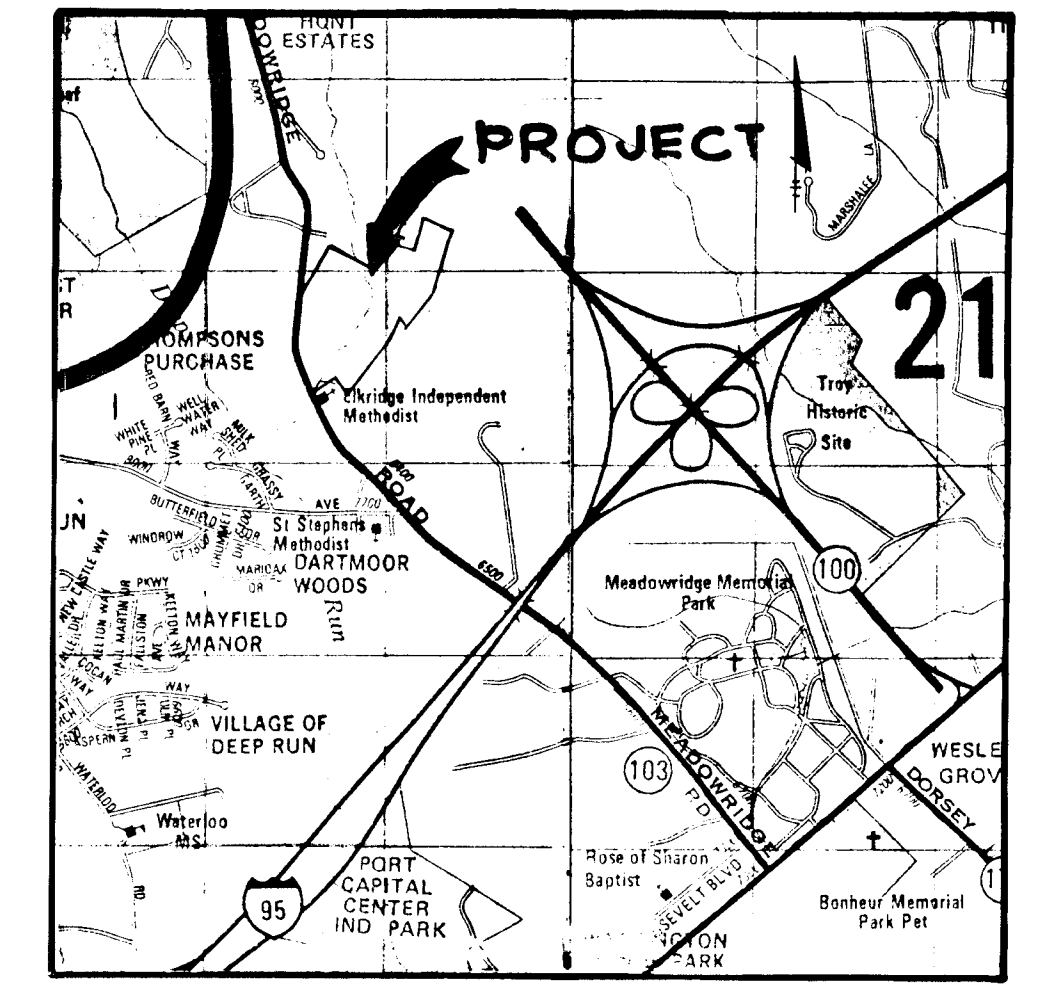


SHEET INDEX	
NO.	DESCRIPTION
1	TITLE SHEET
2	PLAN AND PROFILE OF MEADOWRIDGE ROAD AND WESLEY LANE
3	PLAN AND PROFILE KNOWLS COURT AND STRATFORD COURT
4	PLAN AND PROFILE MANCHESTER WAY AND SUTTON COURT
5	DETAIL SHEET
6	DRAINAGE AREA MAP AND SOILS MAP
7	STORM DRAIN PROFILES
8	GRADING AND S.W.M. AND SEDIMENT CONTROL PLAN
9	SEDIMENT CONTROL NOTE AND DETAILS
10	S.W.M. PROFILES AND DETAILS

ROADWAYS, STORM DRAINS & STORM WATER MANAGEMENT

WILLOWOOD SECTION 1 1ST ELECTION DISTRICT HOWARD COUNTY, MARYLAND



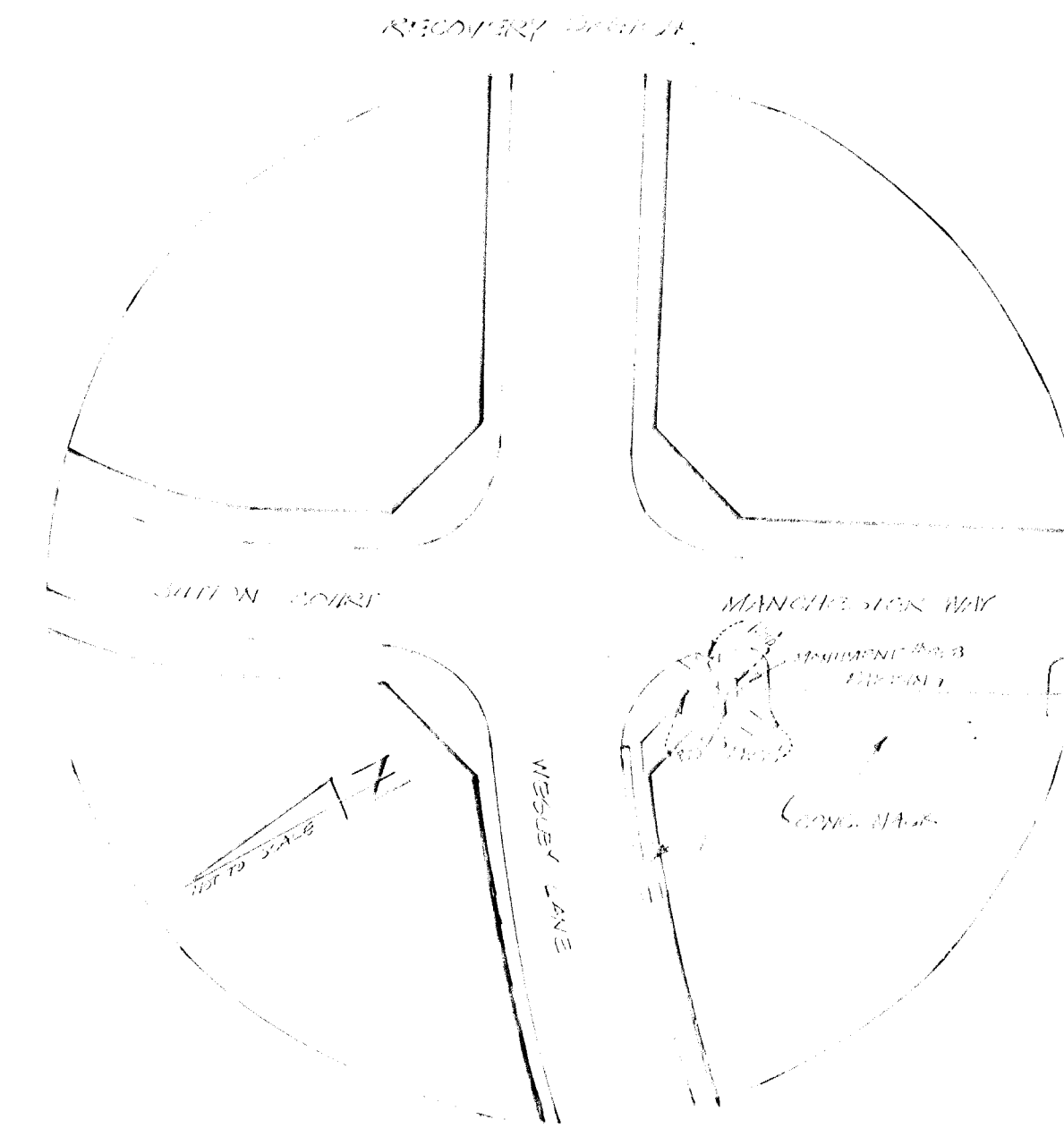
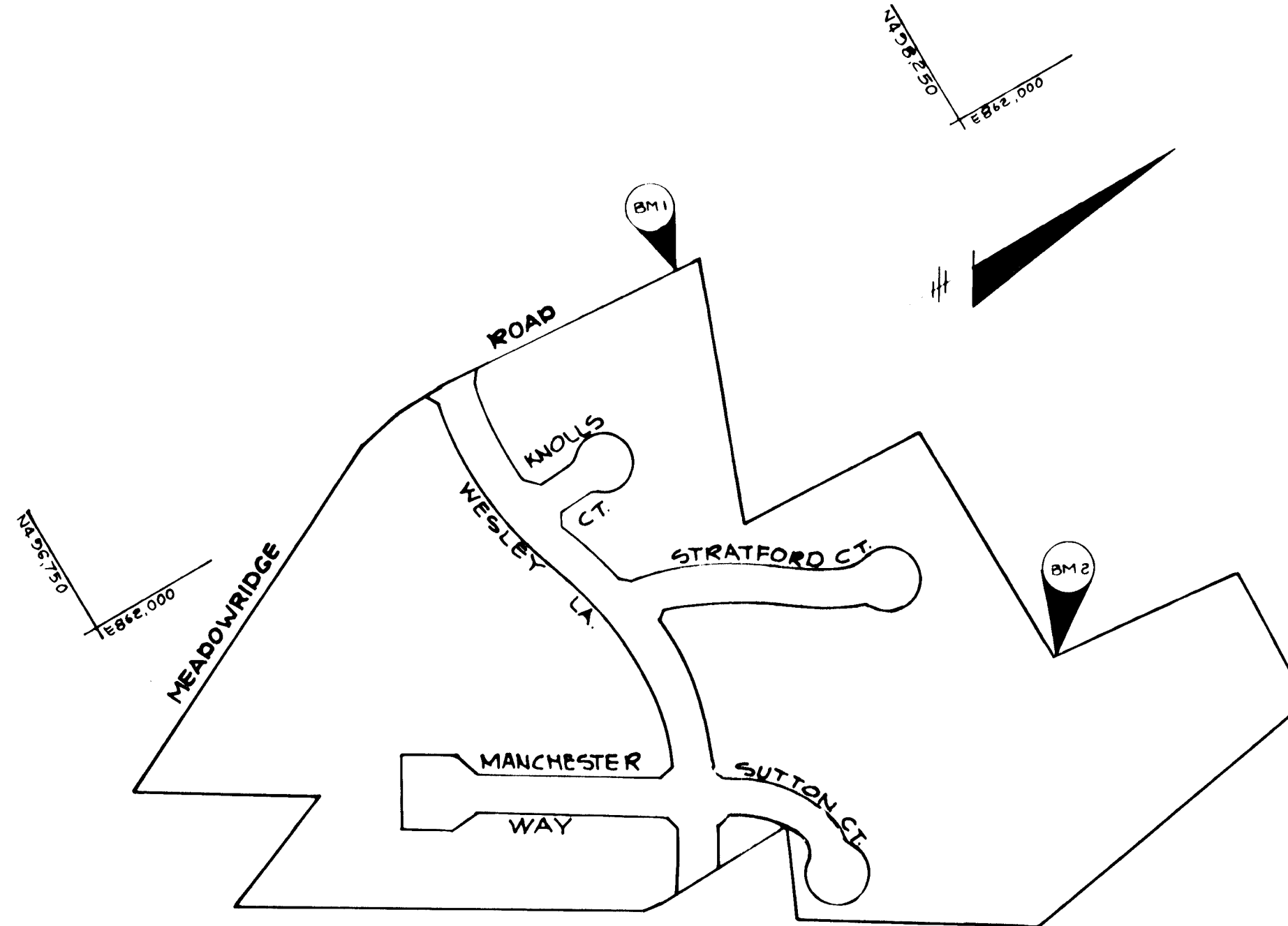
VICINITY MAP
SCALE: 1" = 2000'

GENERAL NOTES

- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL, VOL. IV, I.E., STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION.
- APPROXIMATE LOCATION OF EXISTING UTILITIES ARE SHOWN. 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 SHALL NOTIFY THE FOLLOWING UTILITIES AT LEAST FIVE (5) DAYS BEFORE STARTING WORK ON THESE DRAWINGS:

MISS UTILITY	1-800-257-7777
C&P TELEPHONE COMPANY	725-9976
AT&T CABLE LOCATION DIVISION	393-3553
BALTIMORE GAS AND 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 DESIGN MANUAL, VOL. IV, I.E., STANDARD SPECIFICATIONS AND DETAILS.
- STORM DRAIN BACKFILL WITHIN ROADWAYS, UNDER STRUCTURES AND FOR STORM DRAIN TRENCHES SHALL BE COMPACTED TO A MINIMUM OF 95% COMPACTION OF MAXIMUM DRY DENSITY AS DETERMINED BY ASTM 1557.
- NO PIPE SHALL BE LAID UNTIL LINES OF EXCAVATION HAVE BEEN BROUGHT WITHIN 6" OF FINISHED GRADE.
- 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.
- ALL STREET CURB RETURNS SHALL HAVE 35.0' RADII UNLESS OTHERWISE NOTED.
- ALL ELEVATIONS SHOWN ARE BASED ON U.S.G.S. MEAN SEA LEVEL DATUM, 1929.
- ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS.
- TOPO TAKEN FROM FIELD SURVEY DATED JULY, 1986.
- SUBJECT PROPERTY ZONED R-SC PER 8.2.85 COMPREHENSIVE ZONING PLAN.
- INSTALLATION OF TRAFFIC CONTROL DEVICES, MARKING, AND SIGNS SHALL BE IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES 1978 EDITION.
- DESIGNED TRAFFIC SPEED IN ACCORDANCE WITH THE AMERICAN ASSOCIATION OF STATE HIGHWAY OFFICIAL STANDARDS:

ALL 50' RIGHT-OF-WAYS 25± M.P.H.



APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING
[Signature] 2-3-87
 CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
[Signature] 2-2-87
 CHIEF, BUREAU OF ENGINEERING

DATE NO REVISION

OWNER/DEVELOPER
 CAPITAL HOMES INC.
 8102 ASPENWOOD WAY
 JESSUP, MARYLAND 20794

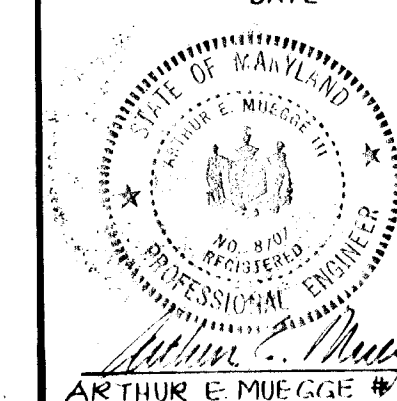
PROJECT
WILLOWOOD
 SECTION ONE

AREA TAX MAP 37 PARCELS 20, 30, 301
 1ST ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

TITLE
TITLE SHEET

THE RIEMER GROUP, INC.
 The Riemer Group, Inc. A Land Planning, Design & Civil Engineering Firm
 3106 Heath Park Drive, Ellicott City, Maryland 21043 (301) 461-2800

DATE 10-15-86
 COUNTY FILE REF 8-86-23
 P.D. CODE # 186 P-86-33, VP 8702
 DESIGNED BY JDP
 DRAWN BY DDB
 PROJECT NO: 29700
 DATE: AUGUST 22, 1986
 SCALE: AS SHOWN
 DRAWING NO. 1 OF 10



AS-BUILT NOV. 1987 (REVISED 1988)
 SUPERVISOR GEORGE W. WESBOR IS RESPONSIBLE FOR ALL AS-BUILT INFORMATION ONLY

PLAN
 SCALE: 1" = 200'

DENSITY AND OPEN SPACE TABULATION

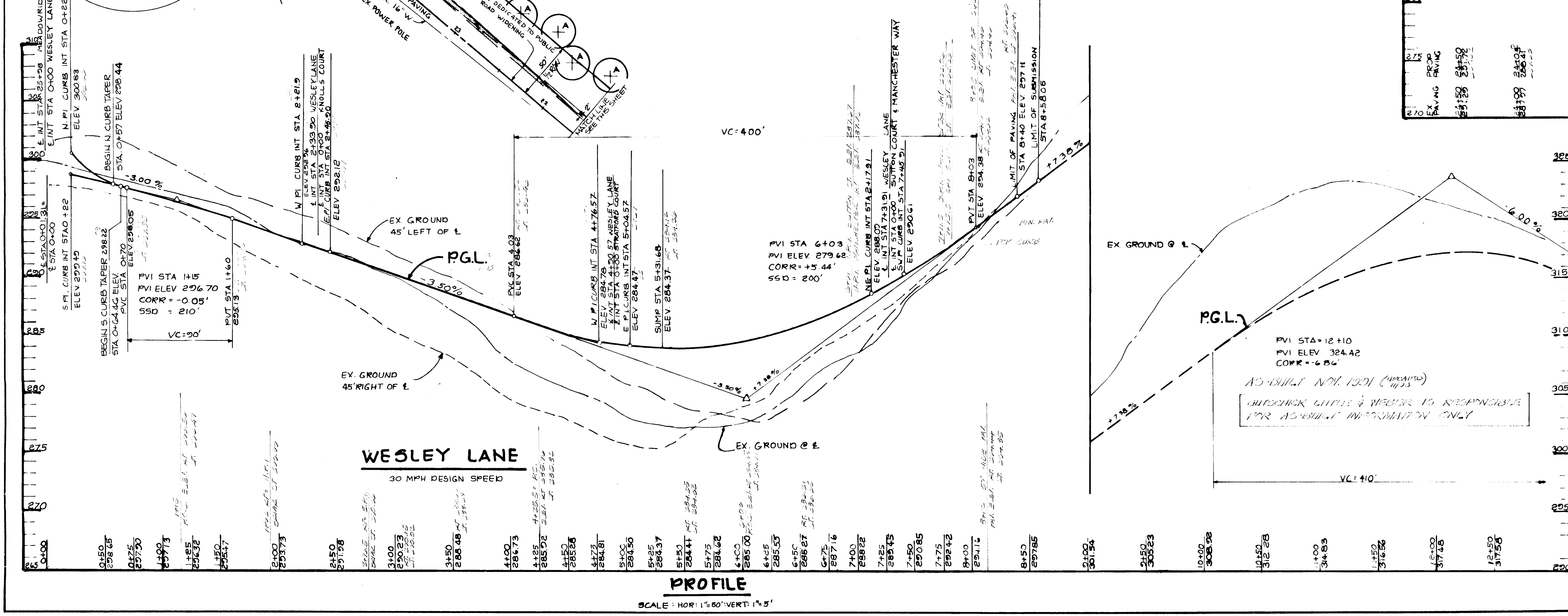
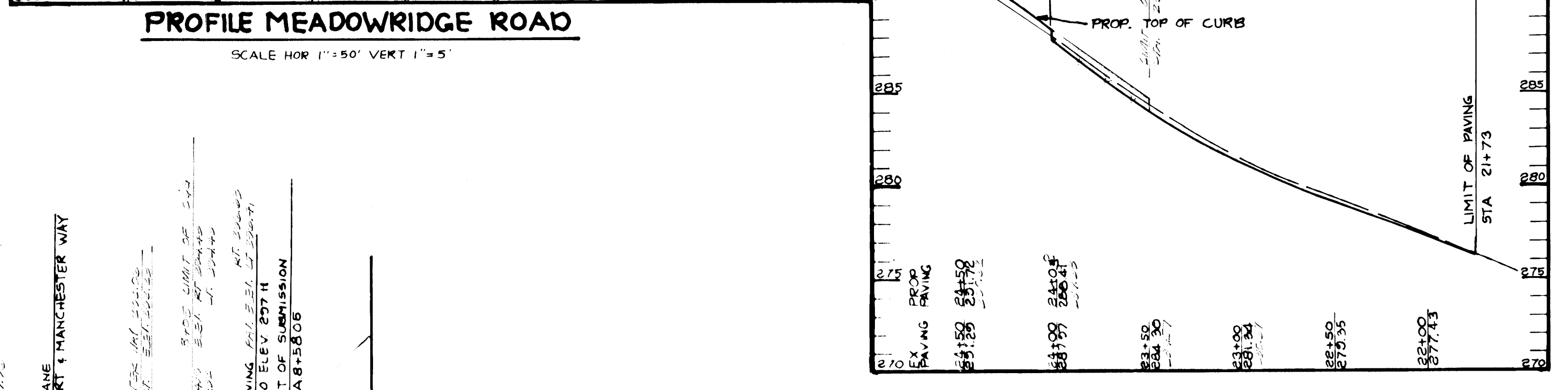
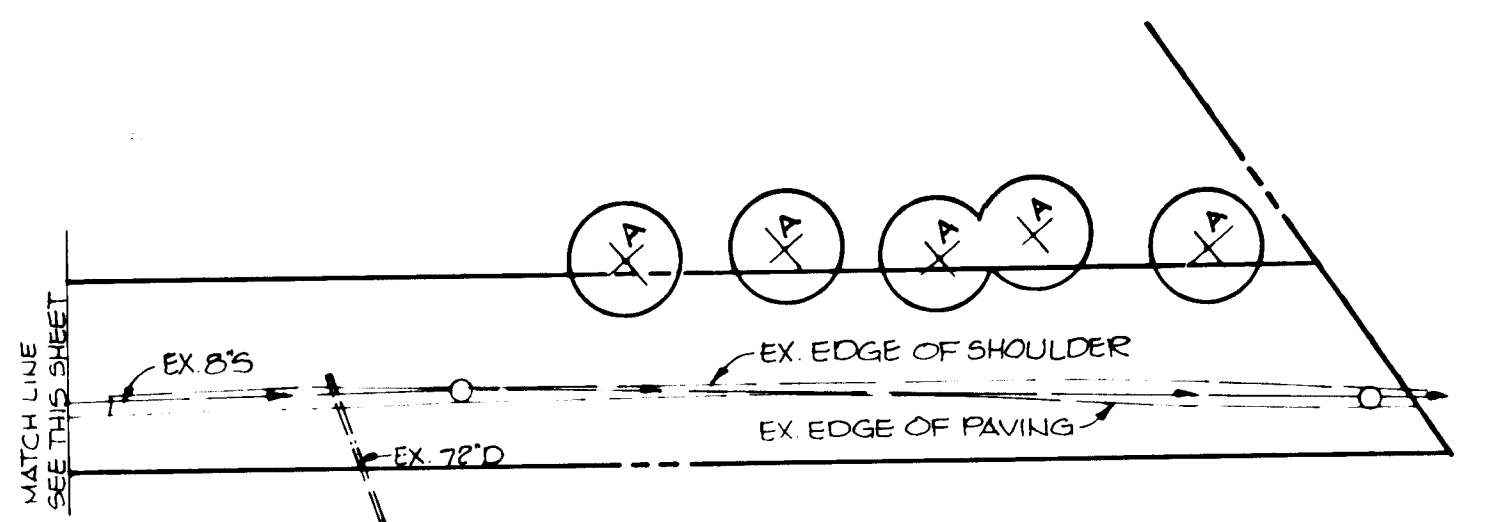
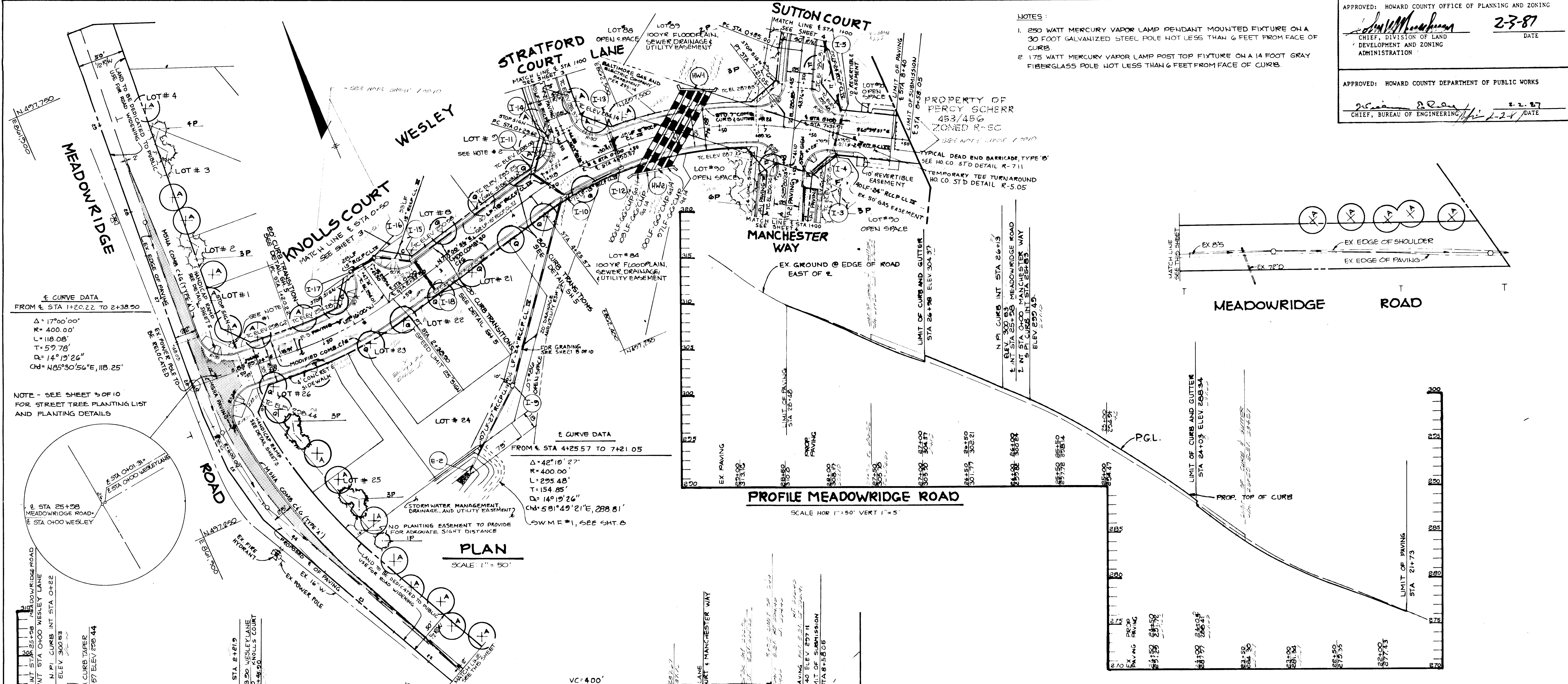
GROSS AREA	FLOODPLAIN STEEP SLOPES	NET AREA	NO. OF DWELLING UNITS ALLOWED	FLOODPLAIN LOT ADJUSTMENT	TOTAL NO. OF DU. PROPOSED	TOTAL NO. OF DU. ALLOWED	DENSITY PER ACRE	OPEN SPACE REQUIRED	OPEN SPACE PROVIDED
21.878 Ac.	3.020 Ac.	18.858 Ac.	75	8	83	83	3.8 DU/Ac.	4.378 Ac. (20%)	10.571 Ac. (48%)

[Signature] 2-3-87
 CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION
 DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

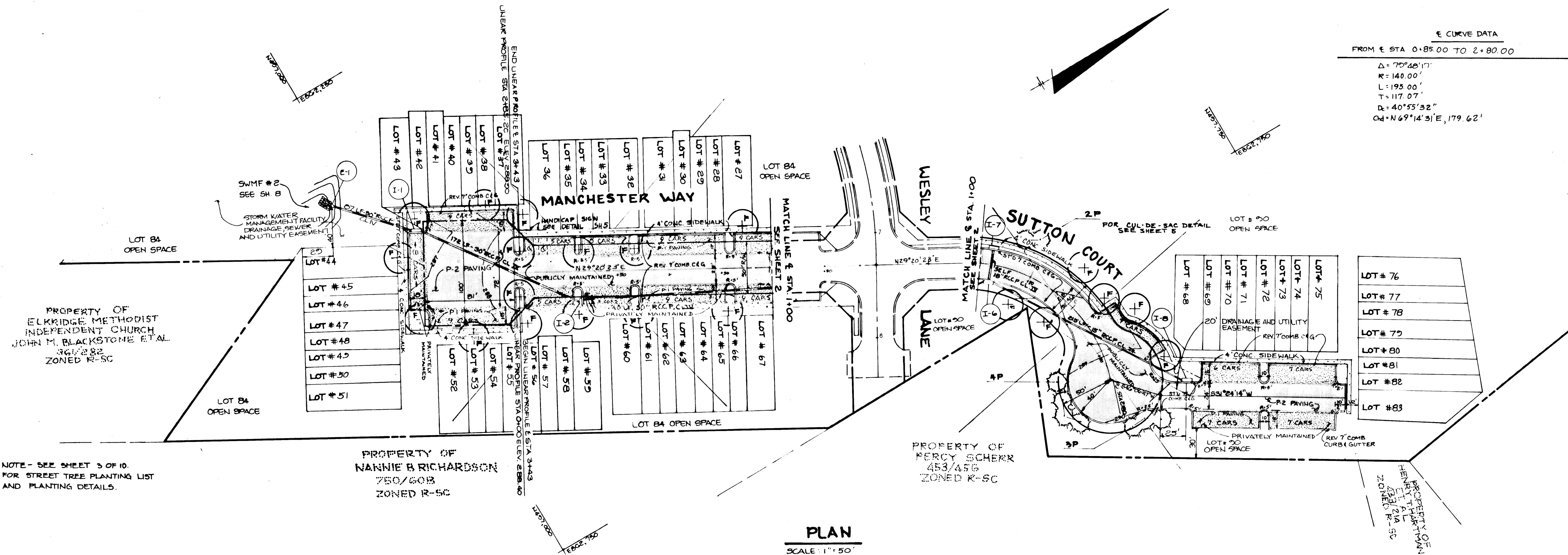
[Signature] 2-2-87
 CHIEF, BUREAU OF ENGINEERING
 DATE

- NOTES:
- 250 WATT MERCURY VAPOR LAMP PENDANT MOUNTED FIXTURE ON A 30 FOOT GALVANIZED STEEL POLE NOT LESS THAN 6 FEET FROM FACE OF CURBS.
 - 175 WATT MERCURY VAPOR LAMP POST TOP FIXTURE ON A 14 FOOT GRAY FIBERGLASS POLE NOT LESS THAN 6 FEET FROM FACE OF CURBS.



