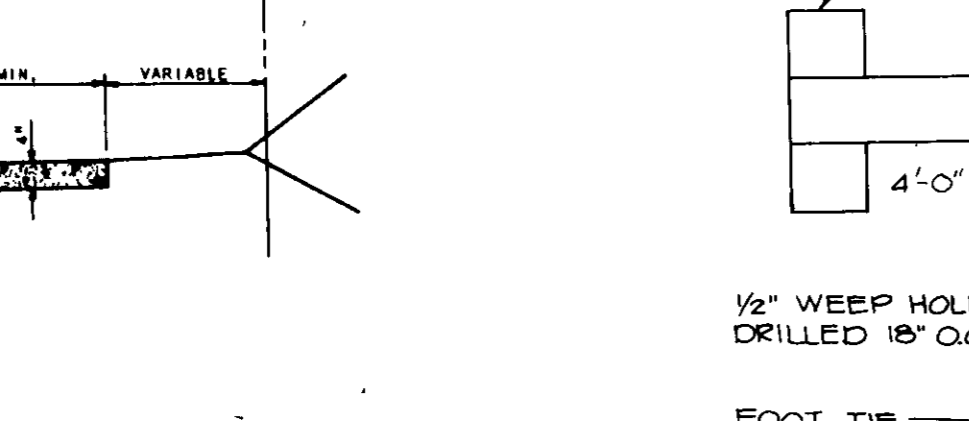
M.S.H.A. TYPE 'A' CONCRETE CURB & GUTTER
NO SCALE



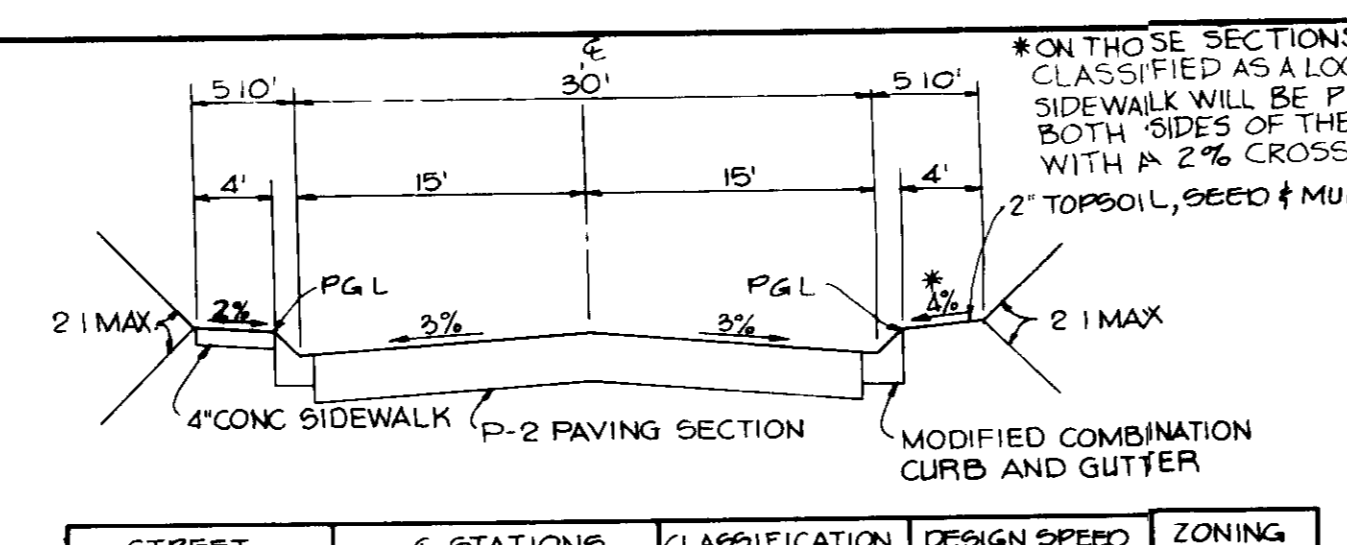
CURB TRANSITION DETAIL
NO SCALE



MACADAM PATHWAY DETAIL
NO SCALE

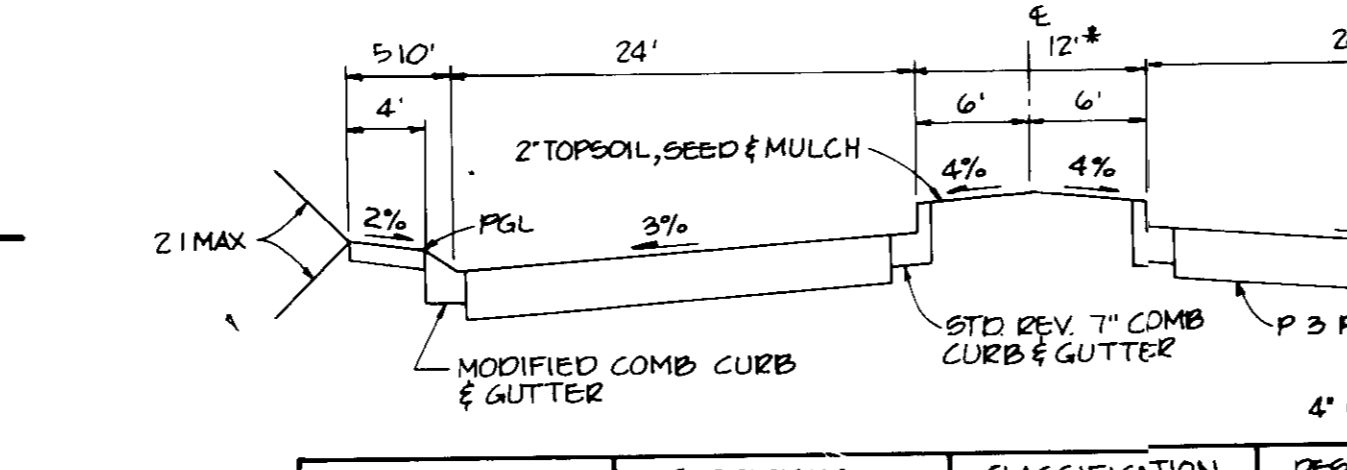


TIMBER RETAINING WALL
NO SCALE



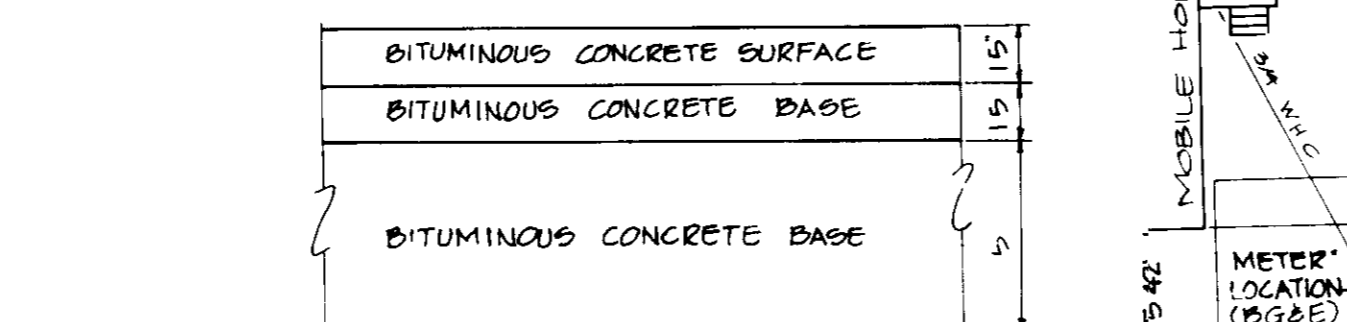
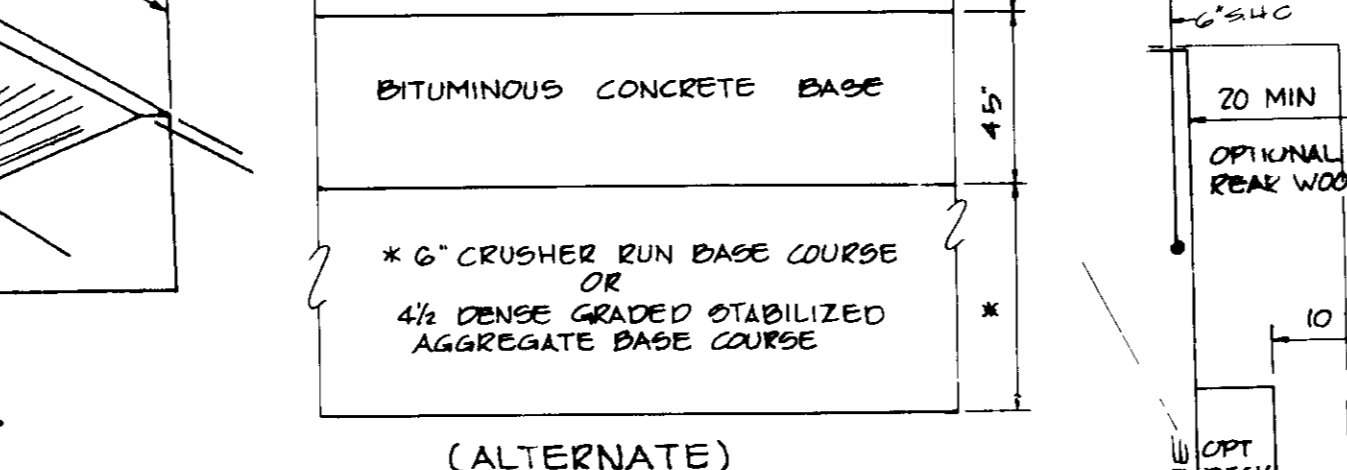
STREET	E STATIONS	CLASSIFICATION	DESIGN SPEED	ZONING
GATEWOOD DRIVE	4164.97 TO 12101.01 12101.01 TO 13121.82	LOCAL CUL-DE-SAC	30 MPH 25 MPH	R-MH R-MH
BARKWOOD COURT	0+00 TO 1+59.49	CUL-DE-SAC	25 MPH	R-MH
DARKWOOD COURT	0+00 TO 0+94.65 1+72.15 TO 2+63.24	CUL-DE-SAC	25 MPH	R-MH
ASHWOOD ROAD	0+00 TO 8+20.87 8+20.87 TO 8+76.87	LOCAL CUL-DE-SAC	30 MPH 25 MPH	R-MH R-MH
PEACHWOOD DRIVE	0+00 TO 3+53.30 LT AND 3+54.08 RT	LOCAL	30 MPH	R-MH
FIREWOOD COURT	0+00 TO 1+24.37	CUL-DE-SAC	25 MPH	R-MH
HEARTWOOD RD	0+00 TO 5+69.40	LOCAL	30 MPH	R-MH
HAZELWOOD CT	0+00 TO 0+45.38	CUL-DE-SAC	25 MPH	R-MH
INWOOD COURT	0+00 TO 0+30.40	CUL-DE-SAC	25 MPH	R-MH

TYPICAL ROAD SECTION
NO SCALE



STREET	E STATIONS	CLASSIFICATION	DESIGN SPEED	ZONING
GATEWOOD DRIVE	1+20 TO 4+64.97	MINOR COLLECTOR	35 MPH	R-MH

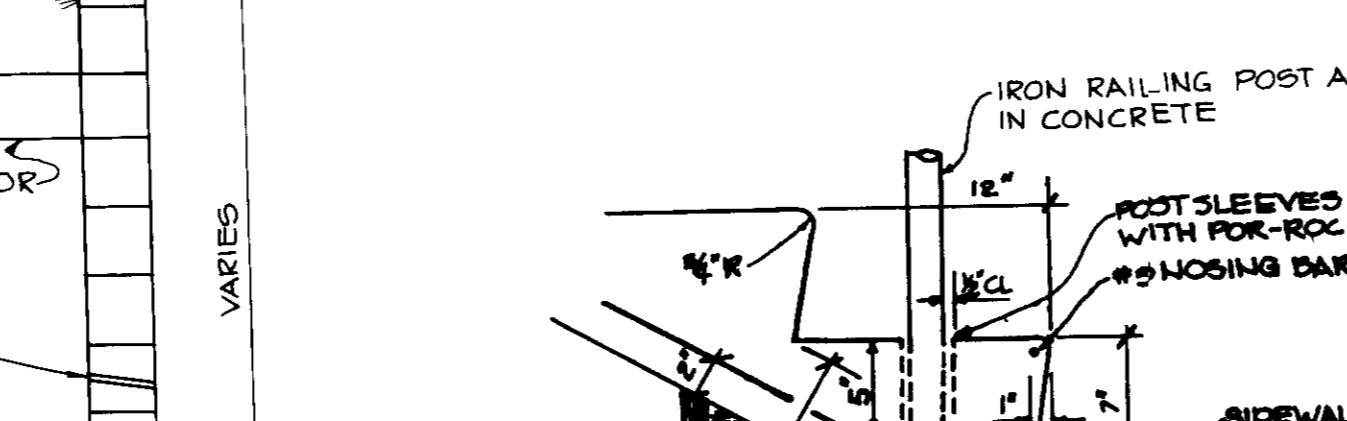
TYPICAL ROAD SECTION
NO SCALE



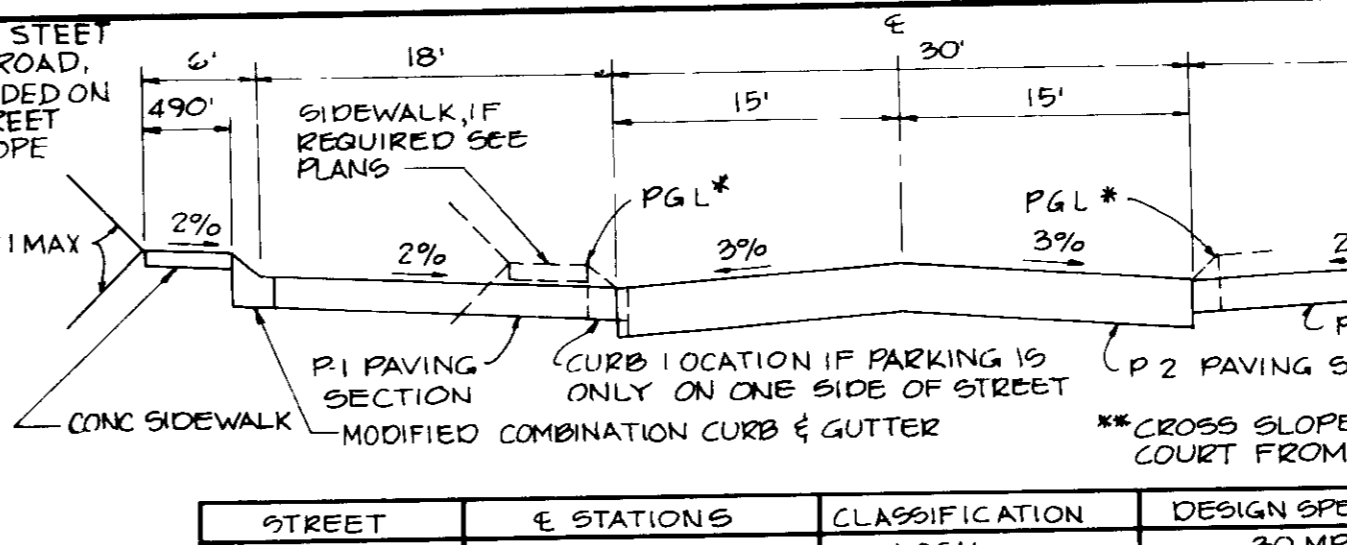
HOWARD COUNTY DESIGN MANUAL VOLUME III STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION (DRAWING R-201)
(8" PAVING, P-3)
NO SCALE



TYPICAL SITE LAYOUT ALONG STREET
SCALE 1"=20'

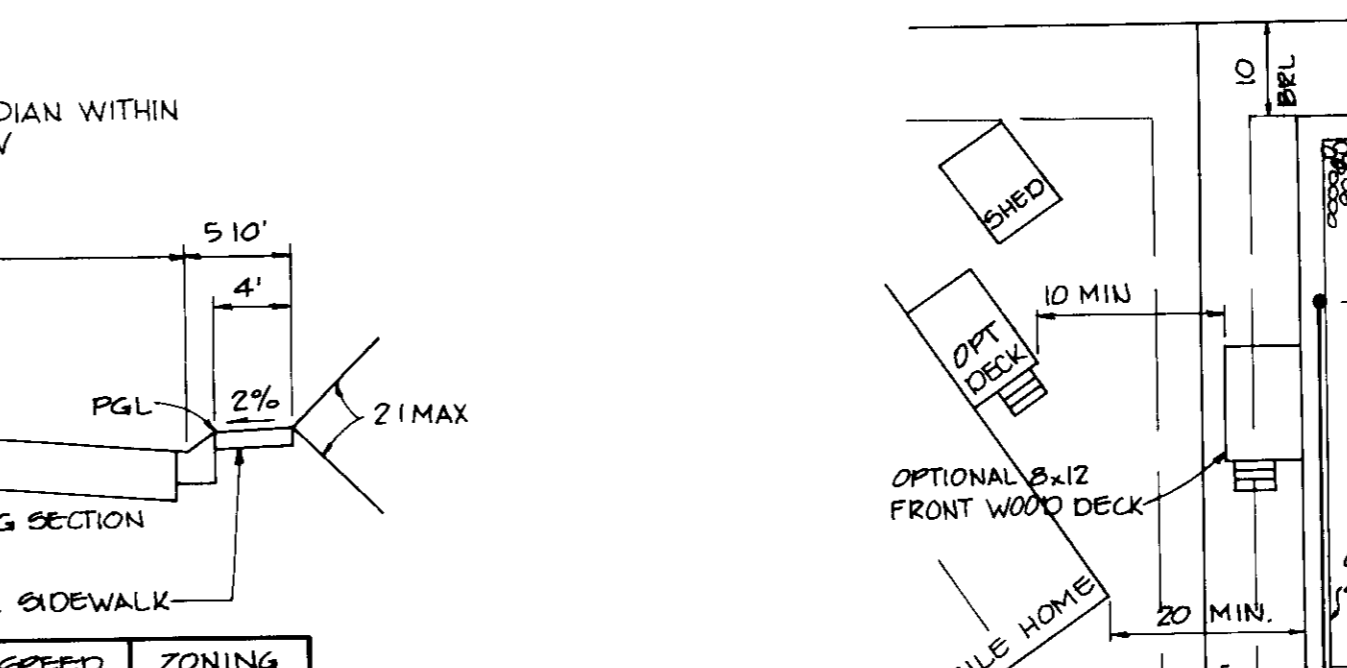


TYPICAL CONCRETE STEP W/ RAIL DETAIL
NO SCALE

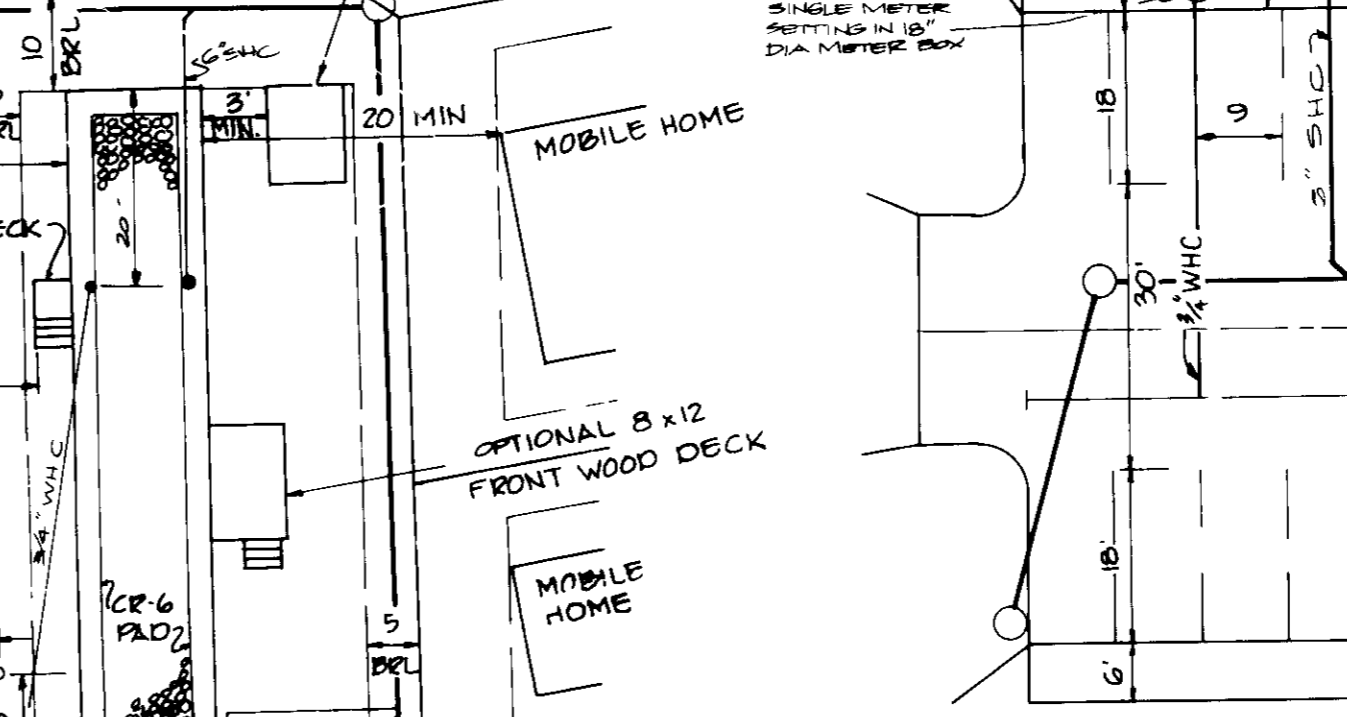


STREET	E STATIONS	CLASSIFICATION	DESIGN SPEED	ZONING
GATEWOOD DR	13+21.82 TO 14+75	LOCAL	30 MPH	R-MH
BARKWOOD CT	1+59.49 TO 3+53.44 RT AND 3+42.32 LT	CUL-DE-SAC	25 MPH	R-MH
DARKWOOD COURT	0+94.65 TO 1+72.15 2+63.24 TO 4+17.24 RT AND 4+18.01 LT	CUL-DE-SAC	25 MPH	R-MH
ASHWOOD RD	8+76.87 TO 10+30.87	CUL-DE-SAC	25 MPH	R-MH
FIREWOOD CT	1+24.37 TO 1+60.37	CUL-DE-SAC	25 MPH	R-MH
HAZELWOOD CT	0+45.38 TO 2+27.38	CUL-DE-SAC	25 MPH	R-MH
INWOOD COURT	0+30.40 TO 1+75.19	CUL-DE-SAC	25 MPH	R-MH

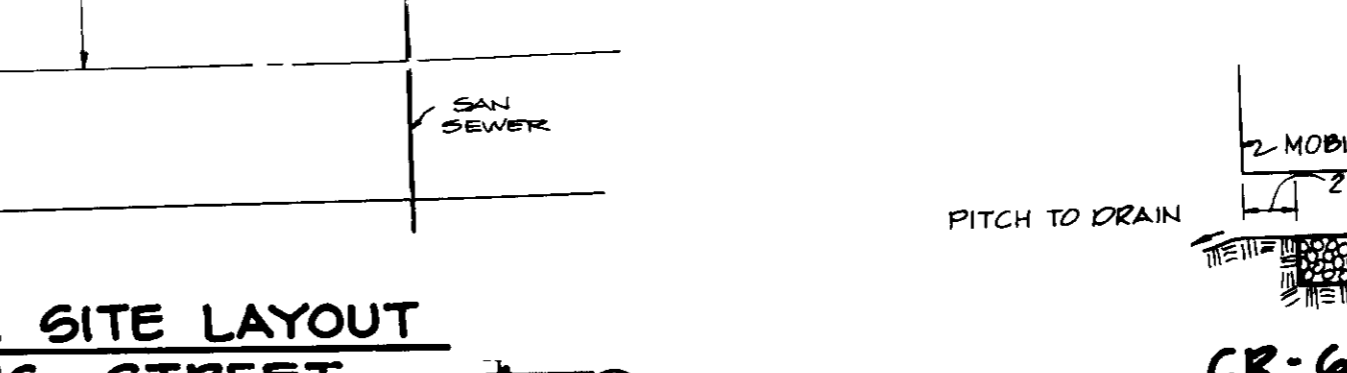
TYPICAL PARKING BAY SECTION
NO SCALE



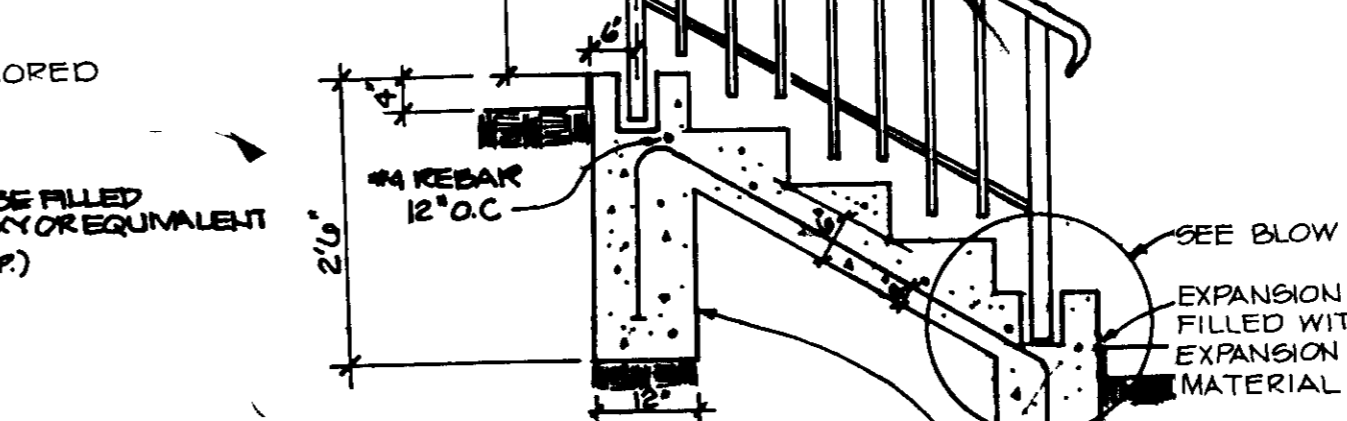
TYPICAL SITE LAYOUT ALONG PARKING BAY
SCALE 1"=20'



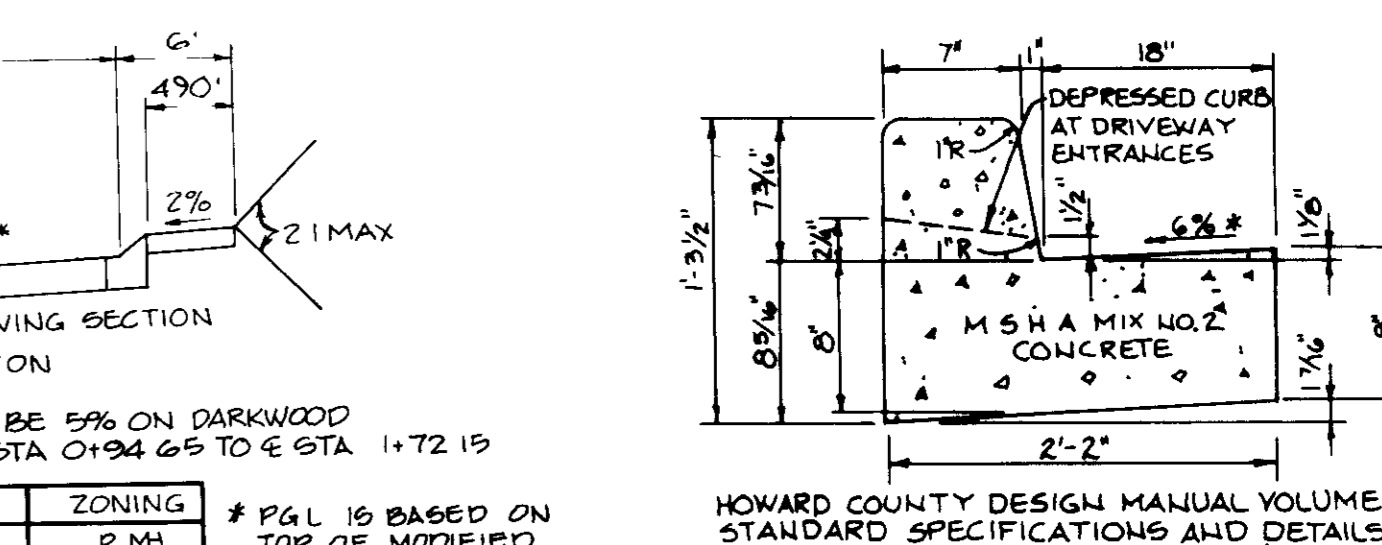
TYPICAL SITE LAYOUT ALONG STREET
SCALE 1"=20'



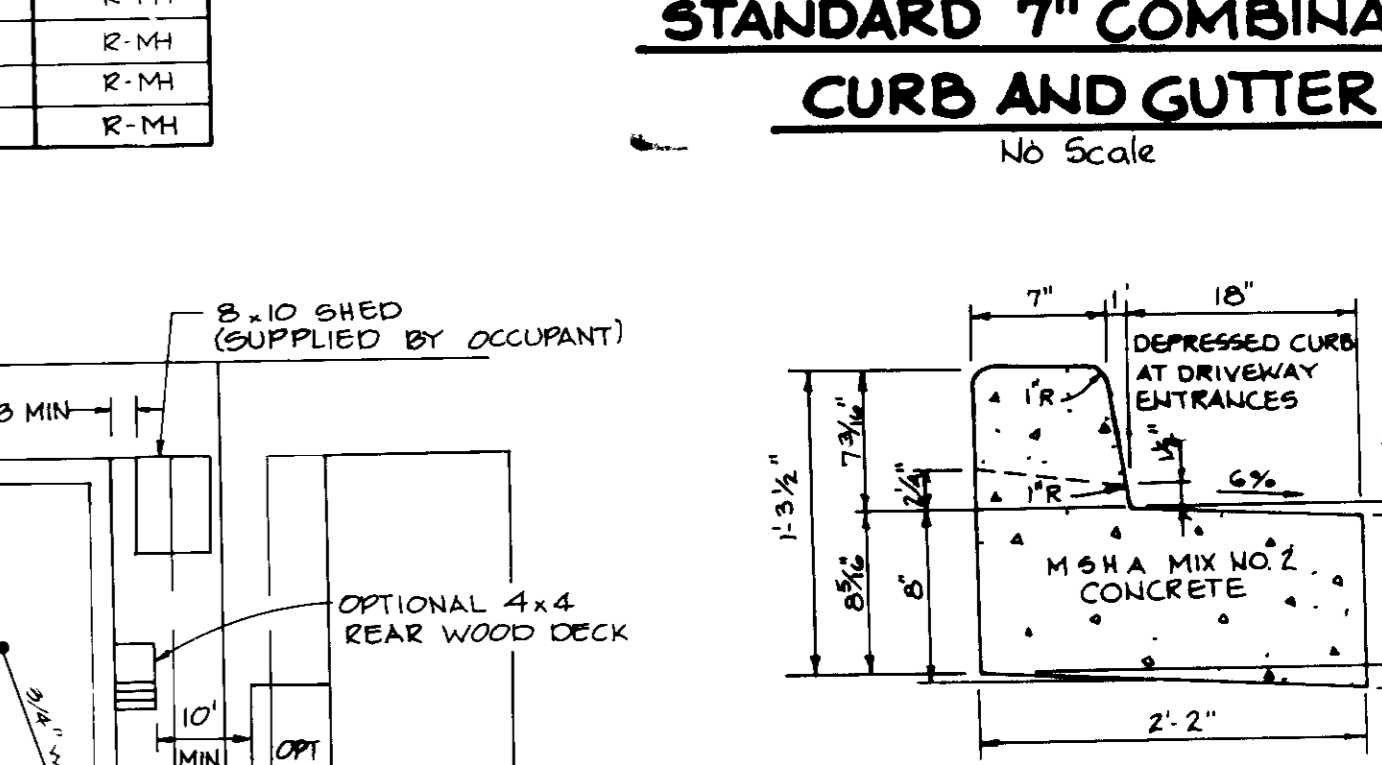
CR-6 PAD DETAIL
NO SCALE



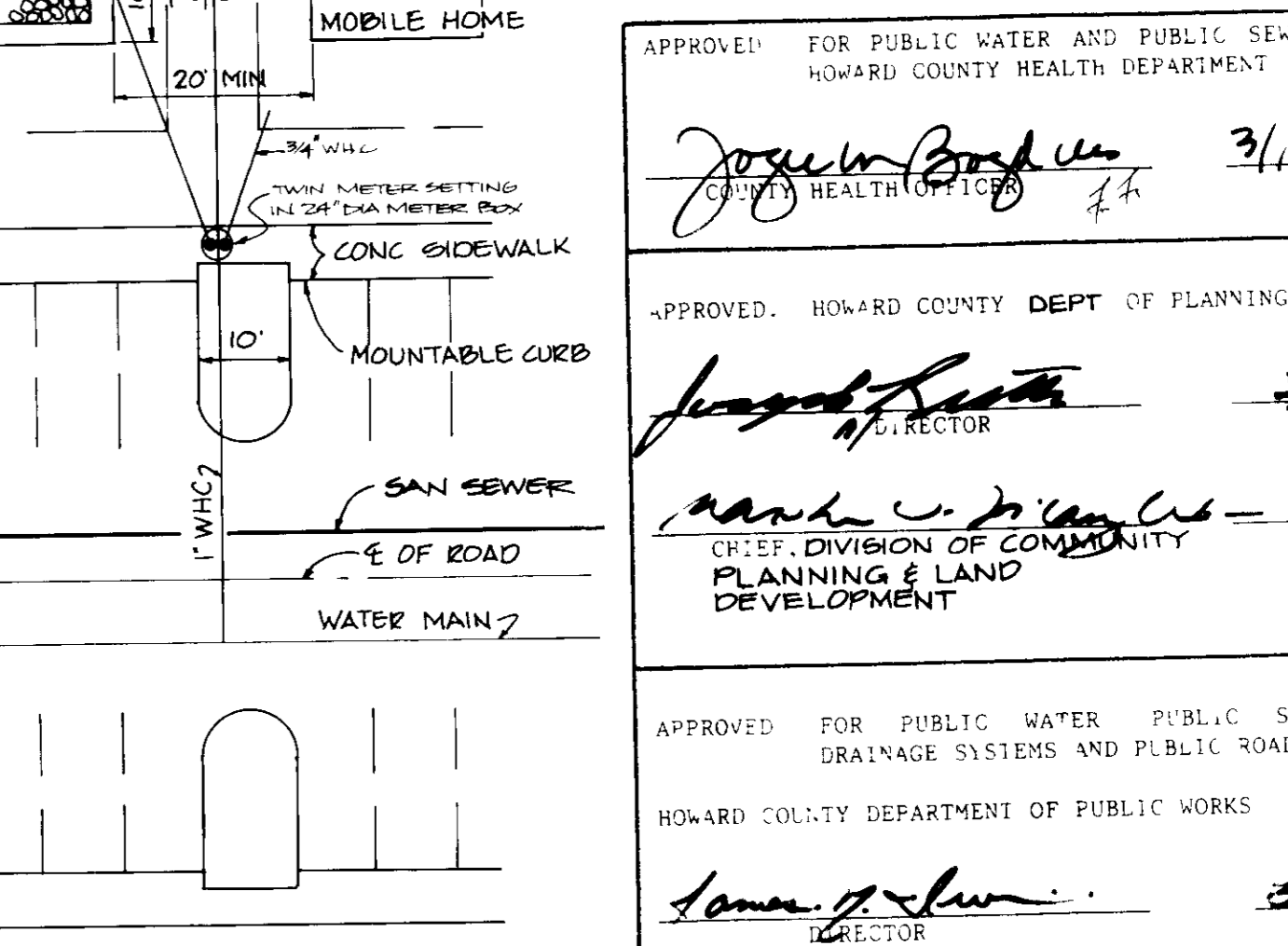
STEP AND RAILING DETAIL
NO SCALE



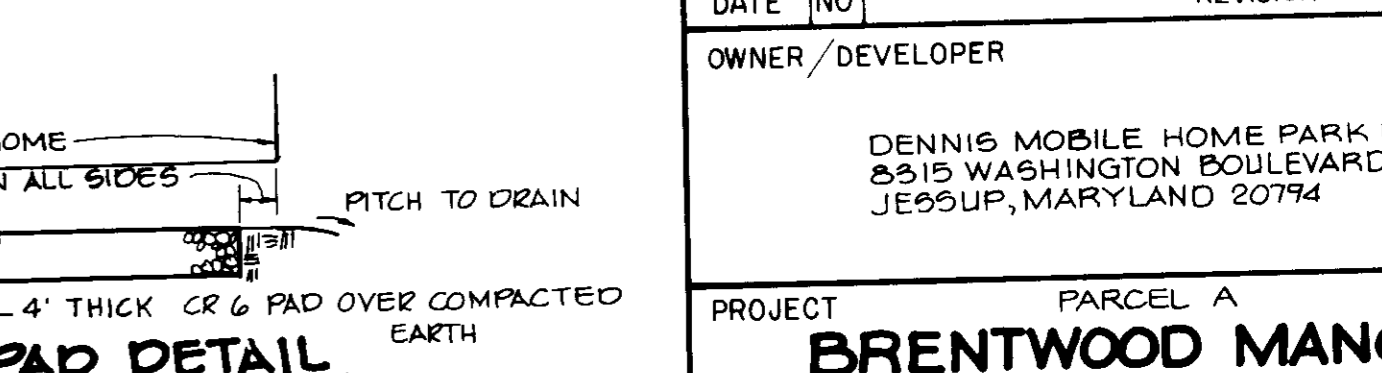
HOWARD COUNTY DESIGN MANUAL VOLUME III STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION (DRAWING R-301)
STANDARD 7" COMBINATION CURB AND GUTTER
No Scale