7-15-00	1	REVISED PAVEMENT WIDTH OF WESLEY LANE
DATE	NO	REVISION
OWNER/DEVELOPER CAPITAL HOMES INC 8102 ASPENWOOD WAY JESSUP, MARYLAND 20794		
PROJECT WILLOWOOD SECTION ONE		
AREA TAX MAP 37 PARCELS 70, 130, 301 1ST ELECTION DISTRICT HOWARD COUNTY, MARYLAND		
TITLE PLAN AND PROFILE OF MEADOWRIDGE ROAD AND WESLEY LANE		
THE RIEMER GROUP, INC. The Riemer Group, Inc. A Land Planning, Design & Civil Engineering Firm 3105 Health Park Drive, Ellicott City, Maryland 21043 (301) 461-2690		
16-18-86 DATE		COUNTY FILE REF 5-86-29 PB CASE #86-P-86-92-NP-87-02
		DESIGNED BY: DAM
		DRAWN BY: D.D.B.
		PROJECT NO: 29700
		DATE: AUGUST 22, 1986
		SCALE: AS SHOWN
		DRAWING NO. 2 OF 10

E CURVE DATA
 FROM E STA 0+85.00 TO 2+80.00
 $\Delta = 70^\circ 46' 17''$
 $R = 140.00'$
 $L = 195.00'$
 $T = 117.07'$
 $D = 40^\circ 55' 32''$
 $Cd = N 69^\circ 14' 31'' E, 179.62'$



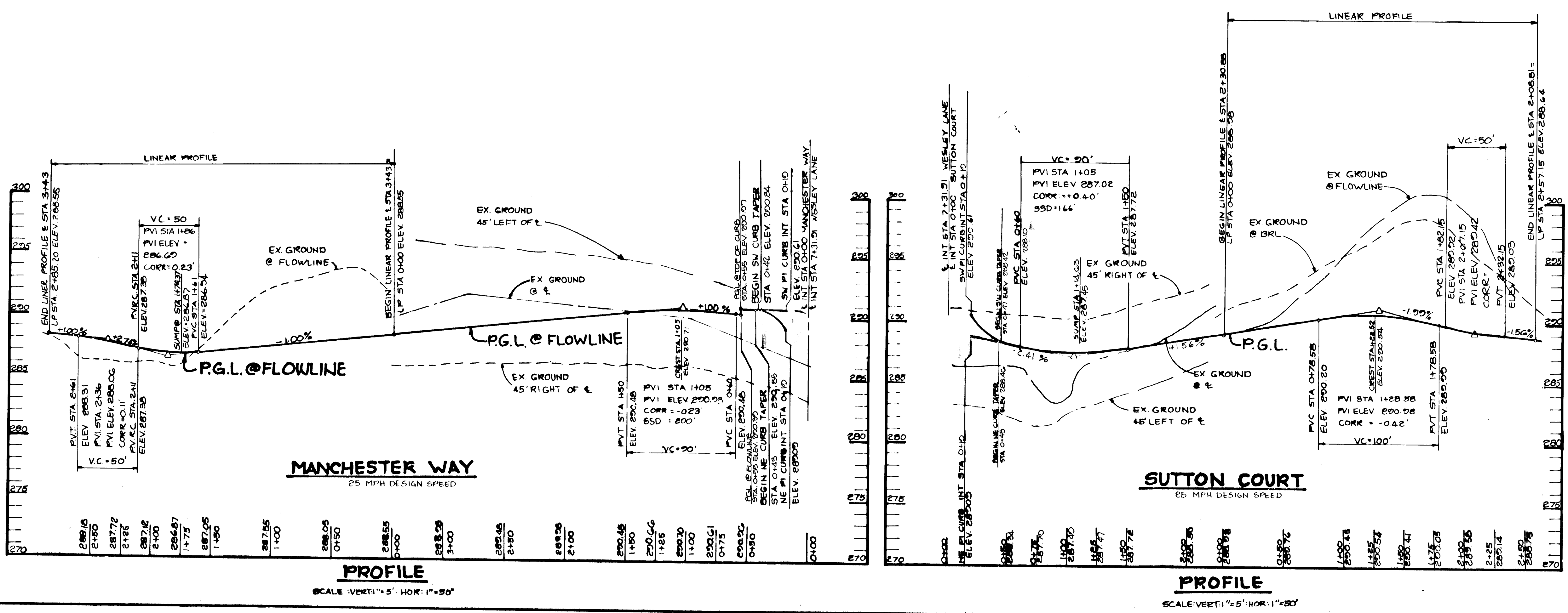
PLAN
 SCALE: 1" = 50'

NOTE - SEE SHEET 3 OF 10 FOR STREET TREE PLANTING LIST AND PLANTING DETAILS.

PROPERTY OF NANNIE B RICHARDSON
 750/603
 ZONED R-5C

PROPERTY OF PERCY SCHERR
 453/456
 ZONED R-5C

PROPERTY OF HENRY T. HARTMAN
 453/456
 ZONED R-5C



NOTE: NO AS-BUILT INFORMATION SHOWN ON THIS SHEET; THIS PORTION WILL BE DONE UNDER FUTURE WORK.

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING
John W. Murchman Z-387
 CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
William J. Reay 2-2-87
 CHIEF, BUREAU OF ENGINEERING DATE

7-18-80 / 1 REVISED ROAD PROFILES

DATE	NO.	REVISION

OWNER/DEVELOPER
 CAPITAL HOMES INC.
 8102 ASPENWOOD WAY
 JESSUP, MARYLAND 20724

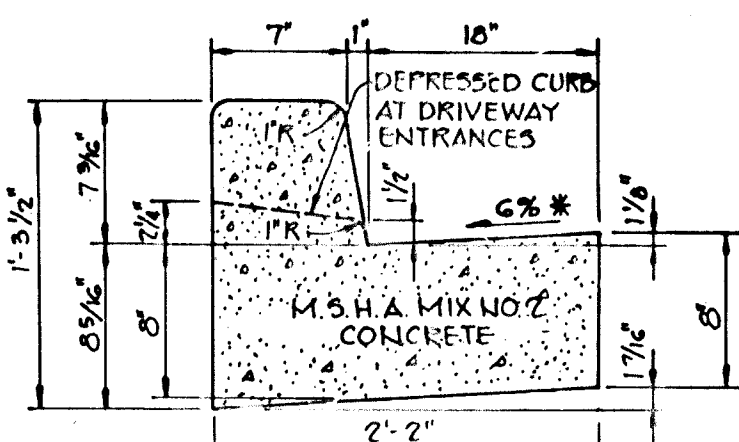
PROJECT: **WILL OWOOD SECTION ONE**
 AREA TAX MAP 37 PARCELS 70,137,301
 1ST ELECTION DISTRICT HOWARD COUNTY, MARYLAND

TITLE: **PLAN AND PROFILE MANCHESTER WAY AND SUTTON COURT**

THE RIEMER GROUP, INC.
 The Riemer Group, Inc. A Land Planning, Design & Civil Engineering Firm
 3105 Health Park Drive, Ellicott City, Maryland 21043 (301) 461-2890

COUNTY FILE REF 8-86-23
 P.D. CASE # 186, P-86-50, NR8702
 DESIGNED BY: DAM
 DRAWN BY: S.V.M.
 PROJECT NO: 25700
 DATE: AUGUST 22, 1986
 SCALE: AS SHOWN
 DRAWING NO. 4 OF 10

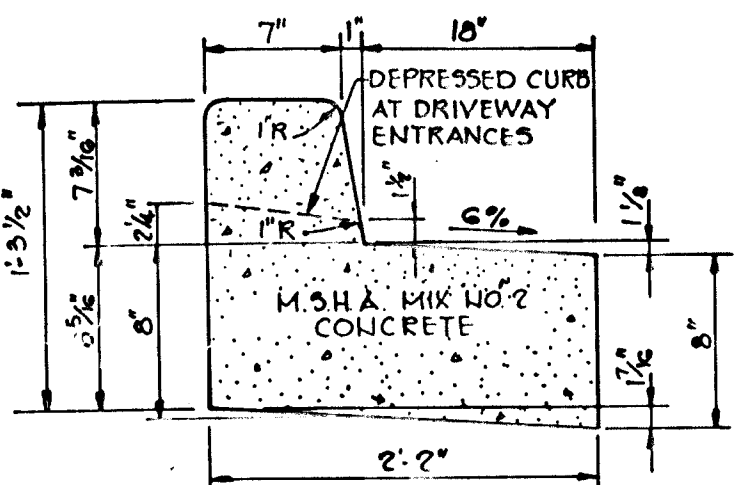
DATE: 10-12-86
 PROFESSIONAL ENGINEER
 ARTHUR E. MUEGGEL #6107



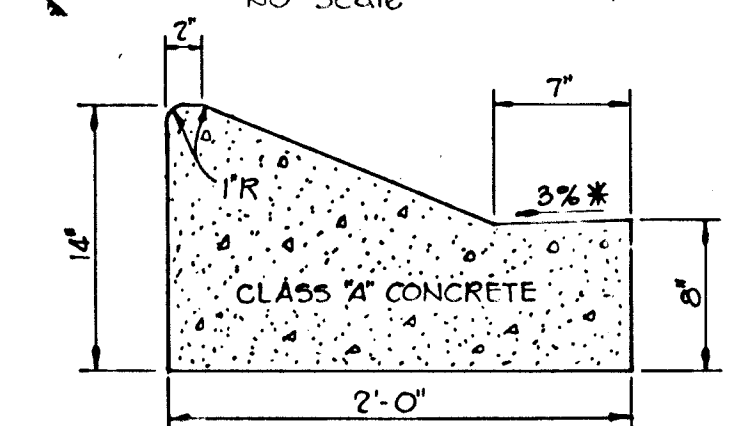
HOWARD COUNTY DESIGN MANUAL VOLUME IV - STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION (DRAWING R-201)

* GUTTER PAN AT THE MEDIAN EDGE OF INTERMEDIATE ARTERIALS OR THE HIGH SIDE OF SUPERELEVATED SECTIONS SHALL BE SLOPED AT THE SAME RATE AS THE PAVEMENT.

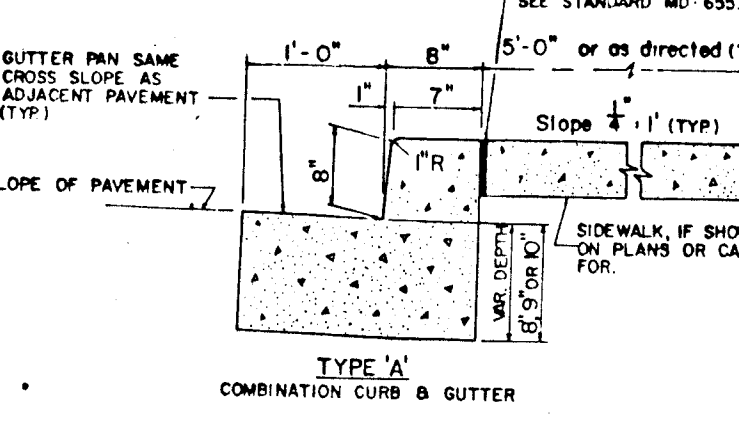
STANDARD 7" COMBINATION CURB AND GUTTER
NO SCALE



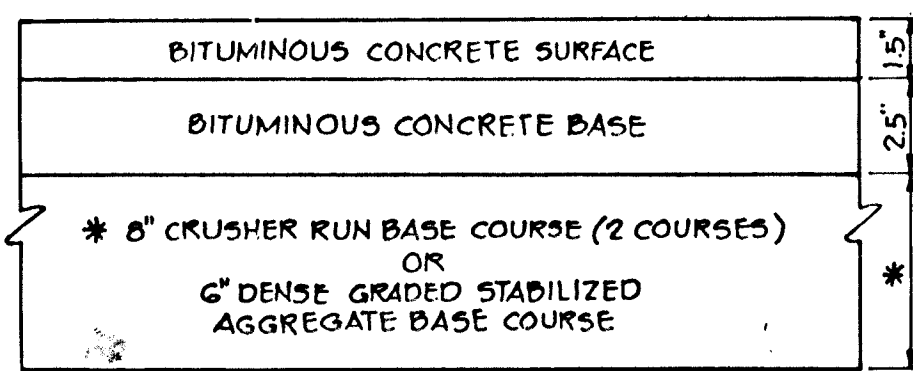
REVERSE 7" COMBINATION CURB AND GUTTER
NO SCALE



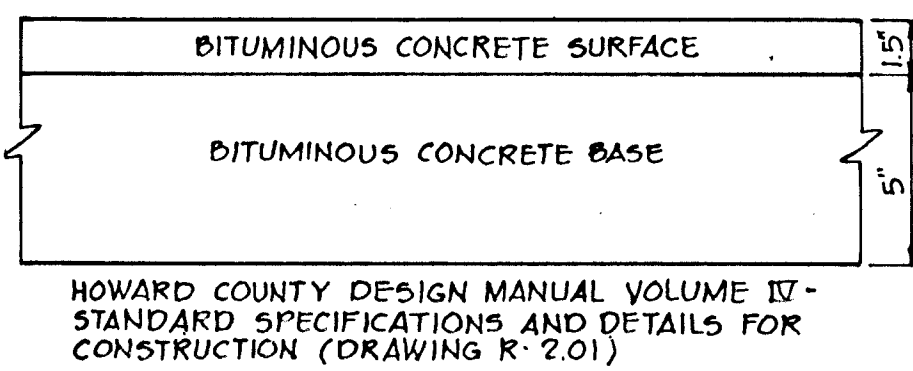
MODIFIED COMBINATION CURB AND GUTTER
NO SCALE



M.S.H.A. TYPE 'A' CURB AND GUTTER
NO SCALE

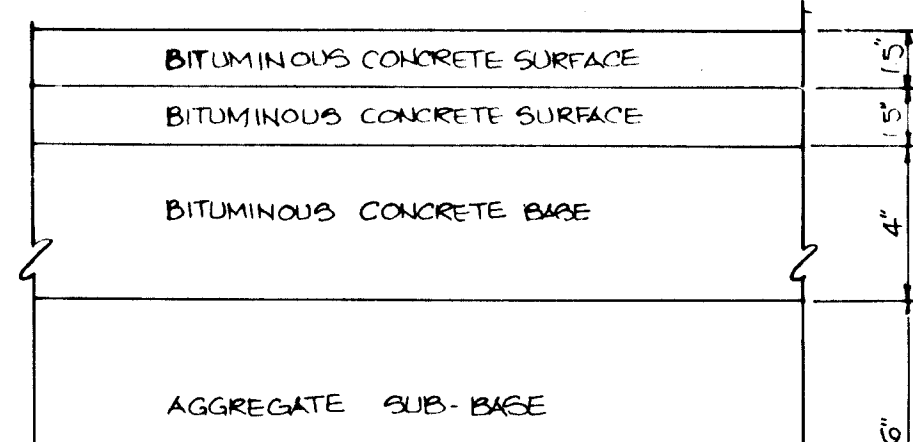


(ALTERNATE)



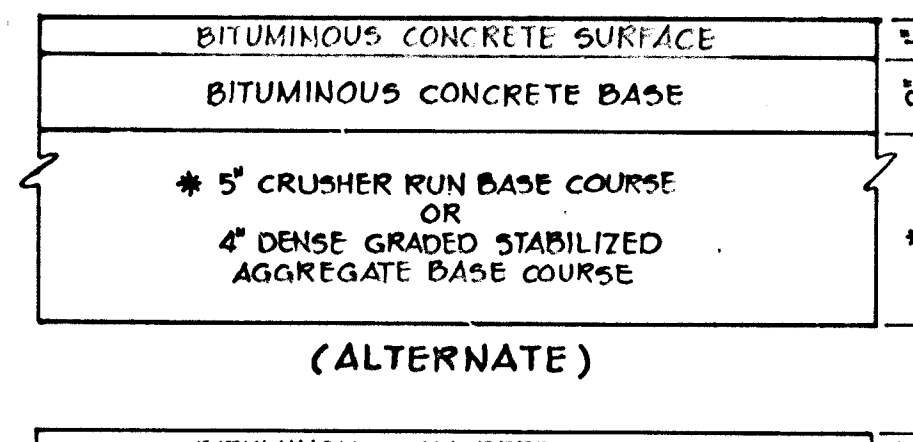
(6 1/2" PAVING, P-2)
NO SCALE

HOWARD COUNTY DESIGN MANUAL VOLUME IV - STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION (DRAWING R-201)

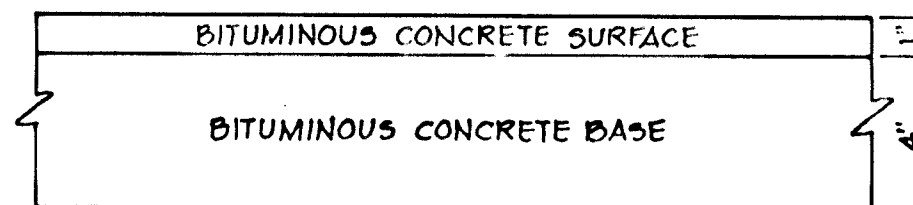


M.S.H.A. PAVING SECTION
NO SCALE

MD RTE 103 WIDENING - 15" PAVING



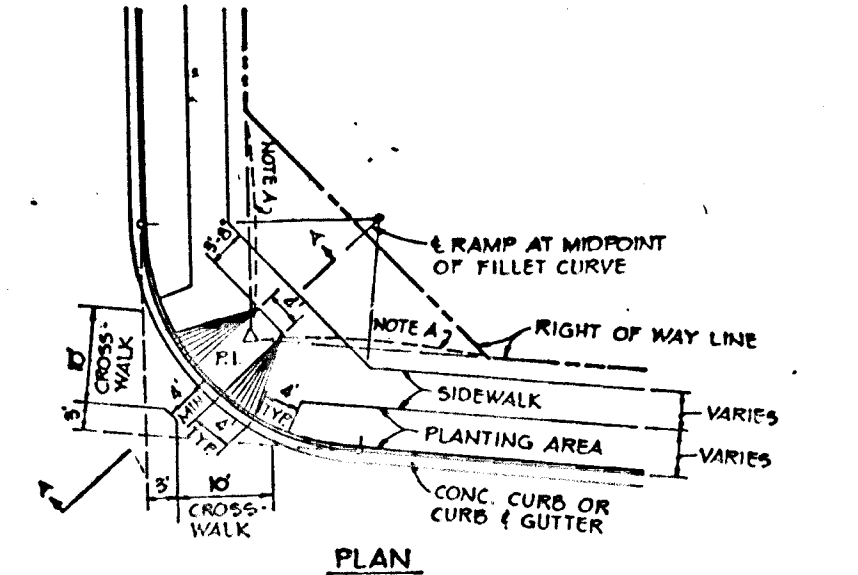
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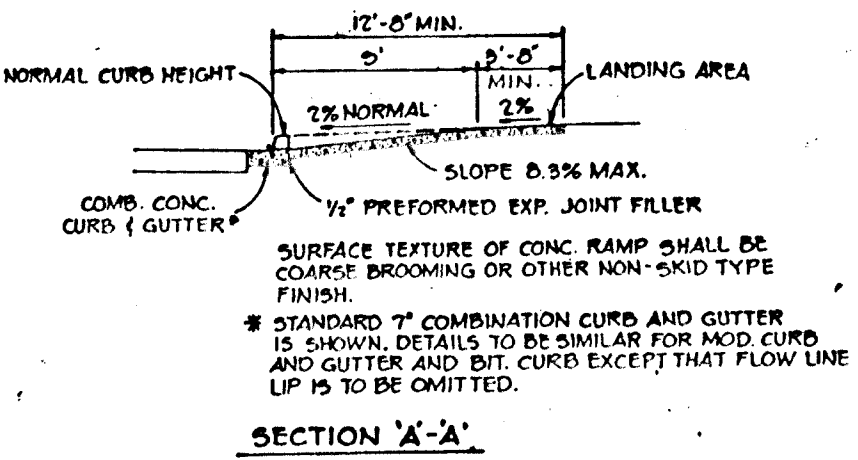
HOWARD COUNTY DESIGN MANUAL VOLUME IV - STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION (DRAWING R-201)

(5" PAVING, P-1)
NO SCALE

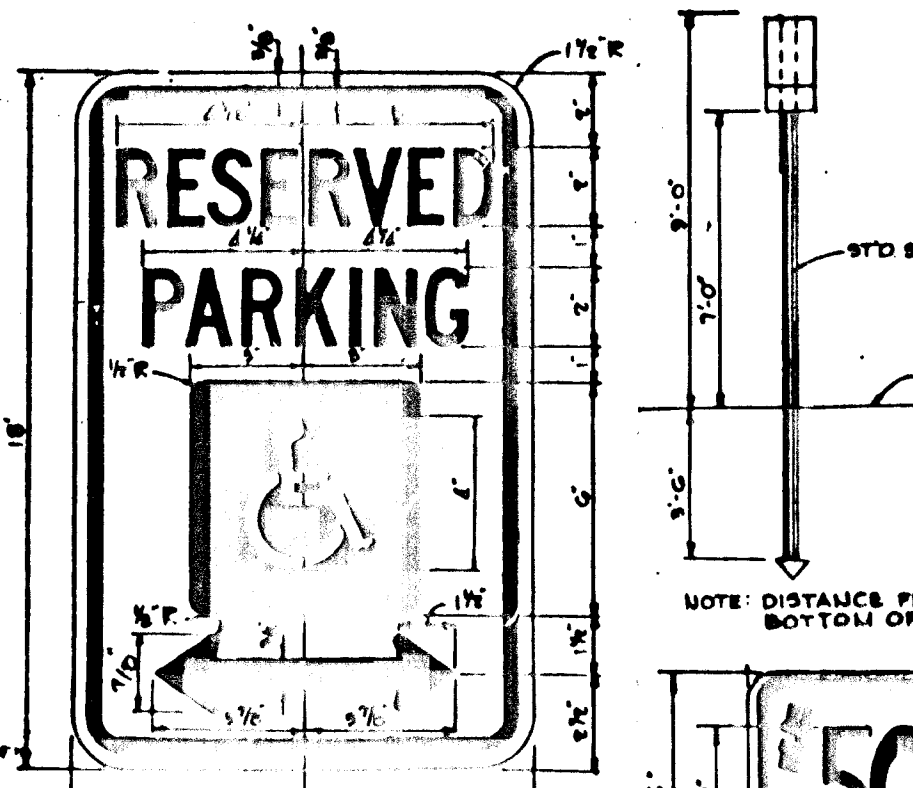
NOTES:
A. RIGHT OF WAY LINE TRUNCATION TO BE SET 25' FROM P1 ALONG EACH OF THE INTERSECTING LINES AS SET FORTH IN SECTION 10-115, PART F3 OF SUBDIVISION REGULATIONS. MINIMUM DISTANCE BETWEEN BACK OF SIDEWALK AND RIGHT OF WAY LINE TO BE 1 FOOT.
B. TYPE 'A' RAMP TO BE USED FOR ALL NEW CONSTRUCTION WHERE APPLICABLE UNLESS OTHERWISE DIRECTED BY D.P.W.