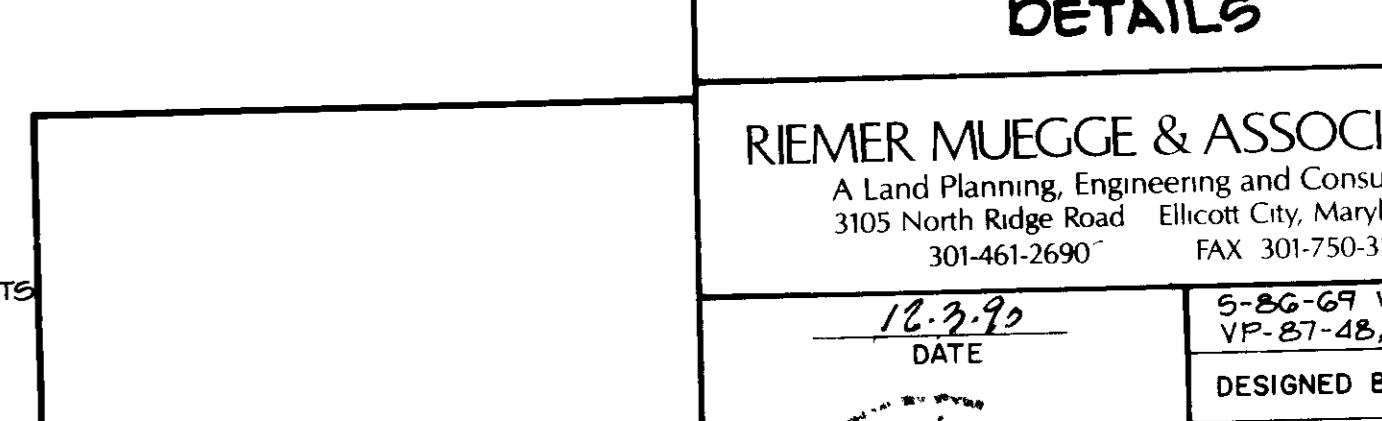
REVERSE 7" COMBINATION CURB AND GUTTER
No Scale



TYPICAL SITE LAYOUT ALONG PARKING BAY
SCALE 1"=20'



CR-6 PAD DETAIL
NO SCALE



STEP AND RAILING DETAIL
NO SCALE

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS
HOWARD COUNTY HEALTH DEPARTMENT
Joseph B. ... 3/14/11 DATE

APPROVED, HOWARD COUNTY DEPT OF PLANNING AND ZONING
James ... 5/25/11 DATE
CHIEF, DIVISION OF COMMUNITY PLANNING & LAND DEVELOPMENT

APPROVED FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
James ... 3/5/11 DATE
CHIEF, BUREAU OF ENGINEERING

DATE	NO	REVISION

OWNER/DEVELOPER
DENNIS MOBILE HOME PARK INC
8515 WASHINGTON BOULEVARD
JESSUP, MARYLAND 20794

PROJECT
BRENTWOOD MANOR
(FORMERLY DENNIS MOBILE HOME PARK)

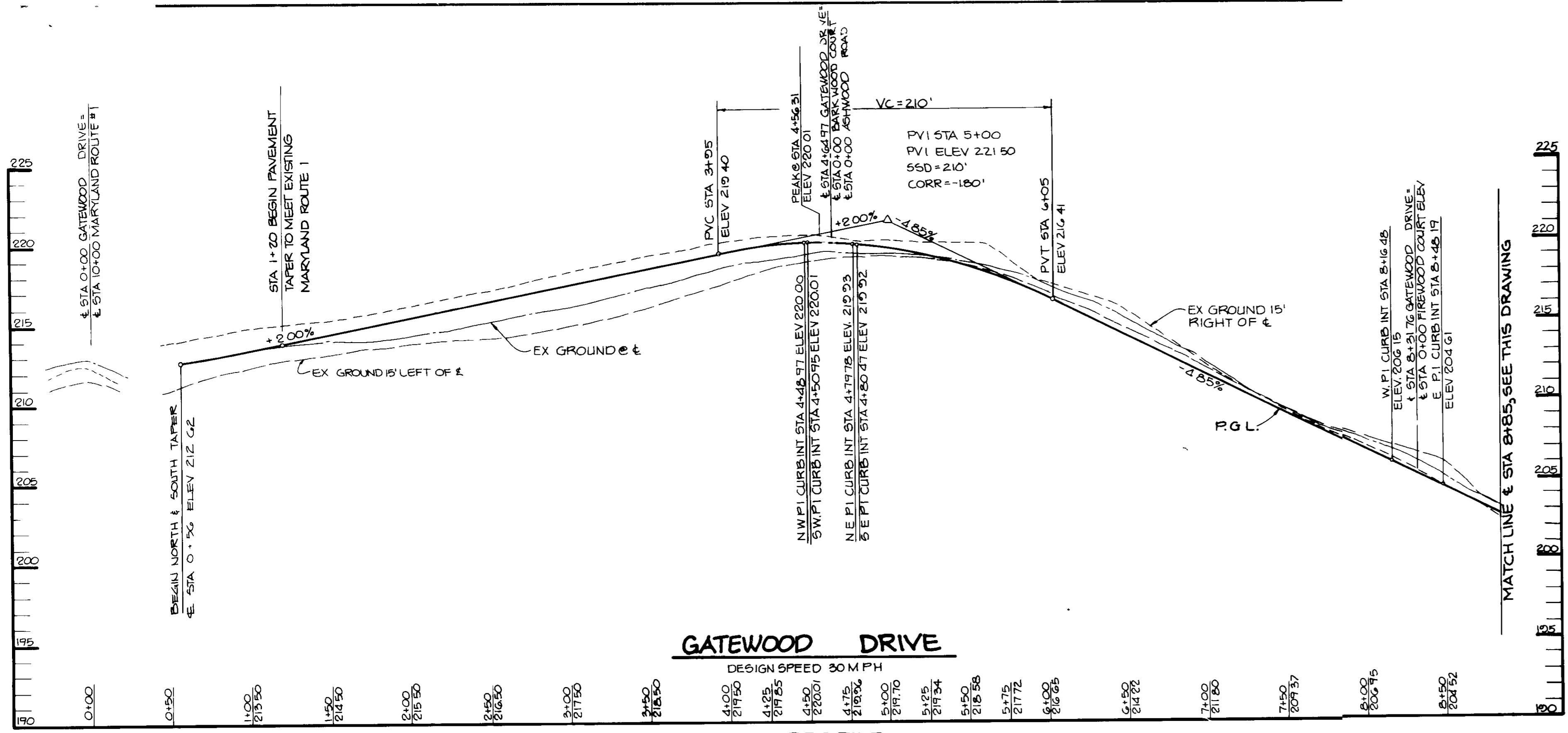
AREA TAX MAP 43
6TH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

TITLE
DETAILS

RIEMER MUEGGE & ASSOCIATES, INC
A Land Planning, Engineering and Consulting Firm
3105 North Ridge Road Ellicott City, Maryland 21043
301-461-2690 FAX 301-750-3176

DATE 10/3/10
DESIGNED BY J.J.B., R.L.H.
DRAWN BY J.C.R., O.V.P.
PROJECT NO 27802
DATE JUNE 1988
SCALE AS SHOWN
DRAWING NO 10 OF 28

ARTHUR E MUEGGE 98707

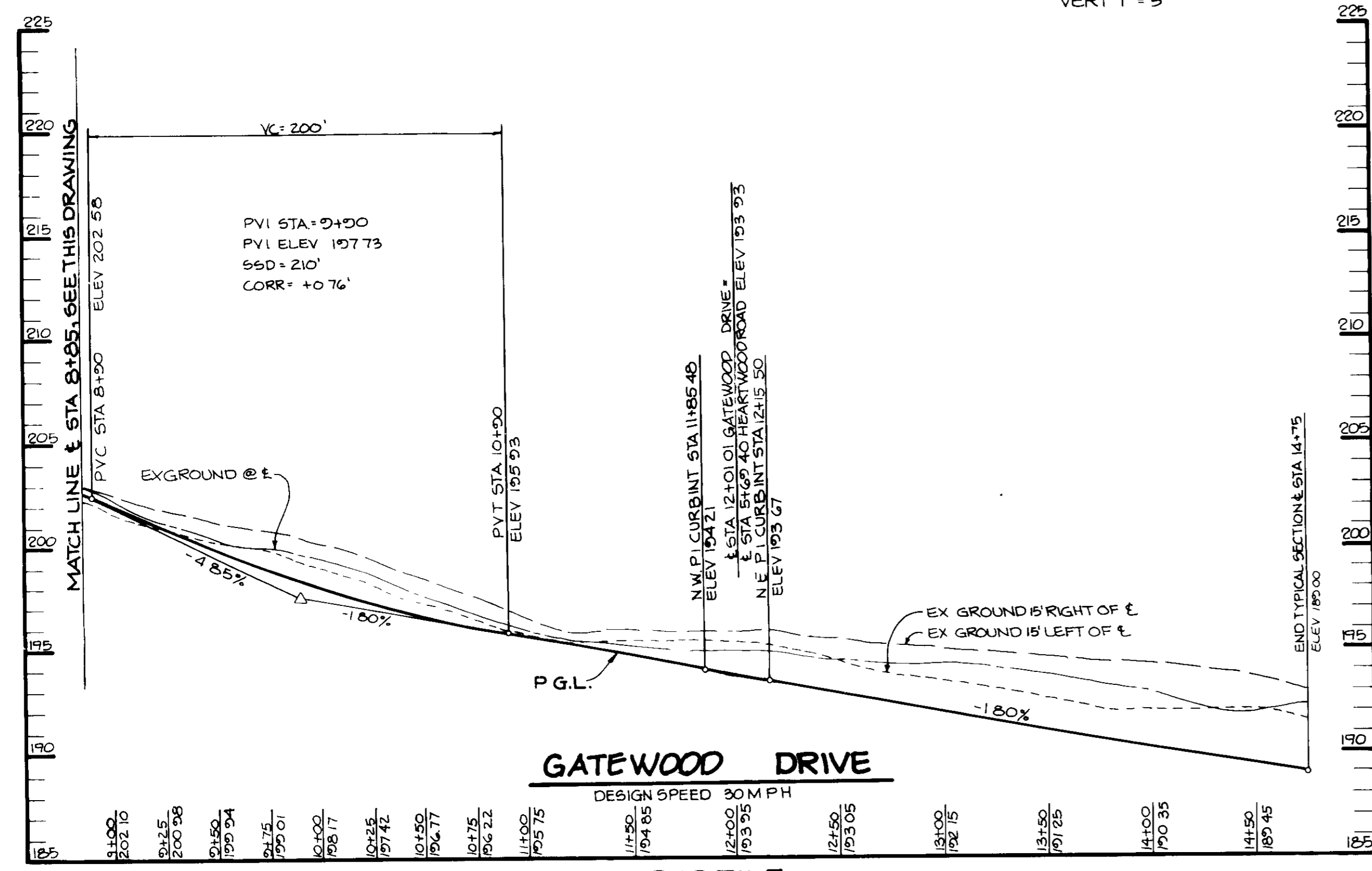


GATEWOOD DRIVE

DESIGN SPEED 30 M.P.H.

PROFILE

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

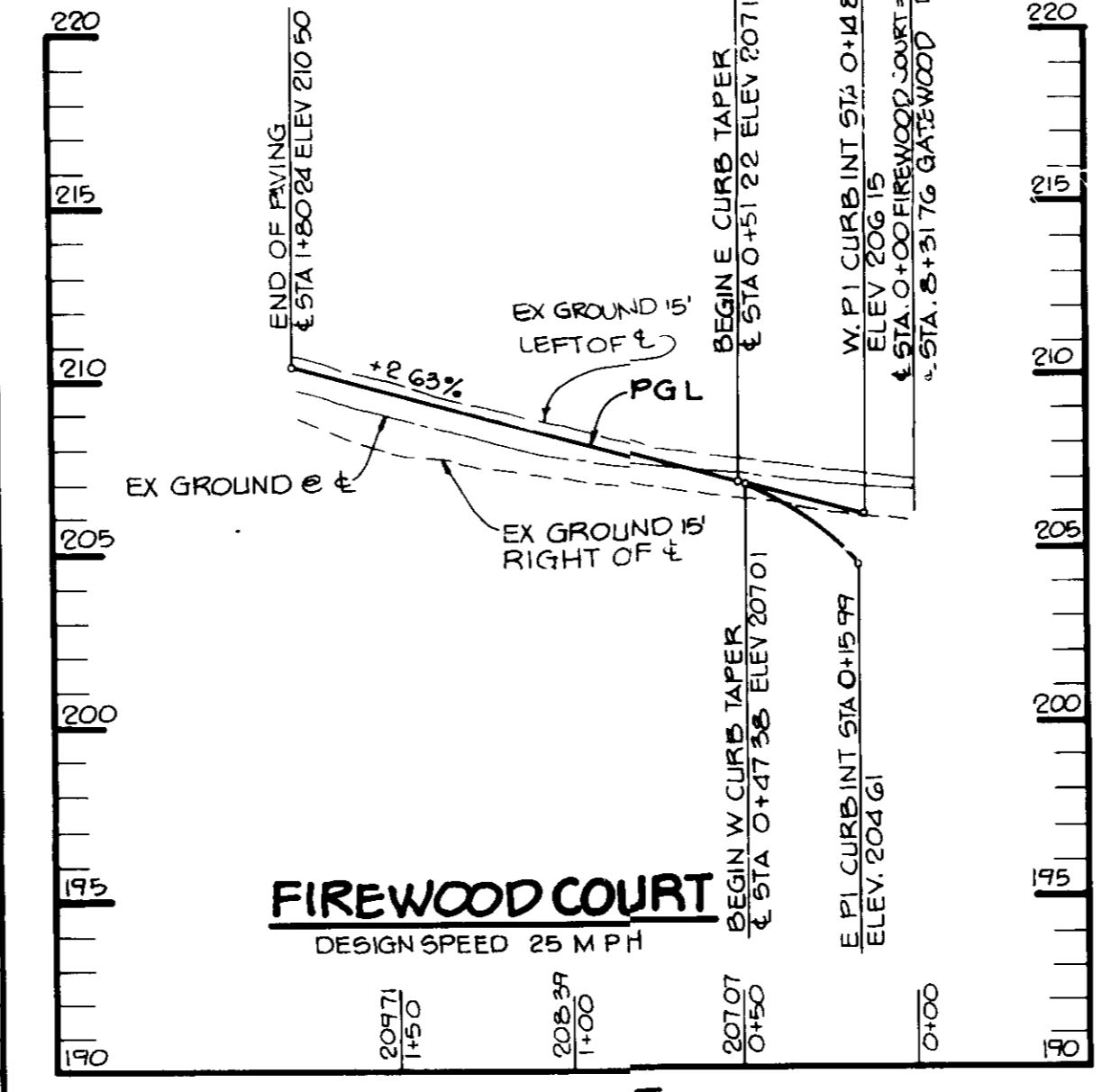


GATEWOOD DRIVE

DESIGN SPEED 30 M.P.H.

PROFILE

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

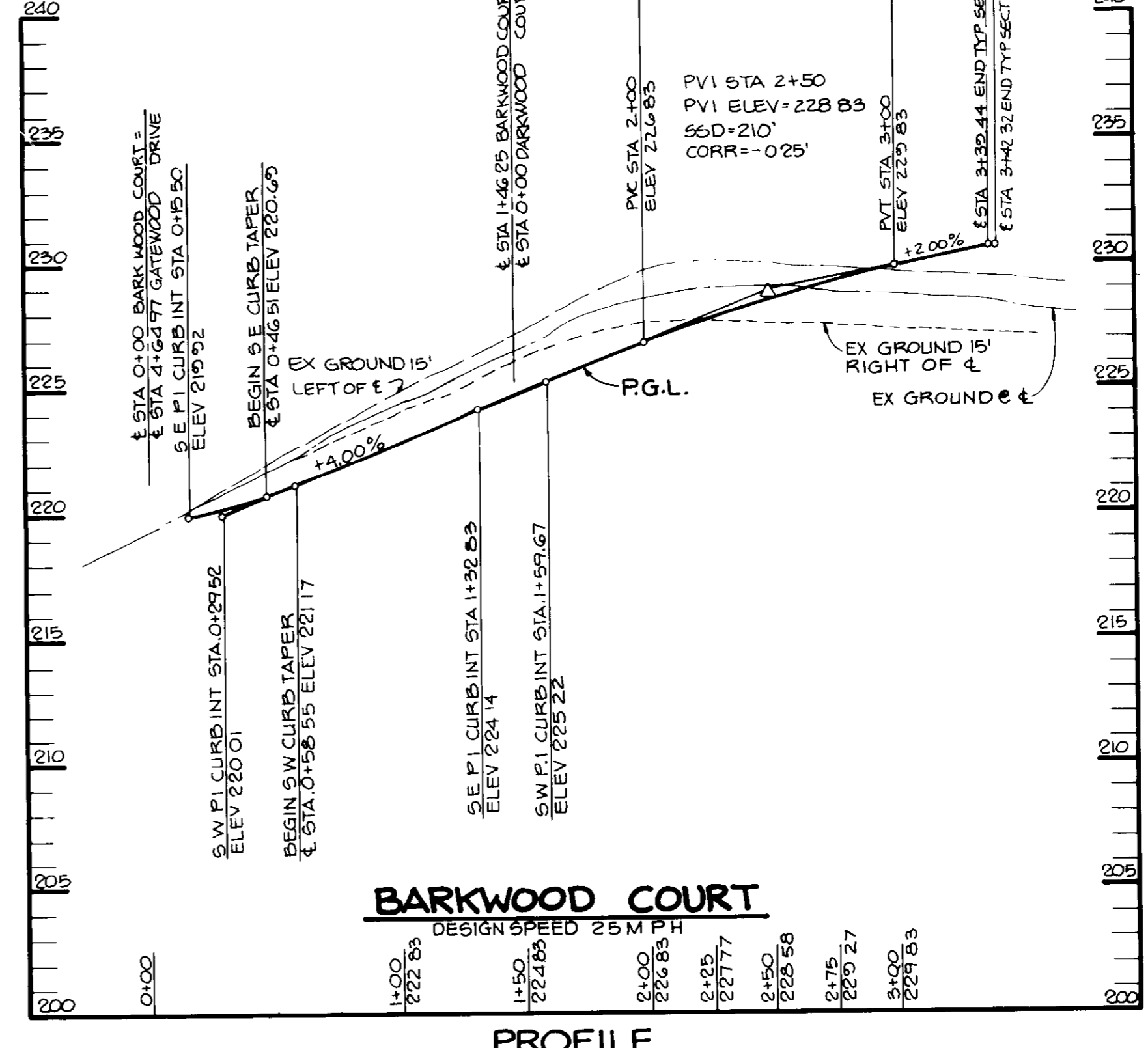


FIREWOOD COURT

DESIGN SPEED 25 M.P.H.

PROFILE

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

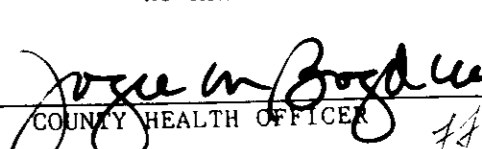
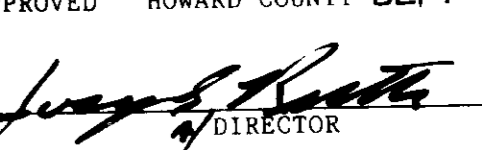
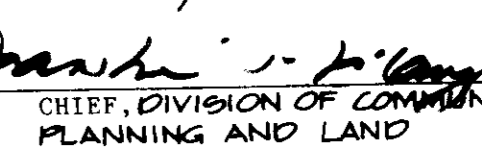
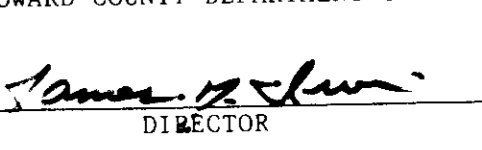
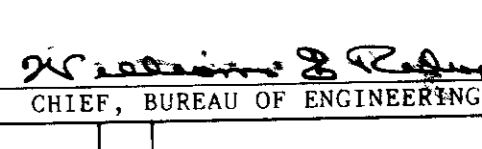
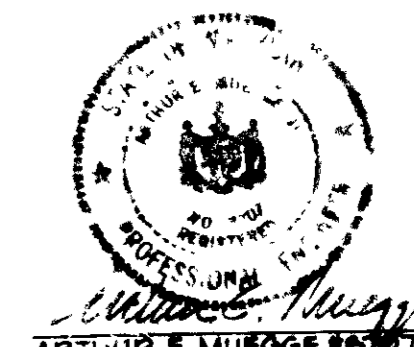


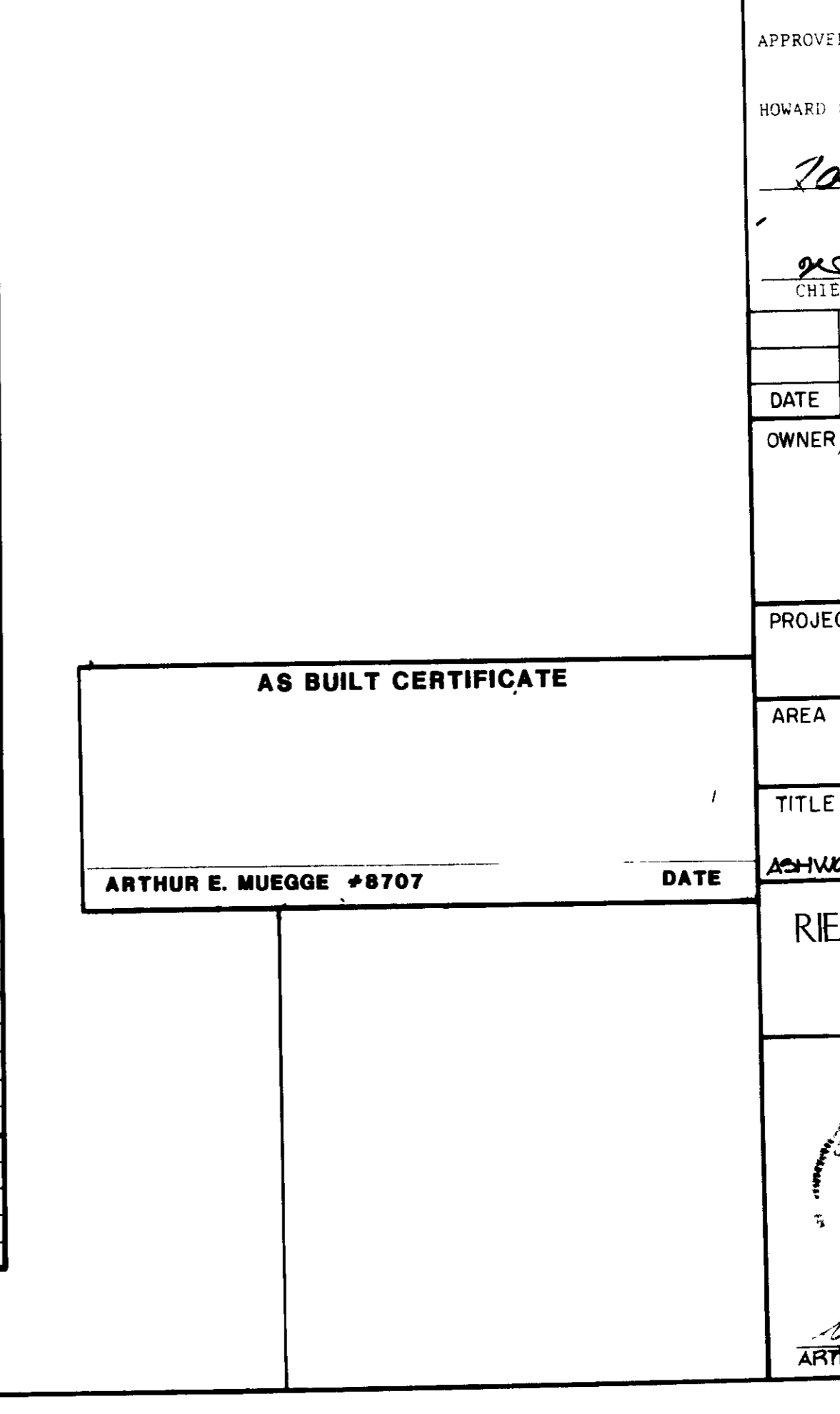
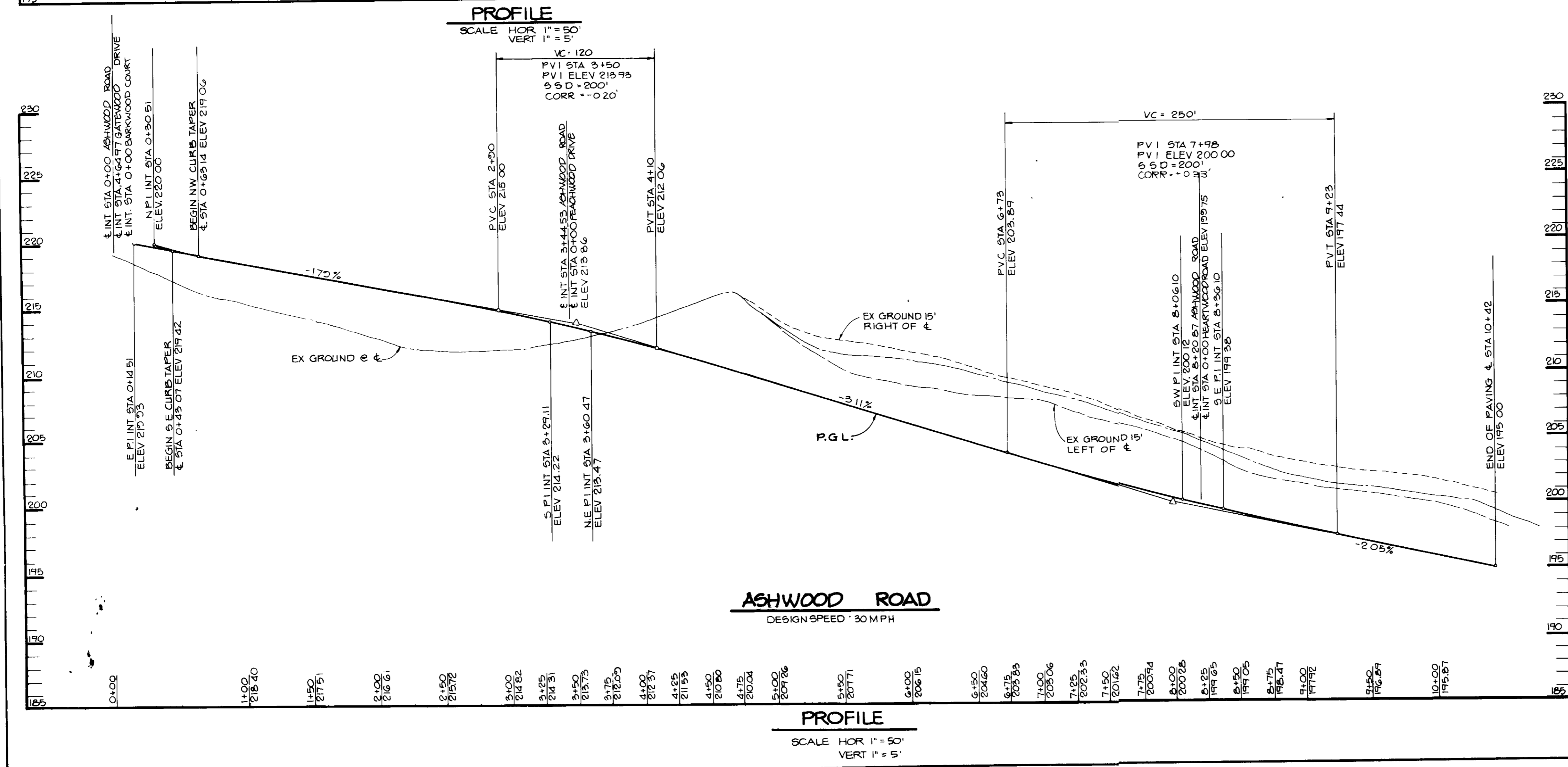
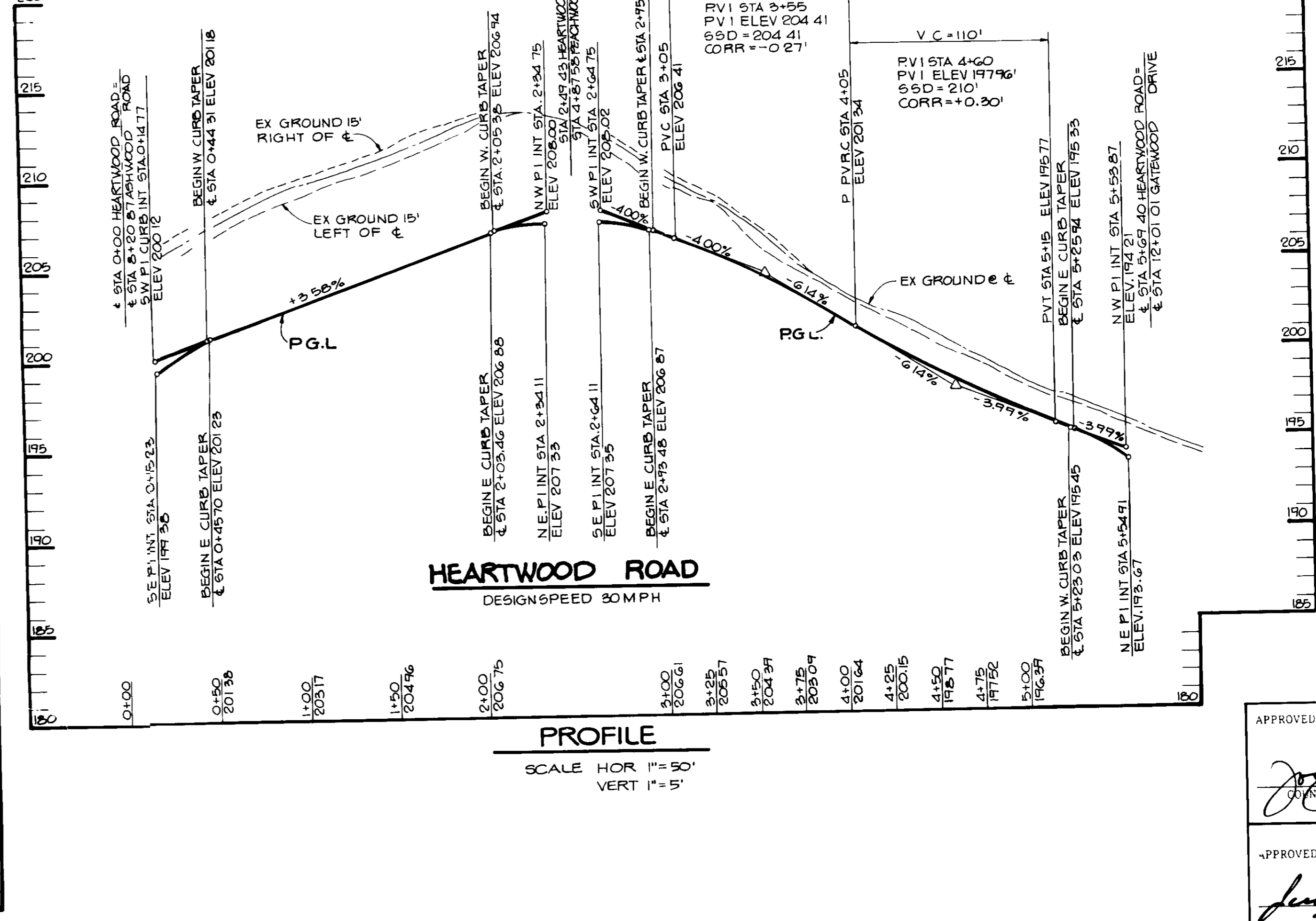
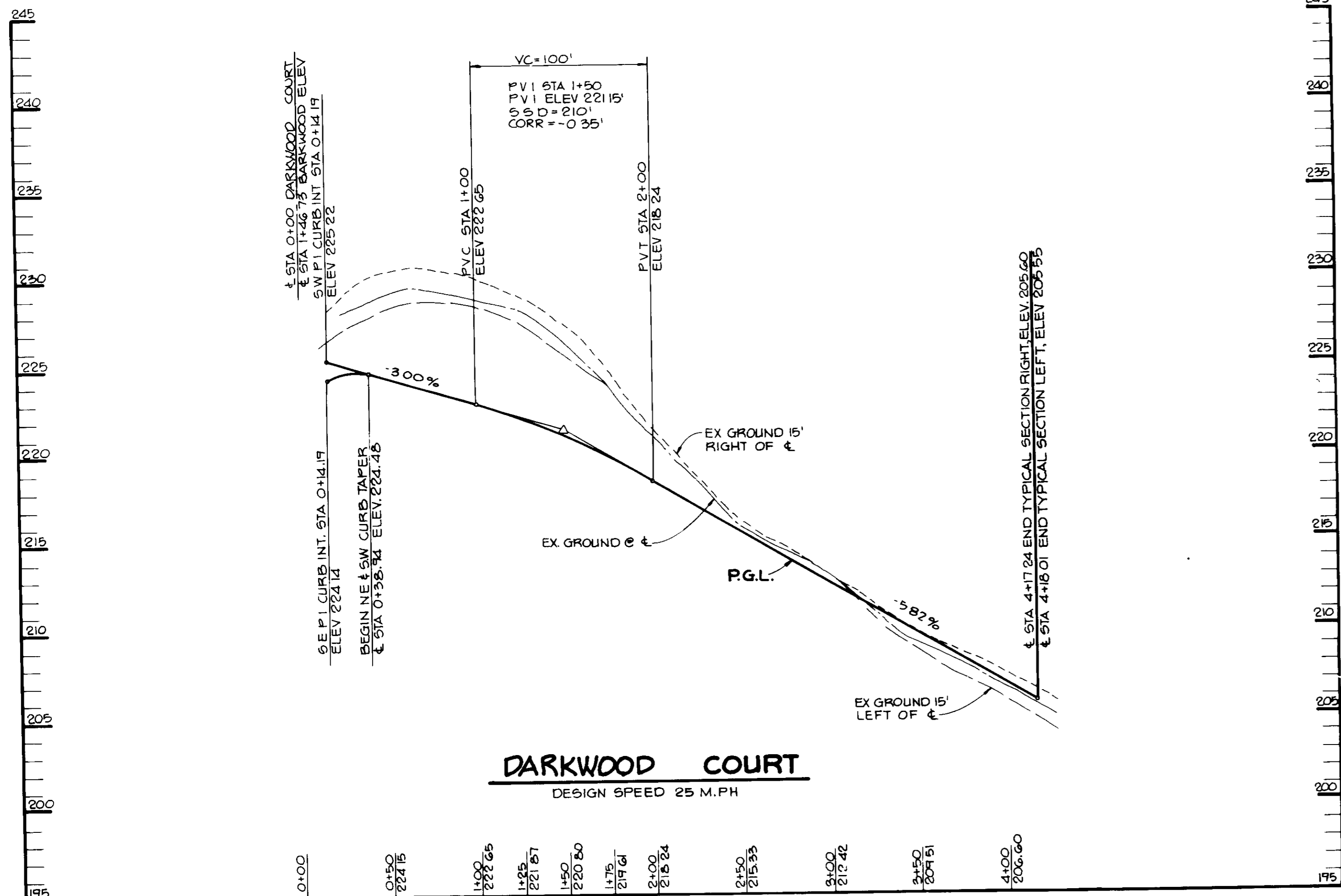
BARKWOOD COURT

DESIGN SPEED 25 M.P.H.

PROFILE

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

AS BUILT CERTIFICATE	
APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT	DATE <i>3/14/91</i>
 COUNTY HEALTH OFFICER	
APPROVED HOWARD COUNTY DEPT OF PLANNING AND ZONING	DATE <i>3/25/91</i>
 DIRECTOR	
APPROVED FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS	DATE <i>6/15/91</i>
 CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT	
APPROVED FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS	DATE <i>3.5.91</i>
 DIRECTOR	
APPROVED FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS	DATE <i>3.1.91</i>
 CHIEF, BUREAU OF ENGINEERING	
OWNER/DEVELOPER	REVISION
DENNIS MOBILE HOME PARK INC 8315 WASHINGTON BOULEVARD JESSUP, MARYLAND 20794	
PROJECT	PARCEL A
BRENTWOOD MANOR (FORMERLY DENNIS MOBILE HOME PARK)	
AREA TAX MAP 45	PARCEL 232,504
5TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND	
ROAD PROFILES	
GATEWOOD DRIVE, BARKWOOD CT. AND FIREWOOD CT	
RIEMER MUEGGE & ASSOCIATES, INC A Land Planning, Engineering and Consulting Firm 3105 North Ridge Road Elkton City, Maryland 21043 301-461-2690 FAX 301-750-3176	
DATE <i>11.5.90</i>	DESIGNED BY J.J.B., M.C.D.
 ARTHUR E. MUEGGE #8707	
DATE <i>5-26-91</i>	DESIGNED BY J.J.B., M.C.D.
DRAWN BY J.C.R.	
PROJECT NO 7802	
DATE JUNE 1989	
SCALE VERT 1"=5' HORIZ 1"=50'	
DRAWING NO 11 OF 20	



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

Joseph B. ... 3/12/91
COUNTY HEALTH OFFICER DATE

APPROVED, HOWARD COUNTY DEPT OF PLANNING AND ZONING

Joseph ... 3/5/91
DIRECTOR DATE

Mark ... 3/10/91
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT DATE

APPROVED FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.

HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

Thomas ... 3/5/91
DIRECTOR DATE

James ... 3-1-91
CHIEF, BUREAU OF ENGINEERING DATE

DATE	NO	REVISION

OWNER/DEVELOPER
DENNIS MOBILE HOME PARK INC
8315 WASHINGTON BOULEVARD
JESSUP, MARYLAND 20794

PROJECT
Brentwood Manor
(FORMERLY DENNIS MOBILE HOME PARK)

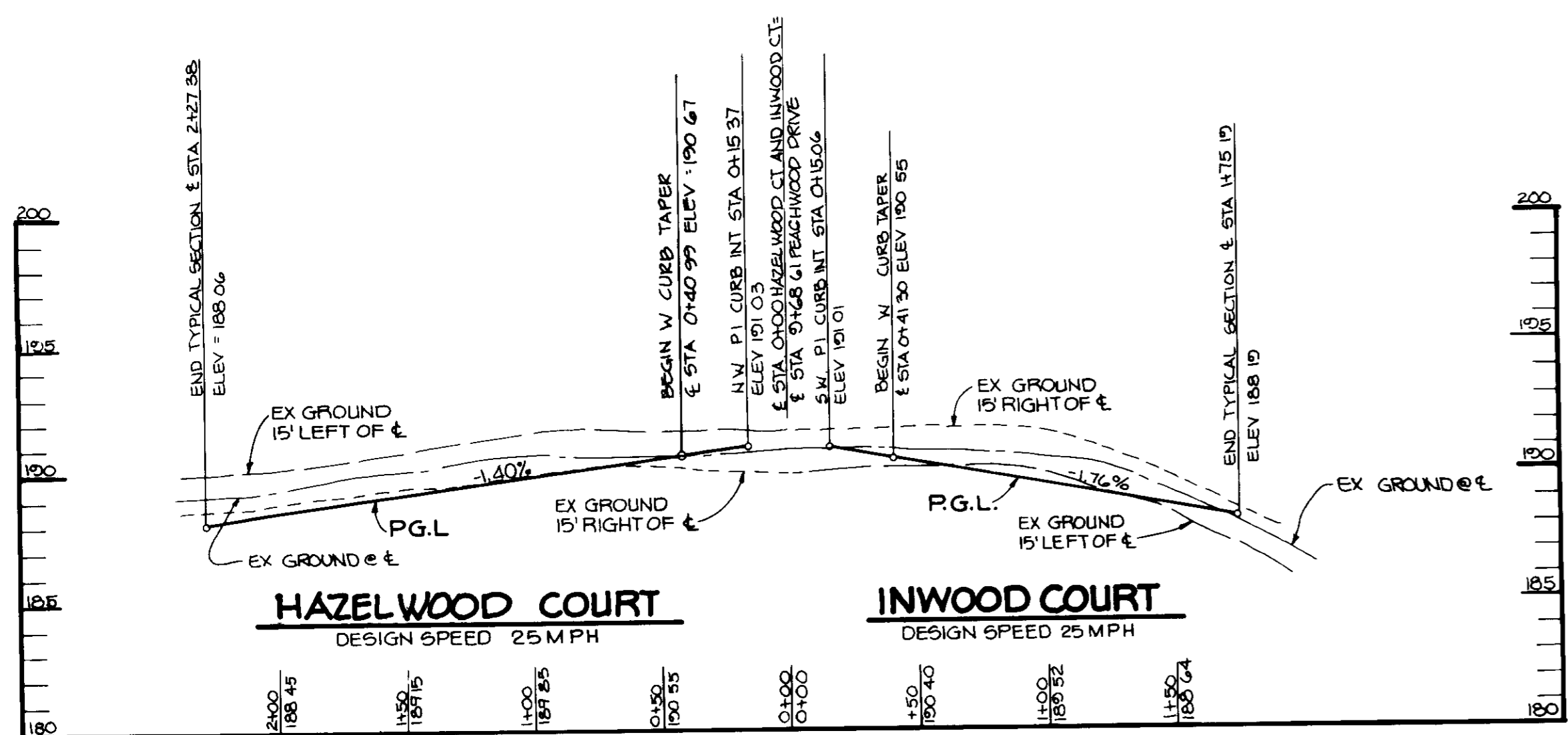
AREA TAX MAP 49 PARCEL 232.504
6TH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

TITLE
ROAD PROFILES
ASHWOOD RD, HEARTWOOD RD AND DARKWOOD CT

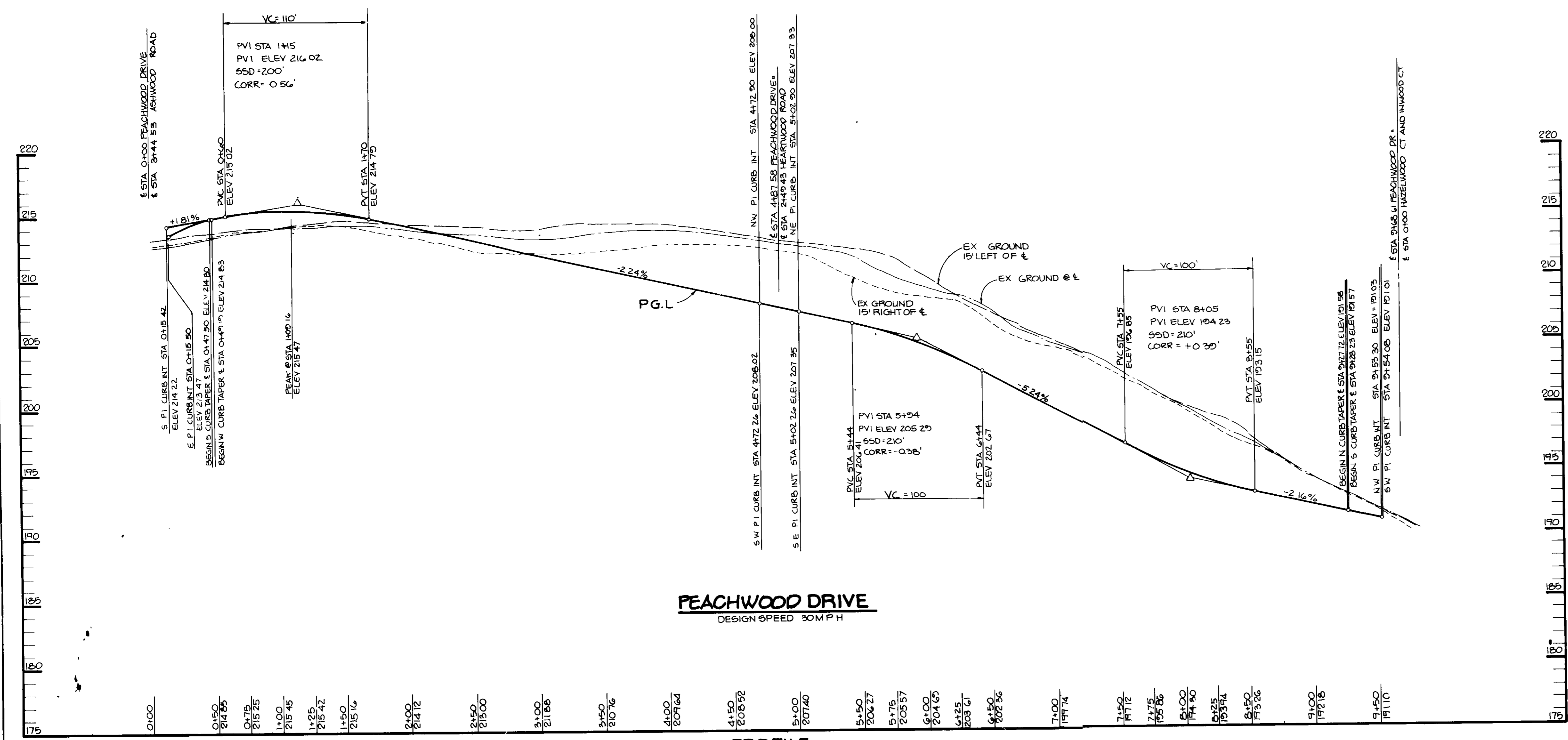
AS BUILT CERTIFICATE
ARTHUR E. MUEGGE #8707 DATE

RIEMER MUEGGE & ASSOCIATES, INC
A Land Planning, Engineering and Consulting Firm
3105 North Ridge Road Ellicott City, Maryland 21043
301-461-2690 FAX 301-750-3176

12-3-90
DATE
DESIGNED BY J J B, M C M
DRAWN BY J C R
PROJECT NO 27802
DATE JUNE 1989
SCALE VERT 1" = 5' HORZ 1" = 50'
DRAWING NO 12 OF 28



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



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

AS BUILT CERTIFICATE	
APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT	DATE
<i>Arthur E. Muegge</i> COUNTY HEALTH OFFICER	3/12/91
APPROVED: HOWARD COUNTY DEPT OF PLANNING AND ZONING	DATE
<i>James M. Smith</i> DIRECTOR	3/25/91
<i>Arthur E. Muegge</i> CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT	3/25/91
APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.	DATE
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS	DATE
<i>Thomas J. Blum</i> DIRECTOR	3.5.91
<i>Arthur E. Muegge</i> CHIEF, BUREAU OF ENGINEERING	3.1.91
DATE	NO REVISION
OWNER / DEVELOPER	
DENNIS MOBILE HOME PARK, INC 8315 WASHINGTON BOULEVARD JESSUP, MARYLAND 20794	
PROJECT	PARCEL A BRENTWOOD MANOR (FORMERLY DENNIS MOBILE HOME PARK)
AREA TAX MAP 45	PARCEL 232.504
6TH ELECTION DISTRICT	HOWARD COUNTY, MARYLAND
TITLE	ROAD PROFILES HAZELWOOD COURT, INWOOD COURT AND PEACHWOOD DR.
RIEMER MUEGGE & ASSOCIATES, INC A Land Planning, Engineering and Consulting Firm 3105 North Ridge Road Ellcott City, Maryland 21043 301-461-2690 FAX 301-750-3176	
DATE	12-2-90
DESIGNED BY	J J B, M C M
DRAWN BY	J C R
PROJECT NO	27802
DATE	JUNE 1980
SCALE	AS SHOWN
DRAWING NO	13 OF 25

SOILS LEGEND

BOUNDARY LINES
AqC2 - AURA GRAVELLY LOAM, 5-10% SLOPES, MODERATELY ERODED
EV8 - EVESBORO LOAMY SAND, 1-5% SLOPES
Fa - FALLSINGTON LOAM
Ha - HATBORO SILT LOAM
SfB2 - SASSAFRAS GRAVELLY SANDY LOAM, 1-5% SLOPES, MODERATELY ERODED
SfC2 - " " " " 5-10% SLOPES, "
SfD2 - " " " " 10-15% SLOPES, "
WbB2 - WOODSTOWN SANDY LOAM, 1-5% SLOPES, MODERATELY ERODED

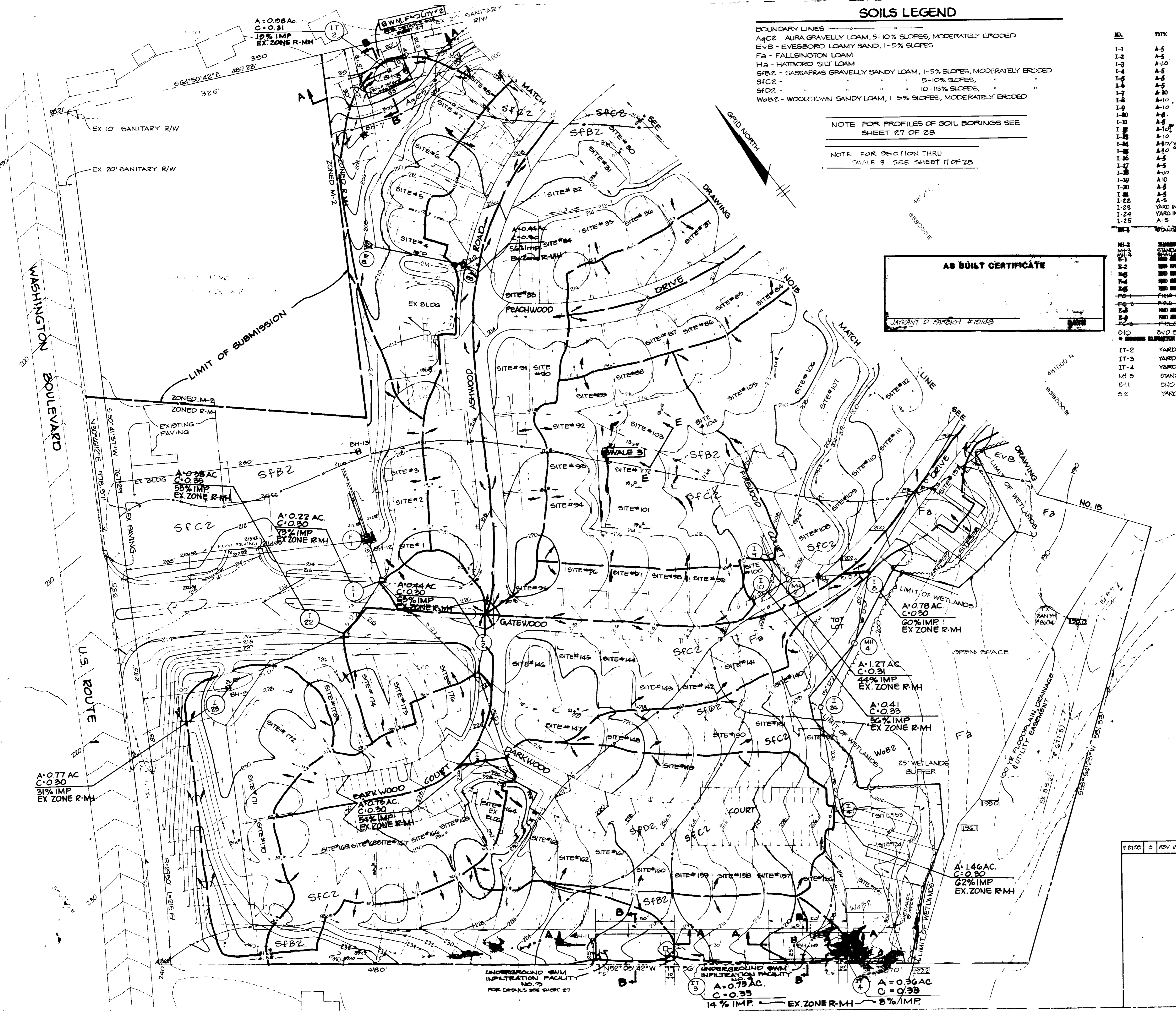
NOTE FOR PROFILES OF SOIL BORINGS SEE SHEET 27 OF 28

NOTE FOR SECTION THRU SWALE 3 SEE SHEET 17 OF 28

STRUCTURE SCHEDULE

Table with columns: NO., TYPE, DETAIL, LOCATION, INV. IN, INV. OUT, REV. OF CORR. EXPLANATION. Lists various structures like YARD INLET, END SECTION, and SWALE with their respective details and elevations.

AS BUILT CERTIFICATE
JAYRANT D. PARKER #10148



Signatures and dates:
Joseph M. Boyce 3/12/91
James J. Smith 3/25/91
Mark C. Campbell 6/20/91
Thomas P. Shaw 5.5.91
William G. Riley 3.1.91

12-20-94 E. ADDED 510, 511, 514, 518, 522 TO STRUCTURE SCHEDULE, REV. INV. E.O.
11/02/91 REVISED SEVERAL MOBILE HOME SITES RELOCATED EXISTING WETLANDS

Project information block including:
WNER DEVELOPER: DENNIS MOBILE HOME PARK INC.
PROJECT: PARCEL A BRENTWOOD MANOR
AREA TAX MAP 43 PARCEL 239
DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT
DRAINAGE AREA MAP & STRUCTURE SCHEDULE
RIEMER MUEGGE & ASSOCIATES, INC.
Professional Engineer Seal for William Muegge, No. 14827, State of Maryland.

SOILS LEGEND

BOUNDARY LINES
 A₉C₂ - AURA GRAVELLY LOAM, 5-10% SLOPES, MODERATELY ERODED
 EV₈ - EVERBROOK LOAMY SAND, 1-5% SLOPES
 Fa - FALLSINGTON LOAM
 Ha - HATBORO SILT LOAM
 S₈B₂ - SASSAFRAS GRAVELLY SANDY LOAM, 1-5% SLOPES, MODERATELY ERODED
 S₈C₂ - " " " " 5-10% SLOPES, " " " "
 S₈D₂ - " " " " 10-15% SLOPES, " " " "
 Wo₈B₂ - WOODSTOWN SANDY LOAM, 1-5% SLOPES, MODERATELY ERODED

NOTE FOR SOIL BORING PROFILES
 SEE SHEET 27 OF 28

NOTE FOR SECTIONS THRU
 SWALES 1&2 SEE SHEET 1 OF 28

BY THE DEVELOPER:
 "I CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION SHALL BE DONE ACCORDING TO THESE PLANS, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT SHALL HAVE A CERTIFICATE OF ATTENDANCE AT A SEMINAR OF GENERAL RESOURCES APPROVED TRAINING PROVIDED BY THE COUNTY OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I WILL PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN "AS-BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT."

DEVELOPER _____ DATE _____

BY THE ENGINEER:
 "I CERTIFY THAT THIS PLAN FOR POND CONSTRUCTION, EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT. I HAVE NOTIFIED THE DEVELOPER THAT HE MUST PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN "AS-BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION."

ENGINEER _____ DATE _____

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL.

DATE 2/22/91

APPROVED _____ DATE 2/22/91
 U.S. SOIL CONSERVATION SERVICE

APPROVED _____ DATE 2/22/91
 HOWARD S.O.D.

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS,
 DRAINAGE SYSTEMS AND PUBLIC ROADS.
 HOWARD COUNTY HEALTH DEPARTMENT.

DATE 3/12/91

APPROVED HOWARD COUNTY DEPT OF PLANNING AND ZONING
 DATE 3/12/91

APPROVED _____ DATE 3/12/91
 CHIEF DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT

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

DATE 3/12/91

APPROVED _____ DATE 3/12/91
 CHIEF, BUREAU OF ENGINEERING

DATE NO REVISION

OWNER/DEVELOPER

DENNIS MOBILE HOME PARK INC
 6315 WASHINGTON BOULEVARD
 JESSUP, MARYLAND 20794

PROJECT PARCEL A
BRENTWOOD MANOR
 (FORMERLY DENNIS MOBILE HOME PARK)

AREA TAX MAP 43 PARCEL 292.504
 6TH ELECTION DISTRICT
 HOWARD COUNTY MARYLAND

TITLE
DRAINAGE AREA MAP

RIEMER MUEGGE & ASSOCIATES, INC.
 A Land Planning, Engineering and Consulting Firm
 3105 North Ridge Road Ellicott City, Maryland 21043
 301-461-2690 FAX 301-750-3176

DATE 10.3.90

DESIGNED BY M.C.M.

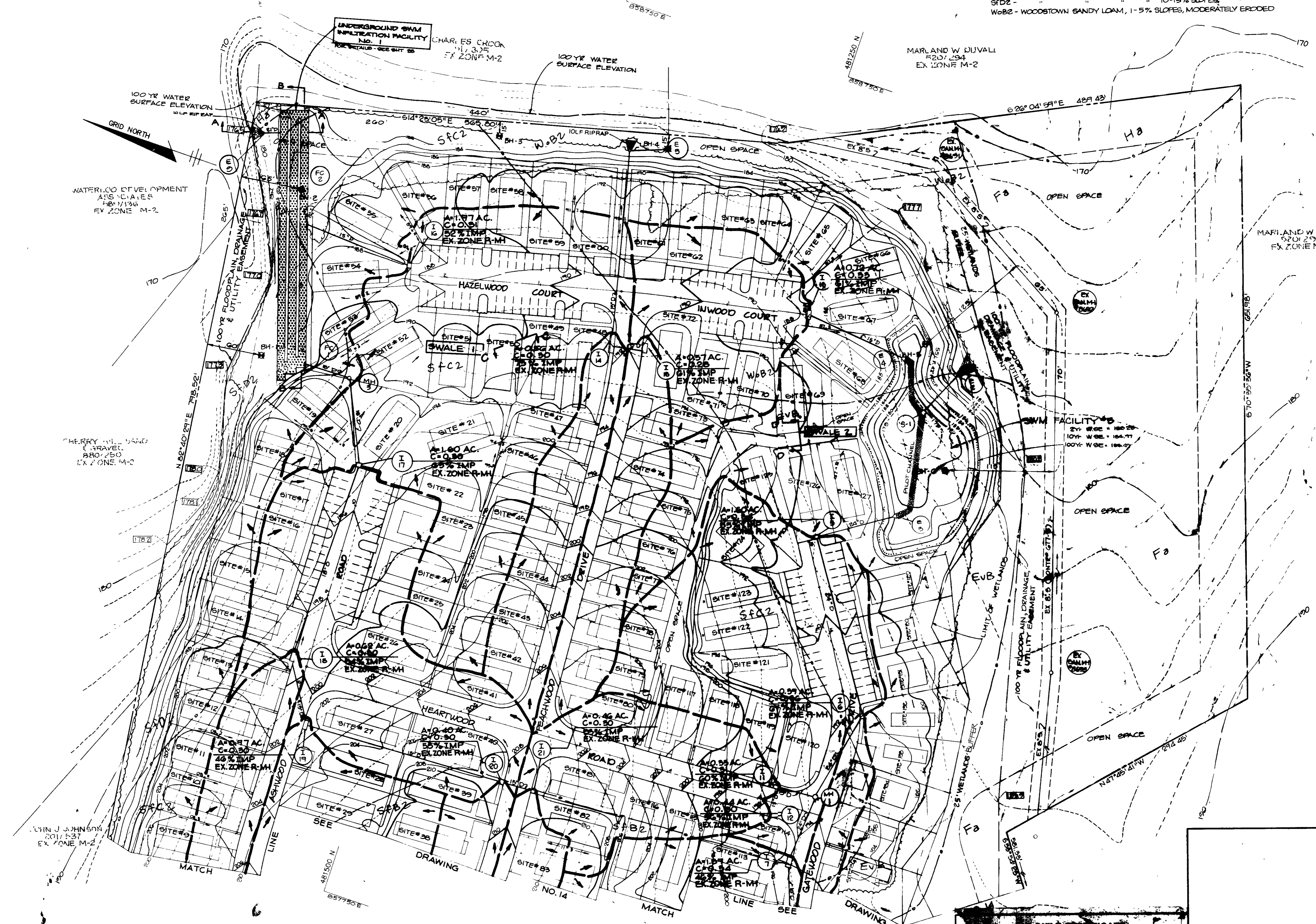
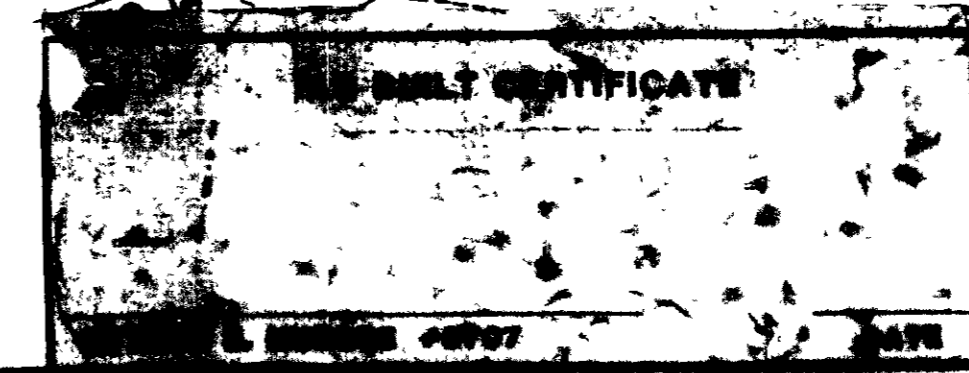
DRAWN BY J.C.R.

PROJECT NO 27602

DATE JUNE 1989

SCALE 1" = 50'

DRAWING NO 15 OF 28



WATERLOO DEVELOPMENT ASSOCIATES
 28071346
 EX ZONE M-2

MERRY W. BOND
 8807450
 EX ZONE M-2

JOHN J. JOHNSON
 2011537
 EX ZONE M-2

UNDERGROUND BWM INFILTRATION FACILITY
 No. 1
 CHARLES CROOK
 117,325
 EX ZONE M-2

MARLAND W. DUVAL
 5201294
 EX ZONE M-2

MARLAND W. DUVAL
 5201294
 EX ZONE M-2

BWM FACILITY #5
 27' WGE - 188.29'
 100' WGE - 184.77'
 100' WGE - 188.07'

LINE SEE

DRAWING

LINE SEE

DRAWING

MATCH

MATCH

MATCH

MATCH

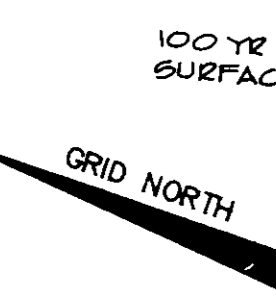
MATCH

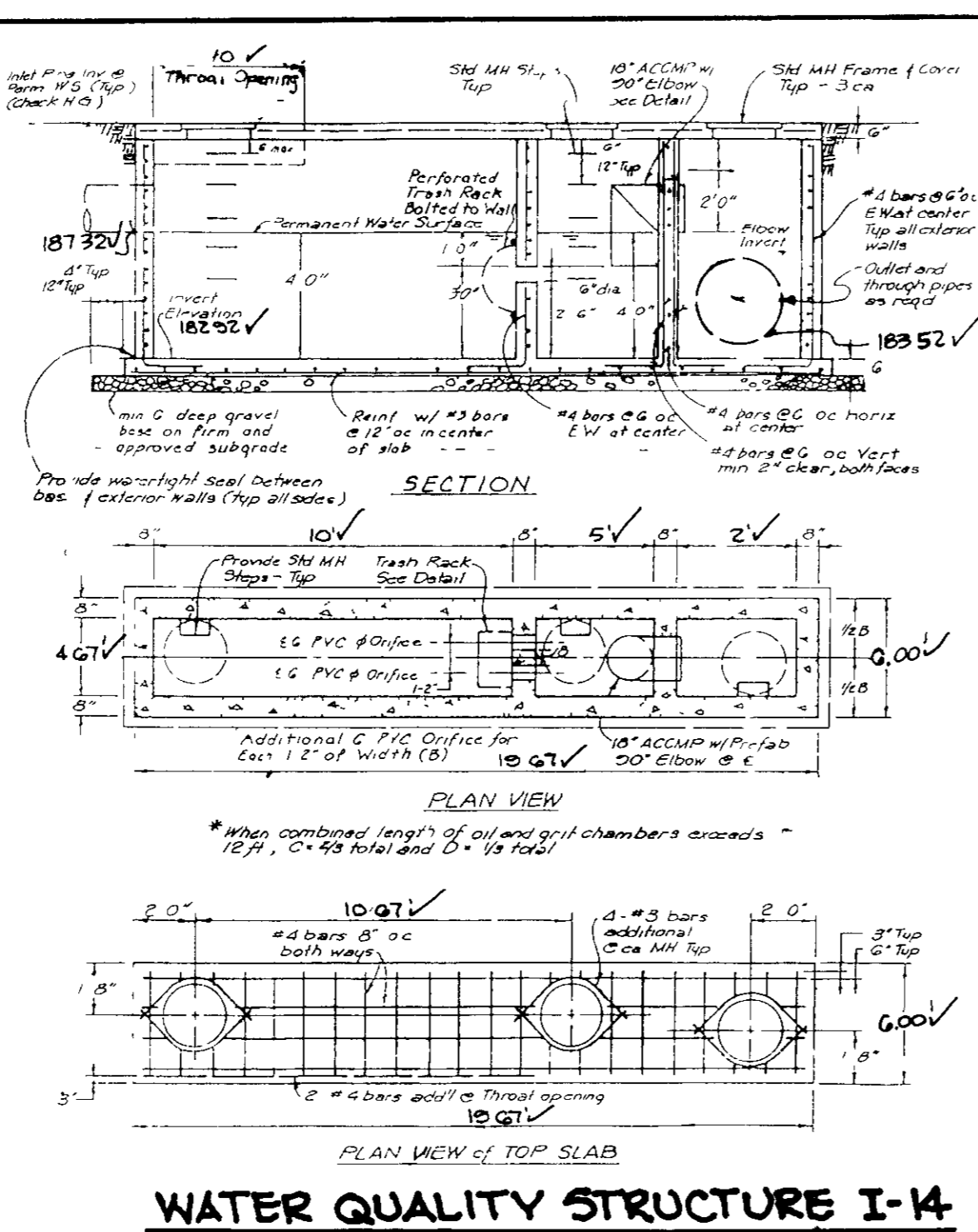
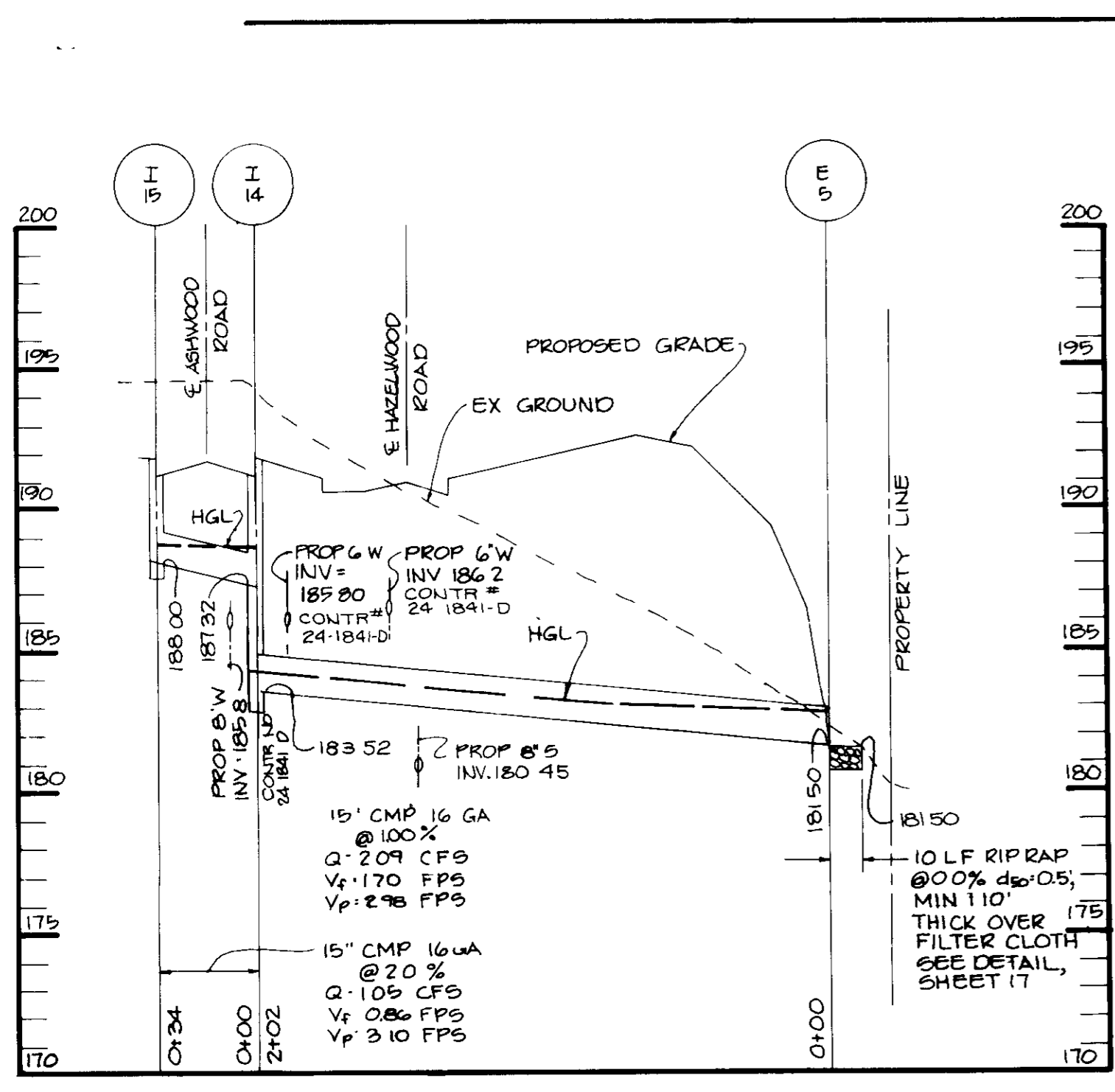
MATCH