PLAN

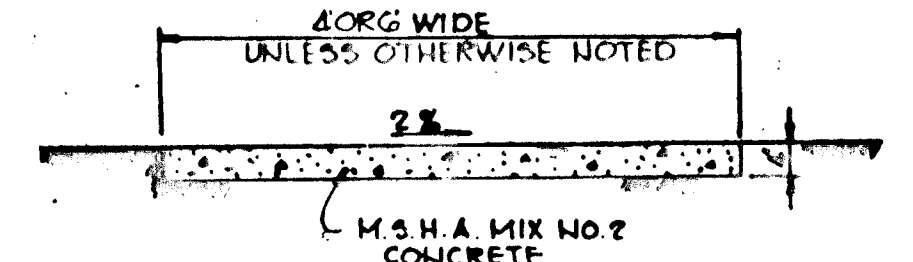


TYPICAL HANDICAP RAMP
NO SCALE

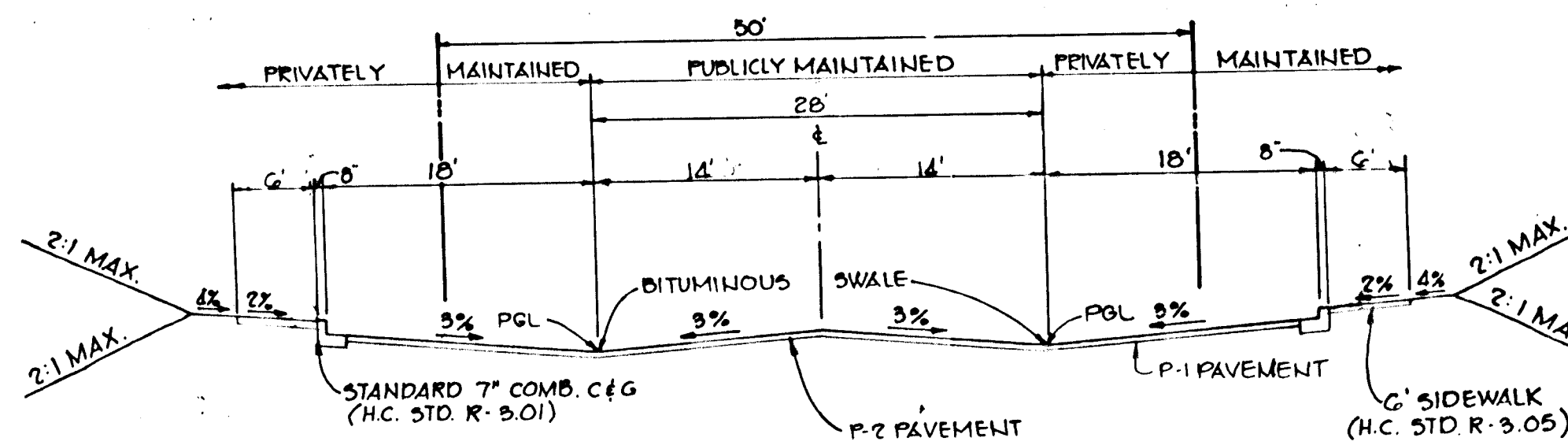


LEGEND AND BORDER - GREEN
WHITE SYMBOLS ON BLUE BACKGROUND
BACKGROUND - WHITE

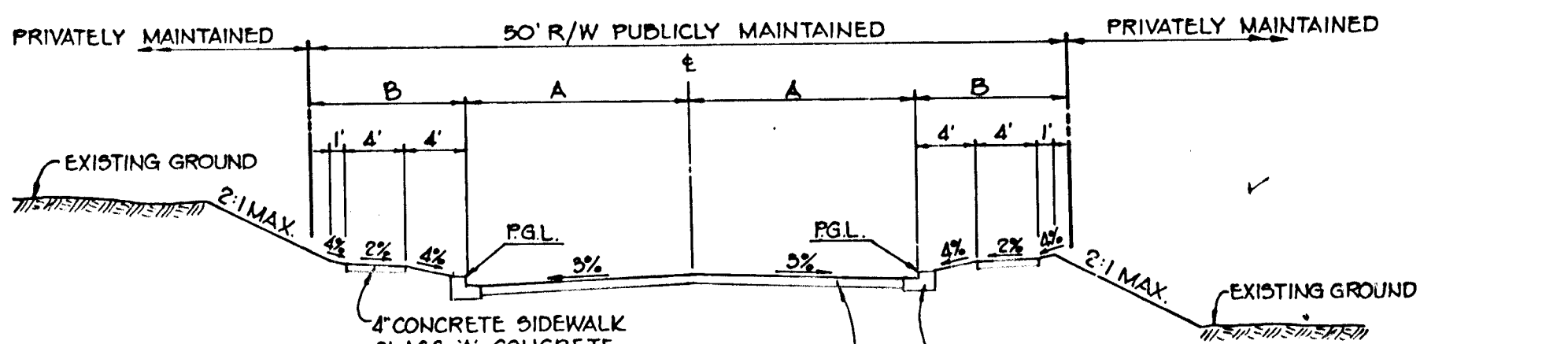
HANDICAP SIGN
NO SCALE



SIDEWALK DETAIL
NO SCALE

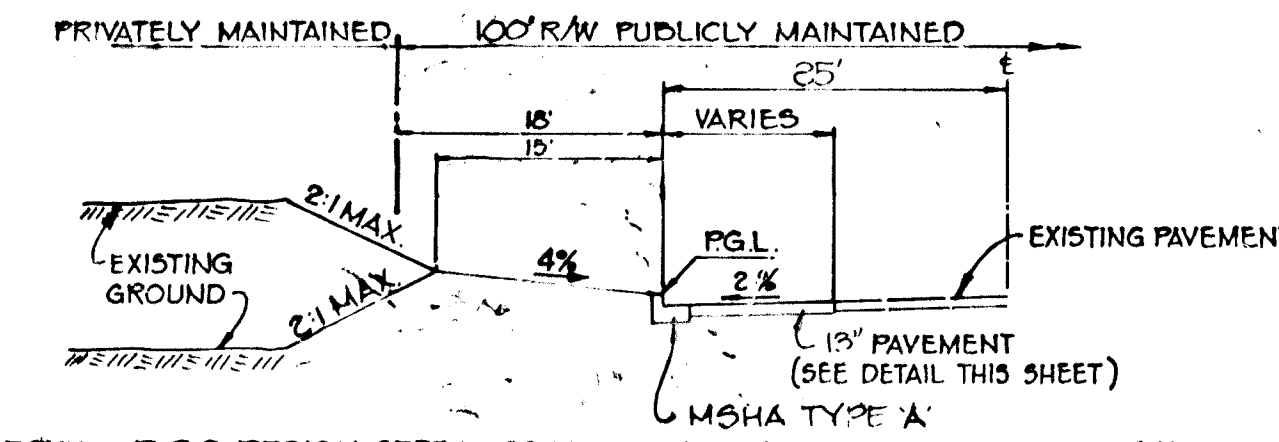


TYPICAL SECTION - MANCHESTER WAY
NO SCALE

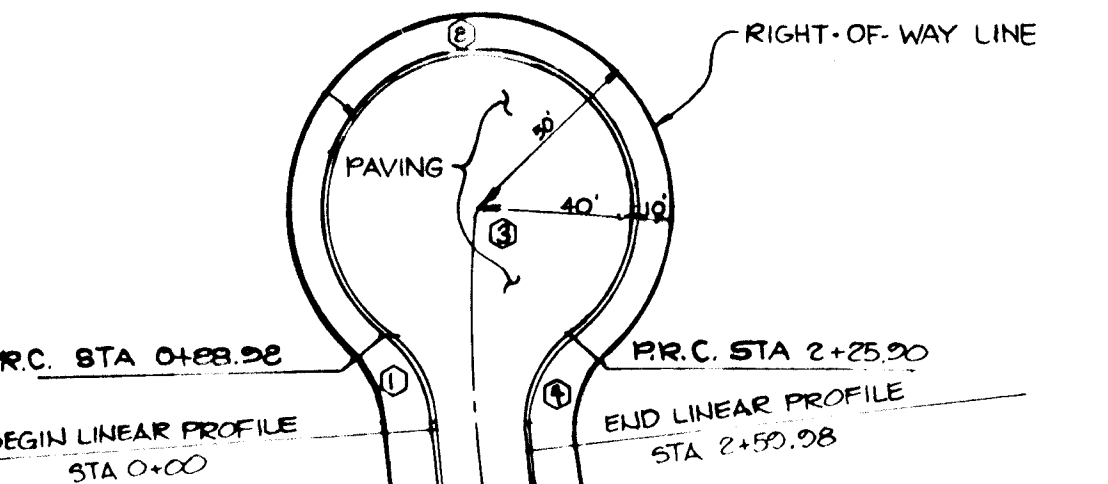


TYPICAL SECTION - 50' R/W
NO SCALE

CLASSIFICATION	ROAD NAME	A	B	ZONING	DESIGN SPEED
CUL-DE-SAC	KNOLLS COURT	12'	13'	R S C	25 MPH
CUL-DE-SAC	STRATFORD COURT	14'	11'	R S C	25 MPH
CUL-DE-SAC	SUTTON COURT	14'	11'	R S C	25 MPH

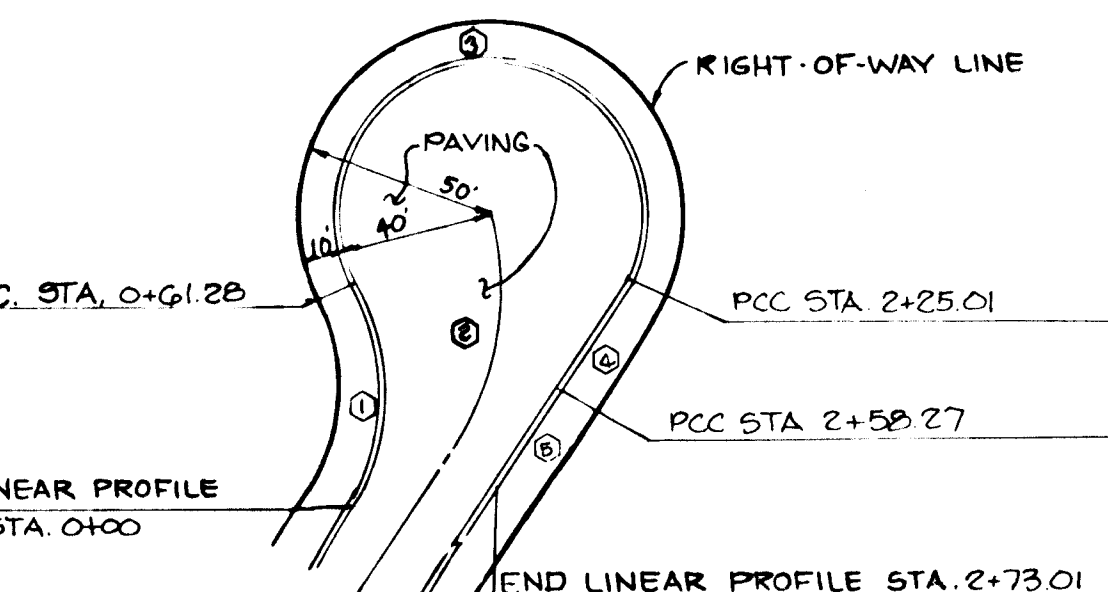


ROAD WIDENING FOR MEADOWRIDGE RD.
NO SCALE



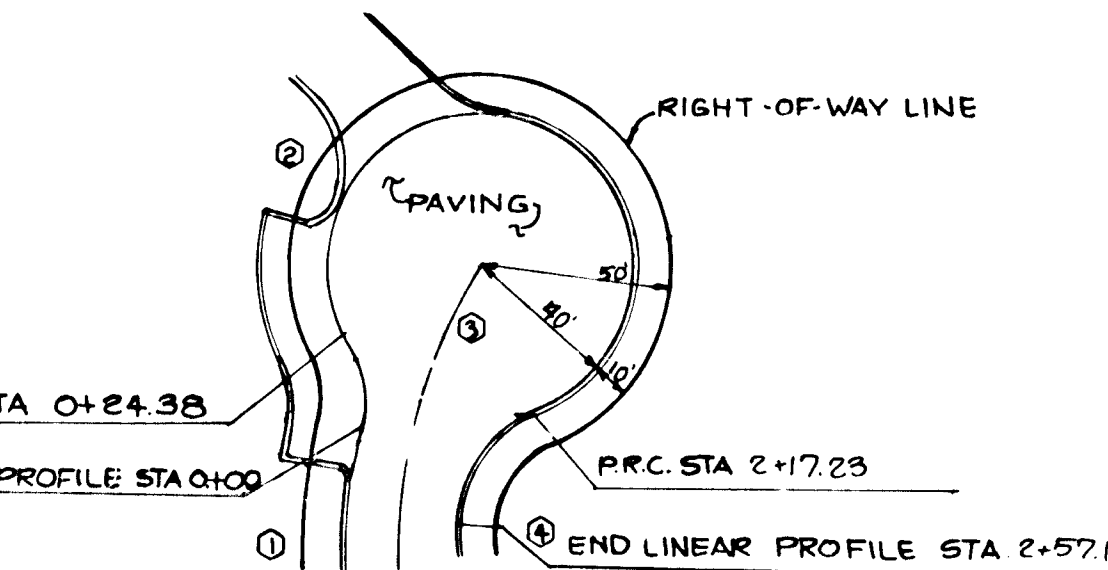
**CUL-DE-SAC DETAIL
KNOLLS COURT**
NO SCALE

CURVE	RADIUS	LENGTH	Δ	TANGENT
(1)	35.00'	28.92'	47°20'23"	15.34'
(2)	40.00'	19.62'	28°08'22"	-
(3)	400.00'	50.00'	12°53'30"	45.19'
(4)	35.00'	34.08'	69°42'06"	18.53'



**CUL-DE-SAC DETAIL
STRATFORD COURT**
NO SCALE

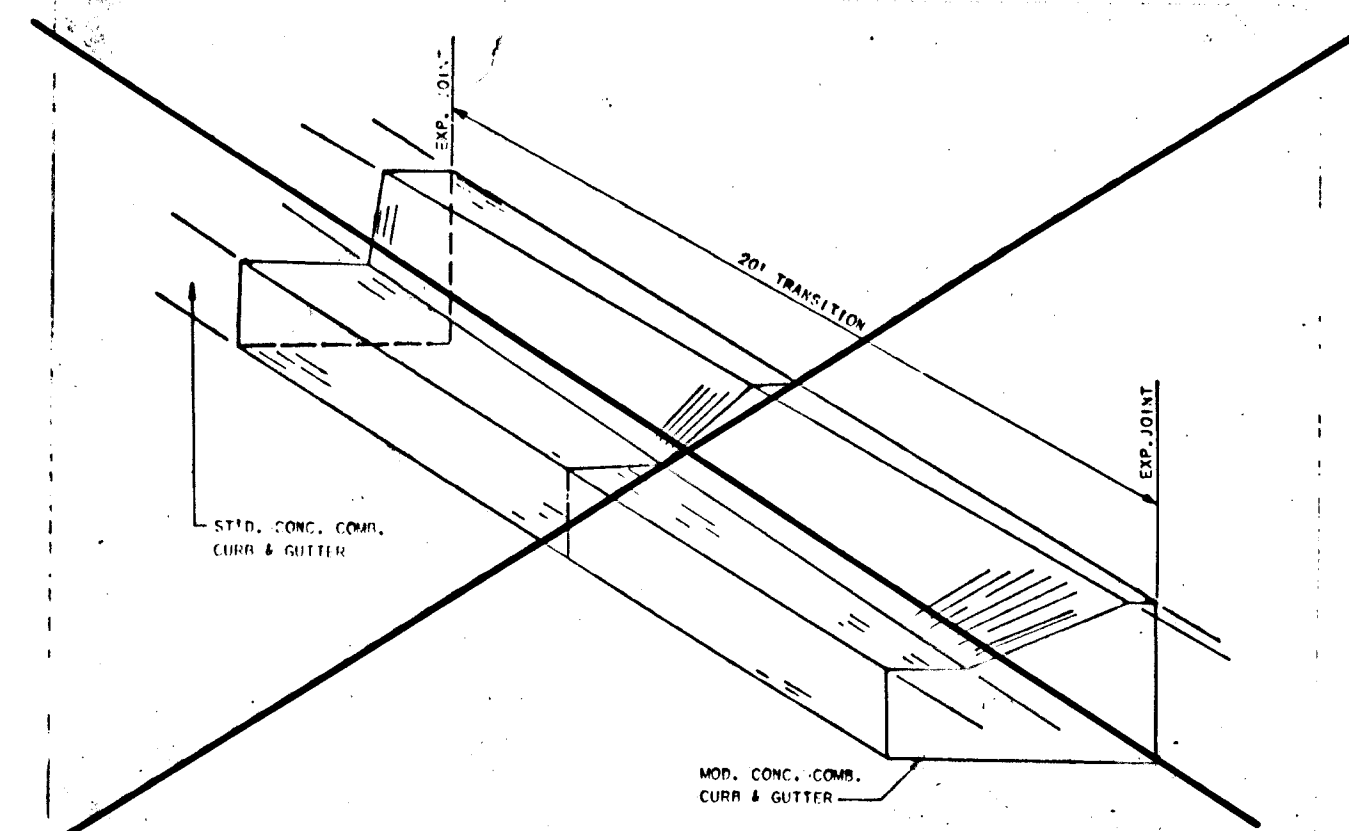
CURVE	RADIUS	LENGTH	Δ	TANGENT
(1)	60.00'	61.28'	58°21'00"	33.61'
(2)	70.00'	65.06'	49°42'10"	34.74'
(3)	40.00'	16.373'	234°32'00"	-
(4)	40.000'	33.26'	03°53'22"	16.24'
(5)	386.00'	27.46'	04°22'20"	14.74'



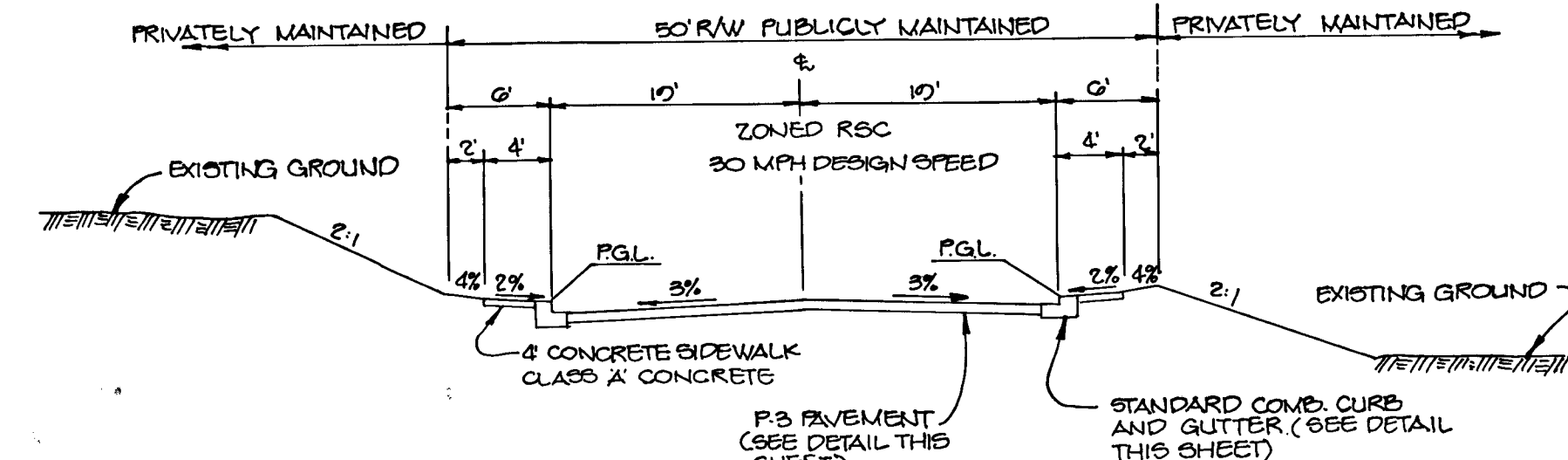
**CUL-DE-SAC DETAIL
SUTTON COURT**
NO SCALE

CURVE	RADIUS	LENGTH	Δ	TANGENT
(1)	35.00'	24.38'	30°54'36"	12.71'
(2)	40.00'	19.285'	23°18'22"	-
(3)	140.00'	105.00'	70°48'17"	117.07'
(4)	35.00'	30.92'	65°20'44"	22.45'

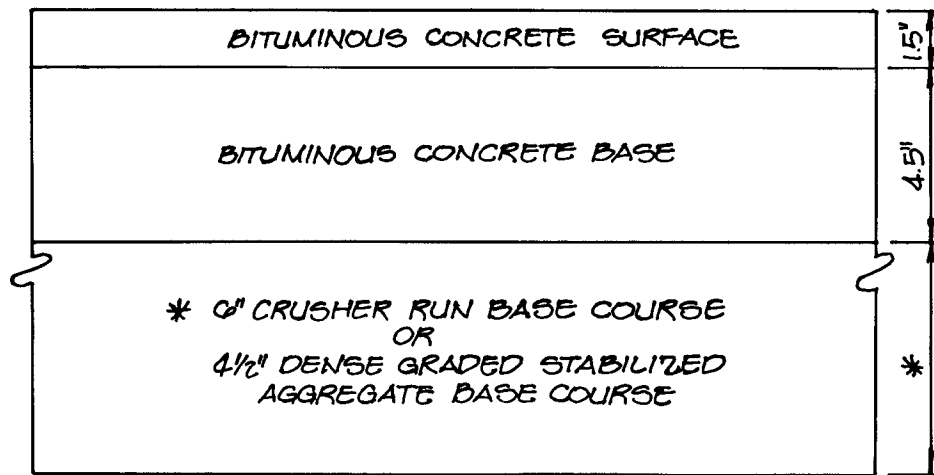
NO AG-BUILT INFORMATION SHOWN ON THIS SHEET



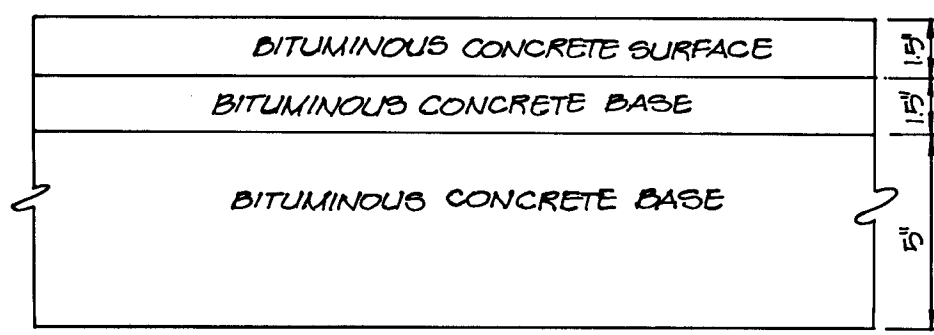
**CONCRETE CURB AND GUTTER
TRANSITION**
NO SCALE



TYPICAL SECTION FOR WESLEY LANE
NO SCALE



(ALTERNATE)



P-3 PAVING DETAIL
NO SCALE

HOWARD COUNTY DESIGN MANUAL VOLUME IV - STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION (DRAWING R-201)

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING
John M. Marchman 2-3-87
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
William B. Ray 2-2-87
CHIEF, BUREAU OF ENGINEERING

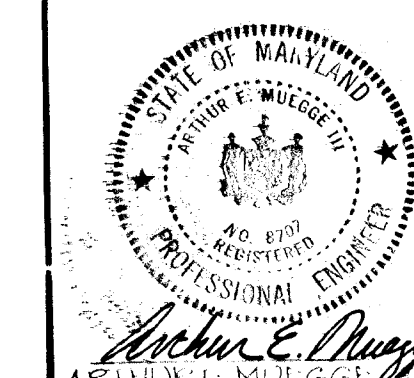
7-20-00 | ADDED TYPICAL SECTION FOR WESLEY LANE P-3 PAVING DETAIL
DATE NO. REVISION
OWNER/DEVELOPER
CAPITAL HOMES INC
8102 ASPENWOOD WAY
JESSUP, MARYLAND 20794

PROJECT: WILLOWOOD SECTION ONE
AREA TAX MAP: 207 PARCEL L 175, 184, 201
1ST ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

TITLE: DETAIL SHEET

THE RIEMER GROUP, INC.
The Riemer Group, Inc. A Land Planning, Design & Civil Engineering Firm
3105 14th Park Drive, Ellicott City, Maryland 21043 (301) 481-2690

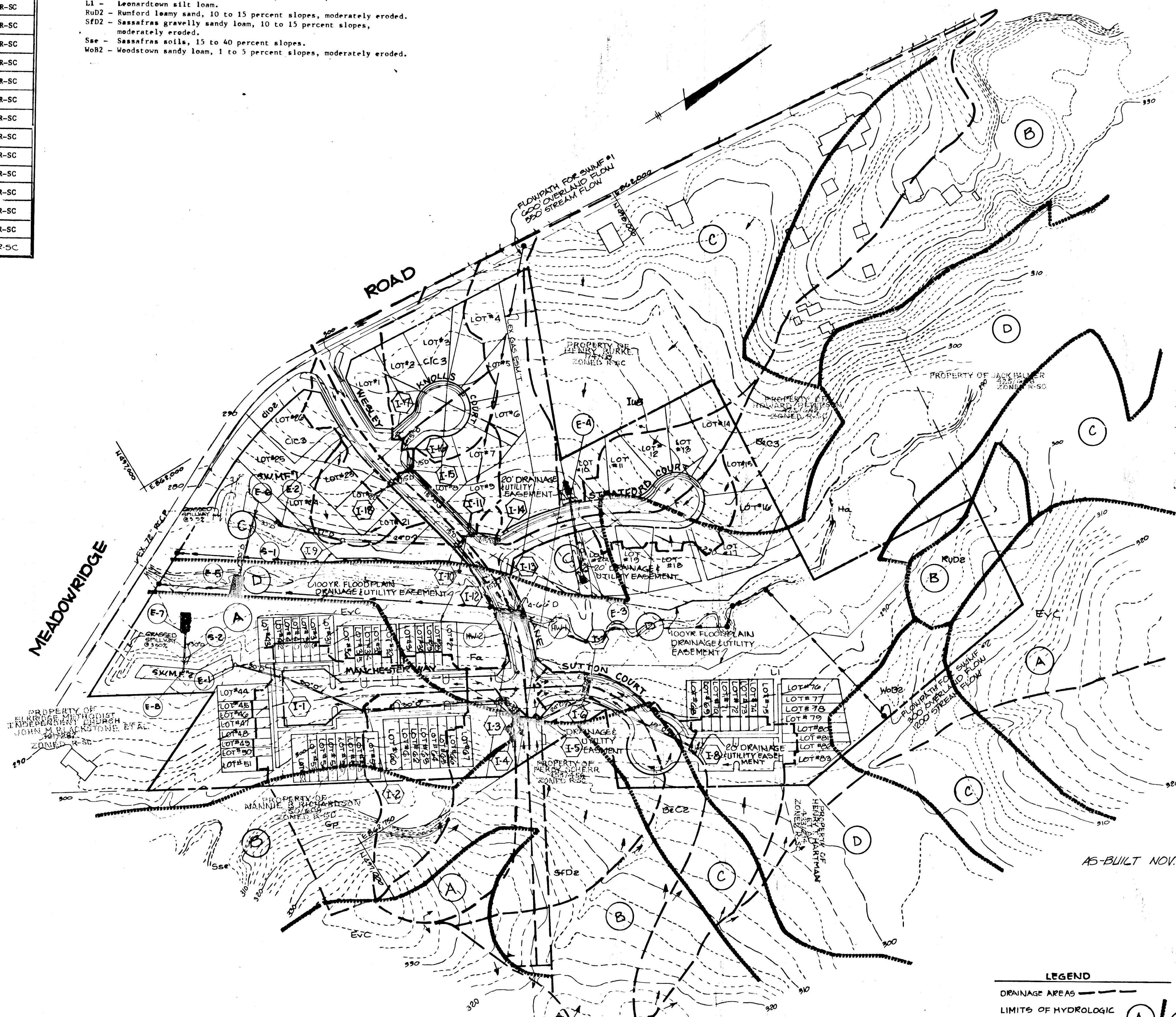
12-15-86
DATE
DESIGNED BY: JDP
DRAWN BY: BAC
PROJECT NO: 23700
DATE: AUGUST 22, 1986
SCALE: AS SHOWN
DRAWING NO. 5 OF 10



Structure	D.A.	XIMP	C	Zoning
I-1	2.05 AC	55	0.64	R-SC
I-2	1.08 AC	45	0.58	R-SC
I-3	1.21 AC	37	0.52	R-SC
I-4	0.55 AC	58	0.64	R-SC
I-5	0.26 AC	78	0.72	R-SC
I-6	1.49 AC	38	0.53	R-SC
I-7	1.72 AC	46	0.59	R-SC
I-8	1.58 AC	46	0.60	R-SC
I-9	0.38 AC	40	0.58	R-SC
I-10	0.18 AC	66	0.56	R-SC
I-11	0.45 AC	51	0.47	R-SC
I-12	0.28 AC	61	0.70	R-SC
I-13	0.93 AC	50	0.55	R-SC
I-14	1.98 AC	33	0.38	R-SC
I-15	0.58 AC	66	0.50	R-SC
I-16	0.32 AC	50	0.44	R-SC
I-17	0.77 AC	45	0.41	R-SC
I-18	0.31 AC	62	0.54	R-SC
E-4	7.20 AC	44	0.60	R-SC

SOILS CLASSIFICATION

BeC2 - Beltsville silt loam, 5 to 10 percent slopes, moderately eroded.
 BeC3 - Beltsville silt loam, 5 to 10 percent slopes, severely eroded.
 CiC3 - Chillum gravelly loam, 5 to 10 percent slopes, severely eroded.
 CiD2 - Chillum gravelly loam, 10 to 15 percent slopes, moderately eroded.
 Evc - Evesboro loamy sand, 5 to 15 percent slopes.
 Fa - Fallington loam.
 Gp - Gravel pits and quarries.
 Ha - Hatboro silt loam.
 LuB - Inka loam, local alluvium, 1 to 5 percent slopes.
 Li - Leonardtown silt loam.
 RuD2 - Rumford loamy sand, 10 to 15 percent slopes, moderately eroded.
 SFD2 - Sassafras gravelly sandy loam, 10 to 15 percent slopes, moderately eroded.
 Sse - Sassafras soils, 15 to 40 percent slopes.
 WoB2 - Woodstown sandy loam, 1 to 5 percent slopes, moderately eroded.