MATCH

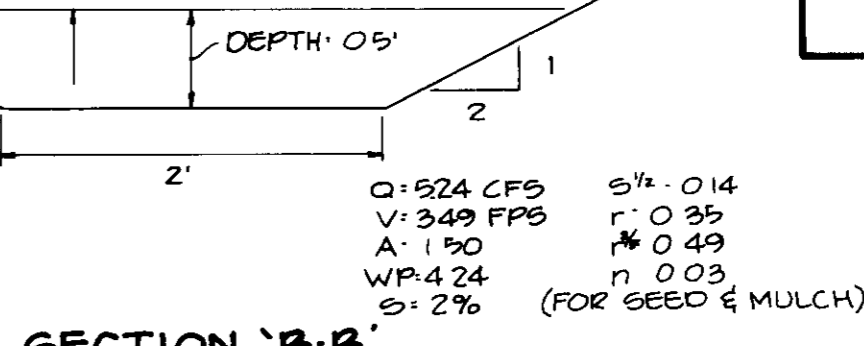
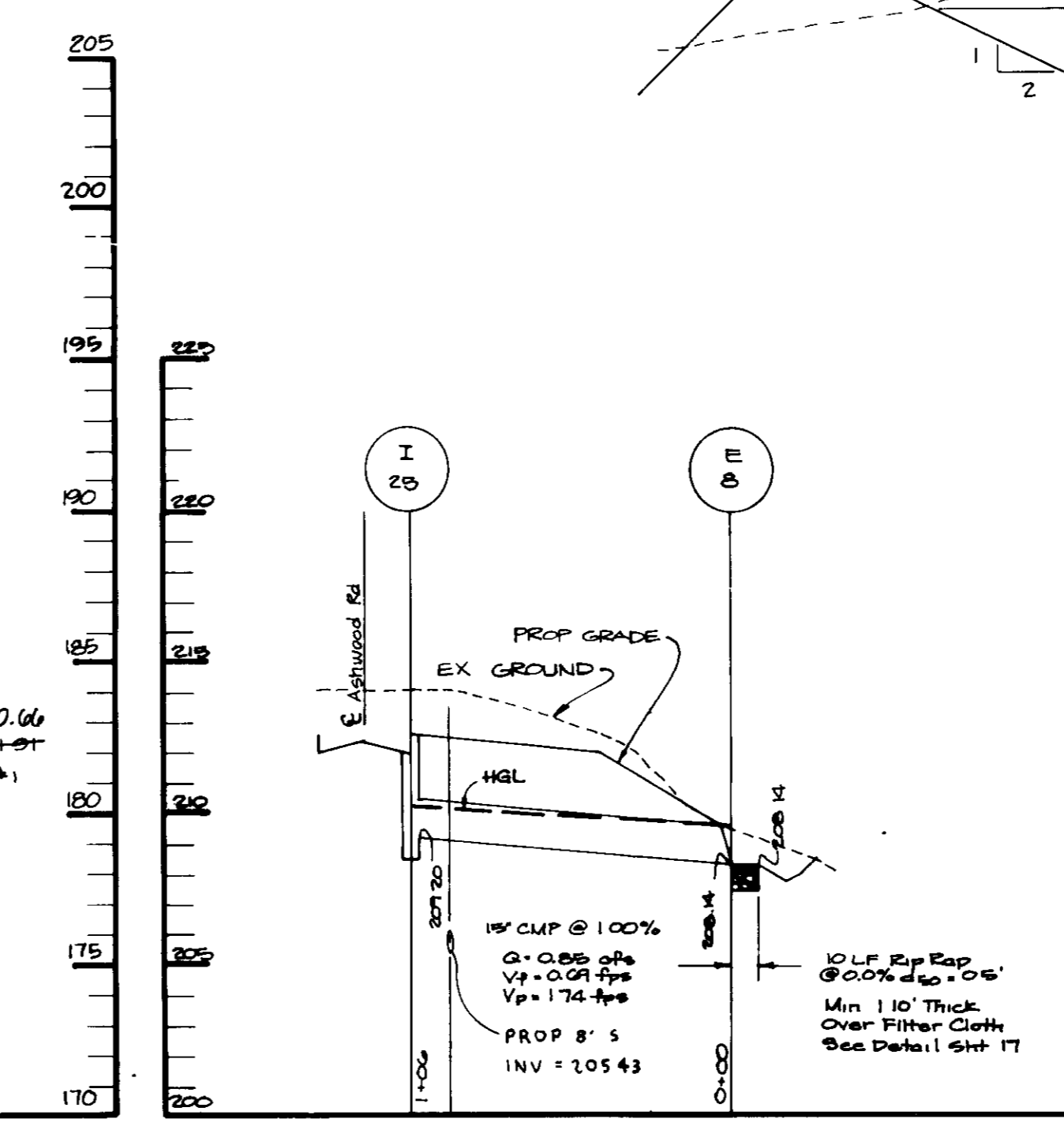
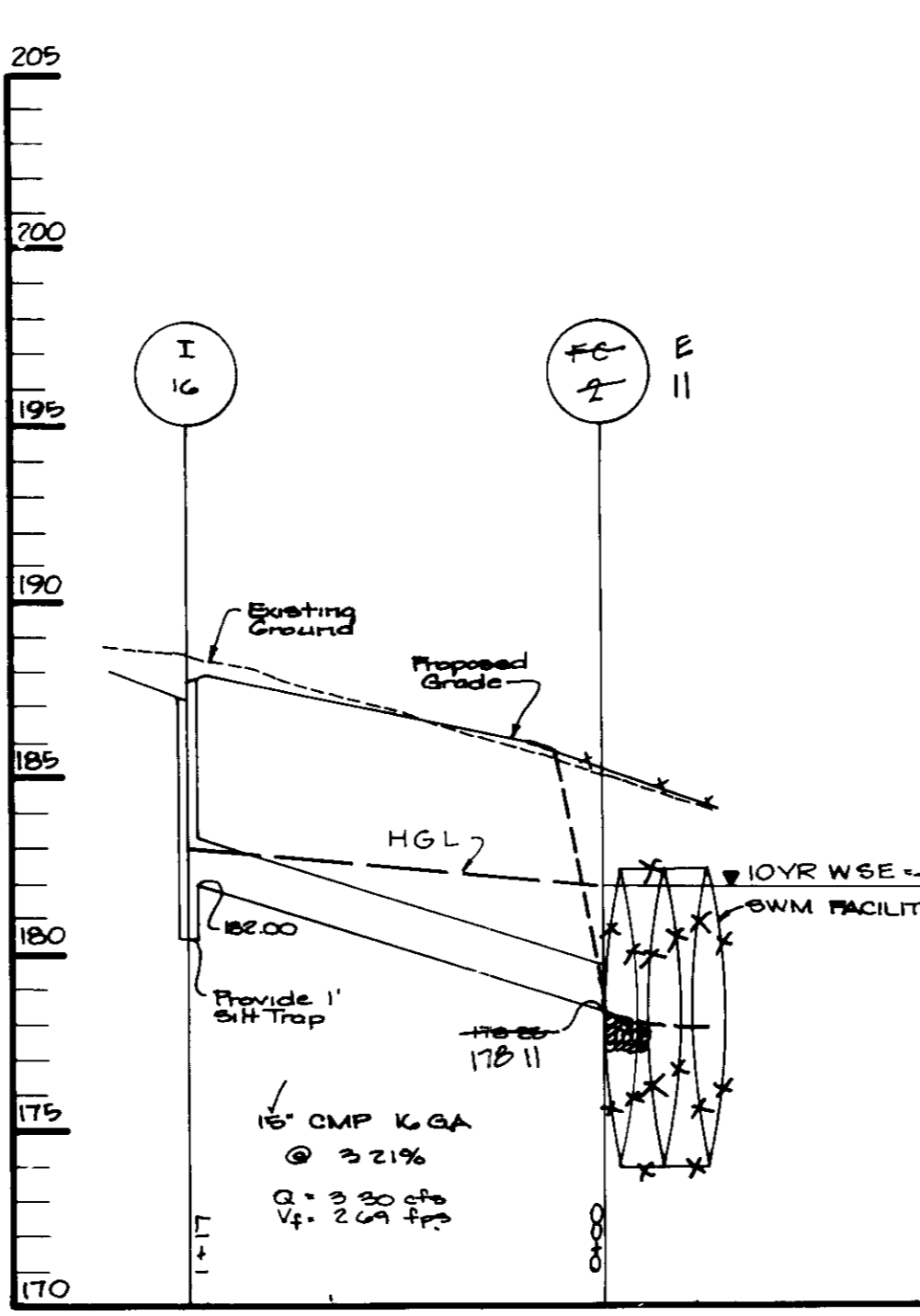
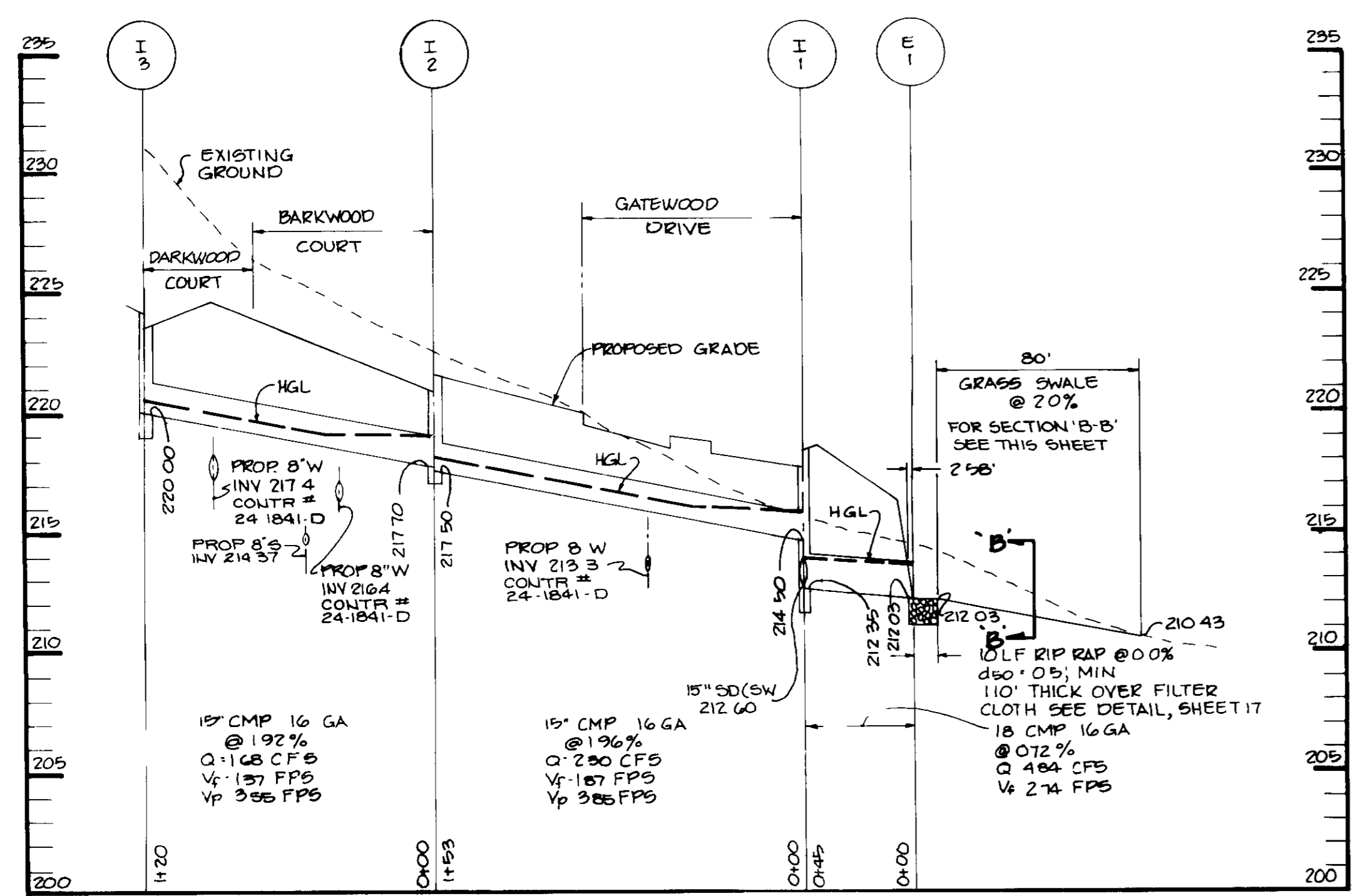
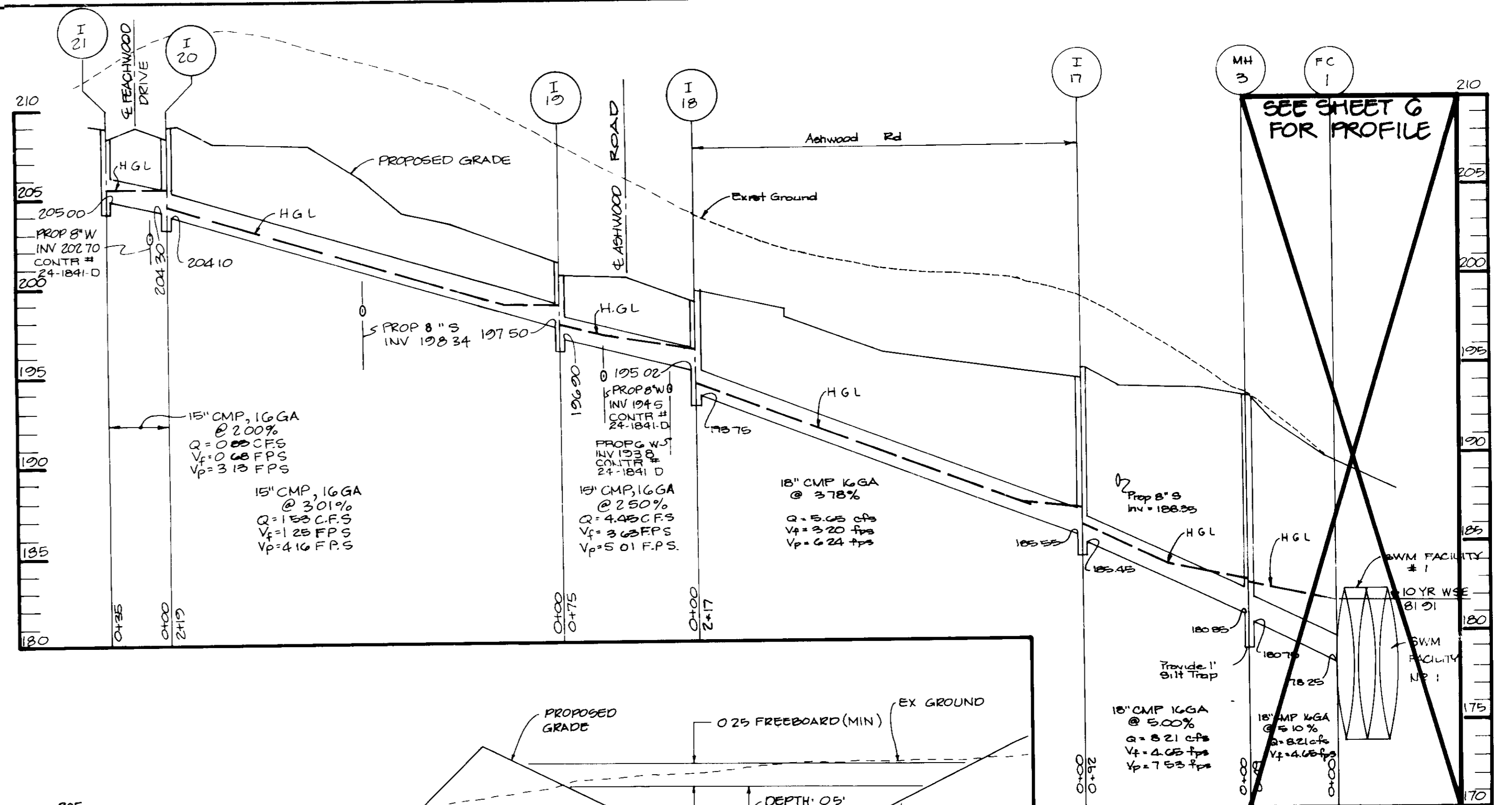
MATCH

MATCH

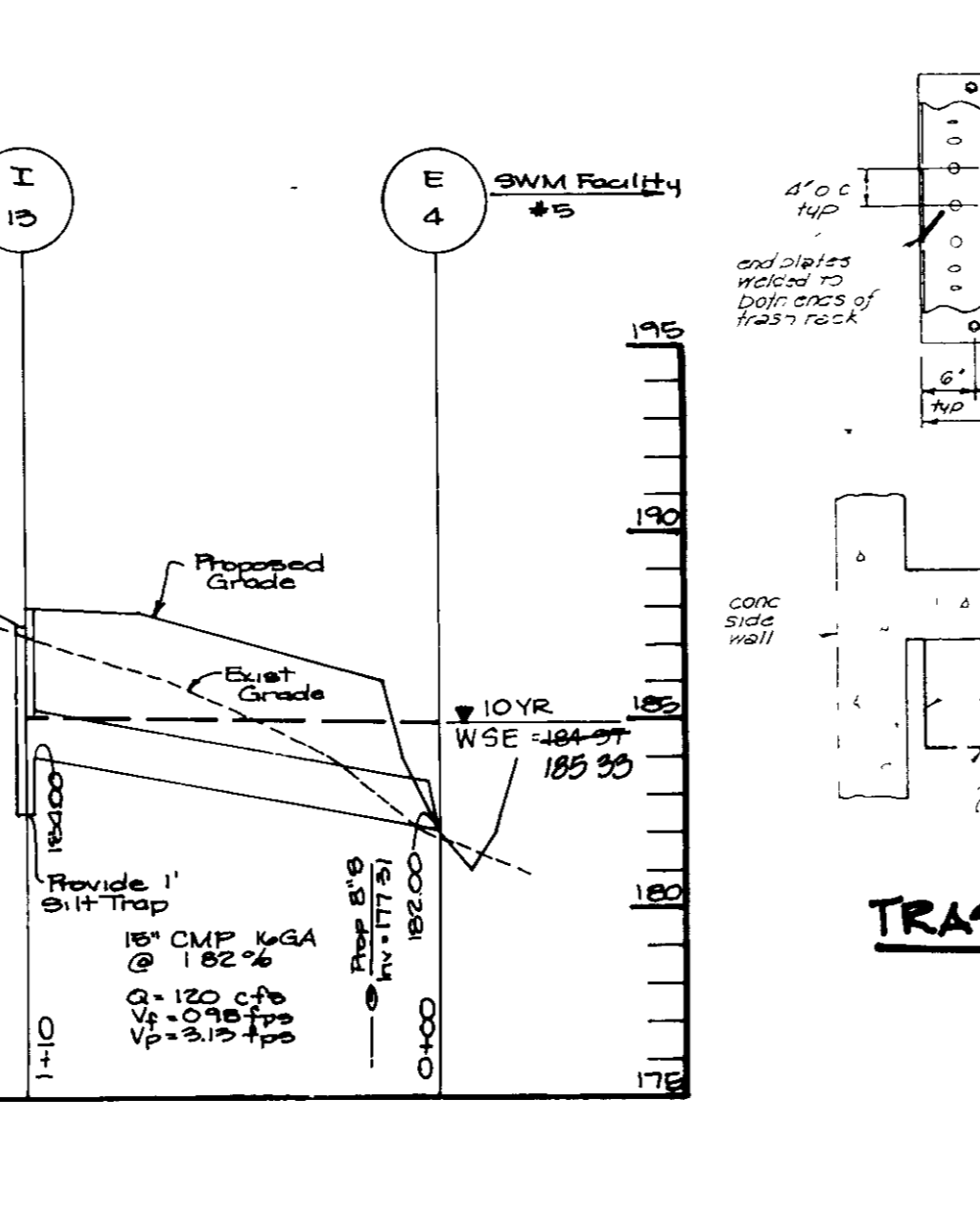
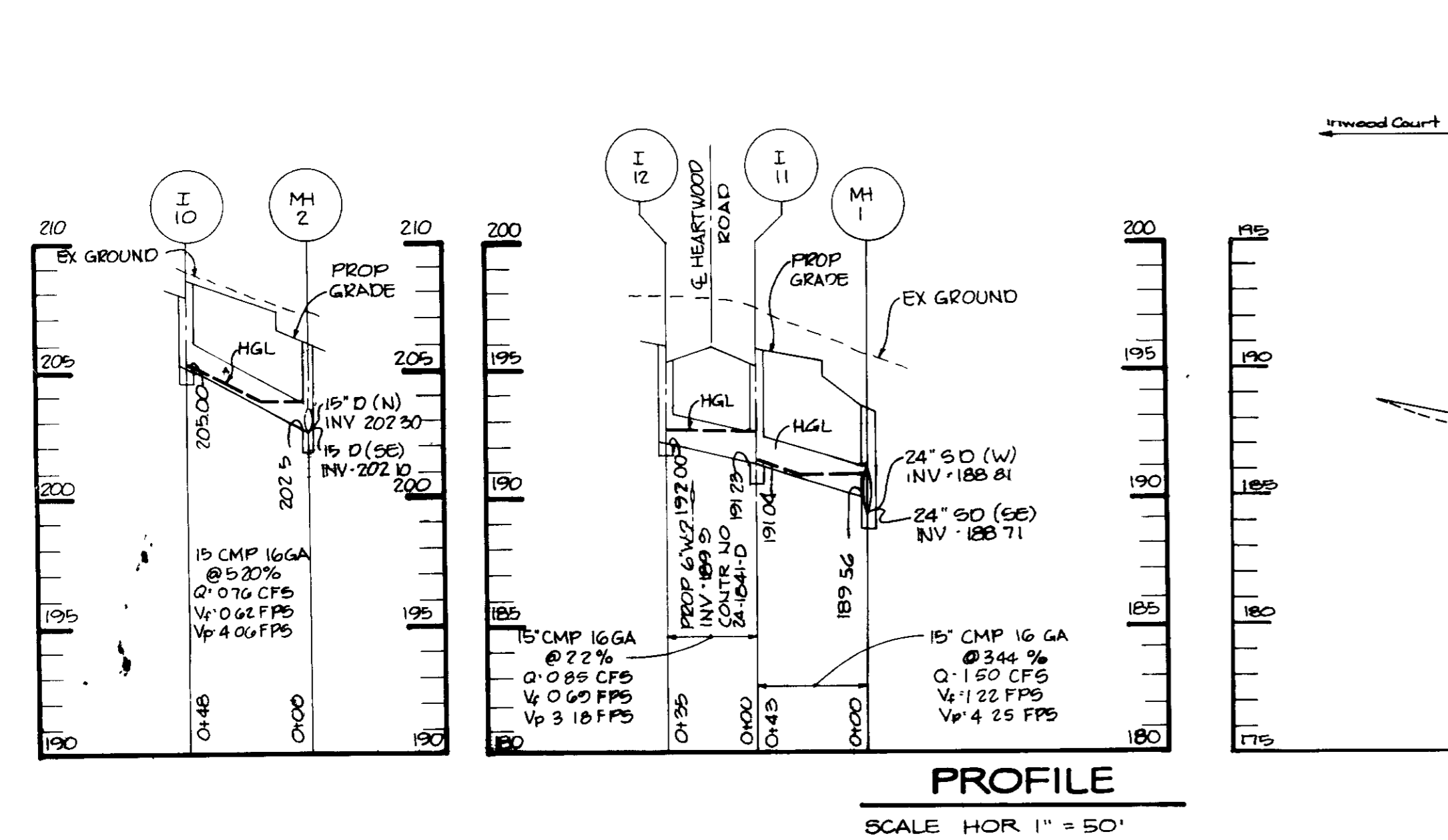




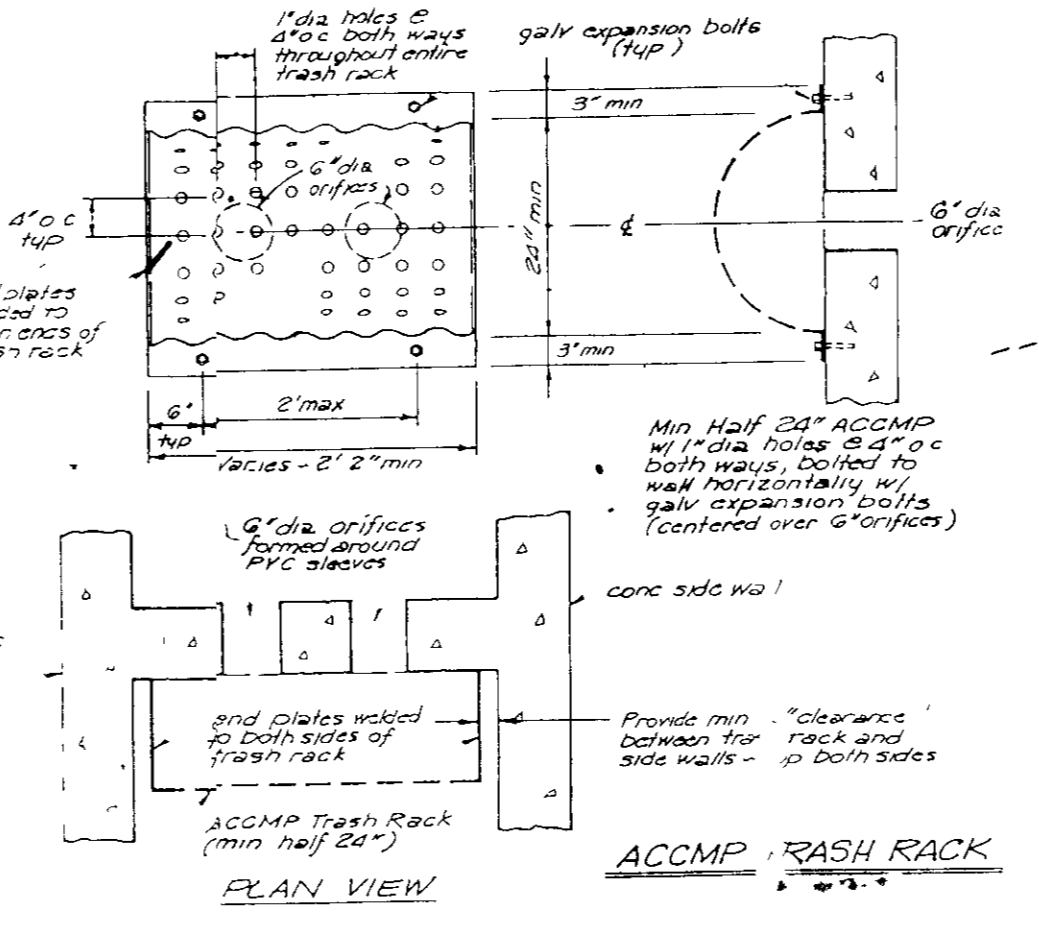
WATER QUALITY STRUCTURE I-14
1/4" SCALE



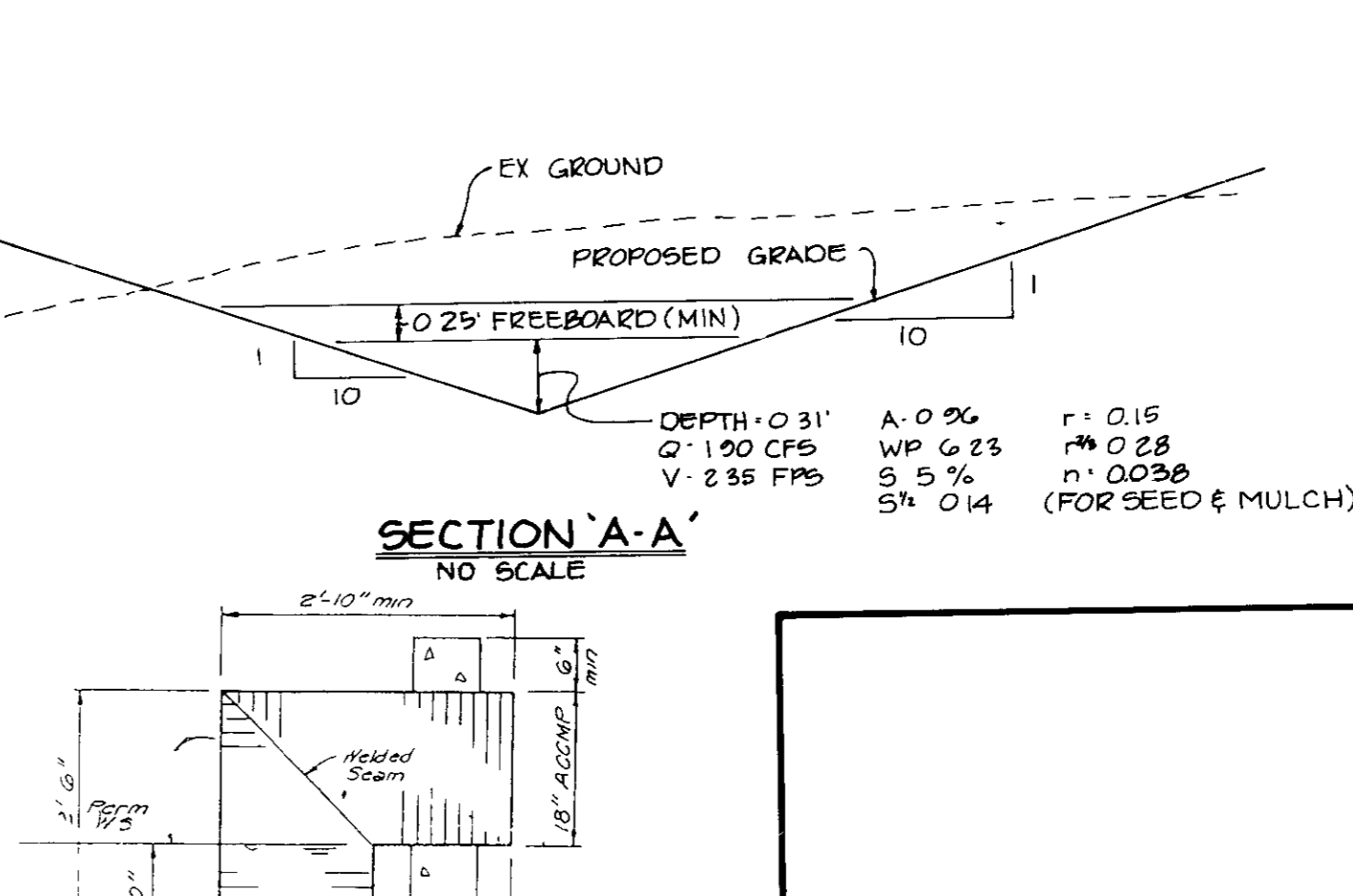
SECTION B-B
NO SCALE



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



TRASH RACK I-14
NO SCALE

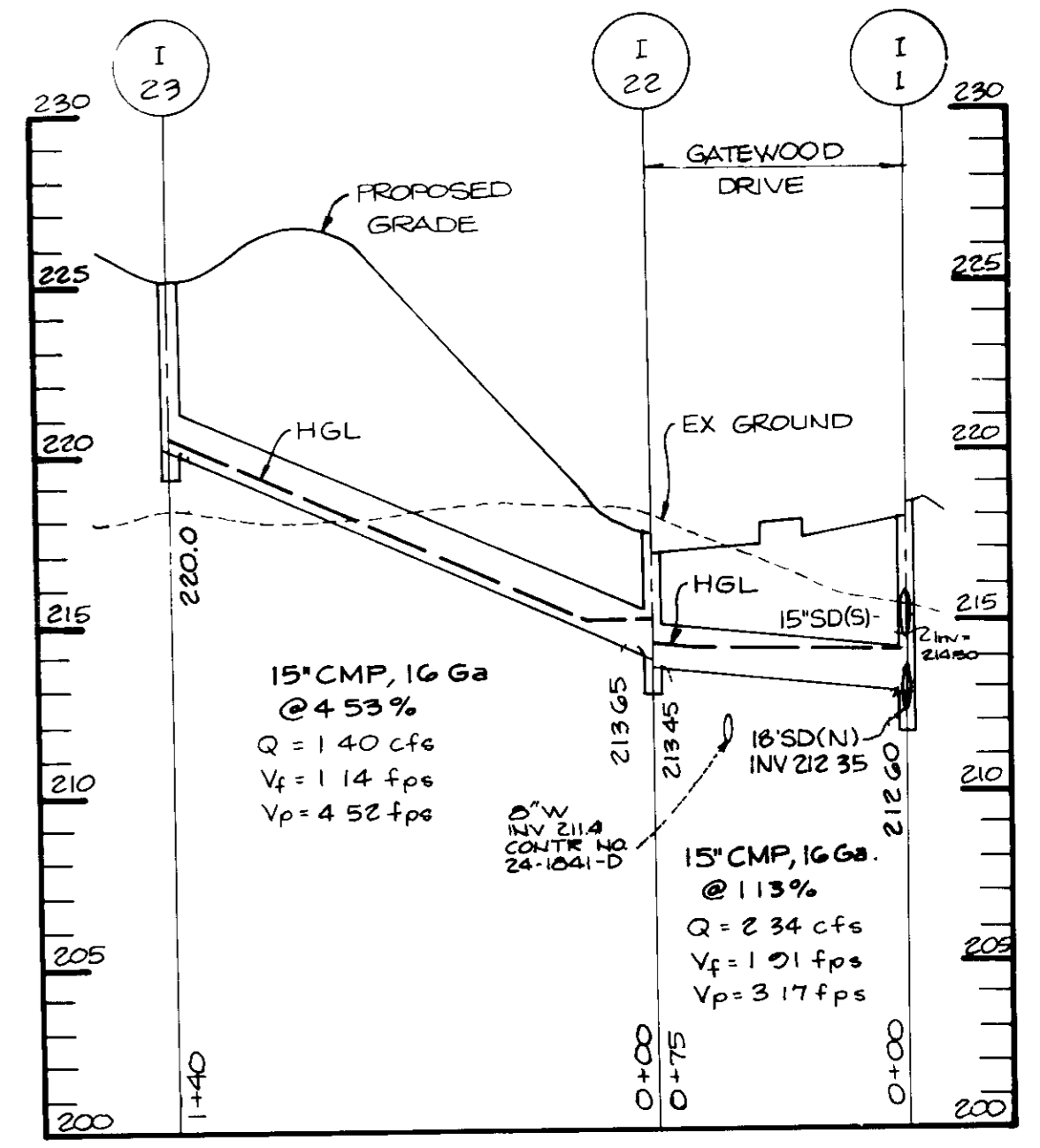
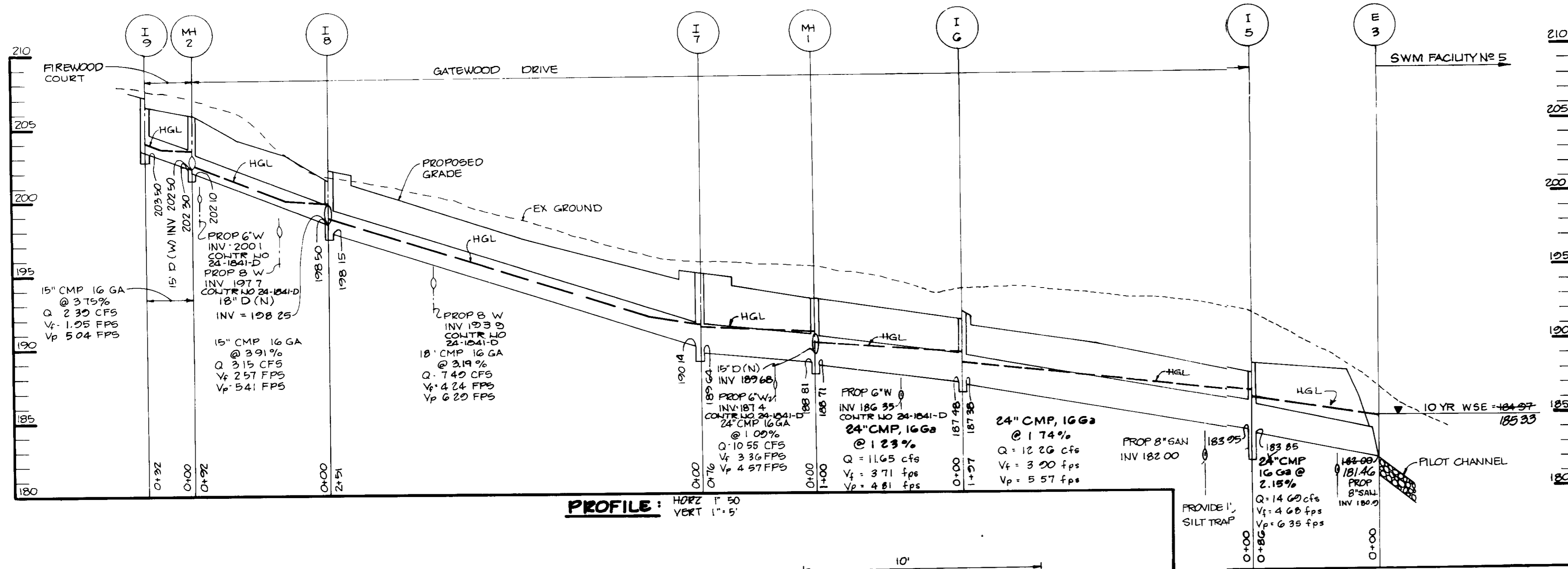


20° ELBOW I-14
NO SCALE

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT	<i>[Signature]</i> 3/12/91 DATE
APPROVED, HOWARD COUNTY DEPT OF PLANNING AND ZONING	<i>[Signature]</i> 3/25/91 DATE
APPROVED FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS	<i>[Signature]</i> 3/25/91 DATE
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS	<i>[Signature]</i> 3/5/91 DATE
CHIEF, BUREAU OF ENGINEERING	<i>[Signature]</i> 3/11/91 DATE
DATE NO REVISION	

OWNER / DEVELOPER	DENNIS MOBILE HOME PARK, INC 835 WASHINGTON BOULEVARD JESSUP, MARYLAND 20794
PROJECT	PARCEL A BRENTWOOD MANOR (FORMERLY DENNIS MOBILE HOME PARK)
AREA	TAX MAP 43 PARCEL 232,504 6 TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
TITLE	STORM DRAIN PROFILES

DATE	12.3.90
DESIGNED BY	M.C.M.
DRAWN BY	D.V.P.
PROJECT NO	27802
DATE	JUNE, 1990
SCALE	HORZ 1"=50' VERT 1"=5'
DRAWING NO	16 OF 26

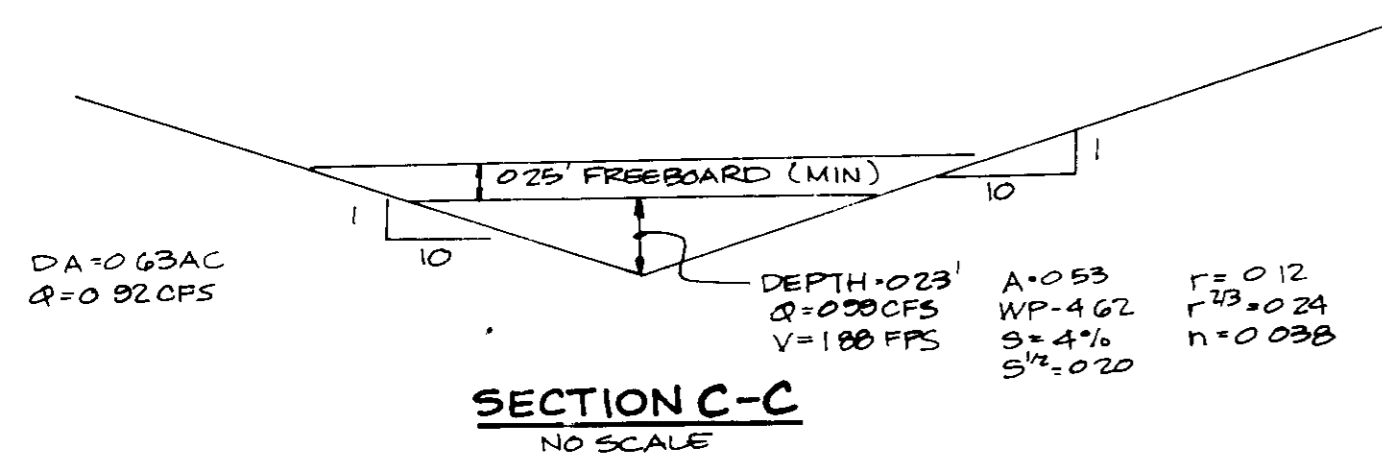


PROFILE: HORIZ 1" = 50'
VERT 1" = 5'

PROFILE: HORIZ 1" = 50'
VERT 1" = 5'

SWALE 1

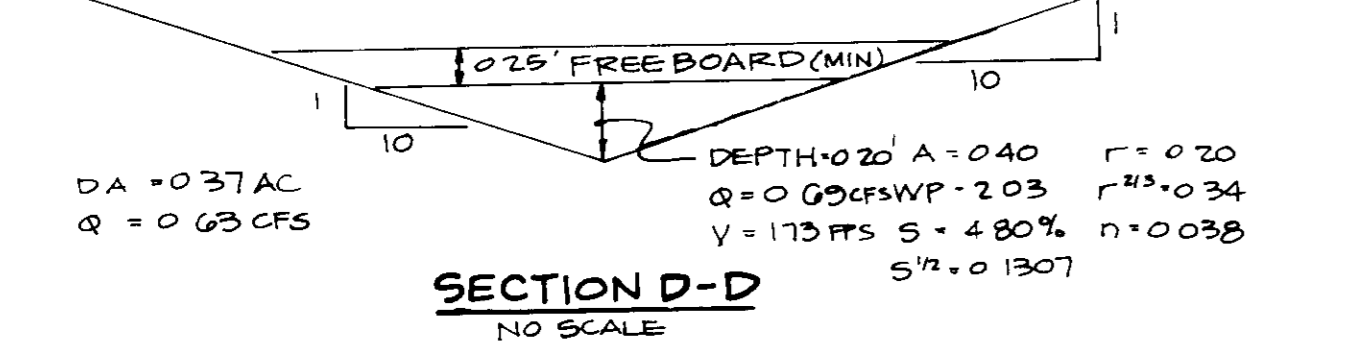
SWALE BETWEEN LOTS 41 AND 26



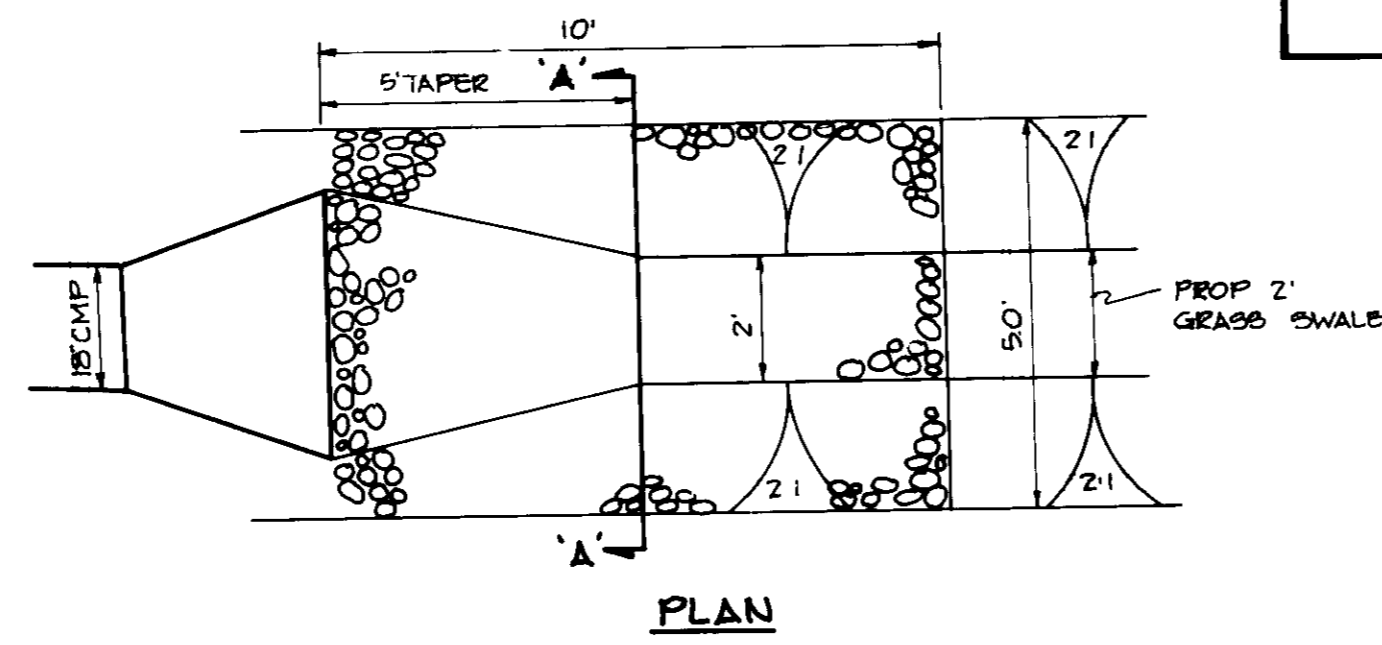
SECTION C-C
NO SCALE

SWALE 2

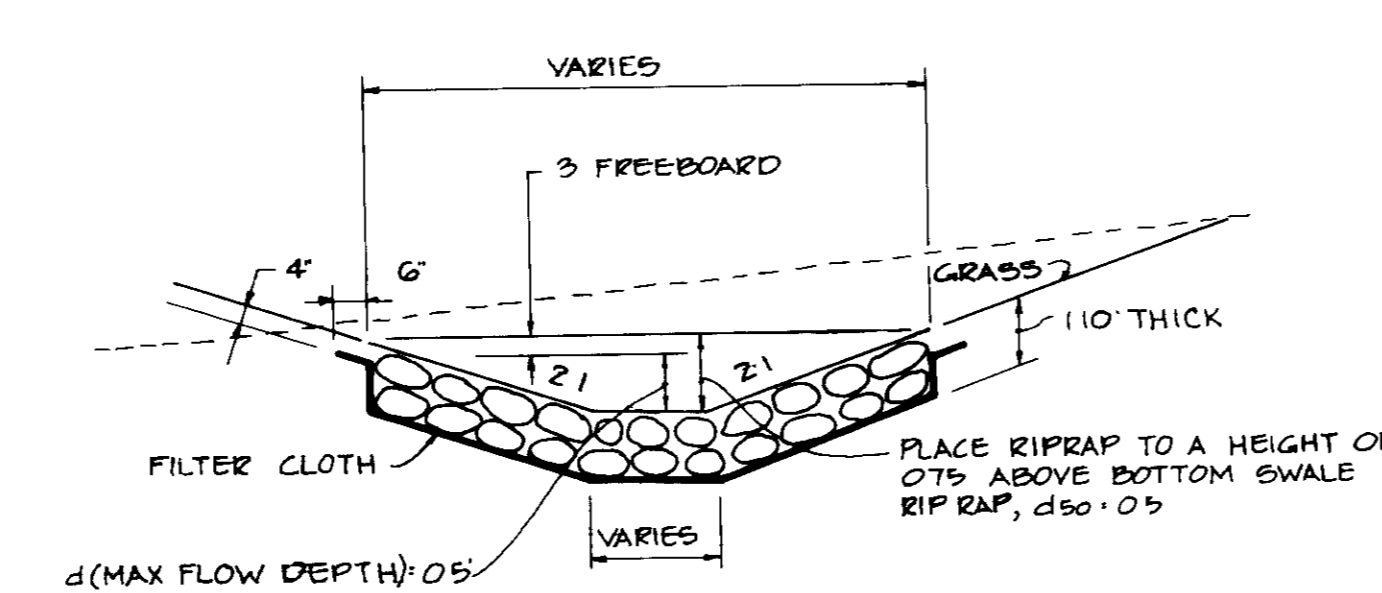
SWALE BETWEEN LOTS 117 AND 80



SECTION D-D
NO SCALE



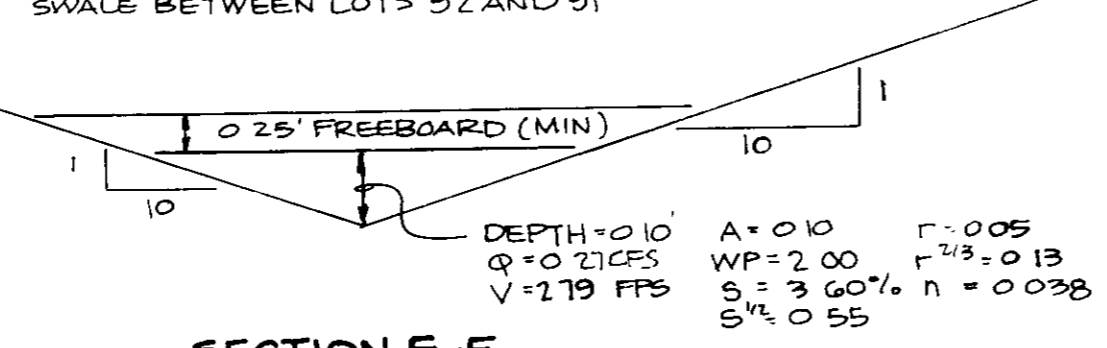
PLAN



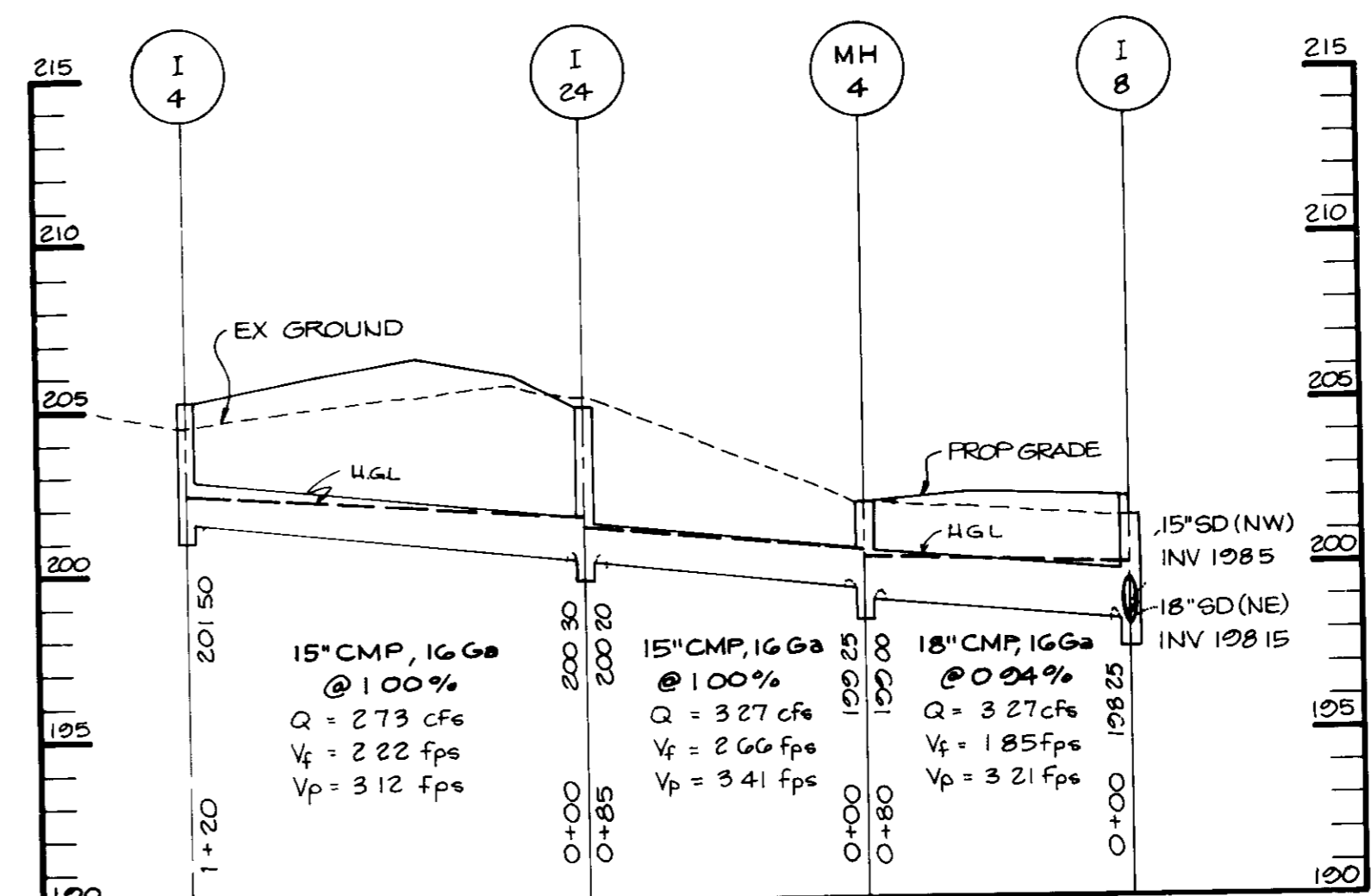
SECTION A-A
RIPRAP OUTLET PROTECTION @ E 1
NO SCALE

SWALE 3

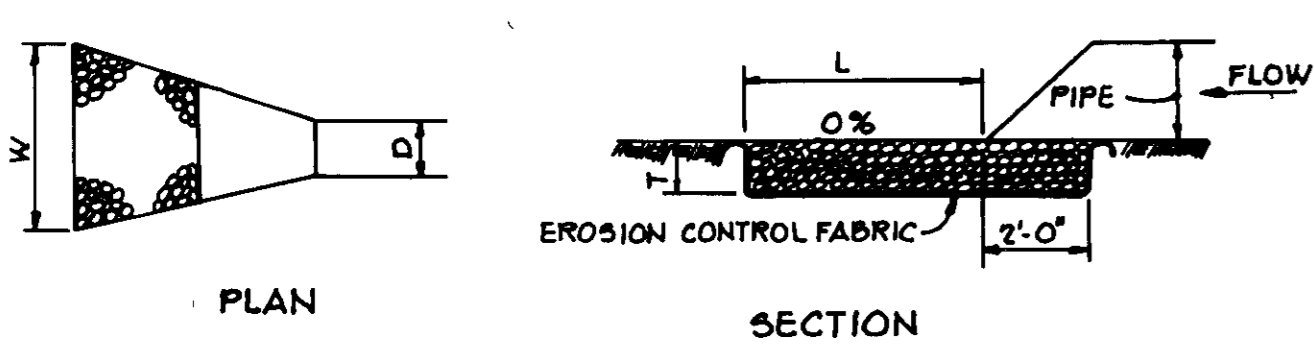
SWALE BETWEEN LOTS 92 AND 91



SECTION E-E
NO SCALE



PROFILE: HORIZ 1" = 50'
VERT 1" = 5'



STRUCTURE	MEDIUM STONE DIA.	LENGTH (L)	WIDTH (W)	THICKNESS (T)	PIPE DIA.
E 2	06	20'	23' 50"	110'	15"
E 5	05	10	11' 25"	110'	15"
E 8	05	10	11' 25"	110'	15"
E 9	05	10	12' 0"	110'	15"

RIPRAP OUTLET PROTECTION @ E 2
E-5, E-8, E-9
NO SCALE

AS BUILT CERTIFICATE

JAYKANT D. PAREKH #191408 DATE

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

Jaykant D. Parekh COUNTY HEALTH OFFICER 3/12/91 DATE

APPROVED HOWARD COUNTY DEPT OF PLANNING AND ZONING.

James R. Smith DIRECTOR 3/25/91 DATE

Mark W. Wright CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT 4/15/91 DATE

APPROVED FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.

HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

James R. Smith DIRECTOR 3/25/91 DATE

Brian D. Ryan CHIEF, BUREAU OF ENGINEERING 3-1-91 DATE

DATE NO REVISION

OWNER/DEVELOPER

DENNIS MOBILE HOME PARK, INC
8215 WASHINGTON BOULEVARD
JESSUP, MARYLAND 20794

PROJECT PARCEL A
BRENTWOOD MANOR
(FORMERLY DENNIS MOBILE HOME PARK)

AREA TAX MAP 43 PARCEL 232,504
6TH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

TITLE
STORM DRAIN PROFILES & DETAILS

RIEMER MUEGGE & ASSOCIATES, INC
A Land Planning, Engineering and Consulting Firm
3105 North Ridge Road Ellicott City, Maryland 21043
301-461-2690 FAX 301-750-3176

DATE 10.3.90

DESIGNED BY J.J.B., M.C.M.

DRAWN BY O.V.P.

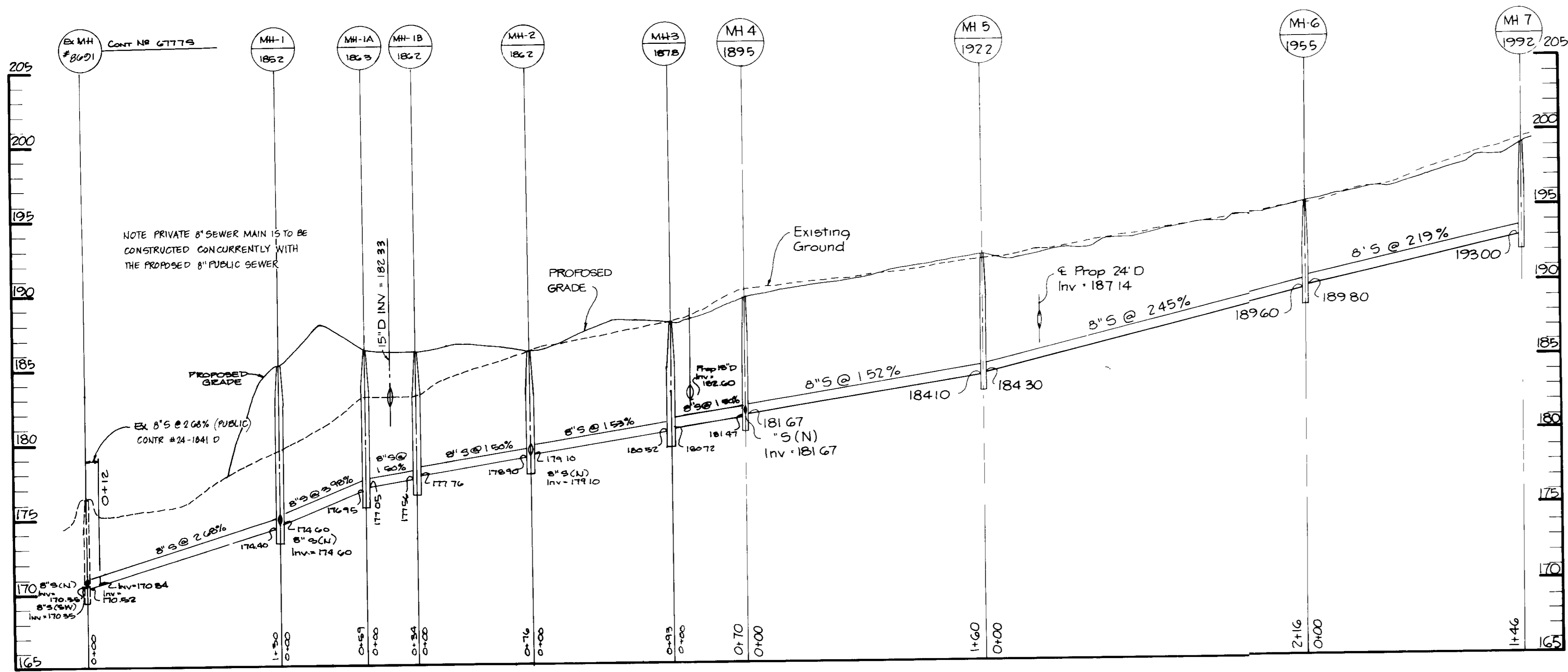
PROJECT NO 27802

DATE FEBRUARY 16, 1988

SCALE AS SHOWN

DRAWING NO 17 OF 28

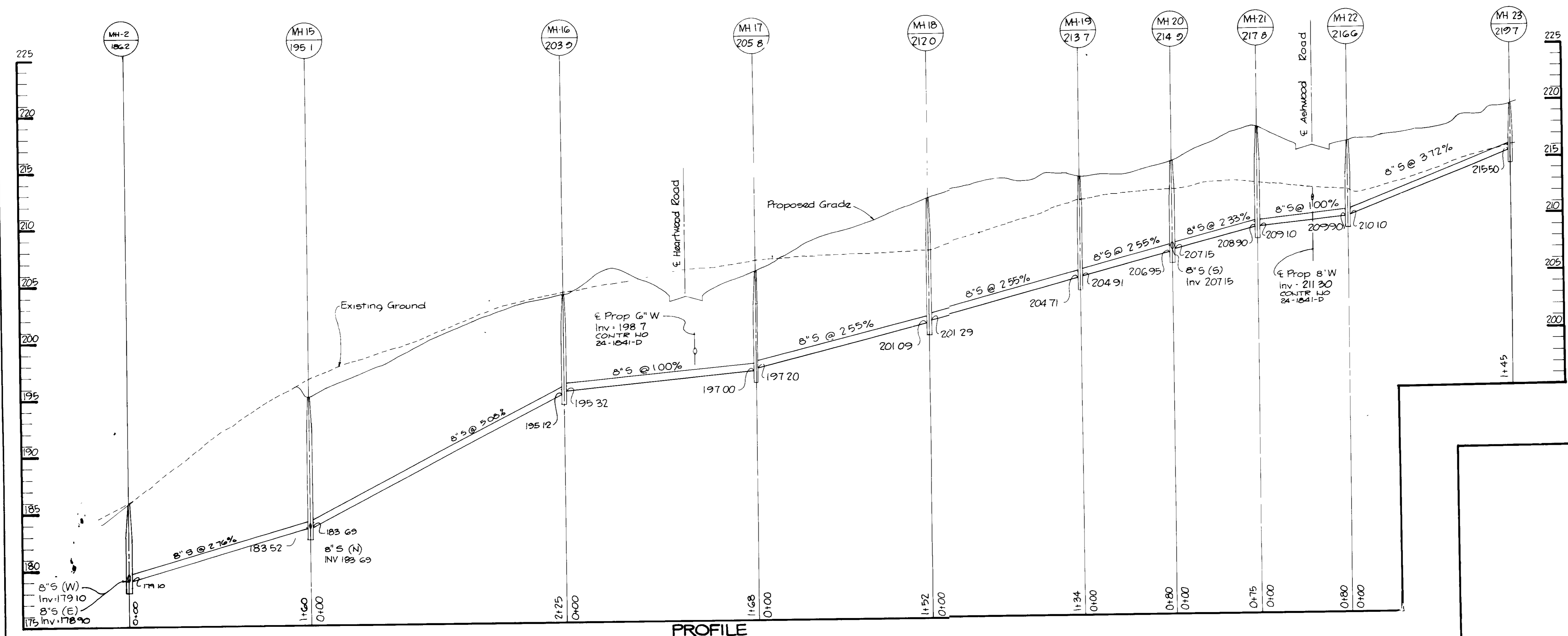
ARTHUR E. MUEGGE #5107



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

SEWER MANHOLE TABLE

NO.	RIM ELEV.	NO.	RIM ELEV.
1	185.20	27	198.70
2	186.20	28	205.80
3	187.80	29	207.80
4	189.50	30	211.50
5	192.20	31	213.00
6	195.50	32	201.70
7	199.20	33	207.50
8	189.80	34	211.00
9	191.50	35	211.60
10	195.50	36	188.30
11	202.00	37	188.02
12	207.00	38	188.70
13	209.80	39	200.70
14	218.80	40	201.80
15	195.10	41	209.80
16	203.90	42	216.00
17	205.80	43	226.00
18	212.00	44	236.80
19	213.70	45	227.60
20	214.90	46	207.80
21	217.80	47	209.40
22	216.80	48	213.70
23	219.70	49	220.00
24	214.00	50	223.12
25	192.40	51	230.60
26	192.20	52	231.00



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

AS BUILT CERTIFICATE

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

APPROVED: HOWARD COUNTY DEPT OF PLANNING AND ZONING

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

DATE NO REVISION

OWNER/DEVELOPER
DENNIS MOBILE HOME PARK, INC
8315 WASHINGTON BOULEVARD
JESSUP, MARYLAND 20794

PROJECT
PARCEL A
BRENTWOOD MANOR
(FORMERLY DENNIS MOBILE HOME PARK)

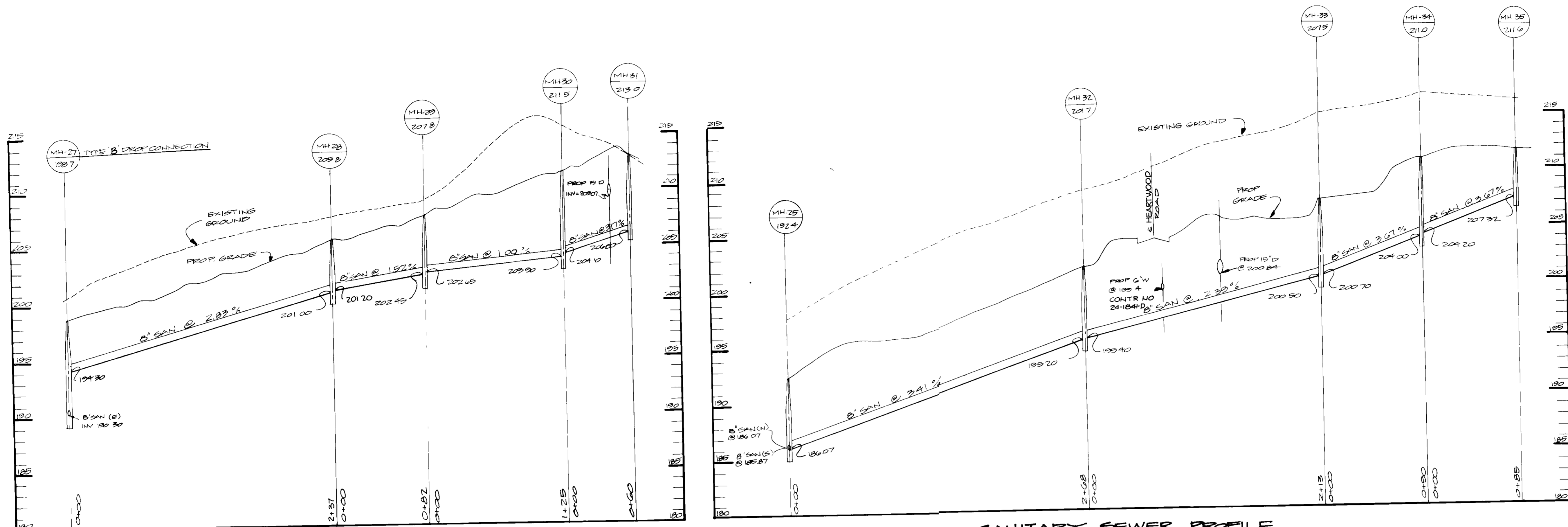
AREA TAX MAP 43 PARCELS 232, 504
6TH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

TITLE
SANITARY SEWER PROFILES

RIEMER MUEGGE & ASSOCIATES, INC
A Land Planning, Engineering and Consulting Firm
3105 North Ridge Road Ellicott City, Maryland 21043
301-461-2690 FAX 301-750-3176