STRUCTURE	TYPE	LOCAT. CH	INV. IN	INV. OUT	TOP OF CURB ELEV.
I-1	No. Co. Std. A-5 Inlet w/Deflectors SD-4.01	Centerline Sta. 2+84.77, 15' Rt.	285.93	285.93	290.76
I-2	No. Co. Std. A-5 Inlet w/Deflectors SD-4.01	Centerline Sta. 0+53.24, 12' Lt.	---	289.33	294.16
I-3	No. Co. Std. A-5 Inlet w/Deflectors SD-4.01	Centerline Sta. 0+51.02, 12' Lt.	289.22	288.97	294.11
I-4	No. Co. Std. A-5 Inlet w/Deflectors SD-4.01	Centerline Sta. 2+84.47, 15' Lt.	(2)285.78	285.53	290.37
I-5	No. Co. Std. A-10 Inlet SD-4.02	Centerline Sta. 0+49.28, 14' Lt.	---	280.13	285.23
I-6	No. Co. Std. A-5 Inlet SD-4.01	Centerline Sta. 5+33.58, 15' Lt.	---	279.46	284.47
I-7	No. Co. Std. A-5 Inlet SD-4.01	Centerline Sta. 5+31.66, 15' Rt.	278.74	278.49	284.37
I-8	No. Co. Std. A-5 Inlet SD-4.01	Centerline Sta. 4+48.27, 15' Lt.	(2)278.44	279.52	285.02
I-9	No. Co. Std. A-5 Inlet SD-4.01	Centerline Sta. 4+60, 15' Lt.	277.50	276.50	283.67
I-10	No. Co. Std. D Inlet w/ 2 openings SD-4.11	See Plan Sheet 8	272.25	272.00	273.03
I-11	No. Co. Std. A-10 Inlet SD-4.02	See Plan Sheet 8	---	285.58	290.67
I-12	No. Co. Std. A-10 Inlet SD-4.02	Centerline Sta. 1+10.56, 14' Lt.	---	282.22	287.47
I-13	No. Co. Std. A-5 Inlet SD-4.01	Centerline Sta. 1+10.56, 14' Lt.	281.83	281.58	287.41
I-14	No. Co. Std. A-5 Inlet w/Deflectors SD-4.01	Centerline Sta. 7+61.41, 15' Lt.	280.65	280.40	292.81
I-15	No. Co. Std. A-5 Inlet SD-4.01	Centerline Sta. 0+45.50, 14' Lt.	278.02	279.52	290.92
I-16	No. Co. Std. A-5 Inlet SD-4.01	Centerline Sta. 2+83, 29.5' Lt.	278.02	278.02	289.13
I-17	No. Co. Std. A-10 Inlet SD-4.02	L.P. Sta. 1+74.85, 13' Offset	277.04	276.79	286.04
E-4	No. Co. Std. Metal End Section SD-5.61	See Plan Sheet 8	---	271.77	---
E-7	No. Co. Std. Metal End Section SD-5.61	See Plan Sheet 8	---	270.75	---
E-6	No. Co. Std. Metal End Section SD-5.61	See Plan Sheet 8	---	270.46	---
E-5	No. Co. Std. Metal End Section SD-5.61	See Plan Sheet 8	---	267.43	---
E-4	No. Co. Std. Concrete End Section SD-5.51	Centerline Sta. 1+85, 45' Lt.	282.35	---	---
E-3	No. Co. Std. Concrete End Section SD-5.51	Centerline Sta. 1+67, 79' Rt.	---	282.00	---
E-2	No. Co. Std. Concrete End Section SD-5.51	See Plan Sheet 8	---	271.81	---
E-1	No. Co. Std. Concrete End Section SD-5.51	See Plan Sheet 4	---	274.00	---
HW-2	No. Co. Type A Headwall (Modified)	Centerline Sta. 5+66, 37' Rt.	275.00	---	281.67
HW-1	No. Co. Type A Headwall (Modified)	Centerline Sta. 6+30, 48' Lt.	276.50	---	283.17
S-2	Outlet Control Structure	See Plan Sheet 8	---	279.17	---
S-1	Outlet Control Structure	See Plan Sheet 8	---	279.4	---

* ELEVATION AT TOP OF HEADWALL
 ** SEE NOTE SHEET 1 OF 10
 *** SEE PLAN SHEET 2 OF 10

LEGEND
 DRAINAGE AREAS
 LIMITS OF HYDROLOGIC SOILS GROUPS

GLITSCHICK LITTLE & WEBER IS RESPONSIBLE FOR AS-BUILT INFORMATION ONLY



CL # 7-2-93
 This seal applies only to revisions by GLW

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING
 John W. Mueggler 2-3-87
 CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 William R. Reilly 2-2-87
 CHIEF, BUREAU OF ENGINEERING

7/2/92 Ray structural schedule GLW
 7-13-00 1 REVISED DRAINAGE AREA SCHEDULE
 DATE NO REVISION

OWNER/DEVELOPER
 CAPITAL HOMES INC.
 8102 ASPENWOOD WAY
 JESSUP, MARYLAND 20794

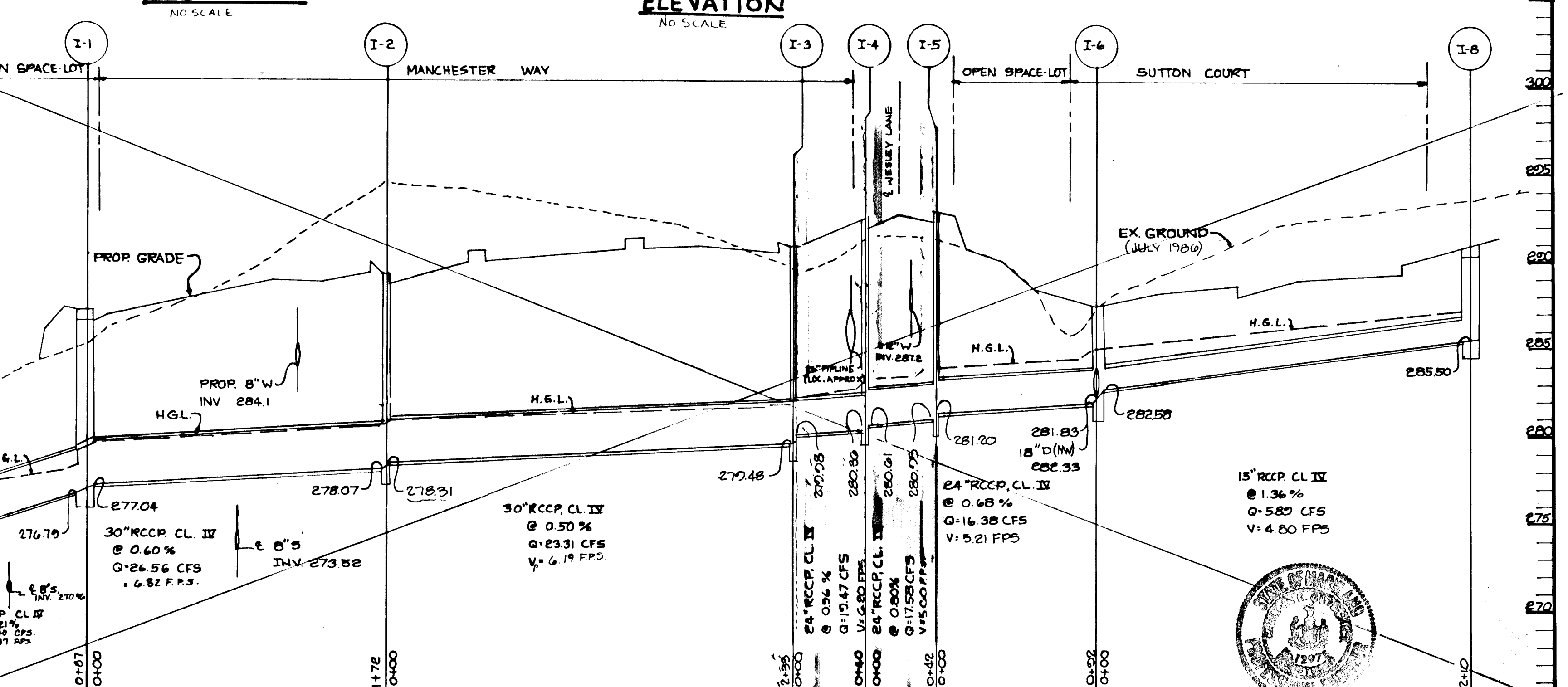
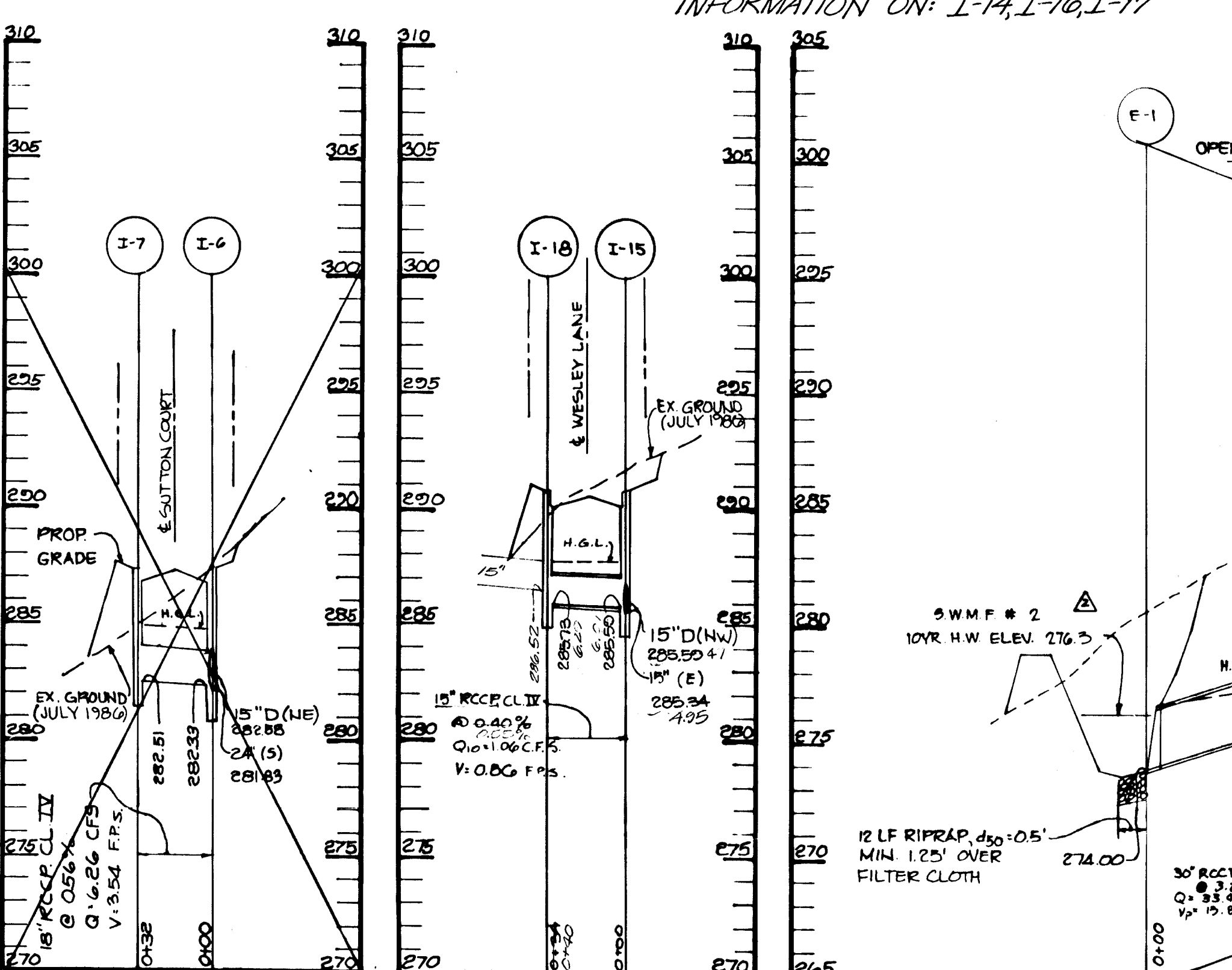
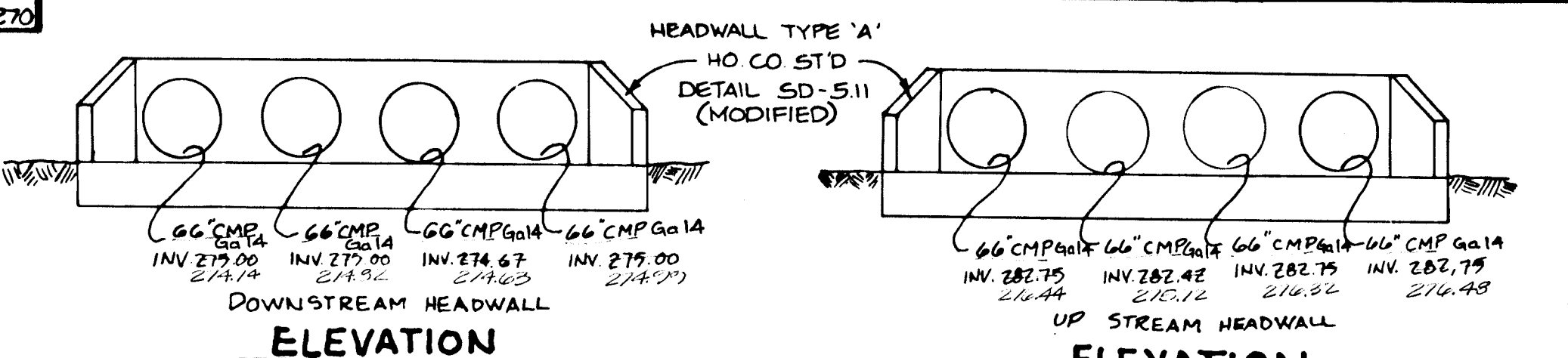
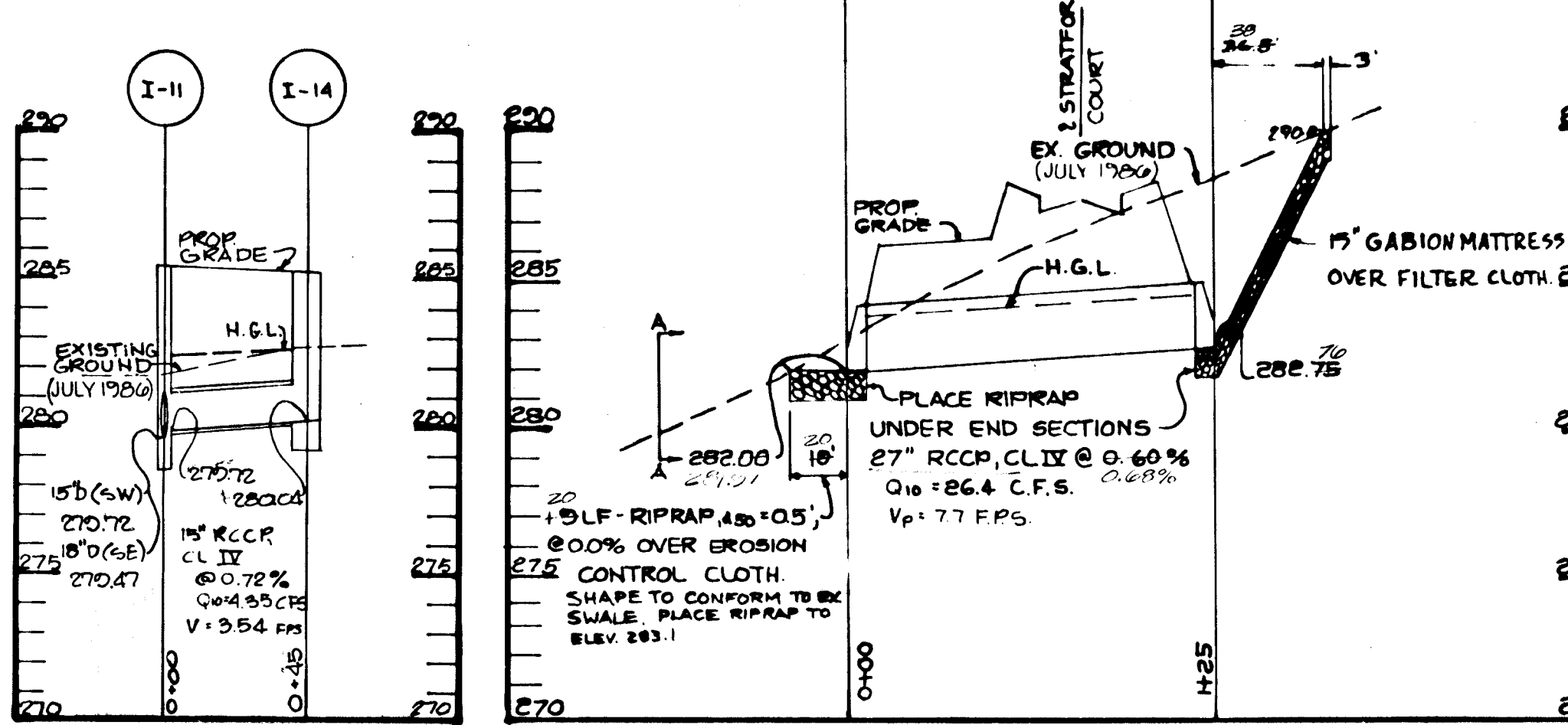
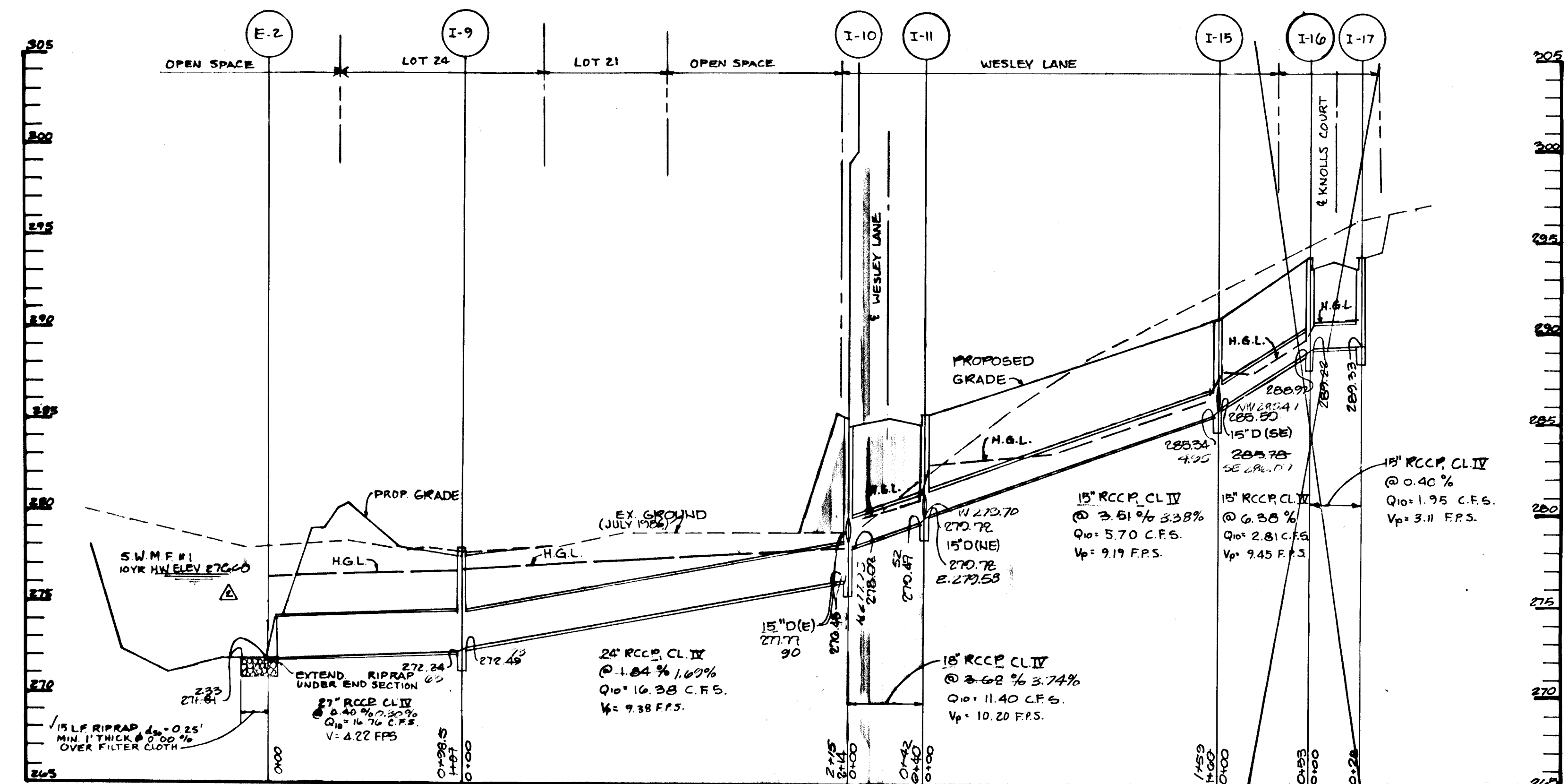
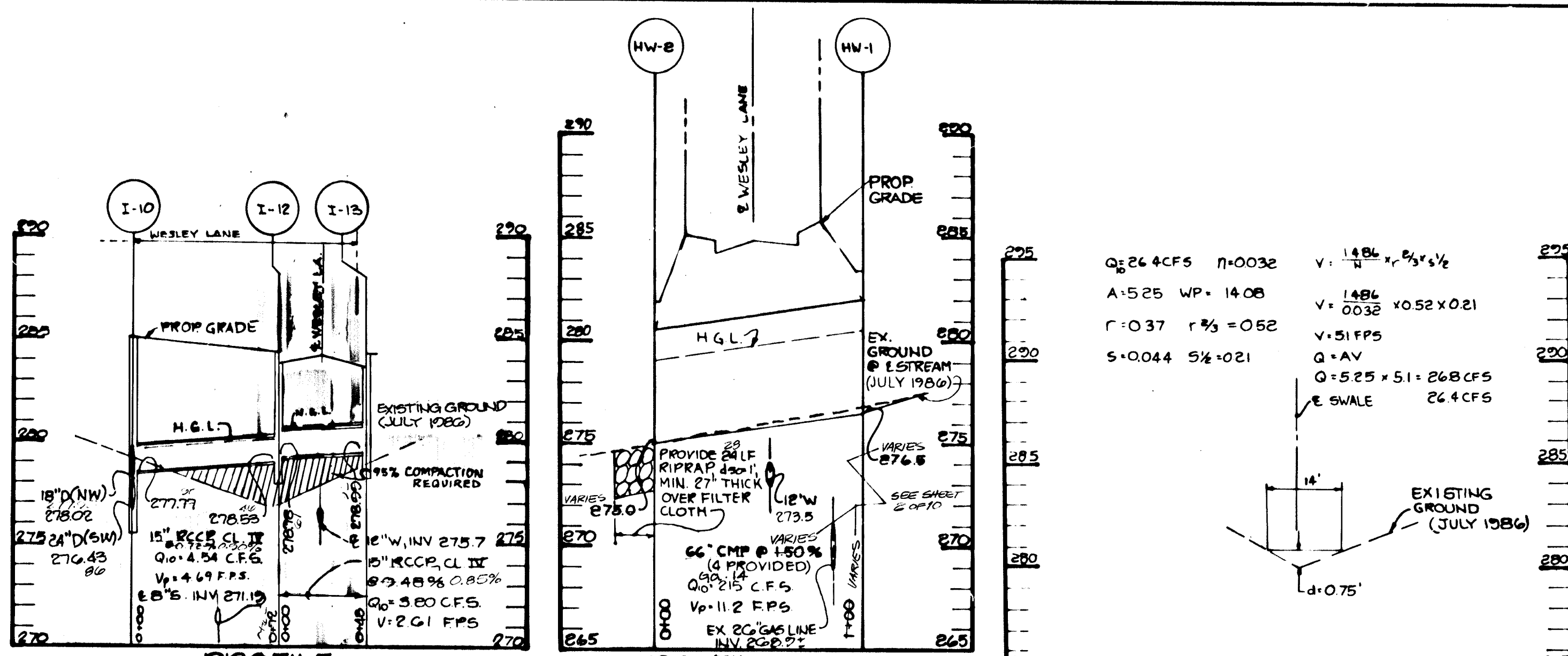
PROJECT: WILLOWOOD SECTION ONE
 AREA TAX MAP 37 PARCEL 79,1301,301
 15TH ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

TITLE: DRAINAGE AREA MAP AND SOILS MAP

THE RIEMER GROUP, INC.
 The Riemer Group, Inc. A Land Planning, Design & Civil Engineering Firm
 3105 Heath Park Drive, Ellicott City, Maryland 21043 (301) 481-2880

10-15-86 DATE
 COUNTY FILE REF 3-B6-23
 P.D. CASE# 186, P-86-501VP-87-02
 DESIGNED BY: J.J.B.
 DRAWN BY: S.V.W.
 PROJECT NO: 29700
 DATE: AUGUST 22, 1986
 SCALE: 1"=100'
 DRAWING NO. 6 OF 10

1248



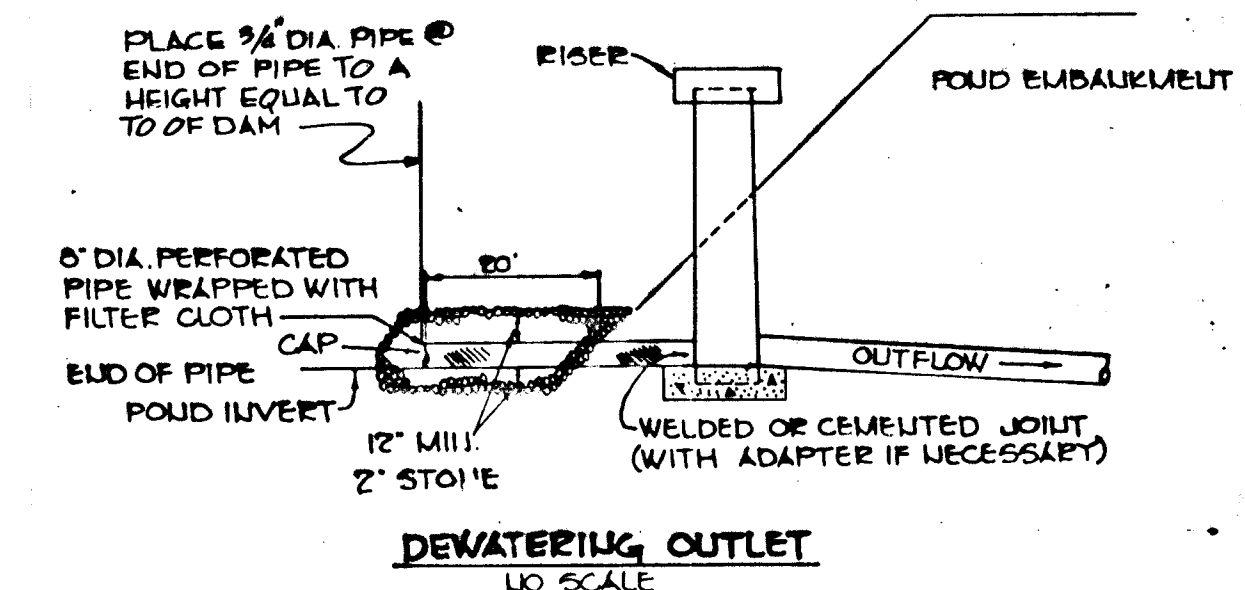
AS-BUILT NOV. 1991 (UPDATED)
GUTSCHICK LITTLE & WEBER IS RESPONSIBLE FOR AS-BUILT INFORMATION ONLY

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING <i>John M. ...</i> 2-3-97 DATE	
APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS <i>...</i> 2-2-87 DATE	
1/2/93	2 REV. BY W.S. CL. E-1, E-2 GLW
7-13-00	1 REVISED STORM DRAIN PROFILES
DATE	NO REVISION
OWNER/DEVELOPER CAPITAL HOMES INC. 8102 ASPENWOOD WAY JESSUP, MARYLAND 20794	
PROJECT WILLOWOOD SECTION ONE	
AREA TAX MAP 37 PARCELS 79,130,301 1ST ELECTION DISTRICT HOWARD COUNTY, MARYLAND	
TITLE STORM DRAIN PROFILES	
THE RIEMER GROUP, INC. The Riemer Group, Inc. A Land Planning, Design & Civil Engineering Firm 3105 Health Park Drive, Elkott City, Maryland 21043 (301) 461-2690	
12-16-86 DATE	COUNTY FILE 186-5-86-23 P.D. CASE # 186 P-86-50 VP-57-02
DESIGNED BY: J.J.B.	
DRAWN BY: DDB	
PROJECT NO: 29700	
DATE: AUGUST 22, 1986	
SCALE: AS SHOWN	
DRAWING NO: 7 OF 10	

8721

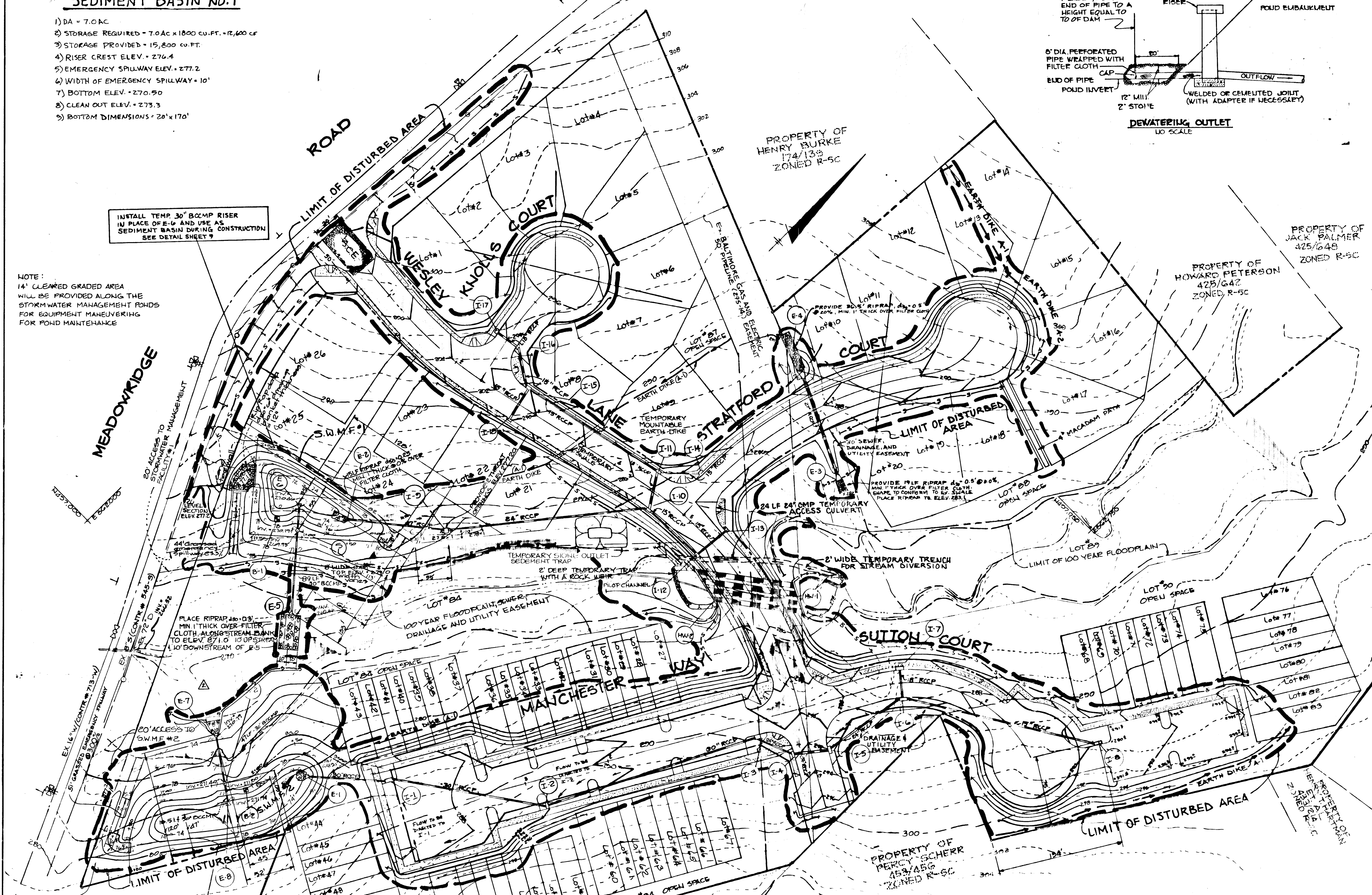
SEDIMENT BASIN NO.1

- 1) DA = 7.0 AC
- 2) STORAGE REQUIRED = 7.0 AC x 1800 CU. FT. = 12,600 CF
- 3) STORAGE PROVIDED = 15,800 CU. FT.
- 4) RISER CREST ELEV. = 276.4
- 5) EMERGENCY SPILLWAY ELEV. = 277.2
- 6) WIDTH OF EMERGENCY SPILLWAY = 10'
- 7) BOTTOM ELEV. = 270.50
- 8) CLEAN OUT ELEV. = 273.3
- 9) BOTTOM DIMENSIONS = 20' x 170'



INSTALL TEMP. 30" BCCMP RISER IN PLACE OF E-6 AND USE AS SEDIMENT BASIN DURING CONSTRUCTION SEE DETAIL SHEET 9

NOTE:
14' CLEARED GRADED AREA WILL BE PROVIDED ALONG THE STORMWATER MANAGEMENT PONDS FOR EQUIPMENT MANEUVERING FOR POND MAINTENANCE



SEDIMENT BASIN NO.2

- 1) DA = 10.9 AC
- 2) STORAGE REQUIRED = 10.9 AC x 1800 CU. FT. = 19,620 CU. FT.
- 3) STORAGE PROVIDED = 20,750 CU. FT.
- 4) RISER CREST ELEV. = 276.8
- 5) EMERGENCY SPILLWAY ELEV. = 277.2
- 6) WIDTH OF EMERGENCY SPILLWAY = 14'
- 7) BOTTOM ELEV. = 272.0
- 8) CLEAN OUT ELEV. = 274.6
- 9) BOTTOM DIMENSION = 18' x 86' TRIANGULAR SHAPE

AS-BUILT NOV. 1993

GUTSCHICK LITTLE & WEBER IS RESPONSIBLE FOR AS-BUILT INFORMATION



Arthur E. Muegge
12-15-86
This seal applies only to revisions by SW

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."

Richard W. Goodman 12/15/86
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."

Arthur E. Muegge 12-15-86
ENGINEER DATE
ARTHUR E. MUEGGE

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 M. Helm 12-18-86
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.

APPROVED *Robert J. Zichner* 12-18-86
HOWARD S.C.D. DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING
John M. Muehlen 2-3-87
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
James E. Ray 2-2-87
CHIEF, BUREAU OF ENGINEERING DATE

1/1/93	2	Revised grading & S.W.M.F. 1/2 SW	SW
7-18-00	1	REVISED PAVEMENT WIDTH OF WESLEY LANE	
DATE	NO.	REVISION	

OWNER / DEVELOPER
CAPITAL HOMES INC.
8102 ASPENWOOD WAY
JESSUP, MARYLAND 20794

PROJECT **WILLOWOOD**
SECTION ONE
AREA TAX MAP 37 PARCELS 79,130, 301
1ST ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

TITLE **GRADING, STORM WATER MANAGEMENT, AND SEDIMENT CONTROL PLAN**

THE RIEMER GROUP, INC.
The Riemer Group, Inc. A Land Planning, Design & Civil Engineering Firm
3108 Heath Park Drive, Elkport City, Maryland 21043 (301) 461-2690

12-15-86
DATE
COUNTY FILE PER: 5 PG. 75
PB CASE: 186, P&C-29, VP-87-02
DESIGNED BY JDP
DRAWN BY SVW
PROJECT NO: 89700
DATE: AUGUST 22, 1986
SCALE: 1" = 50'
DRAWING NO. 8 OF 10

1248

1. SITE PREPARATION POND SPECIFICATIONS

Areas under the borrow areas, embankment, and structural works shall be cleared, grubbed and the topsoil stripped to remove all trees, vegetation, roots or other objectionable material. Channel banks and sharp breaks shall be sloped to no steeper than 1:1.

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

All cleared and grubbed material shall be disposed of outside 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.

11. EARTH FILL
Material:
The fill material shall be taken from approved designated borrow area or areas. It shall be free of roots, stumps, wood, rubbish, oversize stones, frozen or other objectionable materials.

Placement:
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 (before compaction) layers which are to be continuous along the entire length of the fill. The most porous borrow material shall be placed in the downstream portions of the embankment.

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 shall be achieved by a minimum of four complete passes of a sheepsfoot, rubber tired or vibratory roller. Fill material shall contain sufficient moisture to permit the required degree of compaction to be obtained with the equipment used.

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 metal. Watertight coupling bands shall be used at all joints. Catchup collars shall be connected to the pipe in such a manner as to be completely watertight.

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

Cutoff Trench:
Where specified, a cutoff trench shall be excavated along of parallel bottom width of the trench shall be governed by the plans. The top or bottom width, with the minimum width being four feet. The depth slopes of the trench shall be 1 to 1 or flatter plans. The side 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.

111. 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 tampers or other compaction equipment. The material needs to fill completely all spaces under and adjacent driven equipment be allowed to operate a clearance of four feet, measured horizontally, to any part of a structure. Under no circumstances shall the contractor drive equipment over any part of a twenty-four inches or greater over the structure or compacted fill of twenty-four inches or greater over the structure or compacted fill.

112. CORRUGATED METAL PIPE
Material:
(Steel Pipe)-This pipe and its appurtenances shall be galvanized and fully bituminous coated and shall conform to the requirements of ASTM Specification M-30 Type A with watertight coupling bands. Any bituminous coating damaged or otherwise removed shall be replaced with cold applied bituminous coating compound.

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

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

Reinforcing Steels:
All reinforcing material shall be free of dirt, rust, scale, oil, paint or other coatings. The steel shall be accurately placed and securely tied and connected to the position so that no movement of the steel will occur during placement of concrete.