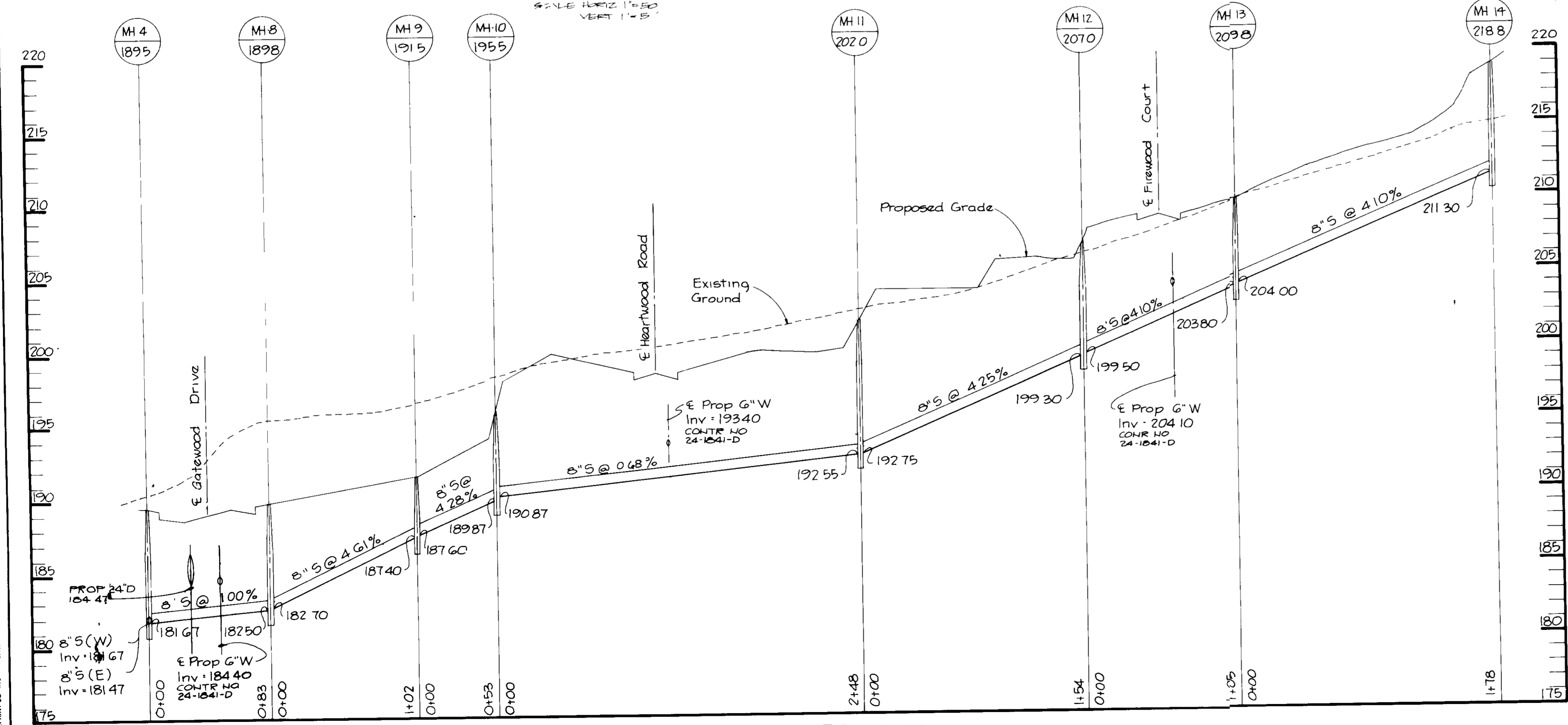
DATE 12.3.90

DESIGNED BY MCM
DRAWN BY OVP
PROJECT NO 27802
DATE FEBRUARY 16, 1988
SCALE HORZ 1"=50', VERT 1"=5'
DRAWING NO 18 OF 28



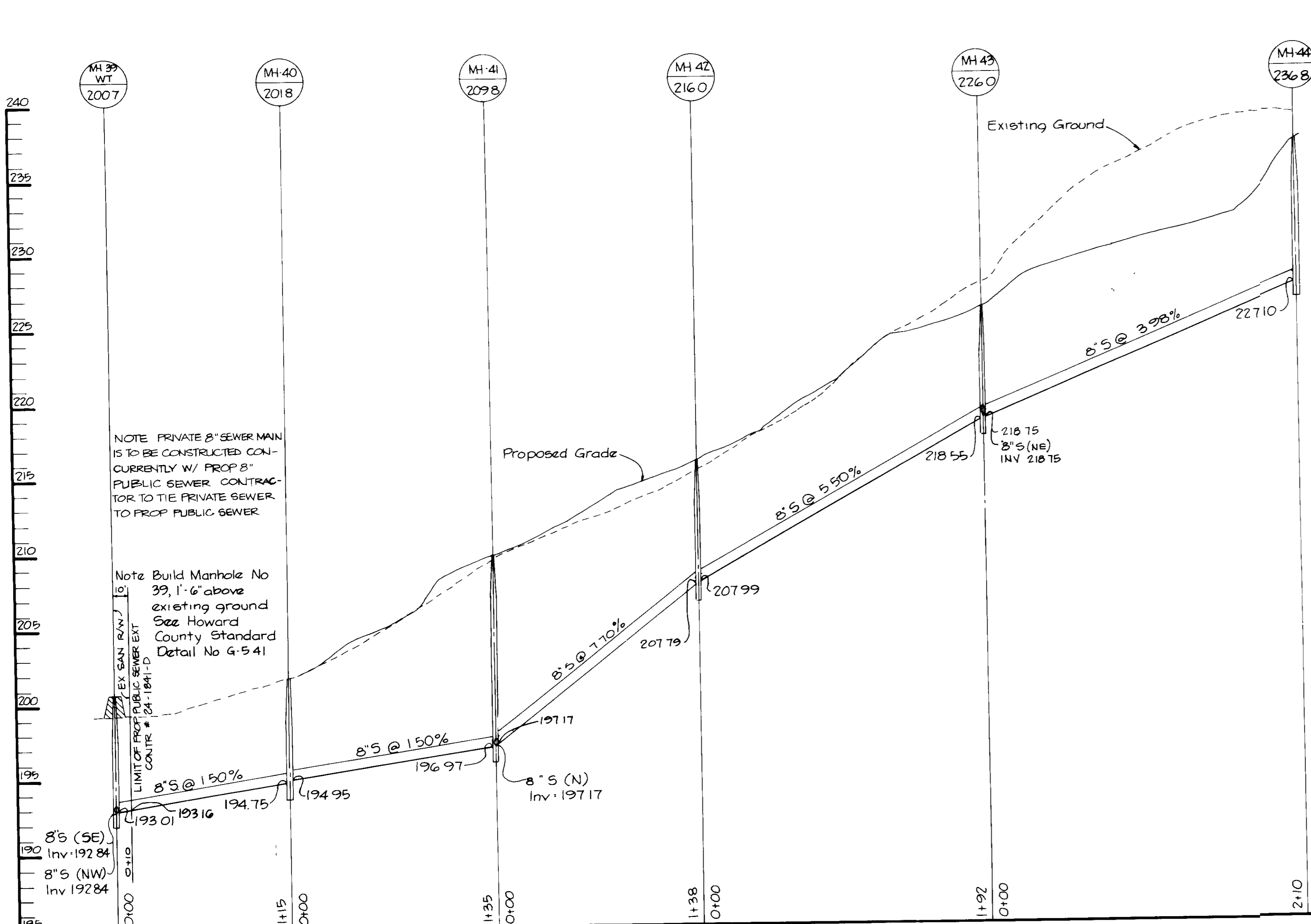
SANITARY SEWER PROFILE

SANITARY SEWER PROFILE

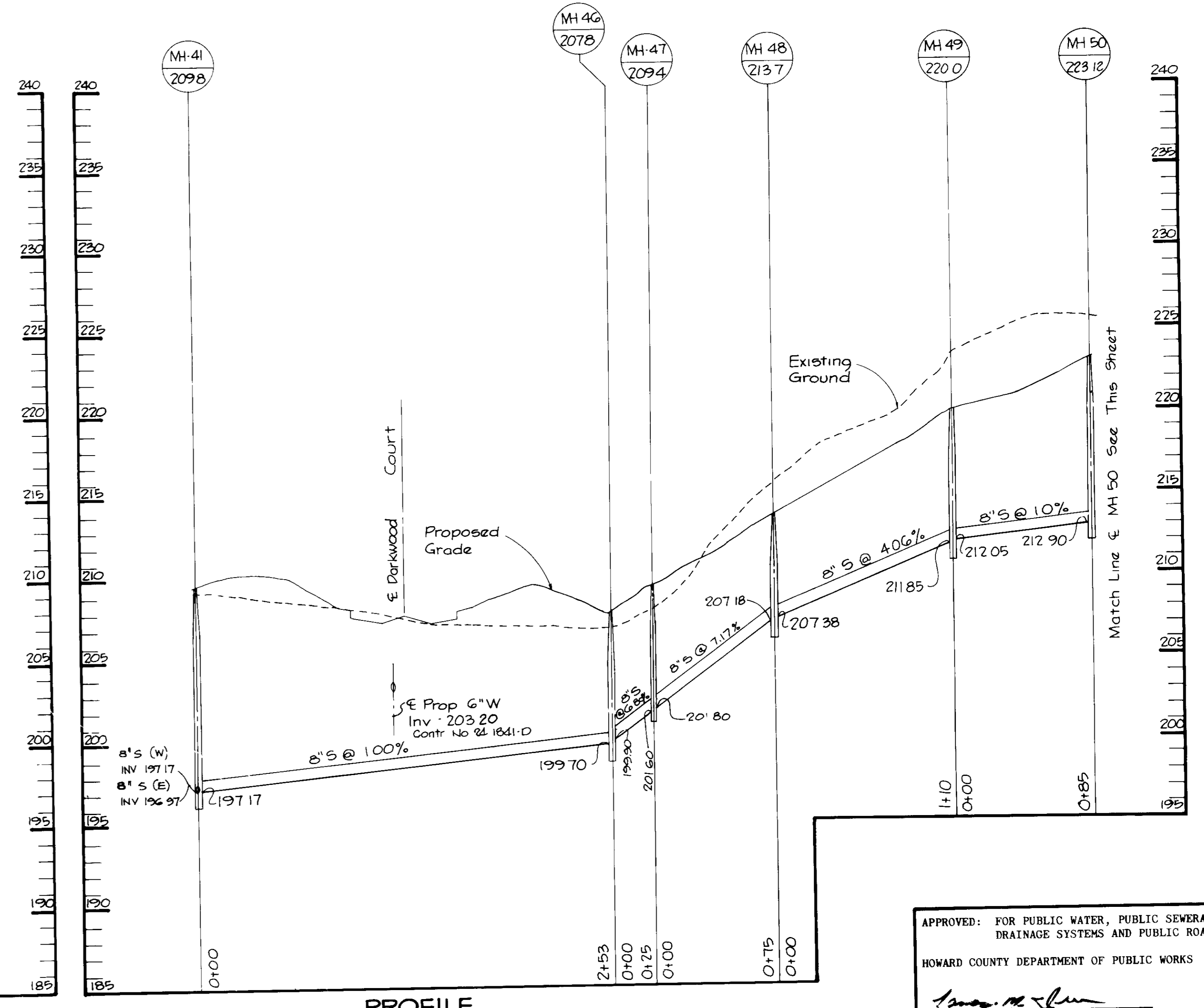


SANITARY SEWER PROFILE

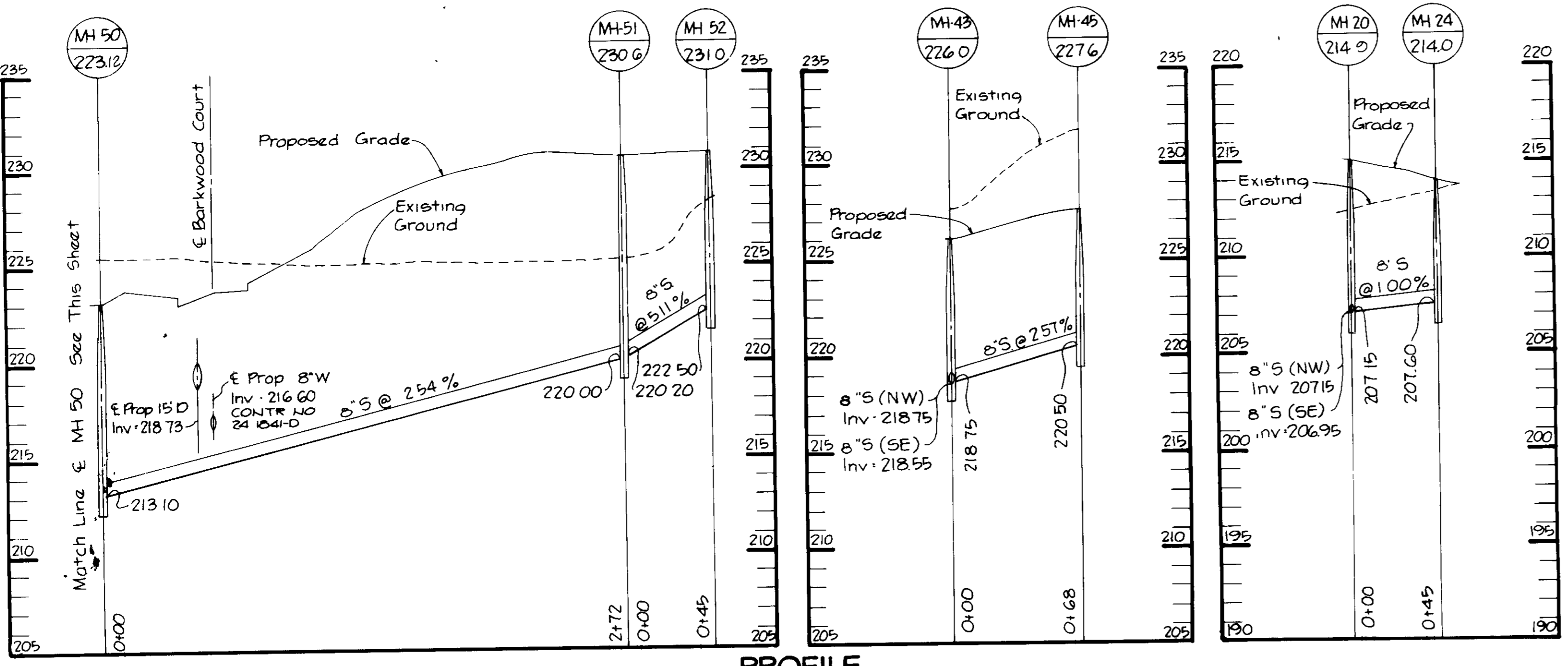
AS BUILT CERTIFICATE	
ARTHUR E. MUEGGE #6707	DATE
APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT	
<i>John W. Borden</i> COUNTY HEALTH OFFICER	3/12/91 DATE
APPROVED: HOWARD COUNTY DEPT OF PLANNING AND ZONING.	
<i>James S. Smith</i> DIRECTOR	3/25/91 DATE
<i>Mark J. D. Coughlin</i> CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT	3/25/91 DATE
APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS. HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS	
<i>James P. Shaw</i> DIRECTOR	3/25/91 DATE
<i>Arthur E. Muegge</i> CHIEF, BUREAU OF ENGINEERING	3-12-91 DATE
110102 REVISED STRUCTURE TYPE CONNECTION	REVISION
OWNER/DEVELOPER	
DENNIS MOBILE HOME PARK, INC 8315 WASHINGTON BOULEVARD JESSUP, MARYLAND 20794	
PROJECT PARCEL A BRENTWOOD MANOR (FORMERLY DENNIS MOBILE HOME PARK)	
AREA TAX MAP 43 PARCELS 282, 504 GTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND	
TITLE SANITARY SEWER PROFILES	
RIEMER MUEGGE & ASSOCIATES, INC A Land Planning, Engineering and Consulting Firm 3105 North Ridge Road Ellicott City, Maryland 21043 301-461-2690 FAX 301-750-3176	
12.3.90 DATE	S-06-09, V.P. 06-126, V.P. 01-15 V.P. 07-48, V.P. 00-22, V.P. 00-242
DESIGNED BY MCM	
DRAWN BY DVP	
PROJECT NO 27602	
DATE FEBRUARY 16, 1988	
SCALE HORIZ 1"=50, VERT 1"=5'	
<i>Arthur E. Muegge</i> ARTHUR E. MUEGGE #6707	DRAWING NO 19 OF 28



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



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



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

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
James M. ... 3.5.91
DIRECTOR DATE
William E. Muegge 3.1.91
CHIEF, BUREAU OF ENGINEERING DATE

1/2/92 1 ADDED 8" S TO PROFILE
DATE NO REVISION

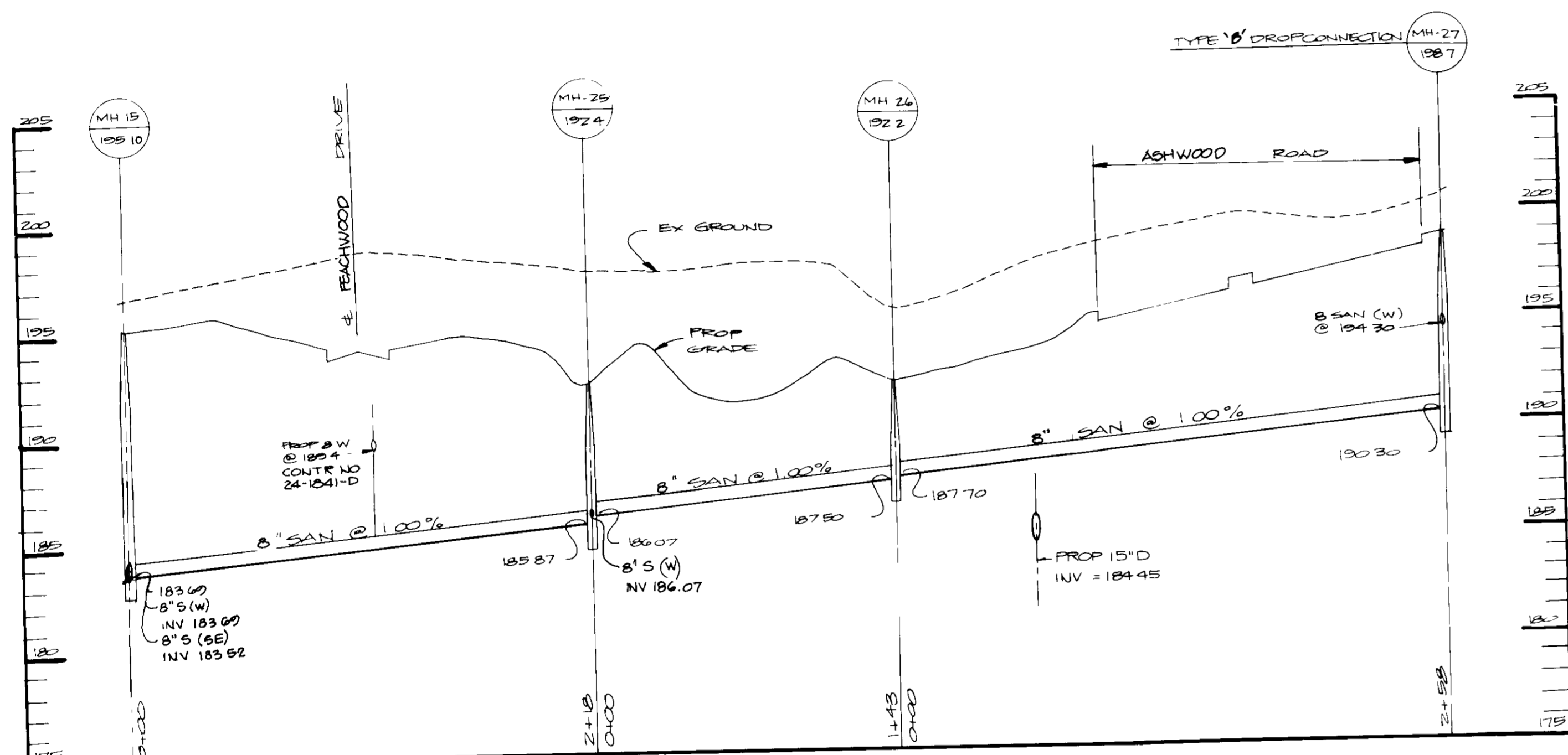
APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT
Joseph ... 7/14/91
COUNTY HEALTH OFFICER DATE
APPROVED: HOWARD COUNTY DEPT OF PLANNING AND ZONING.
Joseph ... 3/21/91
DIRECTOR DATE
William E. Muegge 4/20/91
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT DATE

OWNER/DEVELOPER
DENNIS MOBILE HOME PARK, INC
8315 WASHINGTON BOULEVARD
JESSUP, MARYLAND 20794
PROJECT
PARCEL A
BRENTWOOD MANOR
(FORMERLY DENNIS MOBILE HOME PARK)
AREA TAX MAP 43 PARCELS 232,504
GTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
TITLE
SANITARY SEWER PROFILES

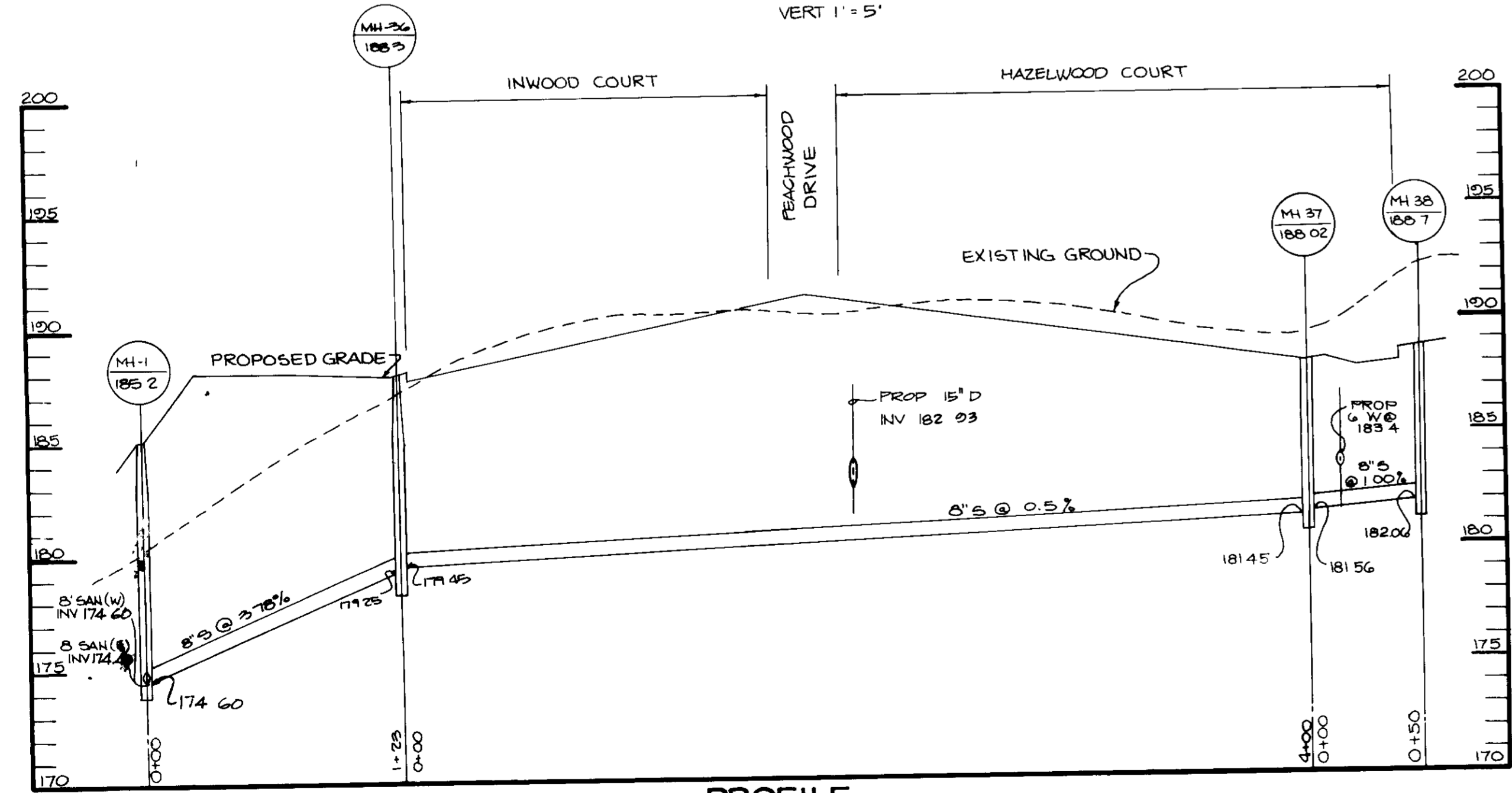
RIEMER MUEGGE & ASSOCIATES, INC
A Land Planning, Engineering and Consulting Firm
3105 North Ridge Road Elkport City, Maryland 21043
301-461-2690 FAX 301-750-3176

12.3.90
DATE
DESIGNED BY MCM
DRAWN BY DVP
PROJECT NO 27802
DATE JULIE 1988
SCALE HORZ 1" = 50 VERT 1" = 5
DRAWING NO 20 OF 20

AS BUILT CERTIFICATE
ARTHUR E. MUEGGE #8707
DATE

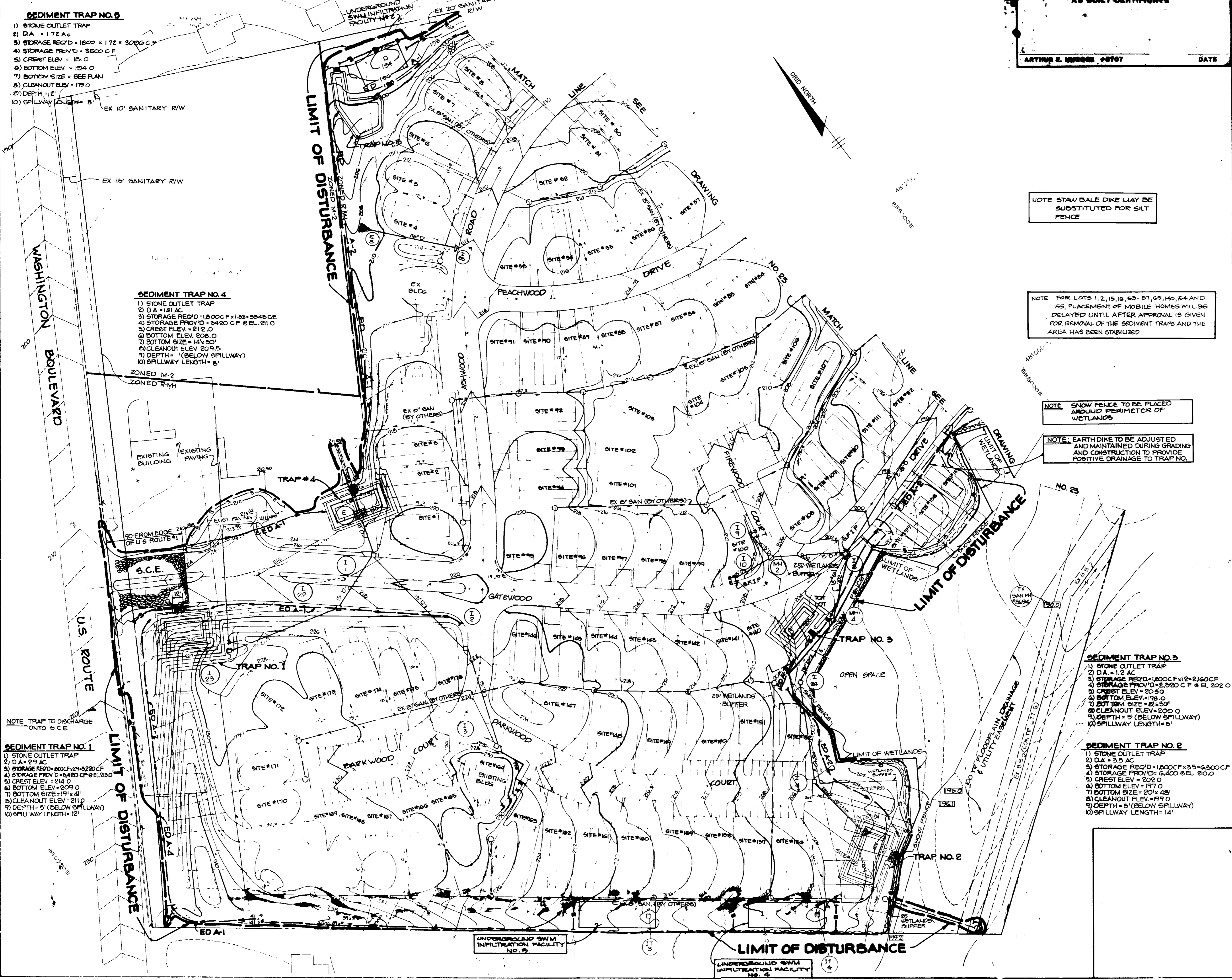


PROFILE
SCALE HOR 1" = 50' VERT 1" = 5'



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

AS BUILT CERTIFICATE	
APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS. HOWARD COUNTY HEALTH DEPARTMENT	DATE
ARTHUR E. MUEGGE #8707	3/12/91
<i>Joseph P. ...</i> COUNTY HEALTH OFFICER	DATE
APPROVED. HOWARD COUNTY DEPT OF PLANNING AND ZONING	DATE
<i>James ...</i> DIRECTOR	3/15/91
<i>Mark ...</i> CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT	DATE
APPROVED FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS	DATE
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS	DATE
<i>James ...</i> DIRECTOR	3/15/91
<i>William ...</i> CHIEF, BUREAU OF ENGINEERING	DATE
11/02 REVISION	REVISION
DATE	NO
OWNER/DEVELOPER	
DENNIS MOBILE HOME PARK, INC. 8315 WASHINGTON BOULEVARD JESSUP, MARYLAND 20794	
PROJECT	
PARCEL A BRENTWOOD MANOR (FORMERLY DENNIS MOBILE HOME PARK)	
AREA TAX MAP 43 PARCELS 232, 504 6TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND	
TITLE	
SANITARY SEWER PROFILES	
RIEMER MUEGGE & ASSOCIATES, INC. A Land Planning, Engineering and Consulting Firm 3105 North Ridge Road Ellicott City, Maryland 21043 301-461-2690 FAX 301-750-3176	
12.2.90 DATE	DATE
<i>Arthur E. Muegge</i> ARTHUR E. MUEGGE #8707	DESIGNED BY MCM
	DRAWN BY DVF
	PROJECT NO 27802
	DATE JUNE 1989
	SCALE HORZ 1"=50' VERT 1"=5'
	DRAWING NO 21 OF 20



SEDIMENT TRAP NO. 5
 1) STONE OUTLET TRAP
 2) D.A. = 172 AC
 3) STORAGE REQ'D = 1800' x 172' = 309600 CF
 4) STORAGE PROVIDED = 3500 CF
 5) CREST ELEV. = 184.0
 6) BOTTOM ELEV. = 194.0
 7) BOTTOM SIZE = SEE PLAN
 8) CLEANOUT ELEV. = 179.0
 9) DEPTH = 12'
 10) SPILLWAY LENGTH = 5'

SEDIMENT TRAP NO. 4
 1) STONE OUTLET TRAP
 2) D.A. = 191 AC
 3) STORAGE REQ'D = 18000 CF x 1.86 = 33480 CF
 4) STORAGE PROVIDED = 3420 CF @ EL. 211.0
 5) CREST ELEV. = 212.0
 6) BOTTOM ELEV. = 208.0
 7) BOTTOM SIZE = 14x50'
 8) CLEANOUT ELEV. = 209.5
 9) DEPTH = 11' (BELOW SPILLWAY)
 10) SPILLWAY LENGTH = 8'

SEDIMENT TRAP NO. 1
 1) STONE OUTLET TRAP
 2) D.A. = 29 AC
 3) STORAGE REQ'D = 18000 CF x 2.9 = 52200 CF
 4) STORAGE PROVIDED = 5480 CF @ EL. 215.0
 5) CREST ELEV. = 214.0
 6) BOTTOM ELEV. = 209.0
 7) BOTTOM SIZE = 19x40'
 8) CLEANOUT ELEV. = 211.0
 9) DEPTH = 5' (BELOW SPILLWAY)
 10) SPILLWAY LENGTH = 12'

SEDIMENT TRAP NO. 3
 1) STONE OUTLET TRAP
 2) D.A. = 1.2 AC
 3) STORAGE REQ'D = 18000 CF x 1.2 = 21600 CF
 4) STORAGE PROVIDED = 2320 CF @ EL. 202.0
 5) CREST ELEV. = 205.0
 6) BOTTOM ELEV. = 198.0
 7) BOTTOM SIZE = 8x30'
 8) CLEANOUT ELEV. = 200.0
 9) DEPTH = 5' (BELOW SPILLWAY)
 10) SPILLWAY LENGTH = 5'

SEDIMENT TRAP NO. 2
 1) STONE OUTLET TRAP
 2) D.A. = 3.5 AC
 3) STORAGE REQ'D = 18000 CF x 3.5 = 63000 CF
 4) STORAGE PROVIDED = 6400 CF @ EL. 210.0
 5) CREST ELEV. = 202.0
 6) BOTTOM ELEV. = 197.0
 7) BOTTOM SIZE = 20x48'
 8) CLEANOUT ELEV. = 197.0
 9) DEPTH = 5' (BELOW SPILLWAY)
 10) SPILLWAY LENGTH = 14'

NOTE: STAW DALE DIKE MAY BE SUBSTITUTED FOR SILT FENCE

NOTE: FOR LOTS 1, 2, 15, 16, 53-57, 65, 140, 154 AND 155, PLACEMENT OF MOBILE HOMES WILL BE DELAYED UNTIL AFTER APPROVAL IS GIVEN FOR REMOVAL OF THE SEDIMENT TRAPS AND THE AREA HAS BEEN STABILIZED

NOTE: SNOW FENCE TO BE PLACED AROUND PERIMETER OF WETLANDS

NOTE: EARTH DIKE TO BE ADJUSTED AND MAINTAINED DURING GRADING AND CONSTRUCTION TO PROVIDE POSITIVE DRAINAGE TO TRAP NO.

NOTE: TRAP TO DISCHARGE ONTO S.C.E.

NOTE: TRAP TO DISCHARGE ONTO S.C.E.

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NOTE: TRAP TO DISCHARGE ONTO S.C.E.

NOTE: TRAP TO DISCHARGE ONTO S.C.E.