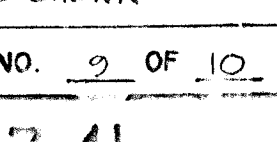
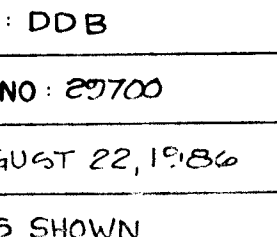
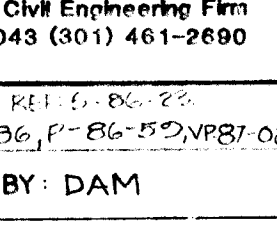
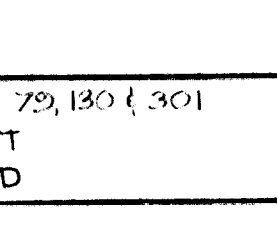
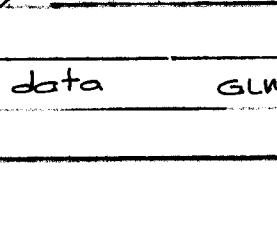
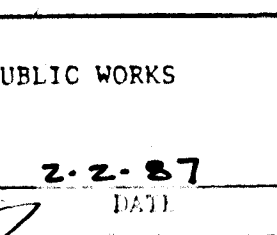
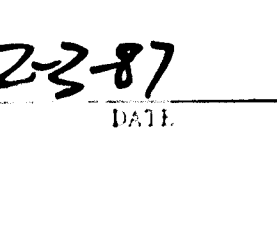
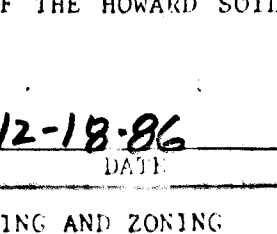
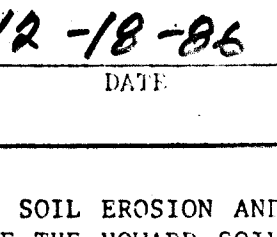
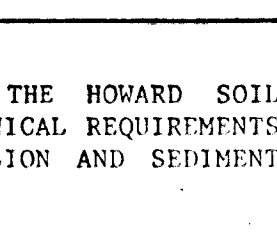
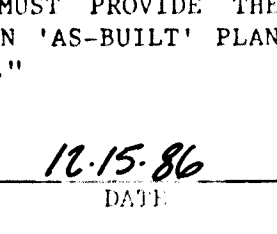
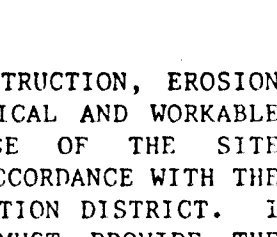
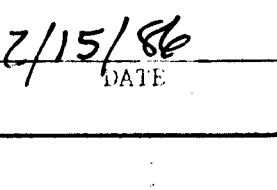
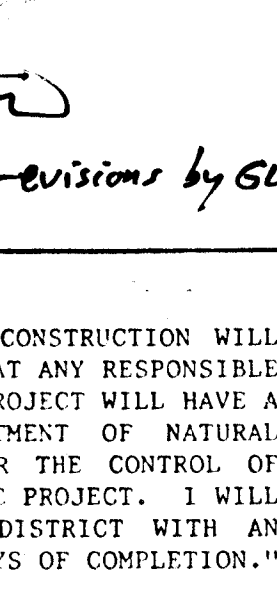
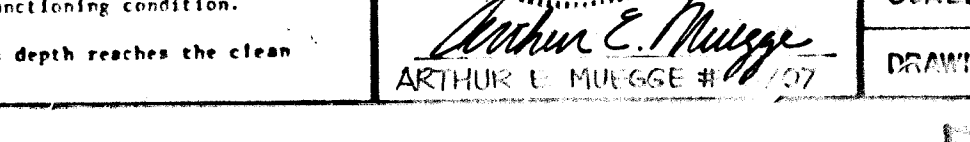
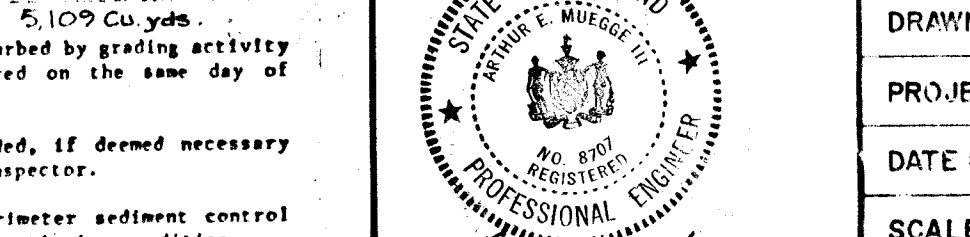
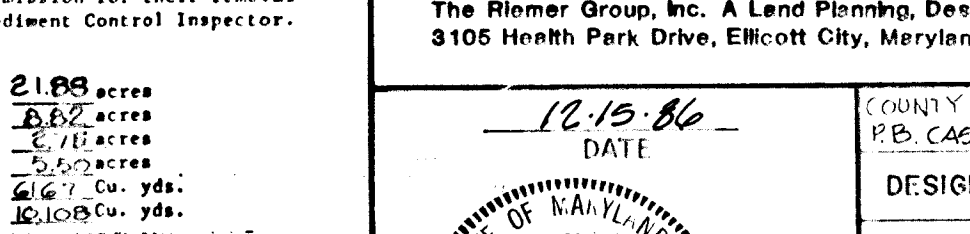
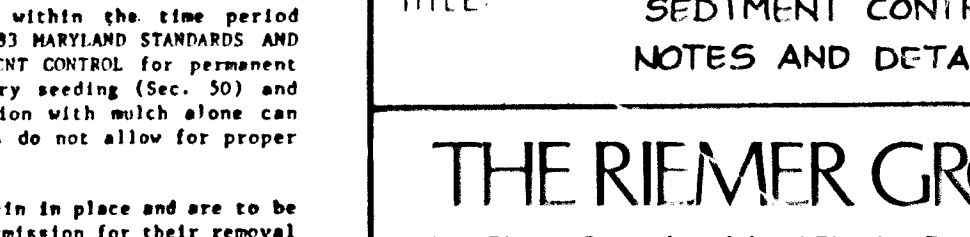
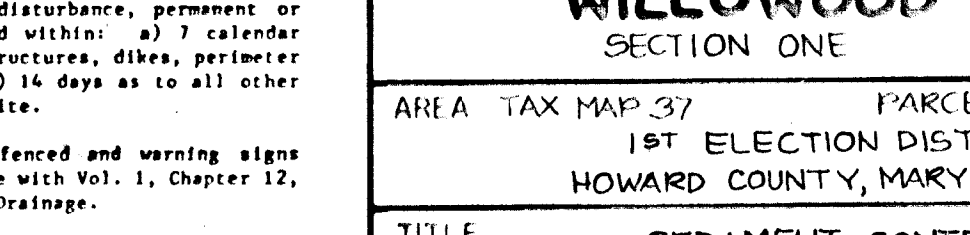
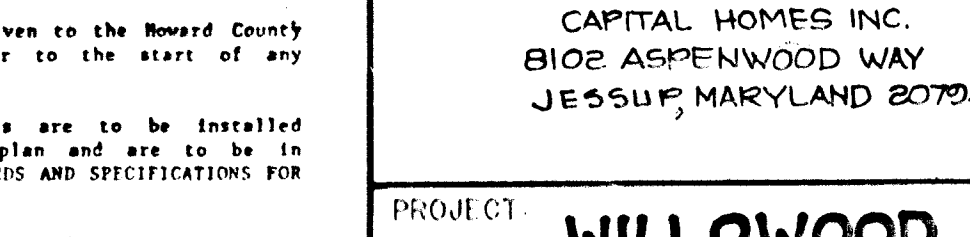
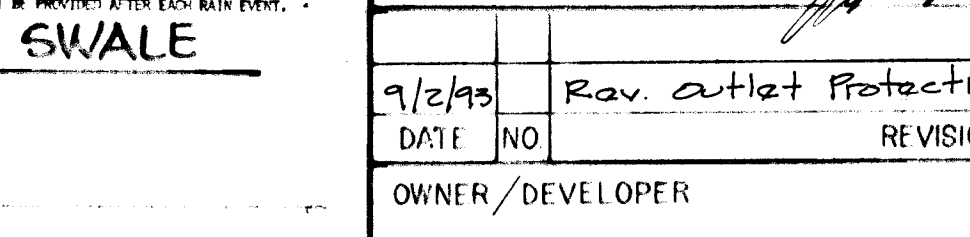
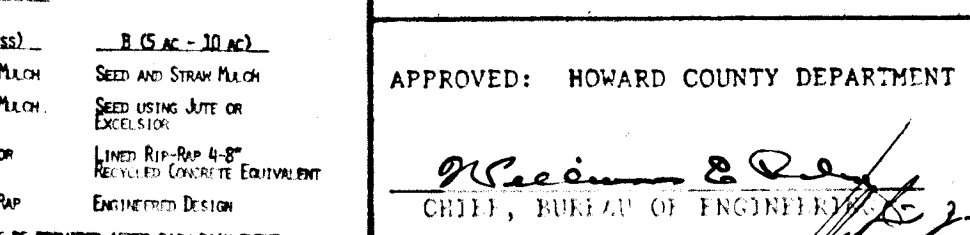
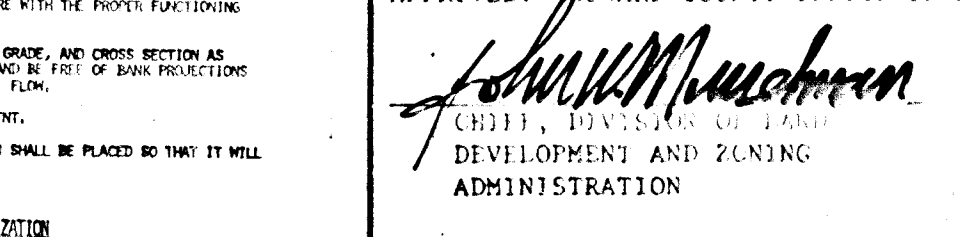
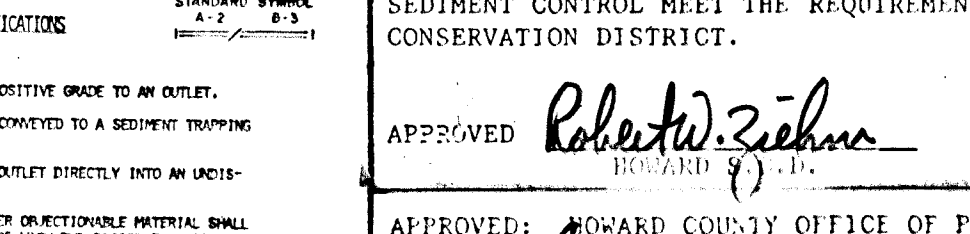
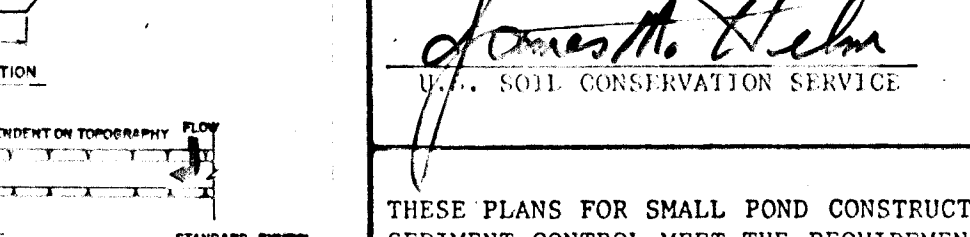
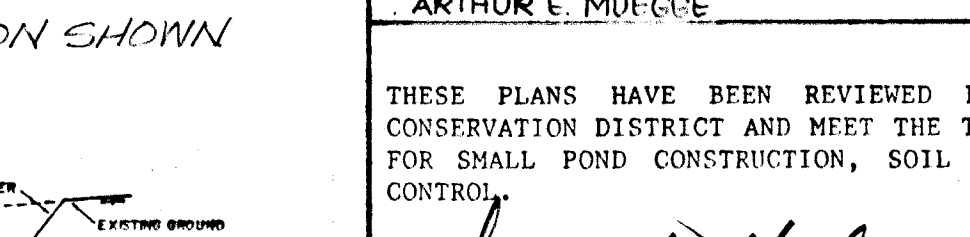
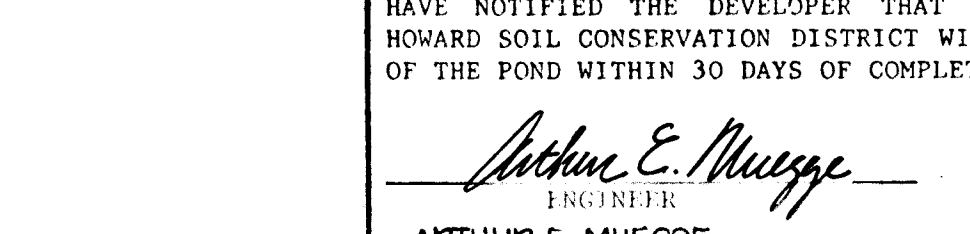
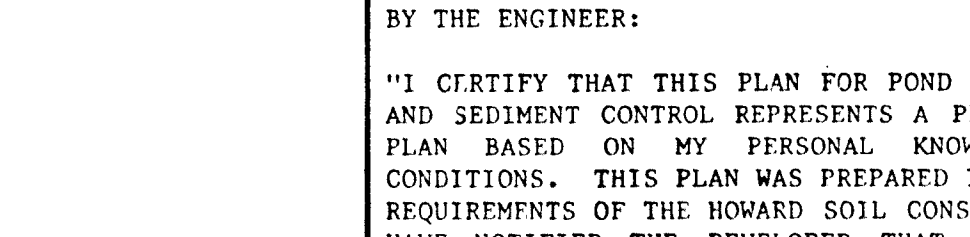
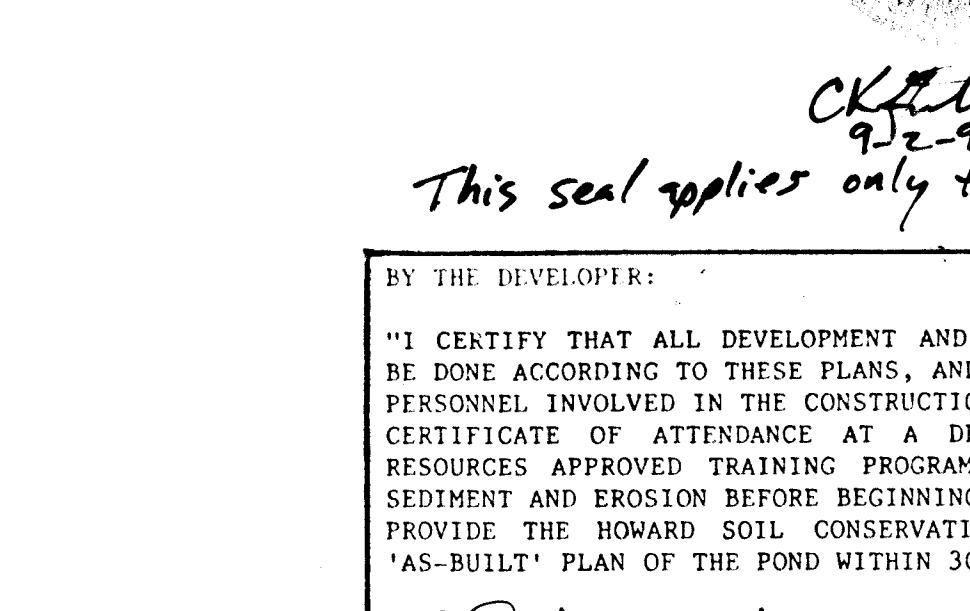
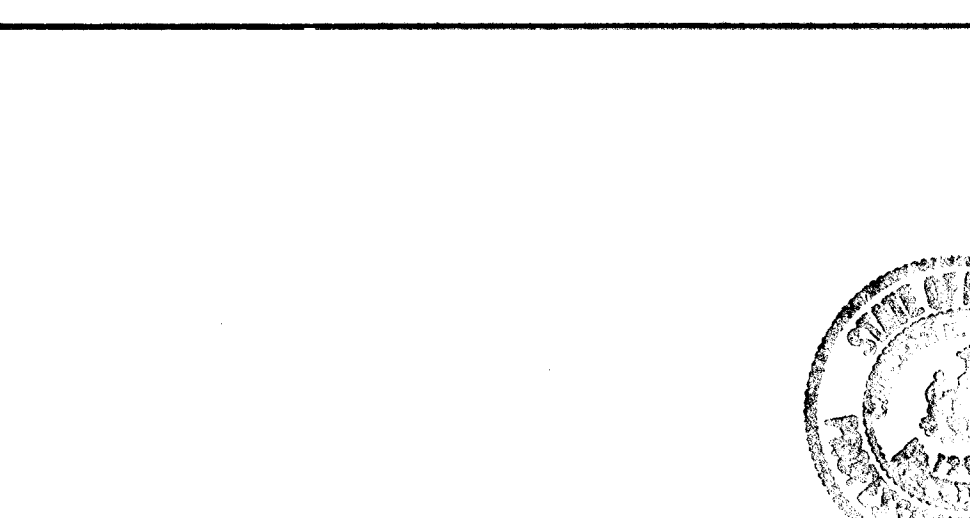
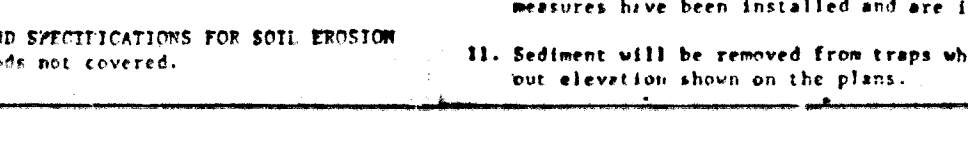
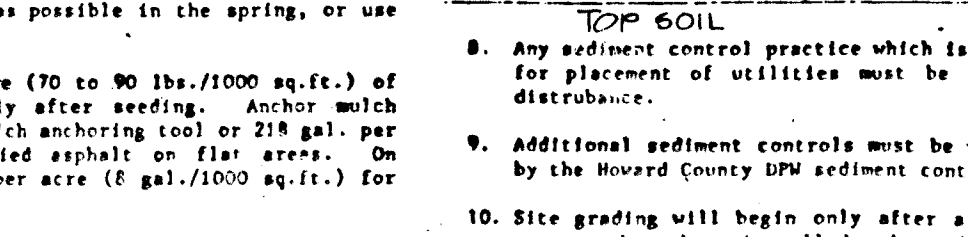
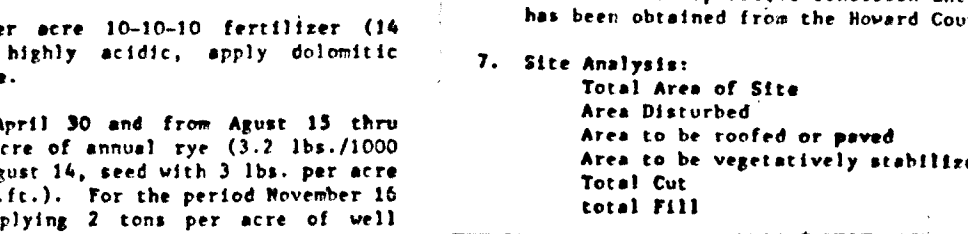
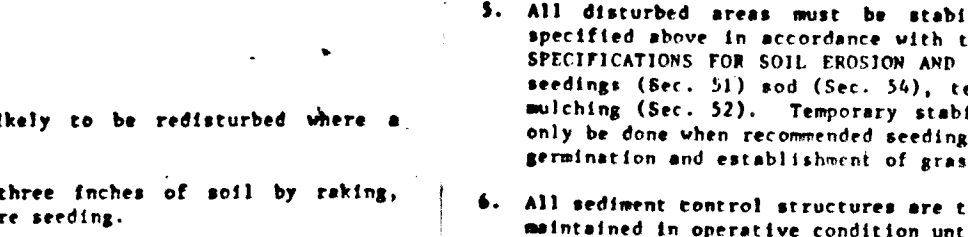
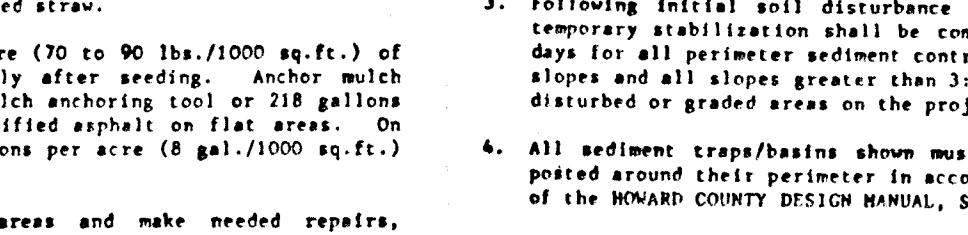
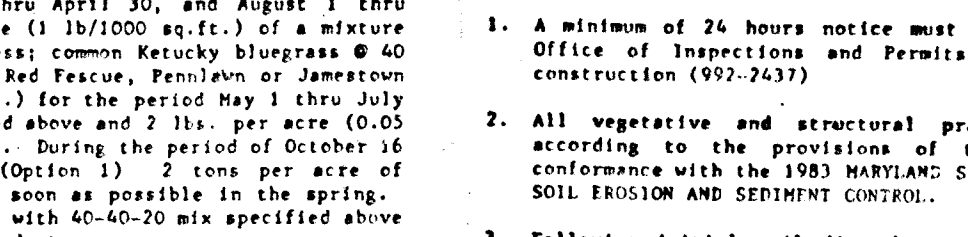
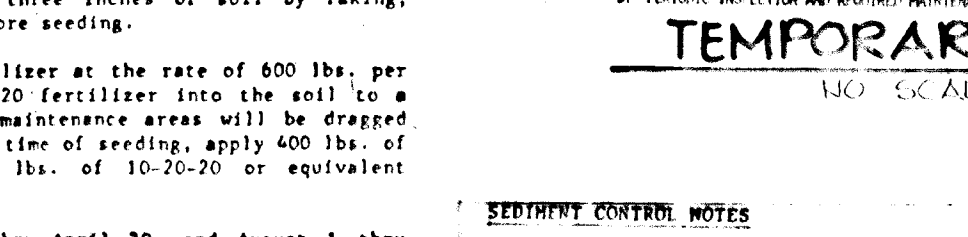
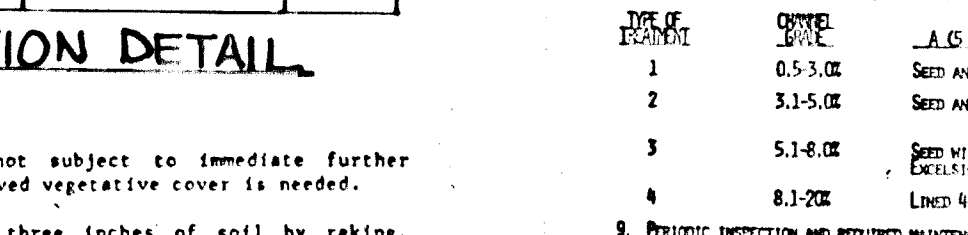
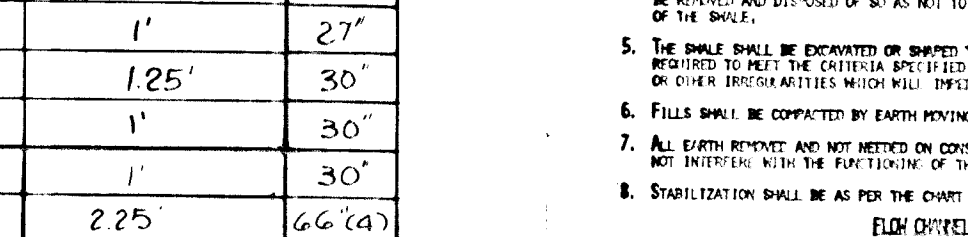
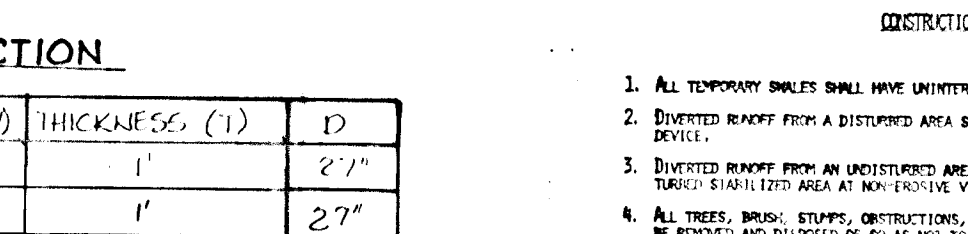
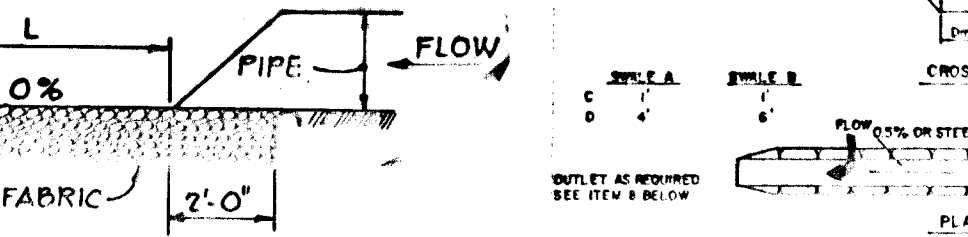
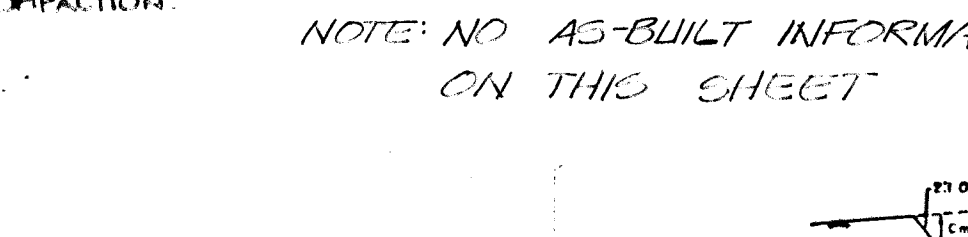
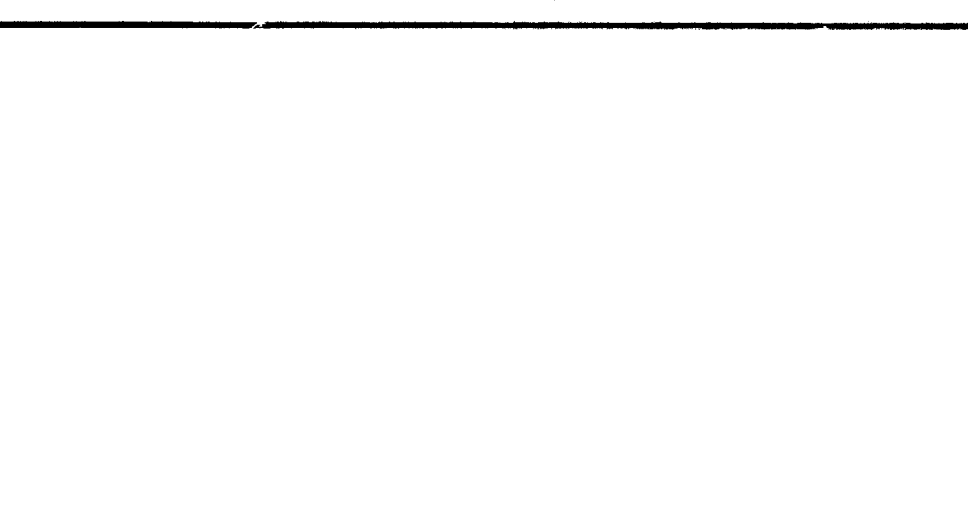
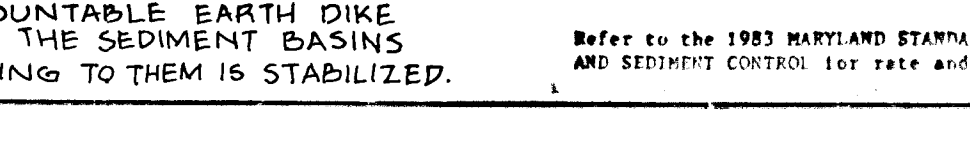
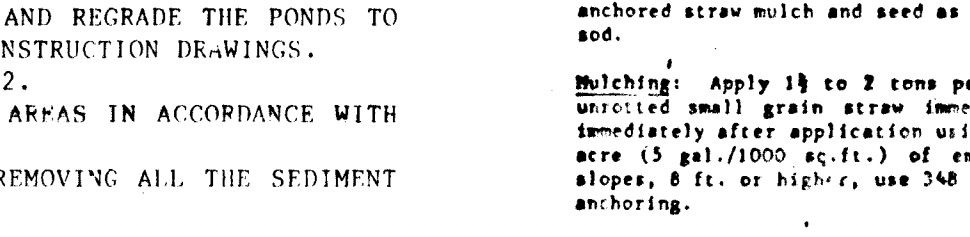
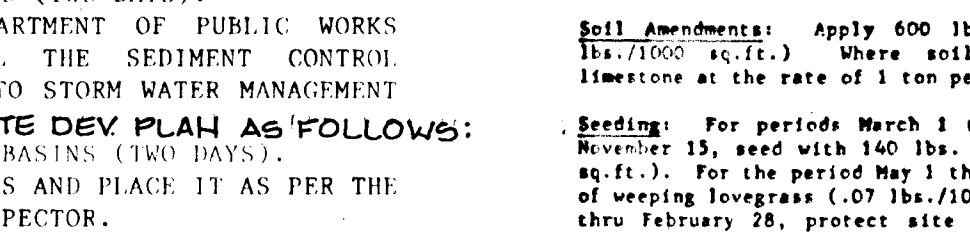
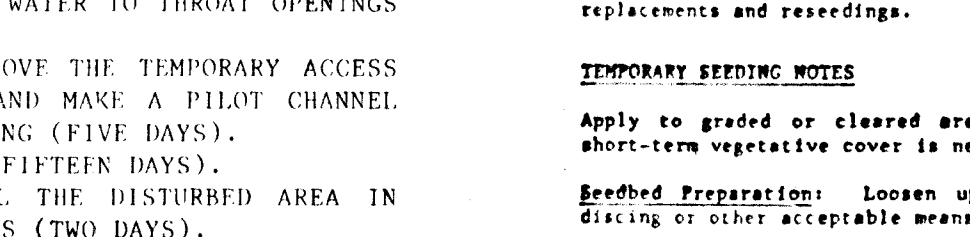
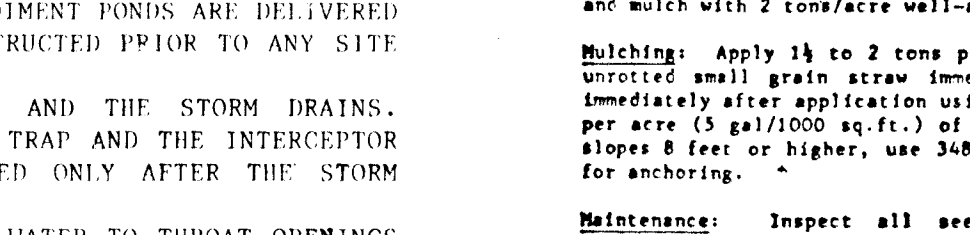
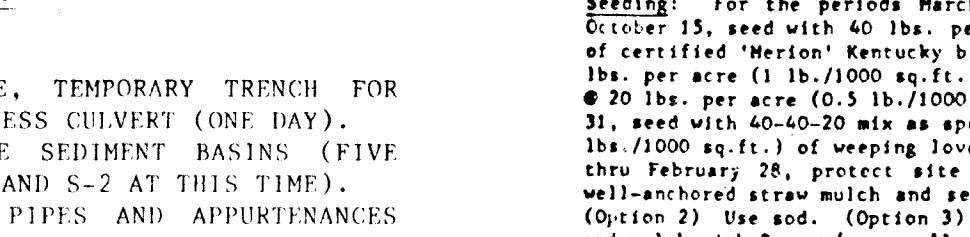
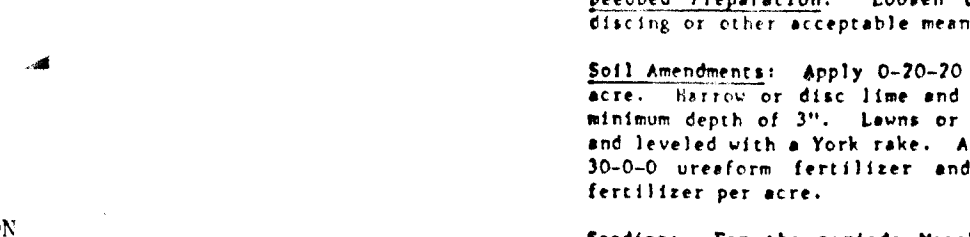
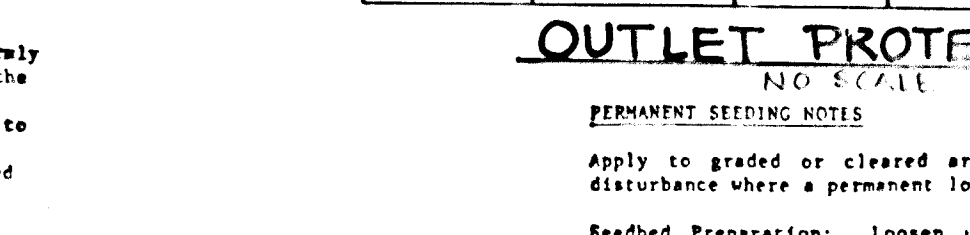
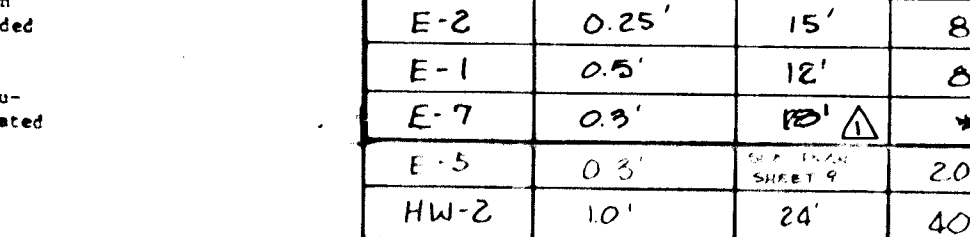
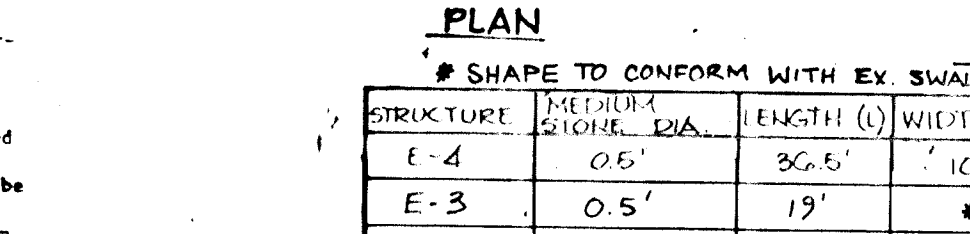
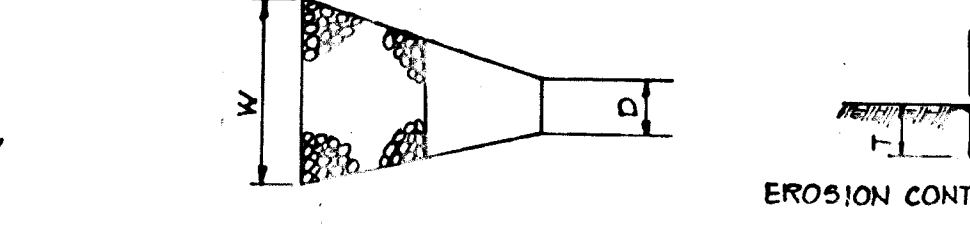
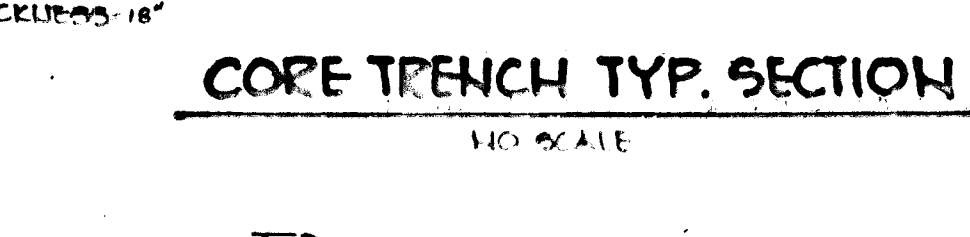
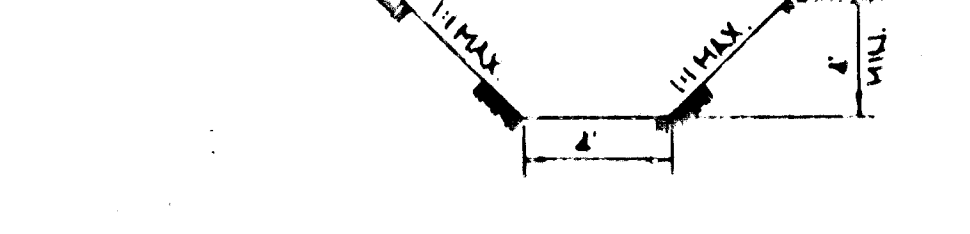
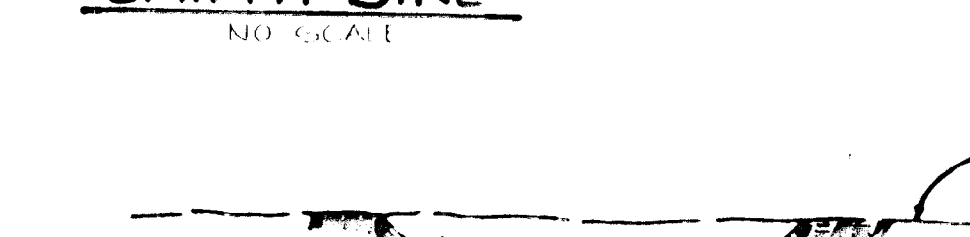
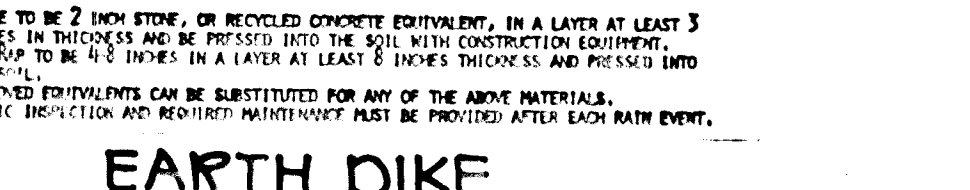
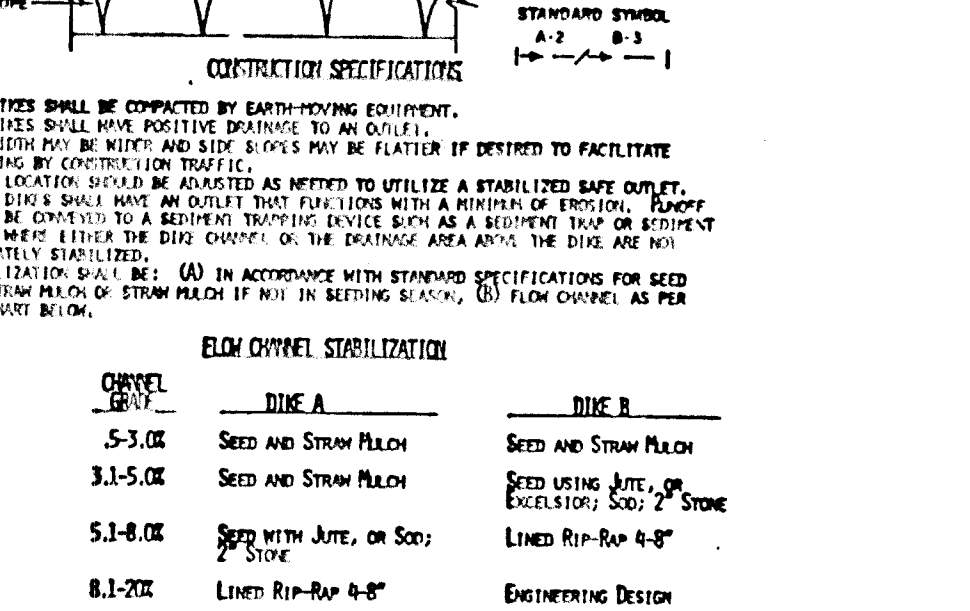
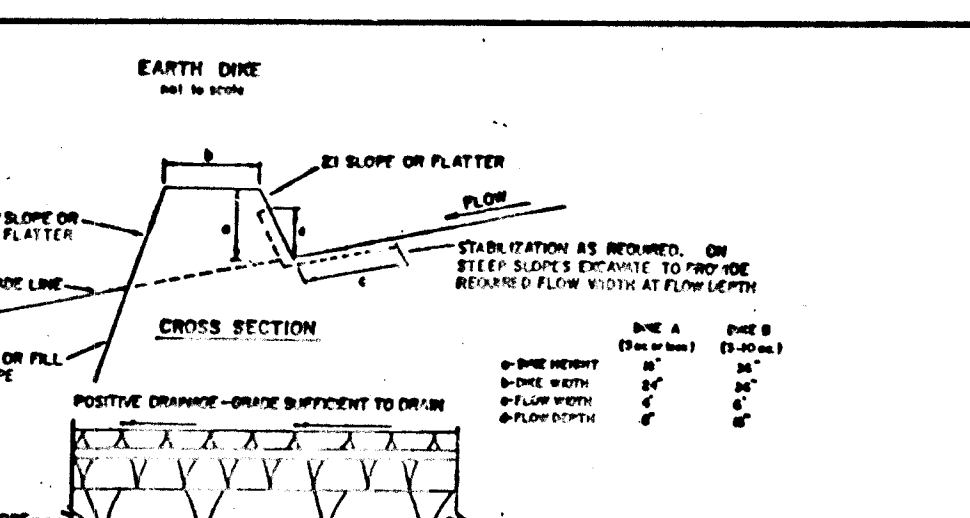
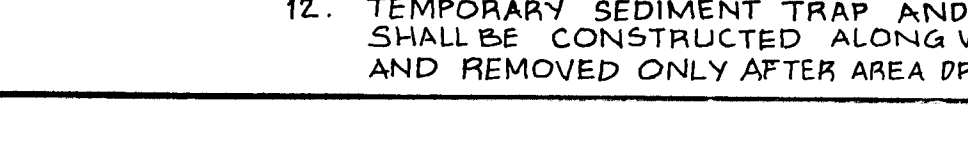
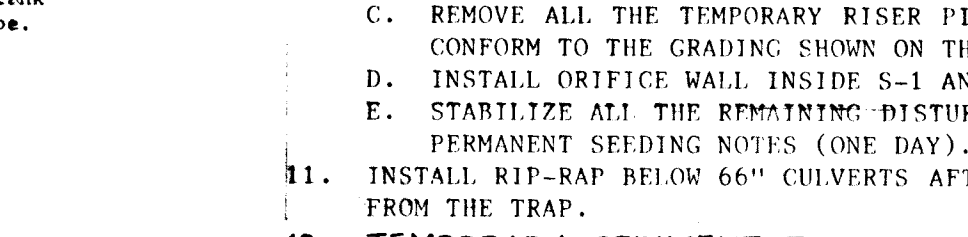
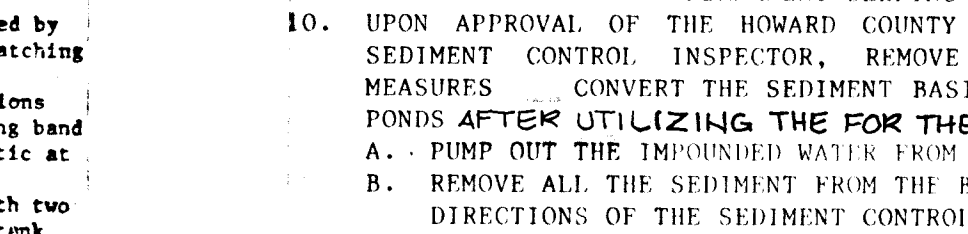
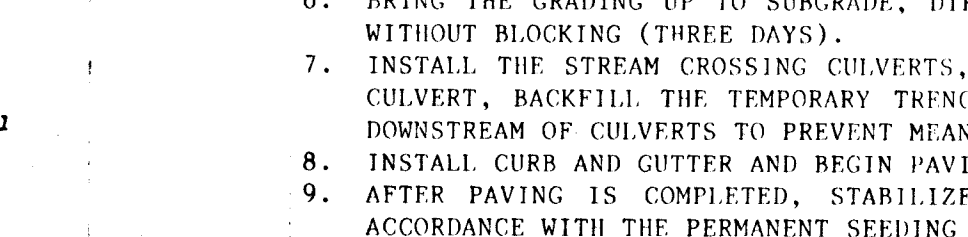
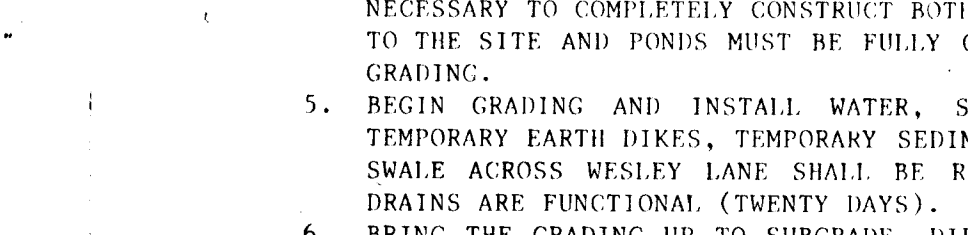
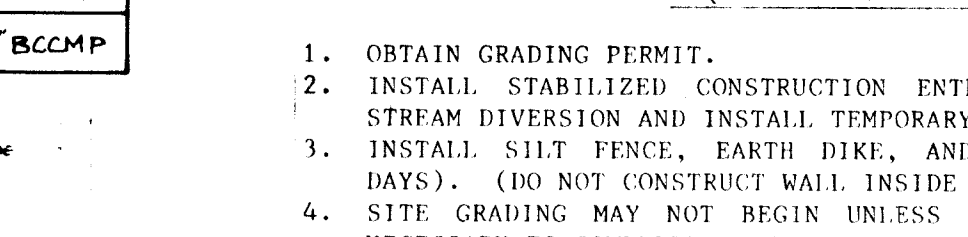
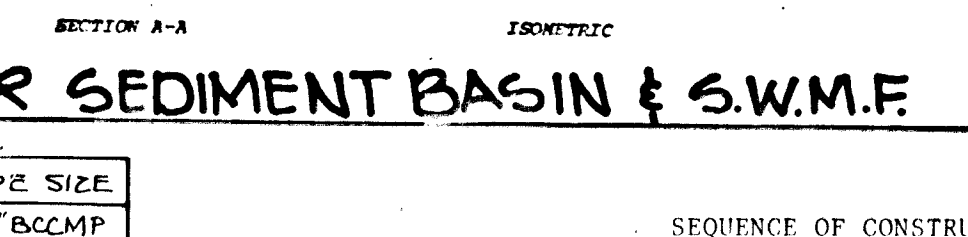
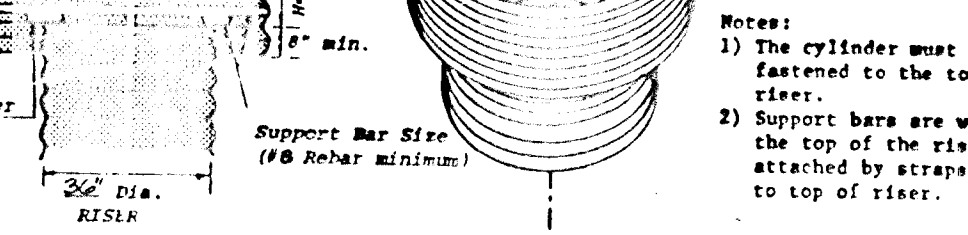
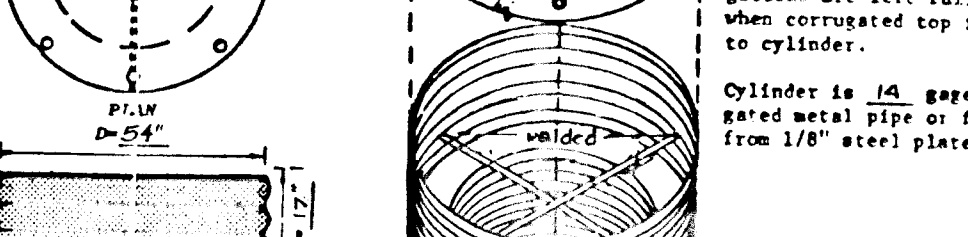
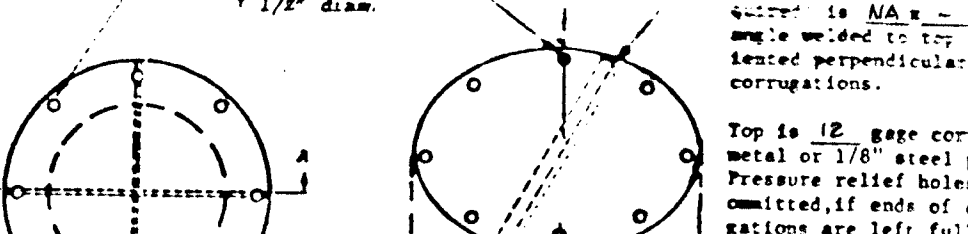
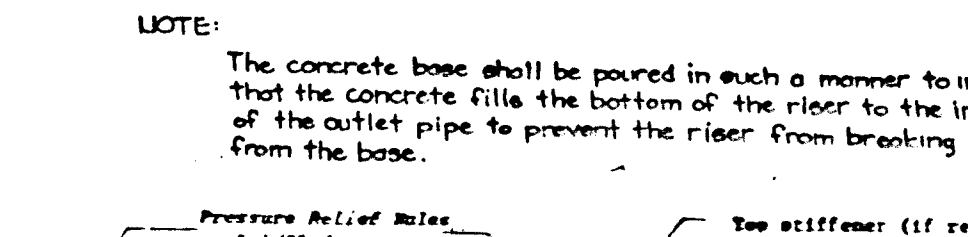
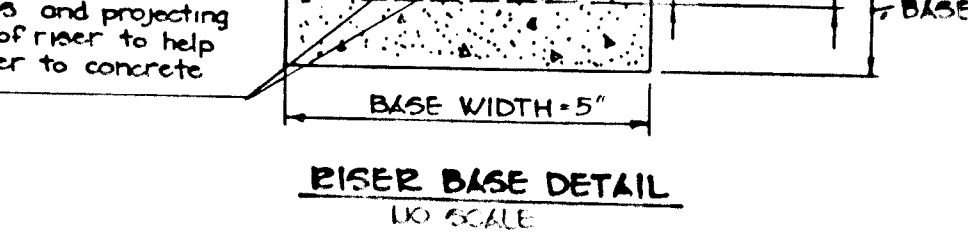
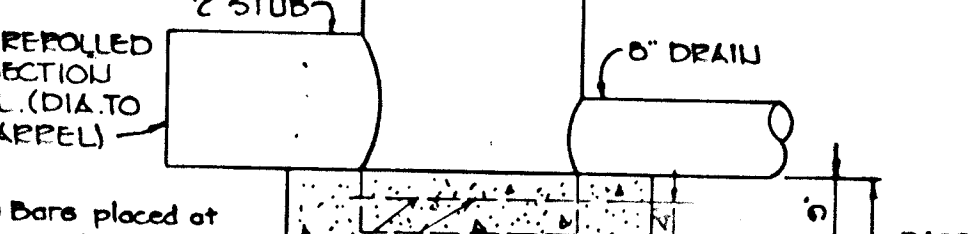
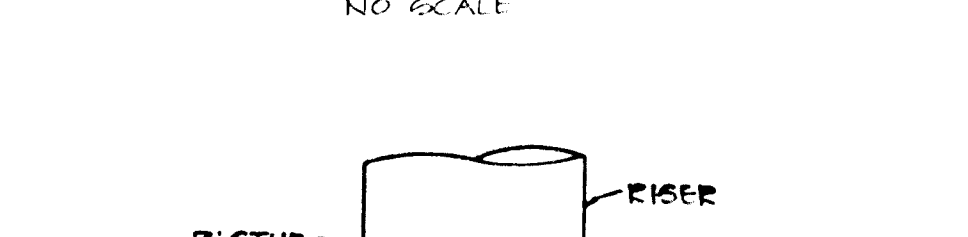
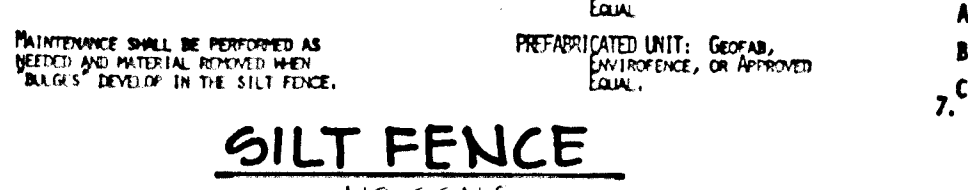
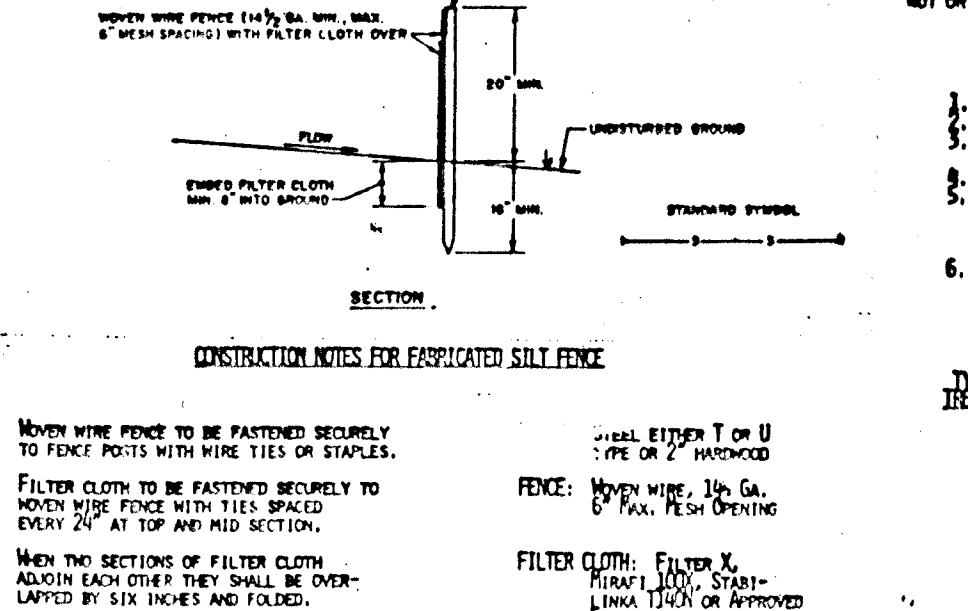
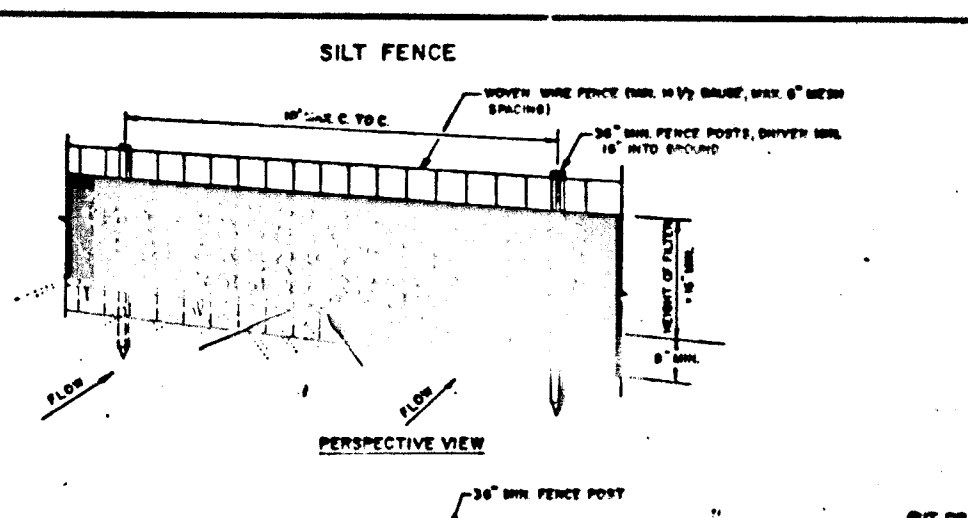
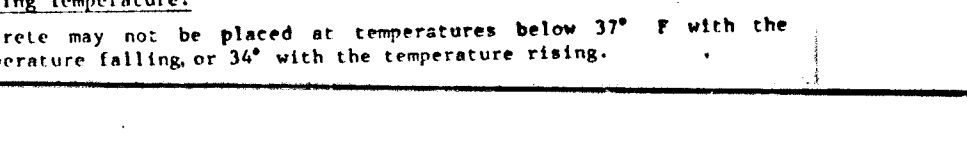
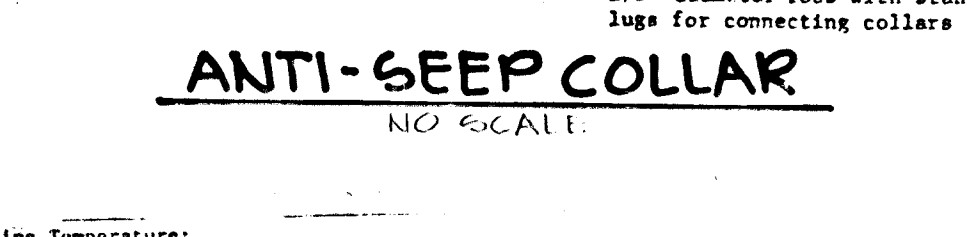
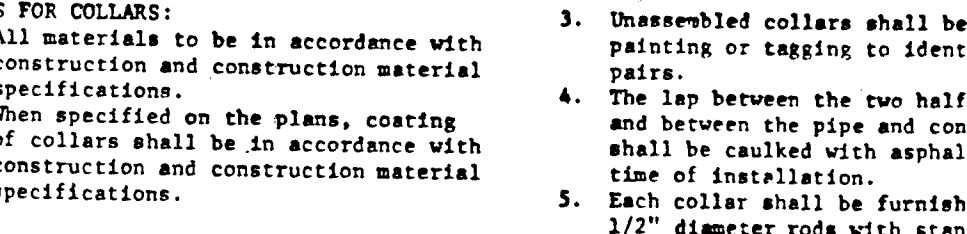
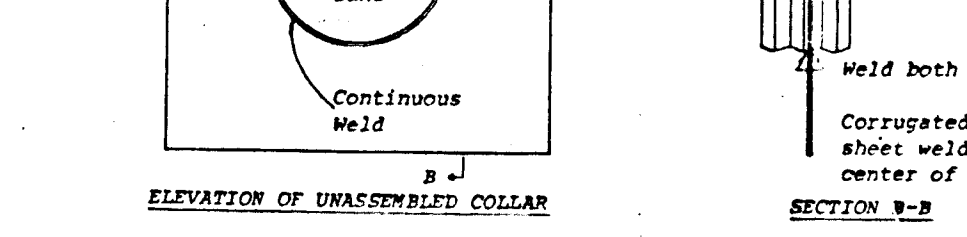
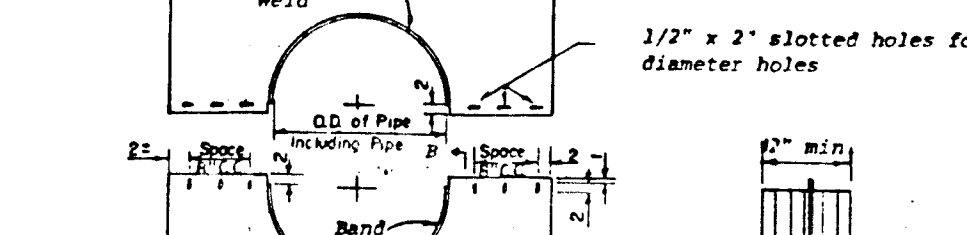
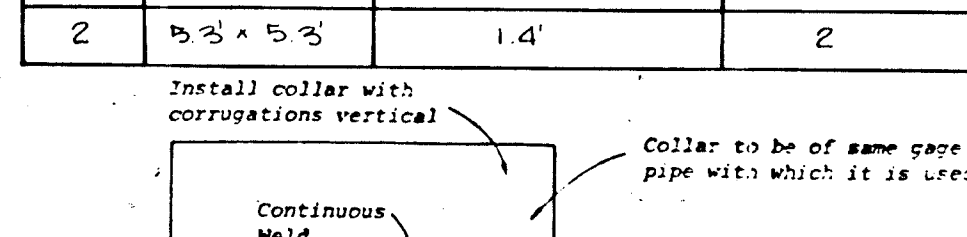
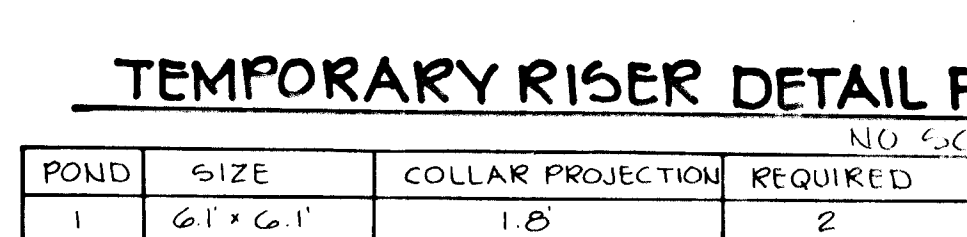
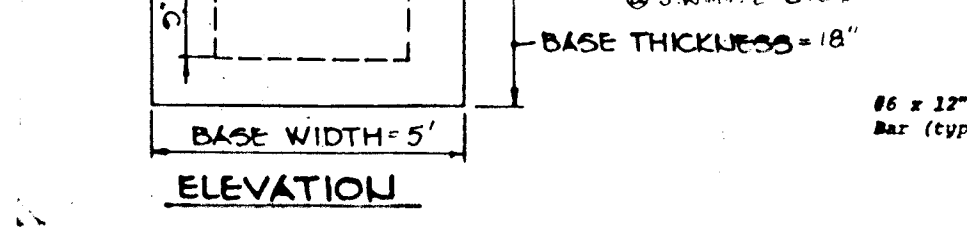
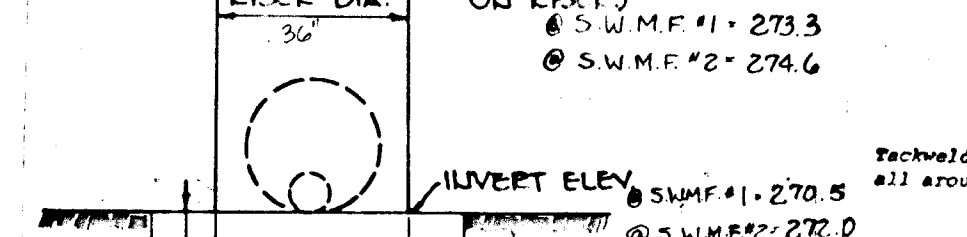
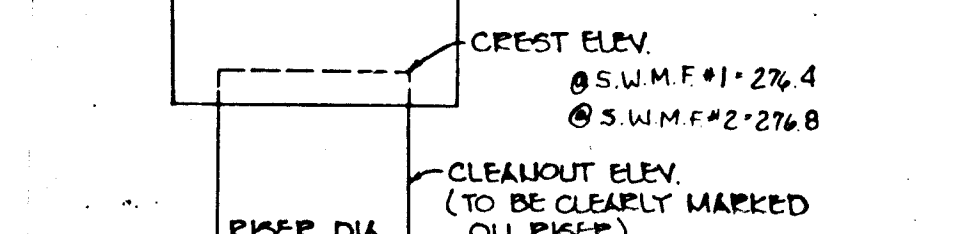
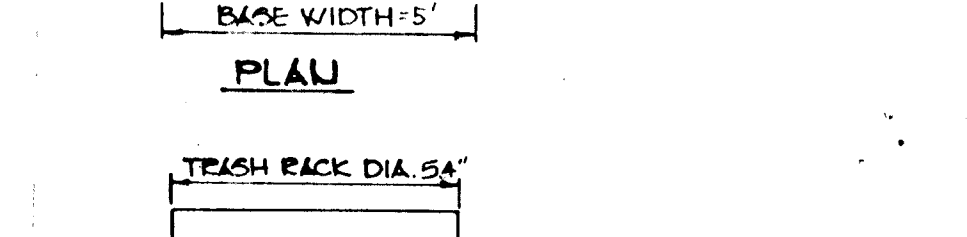
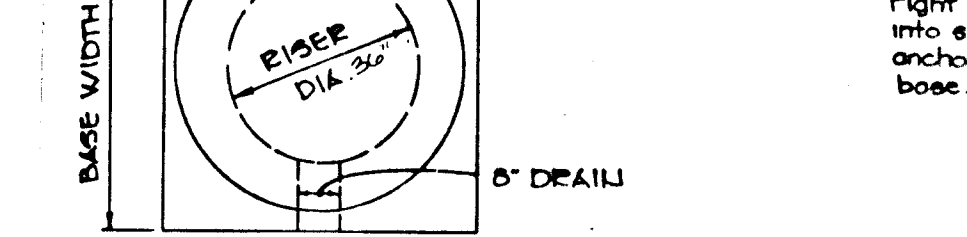
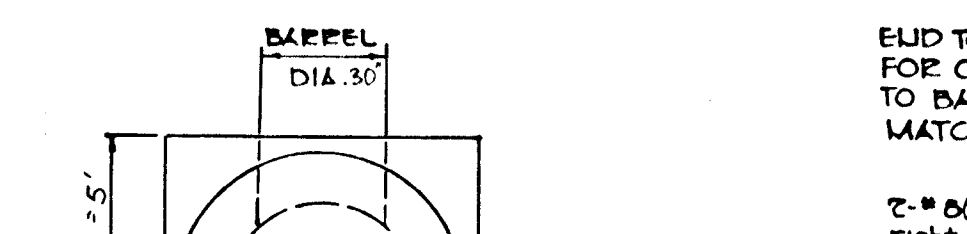
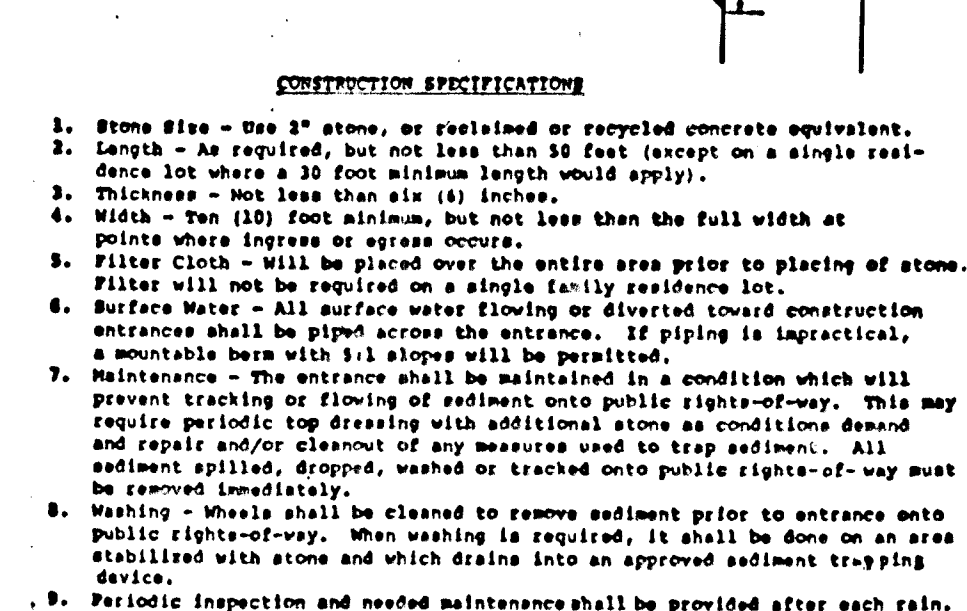
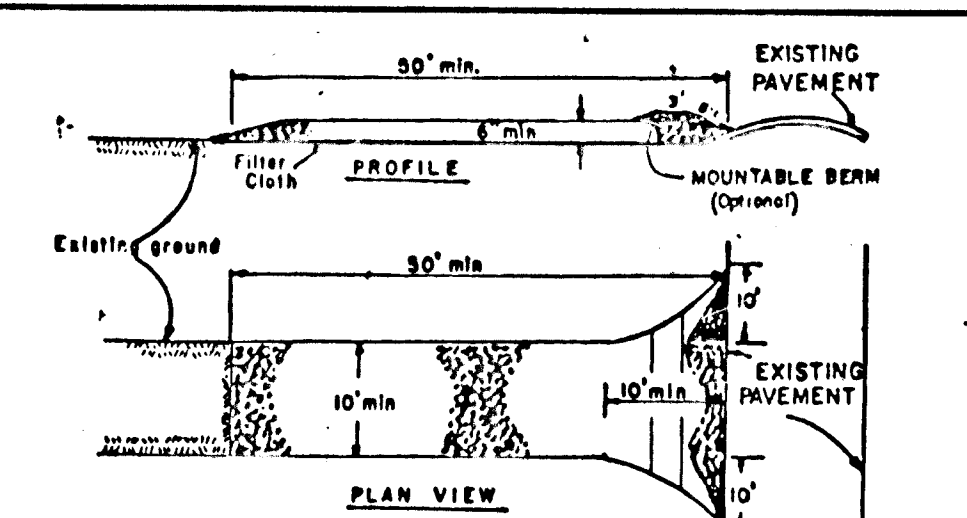
Consolidating:
Concrete shall be consolidated with internal type mechanical vibrators. Vibration shall be supplemented by spading and hand tamping as necessary to insure smooth and dense concrete along form surfaces, in corners, and around embedded items.