AS-BUILT CERTIFICATE

BY THE DEVELOPER:
 ARTHUR E. MUEGGE 48707
 DATE

BY THE DEVELOPER:
 "I CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I WILL PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN 'AS-BUILT' PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT."
 DEVELOPER 11-28-90
 DATE

BY THE ENGINEER:
 "I CERTIFY THAT THIS PLAN FOR POND CONSTRUCTION, EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT. I HAVE NOTIFIED THE DEVELOPER THAT HE MUST PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN 'AS-BUILT' PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION."
 ENGINEER 12-3-90
 DATE

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL.
 SOIL CONSERVATION SERVICE 2/22/91
 DATE

THESE PLANS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.
 APPROVED HOWARD S.O.D. 2/22/91
 DATE

DEPT. 3/12/91

3/25/91
 DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT

3/5/91
 3-1-91

REVISED SEVERAL MOBILE HOME SITES, RELOCATED DRAINAGE ENTRANCE

OWNER DEVELOPER
 DENNIS MOBILE HOME PARK INC
 8315 WASHINGTON BOULEVARD
 JESSUP, MARYLAND 20794

PROJECT PARCEL A
BRENTWOOD MANOR
 (FORMERLY DENNIS MOBILE HOME PARK)
 AREA TAX MAP 43 PARCEL 232
 6TH ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

TITLE
GRADING & SEDIMENT CONTROL PLAN

RIEMER MUEGGE & ASSOCIATES, INC.
 A Land Planning, Engineering and Consulting Firm
 3105 North Ridge Road Elkton City Maryland 21043
 301-461-2690 FAX 301-750-3176

12-3-90
 DATE

STATE OF MARYLAND
 PROFESSIONAL ENGINEER
 ARTHUR E. MUEGGE 48707

SDP 88-195

DATE JUNE 1989
 SCALE 5'
 DRAWING NO 22

SEDIMENT TRAP NO. 6

- 1) RIP RAP OUTLET SEDIMENT TRAP
- 2) D.A. = 5.47 AC
- 3) STORAGE REQ'D = 1,800 C.F. x 8.47 = 15,250 C.F.
- 4) STORAGE PROVIDED = 19,125 C.F.
- 5) CREST ELEV. = 187.0
- 6) BOTTOM ELEV. = 181.0
- 7) BOTTOM DIM. = SEE PLAN
- 8) CLEANOUT ELEV. = 183.5
- 9) DEPTH = 6' (BELOW SPILLWAY)
- 10) SPILLWAY LENGTH = 34'

SEDIMENT TRAP NO. 7

- 1) STONE OUTLET SEDIMENT TRAP
- 2) D.A. = 9.0 AC
- 3) STORAGE REQ'D = 15,000 C.F. x 9.0 = 5,400 C.F.
- 4) STORAGE PROVIDED = 5,432 C.F.
- 5) CREST ELEV. = 181.0
- 6) BOTTOM ELEV. = 177.0
- 7) BOTTOM DIM. = 9' x 10'
- 8) CLEAN OUT ELEV. = 176.5
- 9) DEPTH = 4' (BELOW SPILLWAY)
- 10) SPILLWAY LENGTH = 12'

SEDIMENT TRAP NO. 10

- 1) STONE OUTLET SEDIMENT TRAP
- 2) D.A. = 1.23 AC
- 3) STORAGE REQ'D = 2322 C.F.
- 4) STORAGE PROVIDED = 2400 C.F.
- 5) CREST ELEV. = 177.0
- 6) BOTTOM ELEV. = 175.0
- 7) BOTTOM DIM. = SEE PLAN
- 8) CLEANOUT ELEV. = 176.0
- 9) DEPTH = 2' (BELOW SPILLWAY)
- 10) SPILLWAY LENGTH = 5'

NOTE FOR LOTS 1, 2, 15, 16, 53-57, 65, 140, 154 AND 155, PLACEMENT OF MOBILE HOMES WILL BE DELAYED UNTIL AFTER APPROVAL IS GIVEN FOR REMOVAL OF THE SEDIMENT TRAPS AND THE AREA HAS BEEN STABILIZED

NOTE SNOW FENCE TO BE PLACED AROUND PERIMETER OF WETLANDS

NOTE STRAW BALE DIKE MAY BE SUBSTITUTE FOR SILT FENCE

MARLAND W. DUVALL
520/794
EX. ZONE M-2

NOTE EARTH DIKE TO BE ADJUSTED AND MAINTAINED DURING GRADING AND CONSTRUCTION TO PROVIDE POSITIVE DRAINAGE

LIMIT OF DISTURBANCE
EX. SD' SAN FOR A CENTER
64' SITE / F. 522

NOTE EARTH DIKE TO BE ADJUSTED AND MAINTAINED DURING GRADING AND CONSTRUCTION TO PROVIDE POSITIVE DRAINAGE

BY THE DEVELOPER:
"I CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I WILL PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN 'AS-BUILT' PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT."
JAYKANT D. PAREKH #10148
DATE: 4-28-91

BY THE ENGINEER:
"I CERTIFY THAT THIS PLAN FOR POND CONSTRUCTION, EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT. I HAVE NOTIFIED THE DEVELOPER THAT HE MUST PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN 'AS-BUILT' PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION."
Arthur E. Muegge
ENGINEER
DATE: 12-2-90

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL.
James H. Hahn 2/22/91
U.S. SOIL CONSERVATION SERVICE

THESE PLANS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.
Richard W. Zilman III 2/22/91
HOWARD COUNTY HEALTH DEPARTMENT

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT
Joselyn Boyd 3/12/91
COUNTY HEALTH OFFICER

APPROVED: HOWARD COUNTY DEPT. OF PLANNING AND ZONING.
James H. Hahn 3/25/91
DIRECTOR
Debra J. Daniel 3/15/91
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT

APPROVED FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
James H. Hahn 3/5/91
DIRECTOR
Richard W. Zilman III 3/1/91
CHIEF, BUREAU OF ENGINEERING

DATE	NO.	REVISION

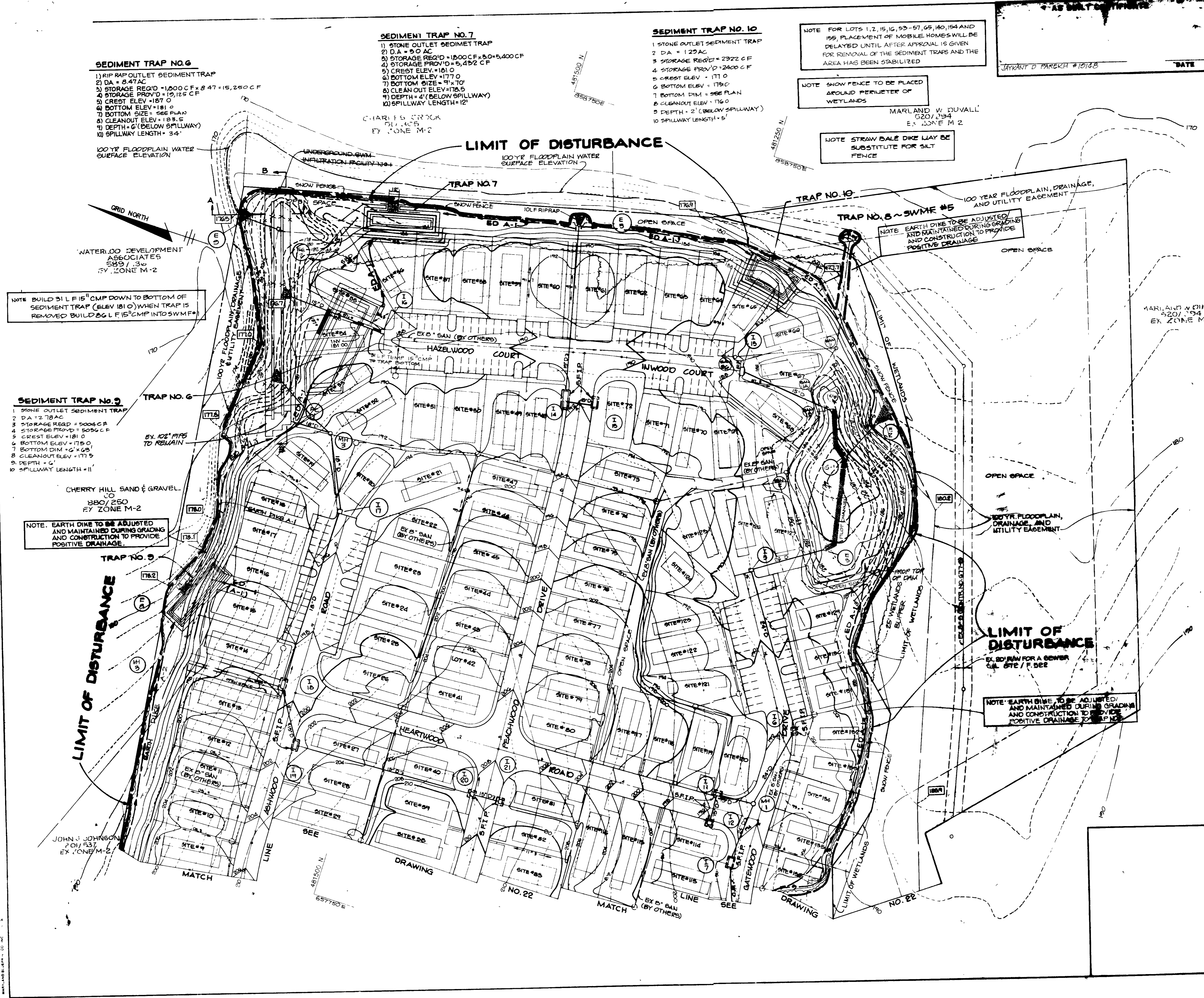
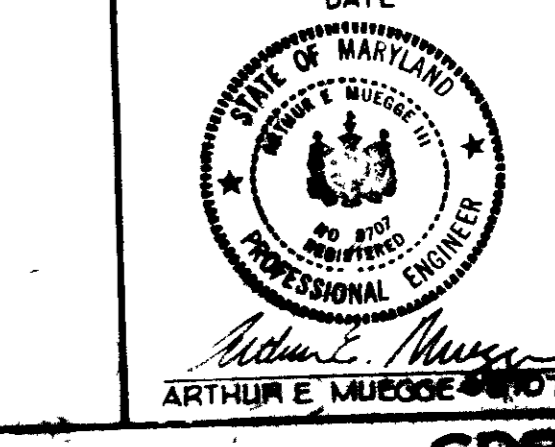
OWNER/DEVELOPER
DENNIS MOBILE HOME PARK INC.
6515 WASHINGTON BOULEVARD
JESSUP, MARYLAND 20794

PROJECT: PARCEL A
BRENTWOOD MANOR
(FORMER DENNIS MOBILE HOME PARK)
AREA TAX MAP 45 PARCEL 292,504
6TH ELECTION DISTRICT
HOWARD COUNTY MARYLAND

TITLE: **GRADING & SEDIMENT CONTROL PLAN**

RIEMER MUEGGE & ASSOCIATES, INC.
A Land Planning, Engineering and Consulting Firm
3105 North Ridge Road Elkort City Maryland 21043
301-461-2690 FAX 301-750-1176

DATE: 12-2-90
DESIGNED BY: JJB
DRAWN BY: J.C.R.
PROJECT NO: 27002
DATE: JUNE 1989
SCALE: 1" = 50'
DRAWING NO: 23 OF 28



NOTE BUILD 31 L.F. 15' CMP DOWN TO BOTTOM OF SEDIMENT TRAP (ELEV 181.0) WHEN TRAP IS REMOVED BUILD 36 L.F. 15' CMP INTO SWMF

- SEDIMENT TRAP NO. 9**
- 1) STONE OUTLET SEDIMENT TRAP
 - 2) D.A. = 2.78 AC
 - 3) STORAGE REQ'D = 5004 C.F.
 - 4) STORAGE PROVIDED = 5056 C.F.
 - 5) CREST ELEV. = 181.0
 - 6) BOTTOM ELEV. = 175.0
 - 7) BOTTOM DIM. = 6' x 6'
 - 8) CLEANOUT ELEV. = 177.5
 - 9) DEPTH = 6'
 - 10) SPILLWAY LENGTH = 11'

NOTE EARTH DIKE TO BE ADJUSTED AND MAINTAINED DURING GRADING AND CONSTRUCTION TO PROVIDE POSITIVE DRAINAGE

JOHN J. JOHNSON
201/537
EX. ZONE M-2

SEEDING NOTES

PERMANENT SEEDING NOTES

Apply to graded or cleared areas not subject to immediate further disturbance where a permanent long-lived vegetative cover is needed.

Seedbed Preparation Loosen upper three inches of soil by raking, discing or other acceptable means before seeding, if not previously loosened.

Soil Amendments In lieu of soil test recommendations, use one of the following schedules:

- 1) Preferred - Apply 2 tons per acre dolomitic limestone (92 lbs/1000 sq ft) and 600 lbs per acre 10-10-10 fertilizer (14 lbs/1000 sq ft) before seeding. Harrow or disc into upper three inches of soil. At time of seeding, apply 400 lbs per acre 30-0-0 ureiform fertilizer (9 lbs/1000 sq ft).
- 2) Acceptable - Apply 2 tons per acre dolomitic limestone (92 lbs/1000 sq ft) and 1000 lbs per acre 10-10-10 fertilizer (23 lbs/1000 sq ft) before seeding. Harrow or disc into upper three inches of soil.

Seeding For the periods March 1 thru April 30 and August 1 thru October 15, seed with 60 lbs per acre (1.4 lbs/1000 sq ft) of Kentucky 31 Tall Fescue. For the period May 1 thru July 31, seed with 60 lbs Kentucky 31 Tall Fescue per acre and 2 lbs per acre (0.5 lbs/1000 sq ft) of weeping lovegrass. During the period of October 15 thru February 28, protect site by Option (1) 2 tons per acre of well-anchored straw mulch and seed as soon as possible in the spring. Option (2) Use seed Option (3) Seed with 60 lbs/acre Kentucky 31 Tall Fescue and mulch with 2 tons/acre well-anchored straw.

Mulching Apply 1 1/2 to 2 tons per acre (70 to 90 lbs/1000 sq ft) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gal per acre (5 gal/1000 sq ft) of emulsified asphalt on flat areas. On slopes, 8 feet or higher, use 348 gal per acre (8 gal/1000 sq ft) for anchoring.

Maintenance Inspect all seeded areas and make needed repairs, replacements and reseedings.

TEMPORARY SEEDING NOTES

Apply to graded or cleared areas likely to be redisturbed where a short-term vegetative cover is needed.

Seedbed Preparation Loosen upper three inches of soil by raking, discing or other acceptable means before seeding, if not previously loosened.

Soil Amendments: Apply 600 lbs per acre 10-10-10 Fertilizer (14 lbs/1000 sq ft.)

Seeding For periods March 1 thru April 30 and from August 1 thru November 15, seed with 28 bushel per acre of annual ryegrass (3.2 lbs./1000 sq. ft.). For the period May 1 thru August 14, seed with 3 lbs per acre of weeping lovegrass (0.7 lbs./1000 sq. ft.). For the period November 16 thru February 28, protect site by applying 2 tons per acre of well anchored straw mulch and seed as soon as possible in the spring, or use sod.

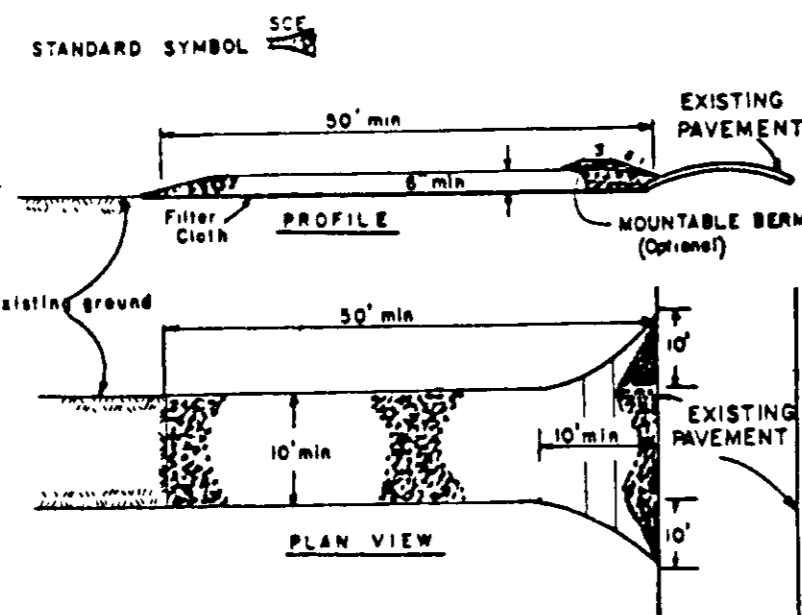
Mulching Apply 1 1/2 to 2 tons per acre (70 to 90 lbs/1000 sq ft.) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gal per acre (5 gal/1000 sq ft.) of emulsified asphalt on flat areas. On slopes, 8 feet or higher, use 348 gal per acre (8 gal/1000 sq ft.) for anchoring.

Refer to the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for rate and methods not covered.

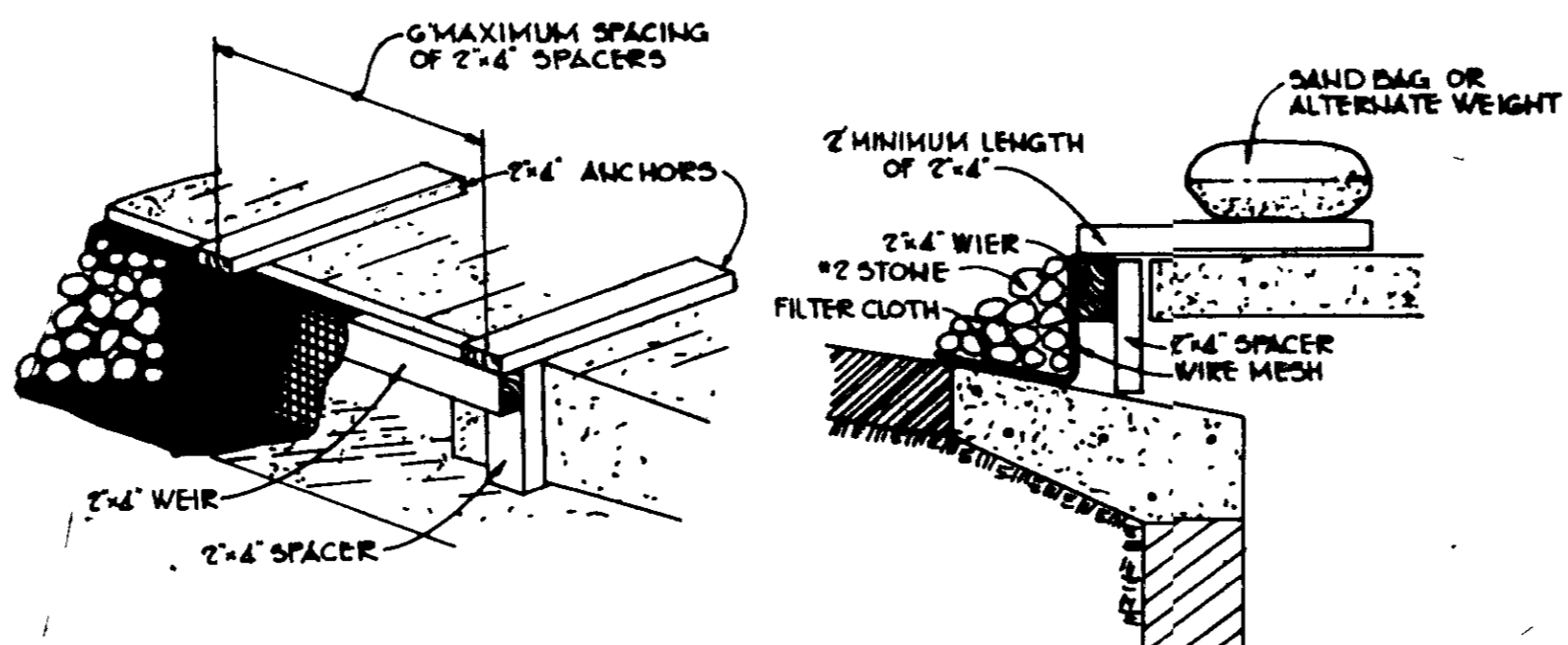
SEDIMENT CONTROL NOTES

1. A minimum of 24 hours notice must be given to the Howard County Office of Inspections and Permits prior to the start of any construction (592-2437).
2. All vegetative and structural practices are to be installed according to the provisions of this plan and are to be in conformance with the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
3. Following initial soil disturbance or redistribution, permanent or temporary stabilization shall be completed within: a) 7 calendar days for all perimeter sediment control structures, dikes, perimeter slopes and all slopes greater than 3:1; b) 14 days as to all other disturbed or graded areas on the project site.
4. All sediment traps/basins shown must be fenced and warning signs posted around their perimeter in accordance with Vol. 1, Chapter 12, of the HOWARD COUNTY DESIGN MANUAL, Storm Drainage.
5. All disturbed areas must be stabilized within the time period specified above in accordance with the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for permanent seedings (Sec. 51) and (Sec. 54), temporary seeding (Sec. 50) and mulching (Sec. 52). Temporary stabilization with mulch alone can only be done when recommended seeding dates do not allow for proper germination and establishment of grasses.
6. All sediment control structures are to remain in place and are to be maintained in operative condition until permission for their removal has been obtained from the Howard County Sediment Control Inspector.
7. Site Analysis:

Total Area of Site	49.91 acres
Area Disturbed	20.51 acres
Area to be reseeded or graded	14.81 acres
Area to be vegetatively stabilized	5.70 acres
Total Cut	11,866 cu. yds.
Total Fill	74,251 cu. yds.
8. Any sediment control practice which is disturbed by grading activity for placement of utilities must be repaired on the same day of disturbance.
9. Additional sediment controls must be provided, if deemed necessary by the Howard County DPW sediment control inspector.
10. Site grading will begin only after all perimeter sediment control measures have been installed and are in a functioning condition.
11. Sediment will be removed from traps when its depth reaches the clean out elevation shown on the plans.



- CONSTRUCTION SPECIFICATIONS**
1. Stone Size - Use 2" stone, or reclaimed or recycled concrete equivalent.
 2. Length - As required, but not less than 30 feet (except on a single realignment less than a 10 foot minimum length would apply).
 3. Thickness - Not less than six (6) inches.
 4. Width - Ten (10) foot minimum, but not less than the full width at points where ingress or egress occurs.
 5. Filter Cloth - Will be placed over the entire area prior to placing of stone. Filter will not be required on a single family residence lot.
 6. Surface Water - All surface water flowing or diverted toward construction entrances shall be piped across the entrance. If piping is impractical, a mountable beam with 5:1 slopes will be permitted.
 7. Maintenance - The entrance shall be maintained in a condition which will prevent tracking or flowing of sediments onto public rights-of-way. This may require periodic top dressing with additional stone as conditions demand and repair and/or cleaning of any measure used to trap sediment. All sediment applied, dropped, washed or tracked onto public rights-of-way must be removed immediately.
 8. Washing - Wheels shall be cleaned to remove sediment prior to entrance onto public rights-of-way. When washing is required, it shall be done on an area stand-by with water and which drains into an approved sediment trapping device.
 9. Periodic inspection and needed maintenance shall be provided after each rain.

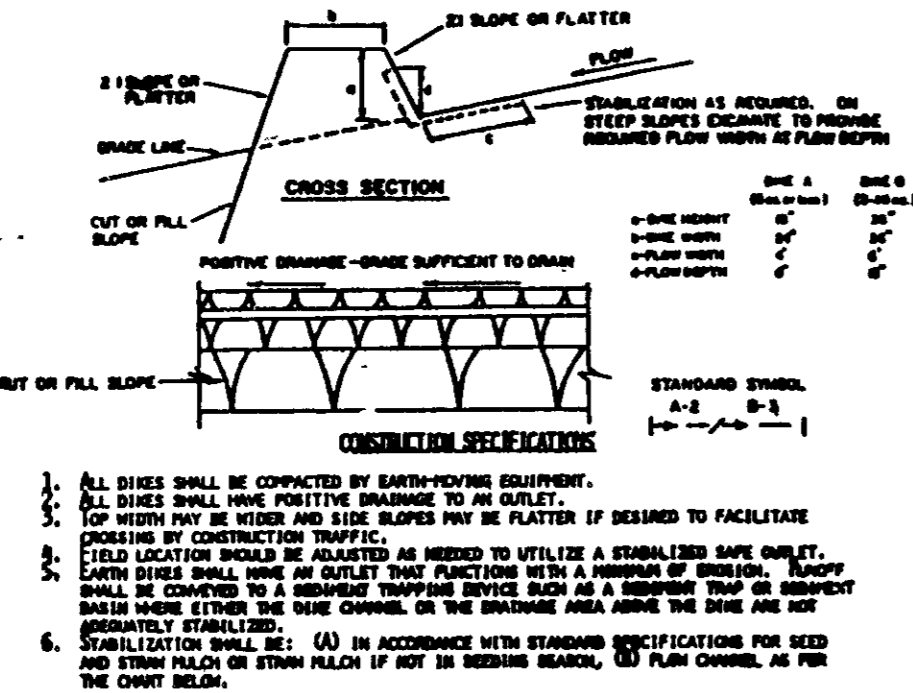


STONE FILTER INLET PROTECTION

NO SCALE

STABILIZED CONSTRUCTION ENTRANCE

NO SCALE



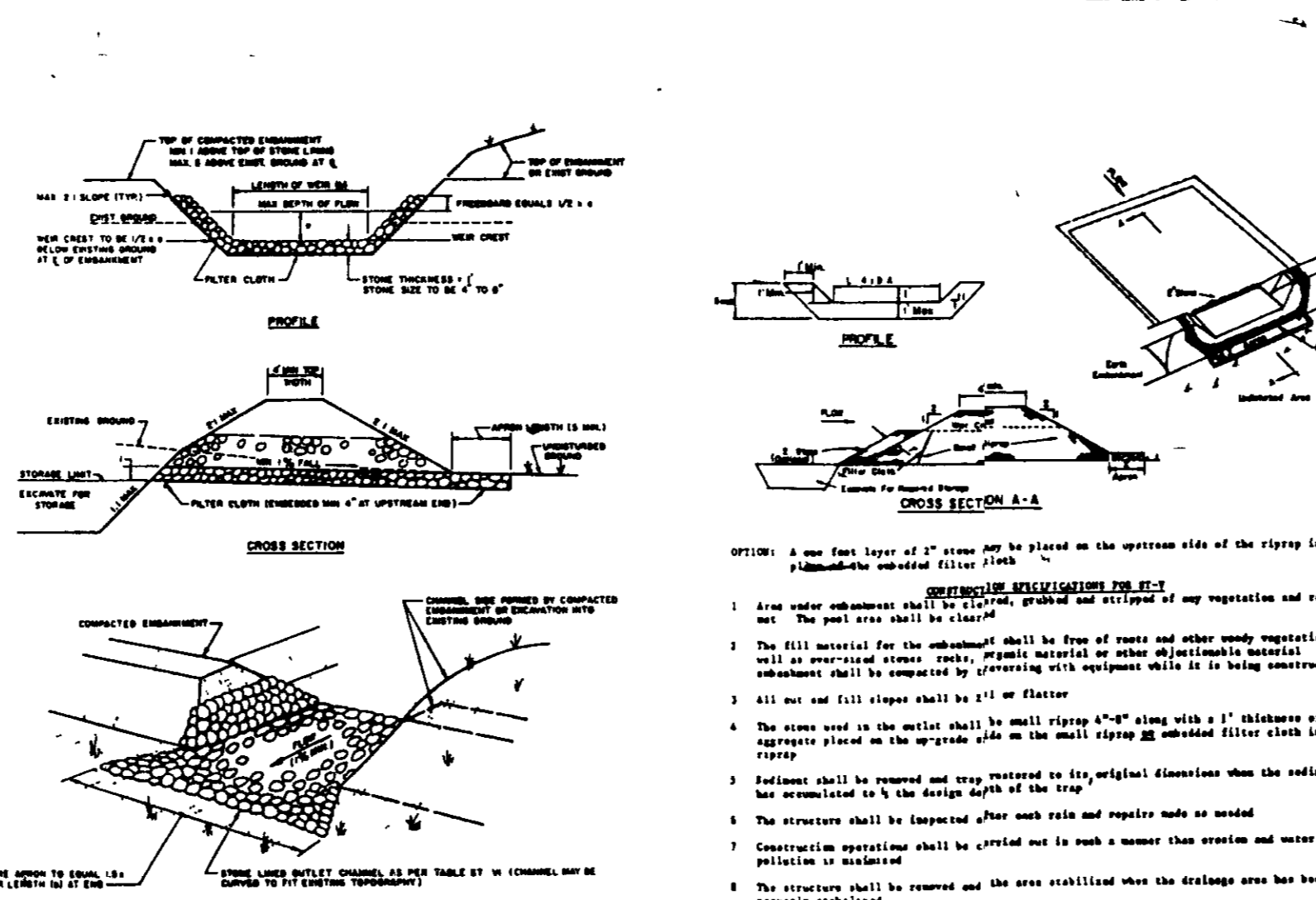
CONSTRUCTION SPECIFICATIONS

1. All dikes shall be constructed by earthmoving equipment.
2. All dikes shall have positive drainage to an outlet.
3. Top heavy duty wire mesh shall be placed if required to facilitate construction traffic.
4. Earth dikes shall have an outlet that functions with a minimum of erosion. Erosion shall be covered by a drainage trough device such as a drainage trough device which extends the same channel on the drainage area above the dike and not immediately stabilized.
5. Stabilization shall be: A) in accordance with the standards specifications for seed and straw mulch or straw mulch if not in seeding season; B) plain concrete, or for the court below.

PLAIN CONCRETE STABILIZATION

TYPE I	CLASS	DIKE A	DIKE B
1	5-3.0K	Seed and Straw Mulch	Seed and Straw Mulch
2	3.1-5.0K	Seed and Straw Mulch	Seed using Wire, or Exclosure; Seed 2" Stone
3	5.1-8.0K	Seed using Wire, or Sod	Limbs Rip-Rap 4-8"
4	8.1-20K	Limbs Rip-Rap 4-8"	Engineering Design

A. Stone to be 2 inch stone, or recycled concrete equivalent, in a layer at least 3 inches in thickness and be pressed into the soil by construction equipment.
 B. Rip-rap to be no larger than 4 inches in diameter and 1 inch thick and be placed in a layer at least 8 inches thick and be pressed into the soil.
 C. The soil beneath rip-rap shall be compacted to 95% of maximum dry density.
 D. Permanent inspection and required maintenance must be provided after each rain event.



RIP RAP OUTLET SEDIMENT TRAP

NO SCALE

STONE OUTLET SEDIMENT TRAP

NO SCALE

1. A one foot layer of 3" stone may be placed on the upstream side of the riprap if planned for sediment filter flow.
2. Area under sediment trap shall be graded and seeded or any vegetation and trees and the soil area shall be retained.
3. The fill material for the embankment shall be free of roots and other woody vegetation as well as structural stress, rocks, pebbles, material of other composition, material that will be covered by a drainage trough device such as a drainage trough device which extends the same channel on the drainage area above the dike and not immediately stabilized.
4. All cut and fill slopes shall be 4:1 or flatter.
5. Sediment shall be removed and area restored to its original condition when the sediment has accumulated to the design depth of the trap.
6. The structure shall be inspected after each rain and repairs made as needed.
7. Construction operation shall be carried out in such a manner that erosion and water pollution is minimized.
8. The structure shall be removed and the area stabilized when the drainage area has been properly stabilized.

AS BUILT CERTIFICATE

ARTHUR E. MUEGGE #8707 _____ DATE _____

BY THE DEVELOPER:

"I CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I WILL PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN 'AS-BUILT' PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT."

Arthur E. Muegge 11-28-90
DEVELOPER DATE

BY THE ENGINEER:

"I CERTIFY THAT THIS PLAN FOR POND CONSTRUCTION, EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT. I HAVE NOTIFIED THE DEVELOPER THAT HE MUST PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN 'AS-BUILT' PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION."

William E. Muegge 12-3-90
ENGINEER DATE

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL.

James W. Hester 2/22/91
U.S. SOIL CONSERVATION SERVICE DATE

THESE PLANS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

Robert W. S. Smith 2/22/91
HOWARD S.C.D. DATE

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

Joseph W. Burgess 3/17/91
COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

Joseph W. Burgess 3/25/91
DIRECTOR DATE

David L. Taylor 4/20/91
CHIEF DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT DATE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.

James W. Hester 3/6/91
DIRECTOR DATE

HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

William E. Muegge 2-1-91
CHIEF, BUREAU OF ENGINEERING DATE

DATE	NO	REVISION

OWNER/DEVELOPER

DENNIS MOBILE HOME PARK INC
8515 WASHINGTON BOULEVARD
JESSUP, MARYLAND 20794

PROJECT: PARCEL A
BRENTWOOD MANOR
(FORMERLY DENNIS MOBILE HOME PARK)

AREA TAX MAP 43 PARCEL 232,504
4TH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

TITLE: **SEDIMENT CONTROL NOTES & DETAILS**

RIEMER MUEGGE & ASSOCIATES, INC
A Land Planning, Engineering and Consulting Firm
3105 North Ridge Road Ellicott City, Maryland 21043
301-461-2690 FAX 301-750-3176

12-3-90 DATE

G-86-69 VP-86-126 WF 0115
VP-87-45 WF 88 00 F 88 042

DESIGNED BY JJB, RLH

DRAWN BY JCR

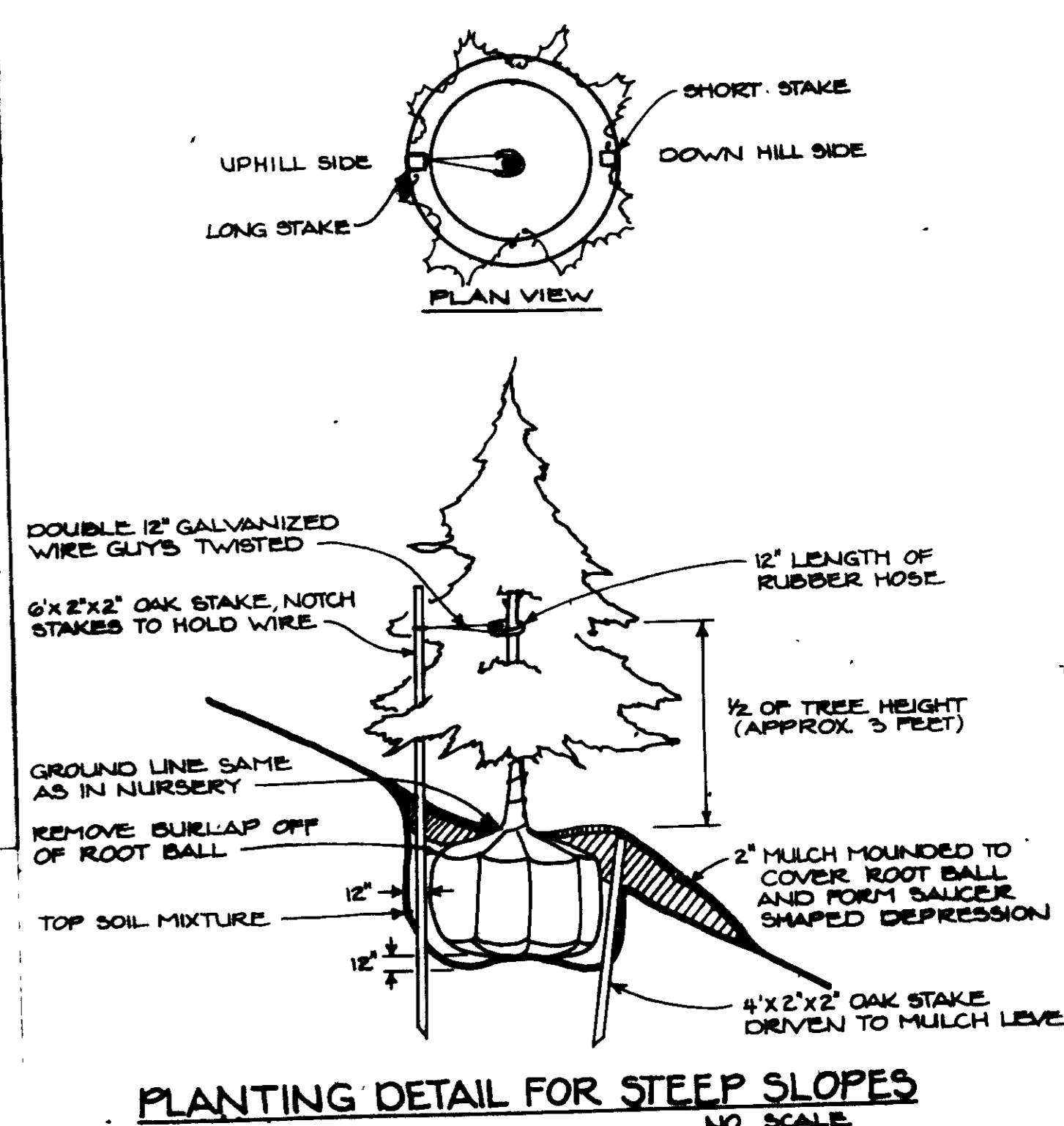
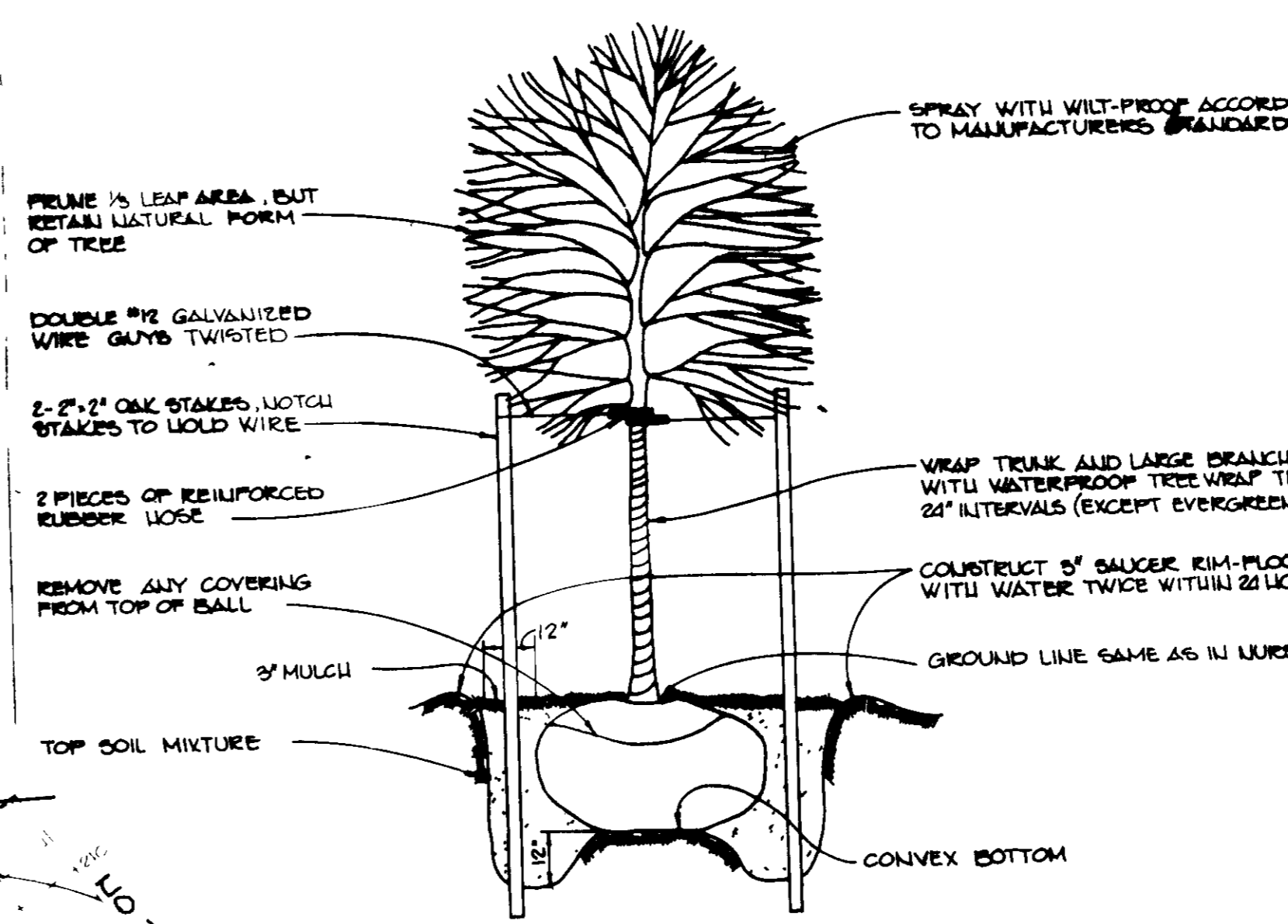
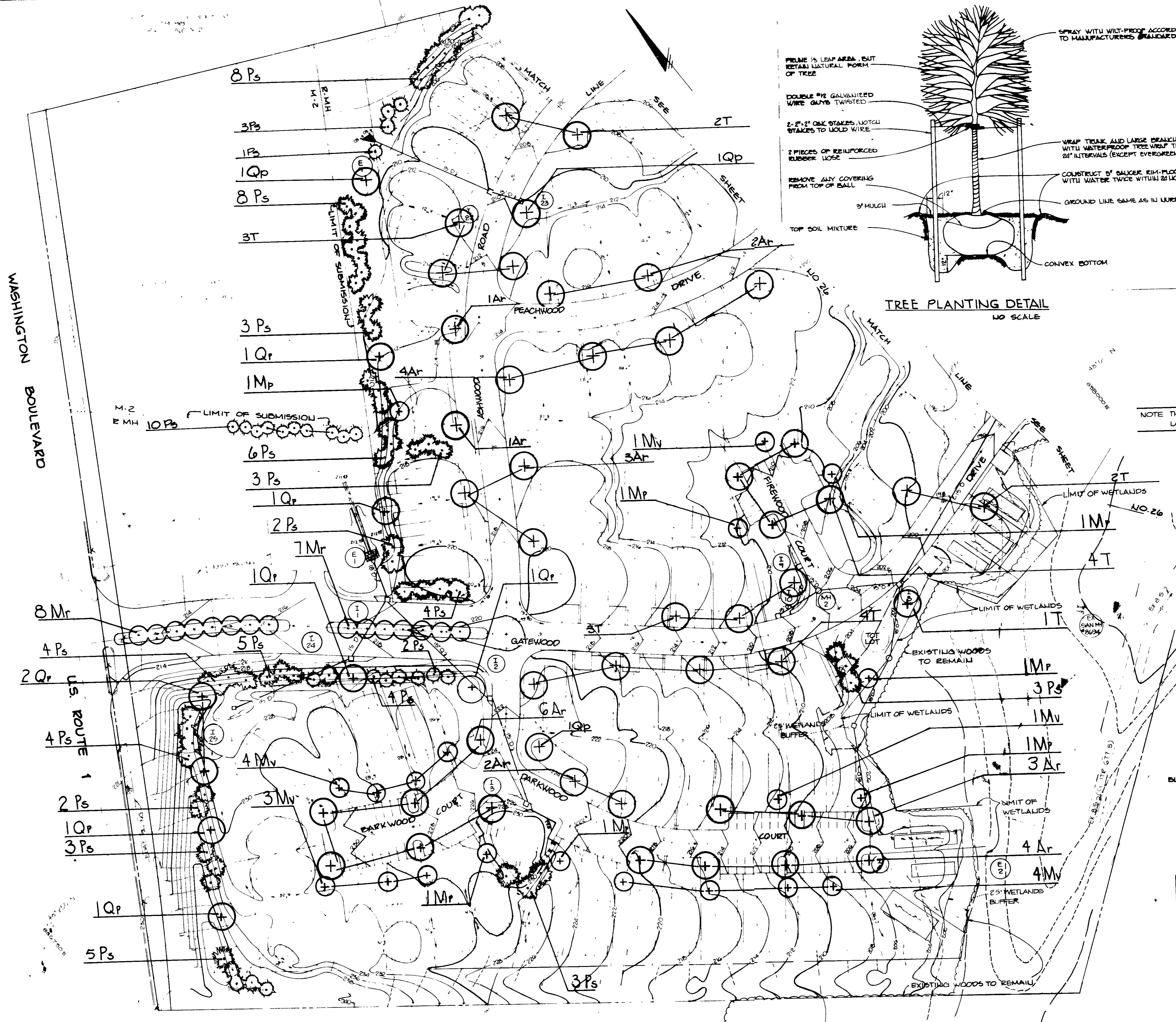
PROJECT NO 27802

DATE JUNE 1989

SCALE AS SHOWN

DRAWING NO 24 OF 28

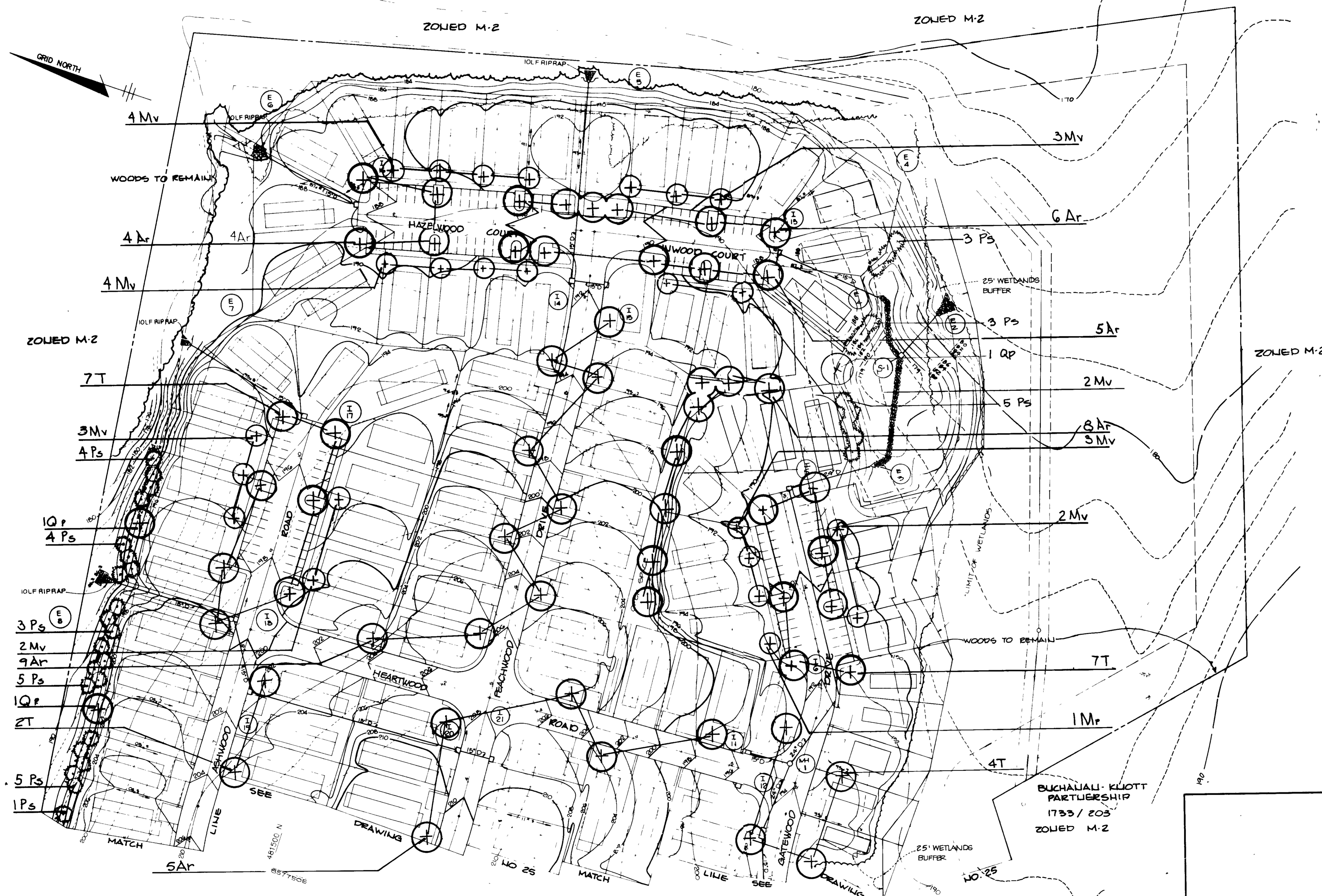
Arthur E. Muegge
ARTHUR E. MUEGGE #867



NOTE THIS PLAN IS TO BE USED FOR LANDSCAPING ONLY

<i>Joyce Boger</i> 3/12/91	
DEPT	
<i>Joyce Boger</i> 3/25/91	
<i>Dave J. Campbell</i> 3/28/91	
DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT	
<i>Ronnie J. Sun</i> 3.5.91	
<i>Melanie E. Moser</i> 3-21-91	
DATE	
WORK	
DENNIS MOBILE HOME PARK 8315 WASHINGTON BOUL. EVART JESSUP, MARYLAND 20794	
PROJECT	PARCEL A BRENTWOOD MANOR
APP. TAX MAP	43
GTM ELECTION DISTRICT HE WARD COUNTY, MARYLAND	
PLANTING PLAN	
RIEMER MUEGGE & ASSOCIATES, INC. A Land Planning, Engineering and Consulting Firm 3105 North Ridge Road Elkton City, Maryland 21043 301-461-2690 FAX 301-750-1176	
12.5.90	WF-01-15 WF-88-99, P.00-242
	RLH M.E.C.
<i>Melanie E. Moser</i> MELANIE E. MOSER	2-4-88
	HAW. 25 28

Qty	Symbol	Name	Size	Remarks	Qty	Symbol	Name	Size	Remarks
65	Ar	ASH FURNACE Red Maple	2 1/2"-3" Cal., 13-45" Ht.	DBH, Full Head	8	Pb	WILD YEW (YEW) Plant: Perfection Chrysanthemum	1 3/4"-2" Cal., 7-8" Ht.	DBH, Full Head
14	Q	ORIENTAL BELLFRILLS Pin Oak	2 1/2"-3" Cal., 13-45" Ht.	DBH, Full Head	15	Pb	WILD YEW (YEW) Plant: Chrysanthemum	1 3/4"-2" Cal., 7-8" Ht.	DBH, Full Head
39	T	YUCCA SPINOSA 'CERISE' Compactive Yucca	2 1/2"-3" Cal., 13-45" Ht.	DBH, Full Head	36	Pb	WILD YEW (YEW) Plant: Chrysanthemum	1 3/4"-2" Cal., 7-8" Ht.	DBH, Full Head
					116	Pb	YUCCA SPINOSA 'CERISE' Compactive Yucca	2 1/2"-3" Cal., 6-8" Ht.	DBH, Full Head



NOTE: THIS PLAN IS TO BE USED FOR LANDSCAPING ONLY

BY THE DEVELOPER:
 "I CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I WILL PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN 'AS-BUILT' PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT."
 DEVELOPER: *[Signature]* DATE: 11-28-91

BY THE ENGINEER:
 "I CERTIFY THAT THIS PLAN FOR POND CONSTRUCTION, EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT. I HAVE NOTIFIED THE DEVELOPER THAT HE MUST PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN 'AS-BUILT' PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION."
 ENGINEER: _____ DATE: _____

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL.
 APPROVED: *[Signature]* DATE: 2/22/91
 U.S. SOIL CONSERVATION SERVICE

THESE PLANS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.
 APPROVED: *[Signature]* DATE: 2/22/91
 HOWARD S.C.D.

APPROVED: *[Signature]* DATE: 3/12/91
 HOWARD COUNTY DEPT. OF PUBLIC WORKS

APPROVED: *[Signature]* DATE: 3/2/91
 HOWARD COUNTY DEPT. OF PLANNING AND LAND DEVELOPMENT

APPROVED: *[Signature]* DATE: 3/5/91
 HOWARD COUNTY DEPT. OF PUBLIC WORKS

DATE NO. REVISION

OWNER/DEVELOPER
 DENNIS MOBILE HOME PARK INC.
 8315 WASHINGTON BOULEVARD
 JESSUP, MARYLAND 20794

PROJECT: PARCEL A
BRENTWOOD MANOR
 AREA TAX MAP 43 PARCEL 222 504
 6TH ELECTION DISTRICT
 HOWARD COUNTY MARYLAND

TITLE: **PLANTING PLAN**

RIEMER MUEGGE & ASSOCIATES, INC.
 A Land Planning, Engineering and Consulting Firm
 3105 North Ridge Road - Ellicott City, Maryland 21043
 301-461-2690 FAX 301-750-3176

12.5.90
 DESIGNED BY R.L.H.
 DRAWN BY M.J.C.
 PROJECT NO 27502
 DATE JAN 21, 1988
 SCALE 1" = 50'
 DRAWING NO 24 OF 28

[Signature]
 MELANIE E. MOSER
 551

S.W.M. POND CONSTRUCTION SPECIFICATIONS

These specifications are appropriate to ponds within the scope of the Standard for practice 318.

I. SITE PREPARATION

Areas designated for borrow areas, embankment, and structural works shall be cleared, grubbed and stripped of topsoil. All trees, vegetation, rocks and other objectionable material shall be removed. Channel banks and sharp breaks shall be sloped to no steeper than 1:1.

Areas to be covered by the pond or reservoir will be cleared of all trees, brush, logs, fence, rubbish and other objectionable material unless otherwise designated on the plan. Trees, brush and stumps shall be cut approximately level with the ground surface.

All cleared and grubbed material shall be disposed of outside and below the limits of the dam and reservoir as directed by the owner or his representative. When specified, a sufficient quantity of topsoil will be stockpiled in a suitable location for use on the embankment and other designated areas.

II. EARTH FILL

The fill material shall be taken from approved designated borrow area or areas. It shall be free of roots, stumps, wood, rubbish, oversize material, frost or other objectionable materials. The embankment shall be constructed to an elevation which provides for anticipated settlement to the design elevation. The fill height along the length of the embankment shall be increased above the design elevation (including freeboard) as shown on the plans.

Areas on which fill is to be placed shall be scarified prior to placement of fill. Fill materials shall be placed in 8-inch maximum thickness (define compaction) layers which are to be constructed over the entire length of the fill. The most porous borrow material shall be placed in the downstream portions of the embankment.

III. COMPACTION

The movement of the hauling and spreading equipment over the fill shall be controlled so that the entire surface of each lift shall be traversed by not less than one track of the equipment or compaction. This shall be achieved by a minimum of four complete passes of a sheepsfoot, rubber tread or vibratory roller. Fill material shall be compacted to the moisture content that the required degree of compaction can be obtained with the equipment used.

Where a minimum required density is specified, each layer of fill shall be compacted as necessary to obtain that density and is to be certified by the Engineer.

IV. CUTOFF TRENCH

Where specified, a cutoff trench shall be excavated along or parallel to the centerline of the embankment as shown on the plan. The bottom width of the trench shall be as shown on the drawings, with the maximum width being four feet. The depth shall be at least four feet or as shown on the plan. The side slopes of the trench shall be 1:1 or flatter. The backfill material for the cutoff trench shall be the most impervious material available and shall be compacted with equipment or rollers to assure maximum density and minimum permeability.

V. STRUCTURAL BACKFILL

Backfill material shall be of the type and quality conforming to that specified for the adjoining fill material. The fill shall be placed in horizontal layers not to exceed four inches in thickness and compacted by hand tamper or other compaction equipment. The material needs to fill completely all spaces under and adjacent to the pipe. As soon as possible during the backfilling operation shall driven equipment be allowed to operate closer than four feet, measured horizontally, to any part of a structure. Under no circumstances shall equipment be driven over any part of a concrete structure or pipe unless there is a compacted fill of twenty-four inches or greater over the structure or pipe.

VI. PIPE COMPLETION

All pipes shall be circular in cross section.

A. Corrugated Metal Pipe

1. Materials - (Steel Pipe) - This pipe and its appurtenances shall be galvanized and meet the requirements of AASHTO Specification M-245 Type A with watertight coupling bands.

Steel pipes with polymeric coatings shall have a minimum coating thickness of 0.005 inch (10 mil) on both sides of the pipe. The following coatings are commercially available: Resin, Plast-Coat, Blue-Klad, and Bath-Co-Loy. Coated corrugated steel pipe shall meet the requirements of AASHTO M-245 and M-246.

Materials - (Aluminum Steel Pipe) - This pipe and its appurtenances shall conform to the requirements of AASHTO Specification M-274-791 with watertight coupling bands or flanges.

Materials - (Aluminum Pipe) - This pipe and its appurtenances shall conform to the requirements of AASHTO Specification M-16 or M-11 with watertight coupling bands or flanges. Coupling bands, anti-seep collars, and sections, etc. must be composed of the same material as the pipe. Metals must be insulated from dissimilar materials with use of rubber or plastic insulating materials at least 24 mils in thickness. Aluminum surfaces that are to be in contact with concrete shall be painted with one coat of zinc chromate primer. Hot dip galvanized bolts may be used for connections. The pH of the surrounding soils shall be less than 9 and greater than 4.

2. Connections - All connections with pipes must be completely watertight. The drain pipe or barrel connection to the riser shall be welded all around when the pipe and riser are made. Watertight coupling bands or flanges shall be used at all joints. Anti-seep collars shall be connected to the pipe in such a manner as to the completely watertight. Coupling bands are not considered to be watertight.

3. Bedding - The pipe shall be firmly and uniformly bedded throughout its entire length. Where rock or soft, spongy or other unstable soil is encountered, all such material shall be removed and replaced with suitable earth compacted to provide adequate support.

4. Laying pipe - The pipe shall be placed with inside circumference a pipe pointing downstream and with the longitudinal lap at the side.

5. Backfilling shall conform to structural backfill as shown above.

6. Other details (anti-seep collars, valves, etc.) shall be as shown on the drawings.

B. Reinforced Concrete Pipe

1. Materials - Reinforced concrete pipe shall have a rubber gasket joint and shall equal or exceed ASTM Specification C-361 approved equivalent to AASHTO Specification C-301.

2. Bedding - All reinforced concrete pipe conduits shall be in a concrete bedding for their entire length. This bedding shall consist of high slump concrete placed under the pipe and up the side of the pipe to at least 10% of its outside diameter with a minimum thickness of 3" or as shown on the drawings.

3. Laying pipe - Bell and spigot pipe shall be placed with the bell end upstream. Joints shall be made in accordance with recommendations of the manufacturer of the pipe. After the joints are sealed for the entire line, the bedding shall be placed so that all spaces under the pipe are filled. Care shall be exercised to prevent any deviation from the original line and grade of the pipe.

4. Backfilling shall conform to structural backfill as shown above.

5. Other details (anti-seep collars, valves, etc.) shall be as shown on the drawings.

C. For pipes of other materials, specific specifications shall be shown on the drawings.

VII. CONCRETE

A. Materials

1. Cement - Normal Port. and cement shall conform to the latest ASTM Specification C-150.

2. Water - The water used in concrete shall be clean, free from oil, acid, alkali, scales, organic matter or other objectionable substances.

3. Sand - The sand used in concrete shall be clean, hard, strong and durable, and shall be well graded with 100 percent passing a one-quarter inch sieve. Limestone sand shall not be used.

4. Coarse Aggregate - The coarse aggregate shall be clean, hard, strong and durable, and free from clay or dirt. It shall be well graded with a maximum size of one and one-half (1 1/2) inches.

5. Reinforcing Steel - The reinforcing steel shall be deformed bars of intermediate grade billet steel or var. steel conforming to ASTM Specification A-615.

6. Design Mix - The concrete shall be mixed in the following proportions, measured by weight: The water-cement ratio shall be 0.45 to 0.55. Gallons of water per 90 pound bag of cement. The proportion of materials for the trial mix shall be 1:2:3-1/2. The combination of aggregate may be adjusted to produce a plastic and workable mix that will not produce harshness in placing or honeycombing in the structure here.

7. Mixing - The concrete ingredients shall be mixed in batch mixers until the mixture is homogeneous and of uniform consistency. The mixing of each batch shall continue for not less than one and one-half minutes after all the ingredients except the full amount of water, are in the mixer. The minimum mixing time is predicted to provide control of the speed of rotation of the mixer and of the introduction of the materials, including water, into the mixer. Water shall be added prior to or during and following the construction operation. Excess water requiring the addition of water to produce the required concrete consistency shall not be permitted. Truck mixing will be allowed provided that the use of this method shall cause no violation of any applicable provisions of the specifications given here.

8. Forms - The forms shall have sufficient strength and rigidity to hold the concrete and to withstand the necessary pressure, tamping and vibration without deflection from the prescribed lines. They shall be watertight and constructed so that they can be removed without hammering or prying against the concrete.

9. The inside of forms shall be oiled with a non-staining mineral oil or thoroughly washed before concrete is placed.

10. Forms may be removed 24 hours after the placement of concrete. All vertical and other devices used shall be removed from the surface of the concrete.

11. Reinforcing Steel - All reinforcing material shall be free of dirt, rust, scale, oil, paint or any other coatings. The steel shall be accurately placed and securely tied and blocked into position so that no movement of the steel will occur during placement of concrete.

12. Consolidating - Concrete shall be consolidated with internal mechanical vibrators. Vibration shall be supplemented by tapping and hand tamping as necessary to insure smooth and dense concrete along form surfaces, in corners, and around embedded items.

13. Finishing - Defective concrete, honeycombed areas, voids left by the removal of the rods, ridges on all concrete surfaces permanently exposed to view or exposed to water on the finished structure shall be repaired immediately after the removal of forms. All voids shall be sealed and completely filled with drypacking mortar.

14. Protection and Curing - Exposed surfaces of concrete shall be protected from the direct rays of the sun for at least three (3) days. All concrete shall be kept continuously moist for at least three (3) days after being placed. Moisture may be applied by spraying or sprinkling as necessary to prevent the concrete from drying. Concrete shall not be exposed to freezing during the curing period. Curing compounds may also be used.

15. Placing Temperature - Concrete may not be placed at temperatures below 32° F or in the temperature falling, or 36° with the temperature rising.

VIII. STABILIZATION

All borrow areas shall be graded to provide proper drainage and left in a slightly condition. All exposed surfaces of the embankment, spillway, spoil and borrow areas, and barge shall be stabilized by seeding, liming, fertilizing and mulching (if required) in accordance with the vegetative treatment specifications or as shown on the accompanying drawings.

IX. EROSION AND SEDIMENT CONTROL

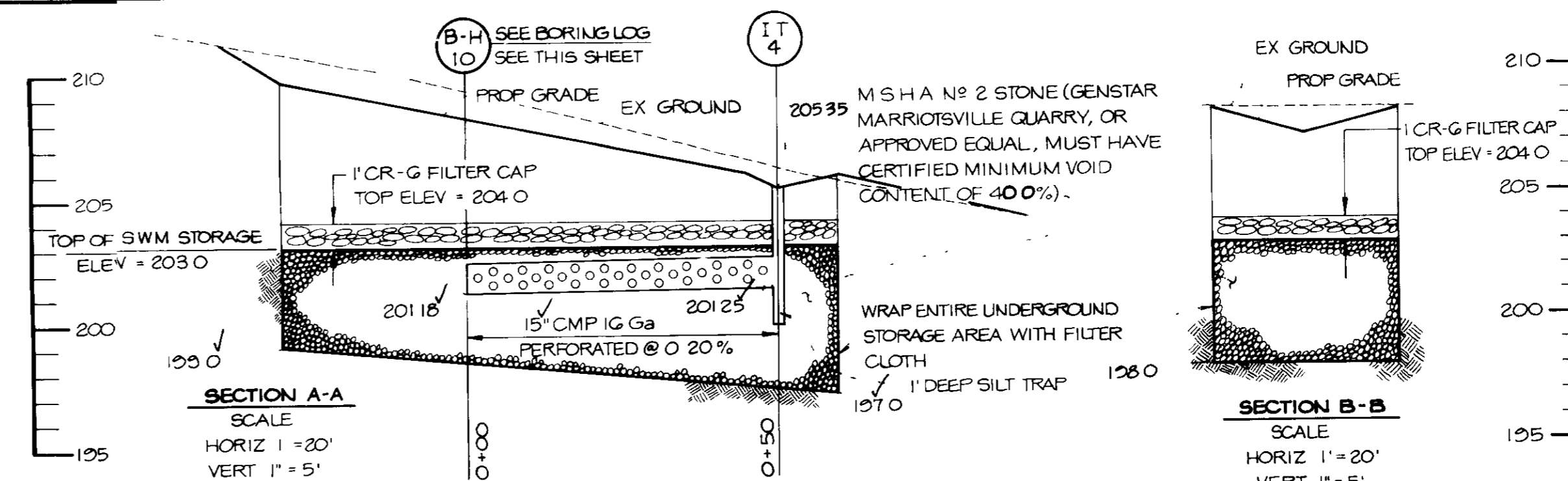
Construction operations will be carried out in such a manner that erosion will be controlled and water and air pollution minimized. State and local laws concerning pollution abatement will be followed. Construction plans shall detail erosion and sediment control measures to be employed during the construction process.

X. FILTER CLOTH

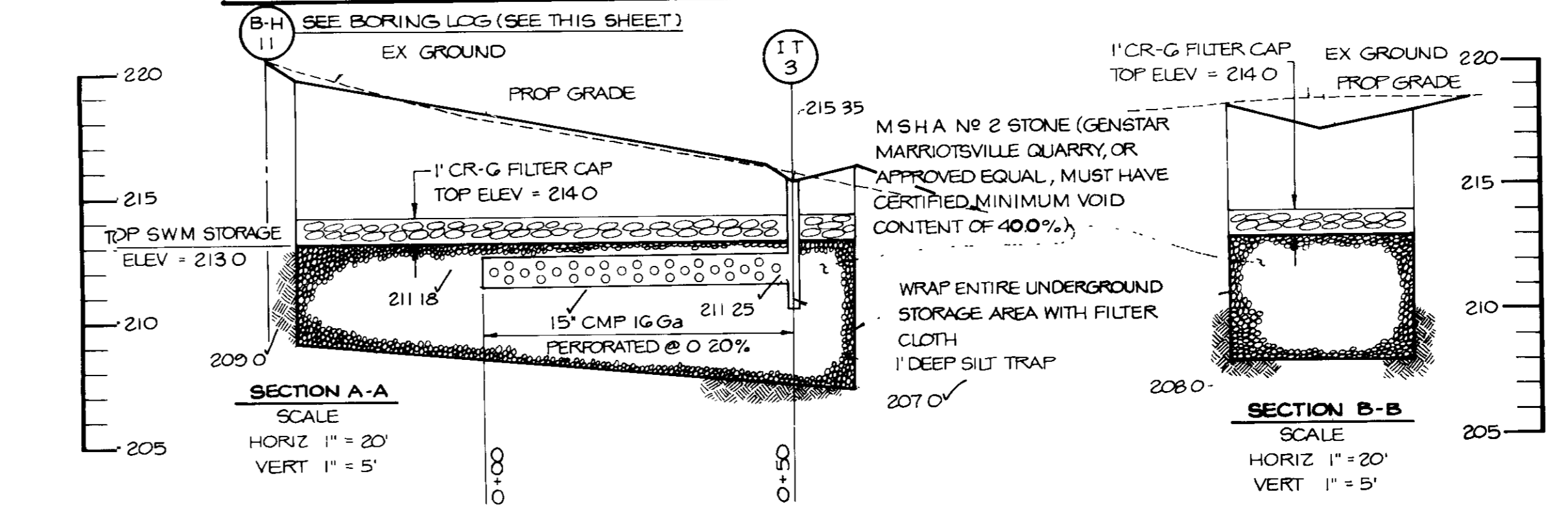
Filter cloth to be Trevira Style #112 or approved equal.

XI. AS BUILT CERTIFICATE

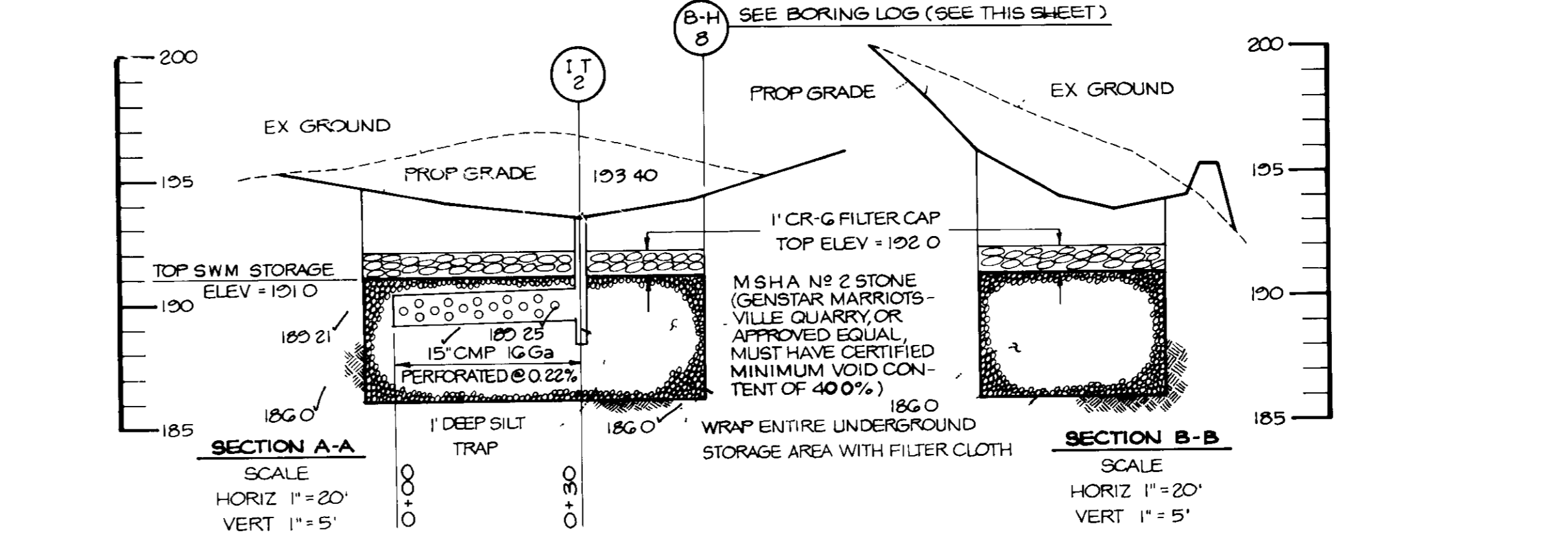
JAYKATH D PARKER 8/19/05 DATE



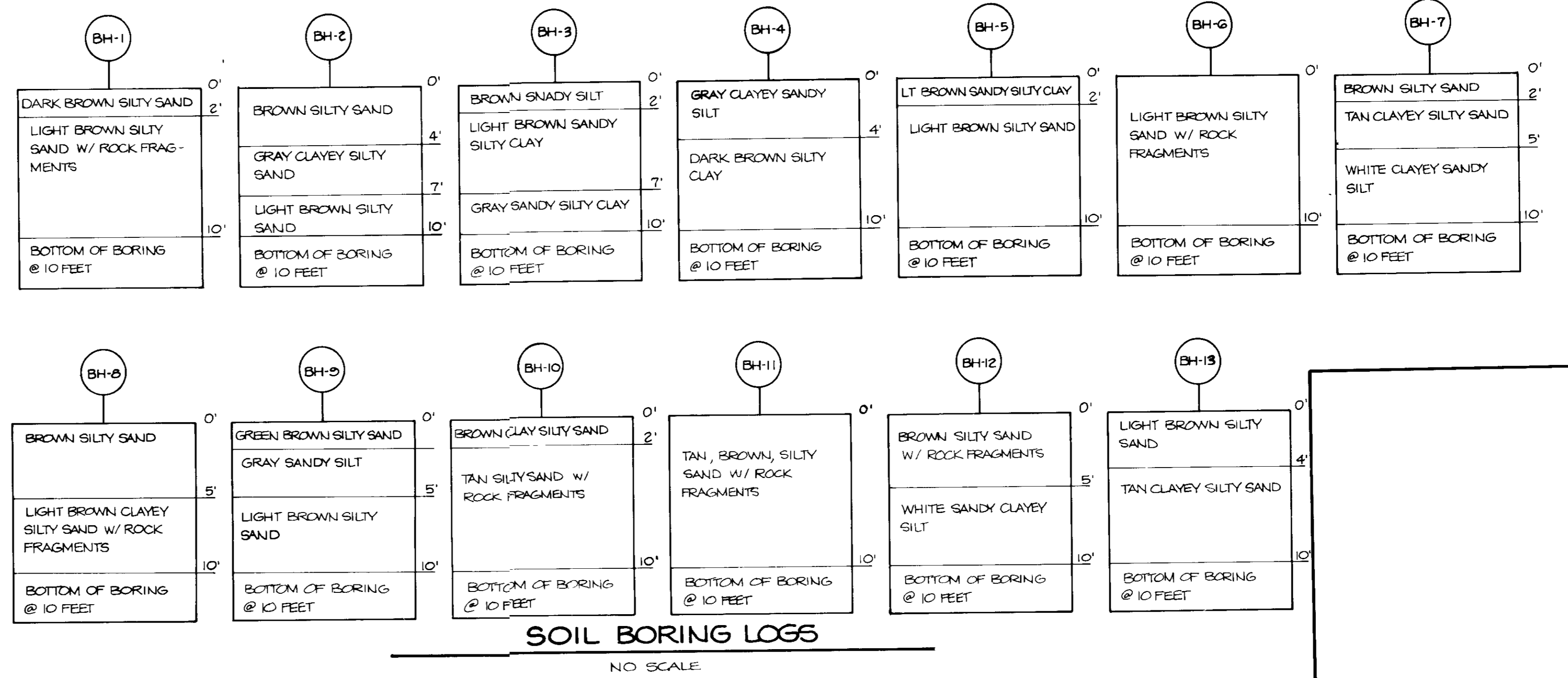
UNDERGROUND S.W.M. FACILITY NO. 4 TO INLET IT-4



UNDERGROUND S.W.M. FACILITY NO. 3 TO INLET IT-3



UNDERGROUND S.W.M. FACILITY NO. 2 TO INLET IT-2



BY THE DEVELOPER
 "I CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I WILL PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN 'AS-BUILT' PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT."
 [Signature] 11-18-95
 DEVELOPER DATE

BY THE ENGINEER
 "I CERTIFY THAT THIS PLAN FOR POND CONSTRUCTION, EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT. I HAVE NOTIFIED THE DEVELOPER THAT HE MUST PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN 'AS-BUILT' PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION."
 [Signature] 12-3-95
 ENGINEER DATE

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL.
 [Signature] 2/23/91
 U.S. SOIL CONSERVATION SERVICE DATE

THESE PLANS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.
 [Signature] 2/22/91
 HOWARD S.O.D. DATE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.
 [Signature] 2/12/91
 COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.
 [Signature] 2/25/91
 DIRECTOR DATE

APPROVED: CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT.
 [Signature] 2/25/91
 CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT DATE

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 [Signature] 2-5-91
 DIRECTOR DATE

CHIEF, BUREAU OF ENGINEERING
 [Signature] 2-10-91
 DATE

DATE	NO	REVISION

OWNER/DEVELOPER
 DENNIS MOBILE HOME PARK, INC
 8315 WASHINGTON BOULEVARD
 JESSUP, MARYLAND 20794

PROJECT: PARCEL A
BRENTWOOD MANOR
 (FORMERLY DENNIS MOBILE HOME PARK)

AREA: TAX MAP 43 F-88-142 PARCEL 132,504
 6TH ELECTION DISTRICT
 HOWARD COUNTY MARYLAND

TITLE: **STORMWATER MANAGEMENT DETAILS & SPECIFICATIONS**

RIEMER MUEGGE & ASSOCIATES, INC
 A Land Planning, Engineering and Consulting Firm
 3105 North Ridge Road Ellicott City, Maryland 21043
 301-461-2690 FAX 301-750-3176

DATE: 11-2-95
 DESIGNED BY M.G.K.
 DRAWN BY S.R.H.
 PROJECT NO 27802
 DATE JUNE 7, 1989
 SCALE AS SHOWN
 DRAWING NO 27 OF 30

AS-BUILT 8-11-96 SDF-88-105