Finishing:
Defining 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 reamed and completely filled with dry-patching mortar.

Protection and Curing:
Exposed surfaces of concrete shall be protected from the direct rays of the sun for at least the first three (3) days. All concrete shall be kept continuously moist for at least ten (10) 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.

114. CONCRETE
Material:
1. Cement - Normal Portland 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 be used.
4. Course 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.

Mixing:
The concrete ingredients shall be mixed in batch mixers until the mixture is uniform 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 on proper control of the speed of rotation of the mixer and rotation of proper of the material, including water, into the mixer. Water shall be added prior to, during, and following the mixer-charging operations. Excessive overmixing requiring the additions of water will cause 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.



This seal applies only to revisions by GSW

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.

Richard W. Goodman 12/15/86
DICK GOODMAN

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. Muffge 12-15-86
ARTHUR E. MUFFGE

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 M. Helmer 12-18-86
JAMES M. HELMER

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

APPROVED: Robert W. Ziehm 12-18-86
ROBERT W. ZIEHM

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING
John W. Muehmann 2-2-87
JOHN W. MUEHMANN

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
Richard W. Ziehm 2-2-87
RICHARD W. ZIEHM

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
Richard W. Ziehm 2-2-87
RICHARD W. ZIEHM

OWNER/DEVELOPER:
CAPITAL HOMES INC.
8102 ASPENWOOD WAY
JESSUP, MARYLAND 20794

PROJECT: WILLOWOOD SECTION ONE

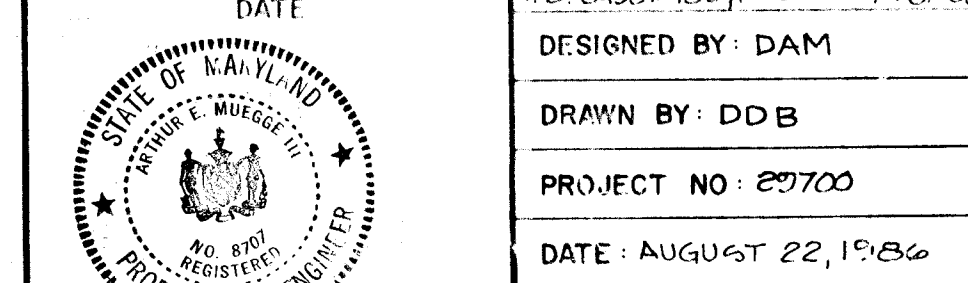
AREA TAX MAP 37 PARCELS 29, 130 (301)
1ST ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

TITLE: SEDIMENT CONTROL NOTES AND DETAILS

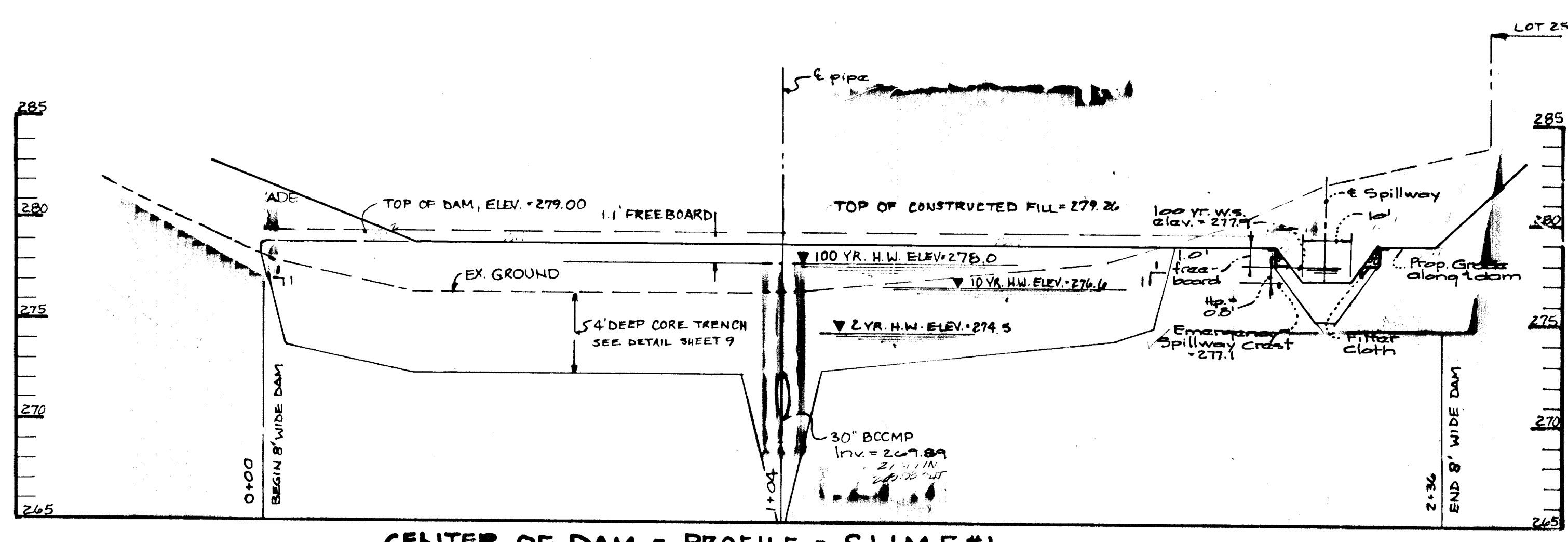
THE RIEMER GROUP, INC.
The Planner, Group, Inc. A Land Planning, Design & Civil Engineering Firm
3105 Honker Park Drive, Ellicott City, Maryland 21043 (301) 461-2690

DATE: 12-15-86
DRAWN BY: DDB

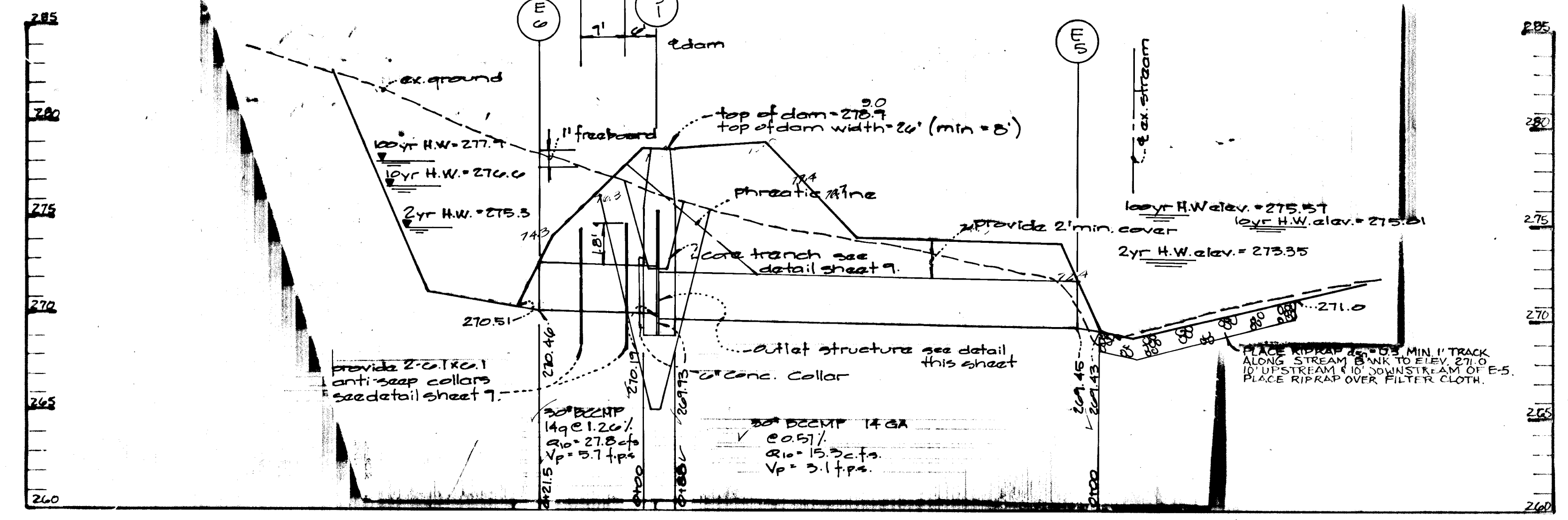
PROJECT NO: 29700
DATE: AUGUST 22, 1986
SCALE: AS SHOWN
DRAWING NO: 2 OF 10



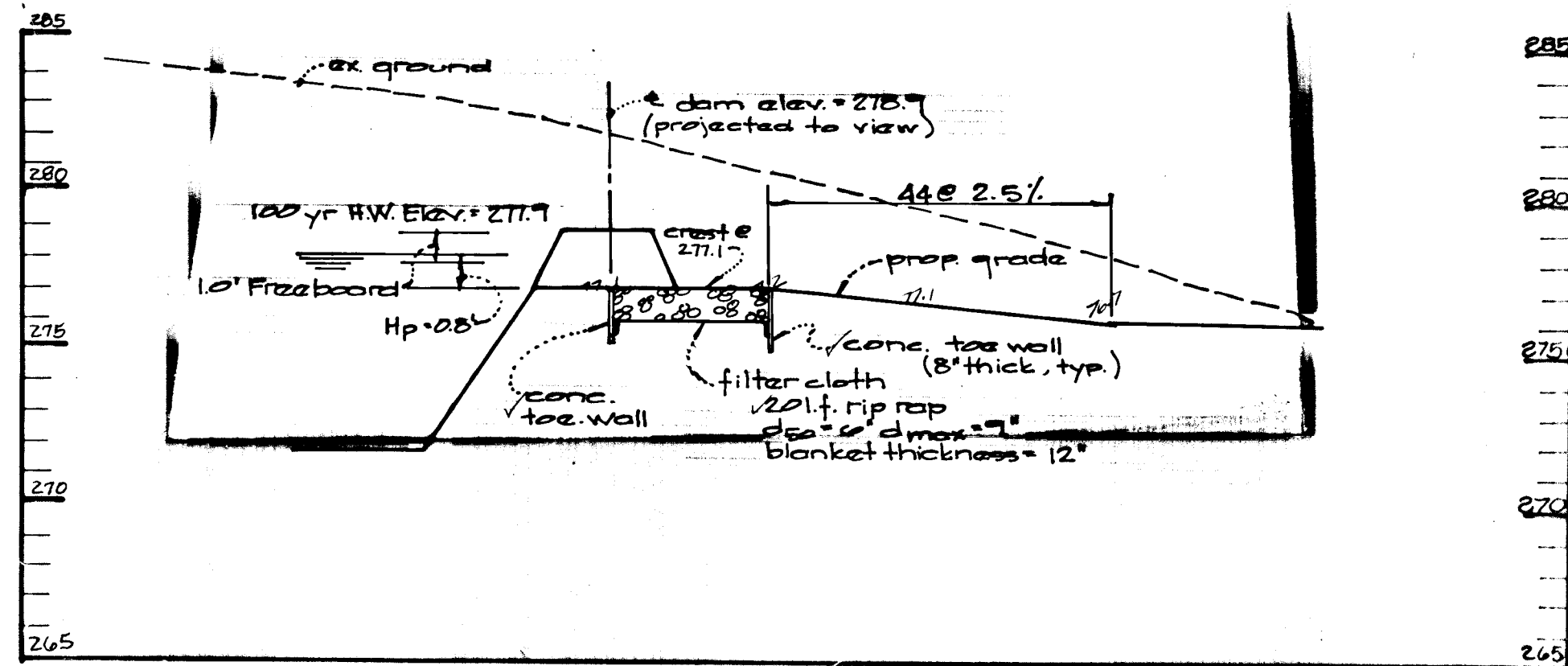
1248



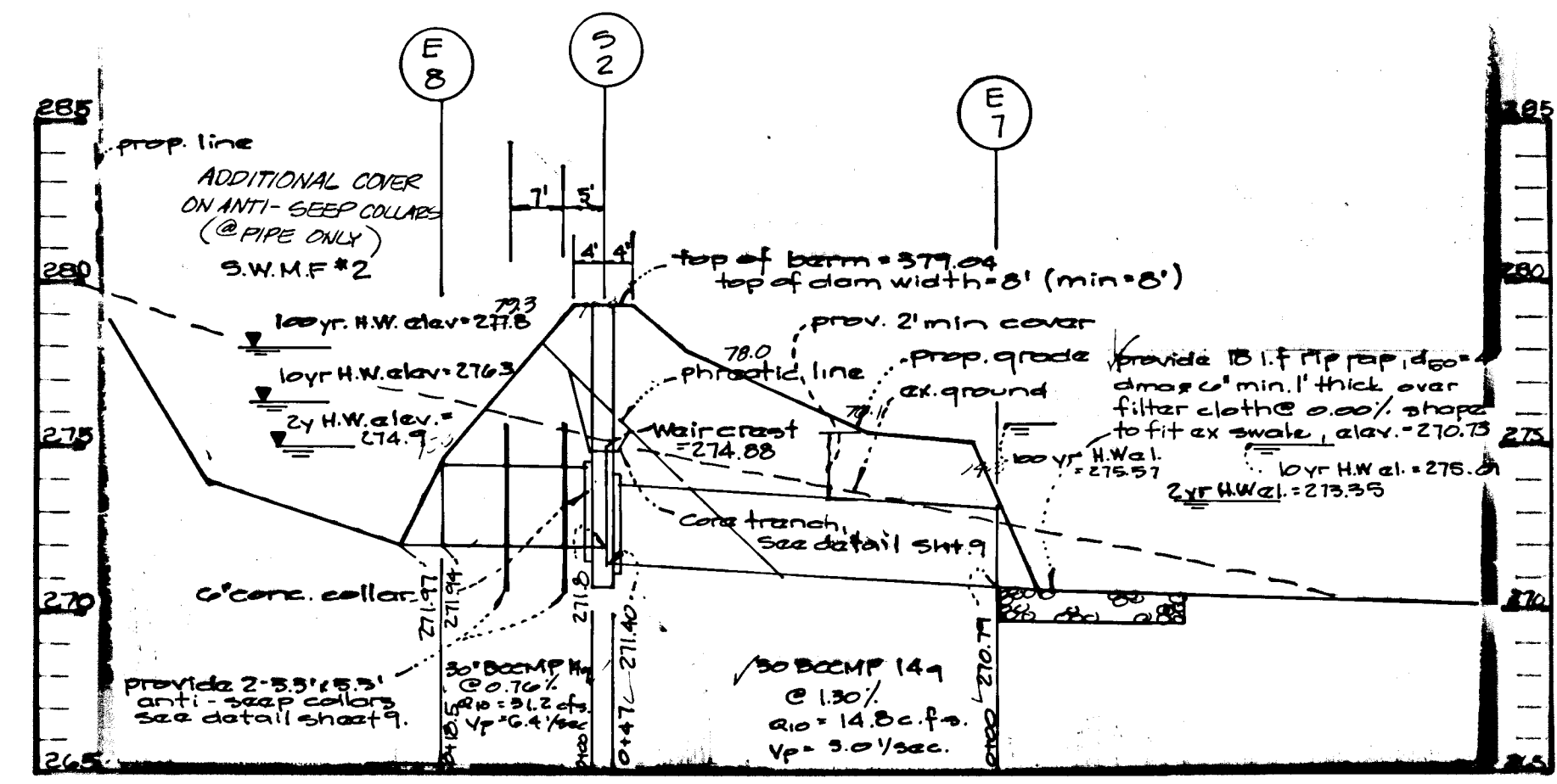
CENTER OF DAM - PROFILE - S.W.M.F.#1
SCALE: HORIZ.: 1" = 20'
VERT.: 1" = 5'



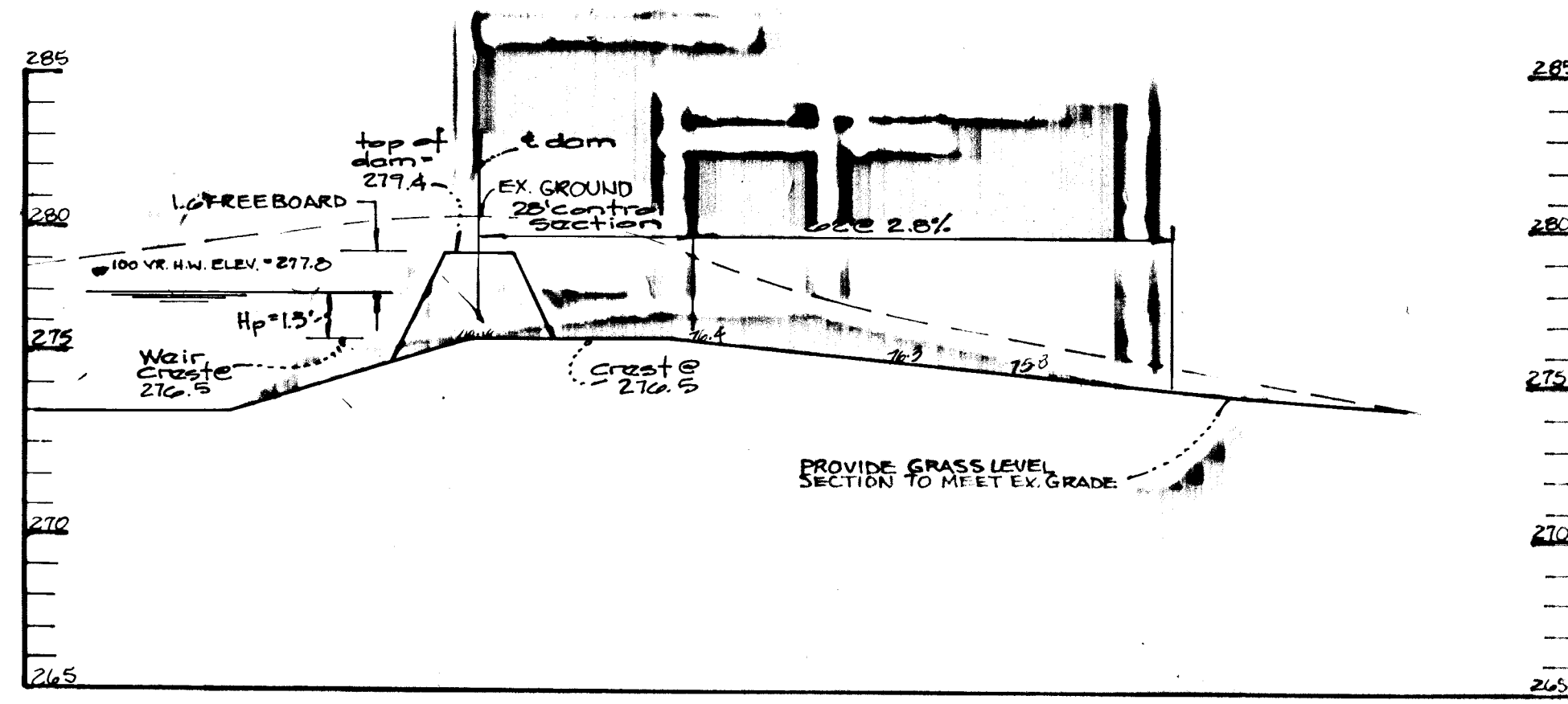
PRINCIPAL SPILLWAY PROFILE - S.W.M.F.#1
SCALE: HORIZ.: 1" = 20'
VERT.: 1" = 5'



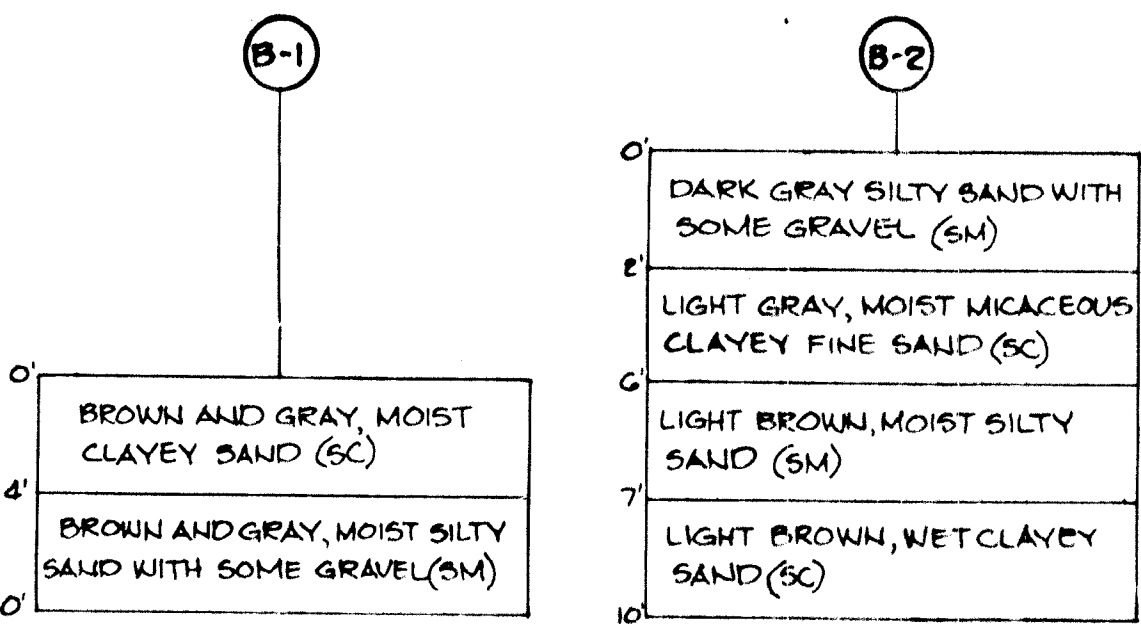
EMERGENCY SPILLWAY PROFILE - S.W.M.F.#1
SCALE: HORIZ.: 1" = 20'
VERT.: 1" = 5'



PRINCIPAL SPILLWAY PROFILE - S.W.M.F.#2
SCALE: HORIZ.: 1" = 20'
VERT.: 1" = 5'

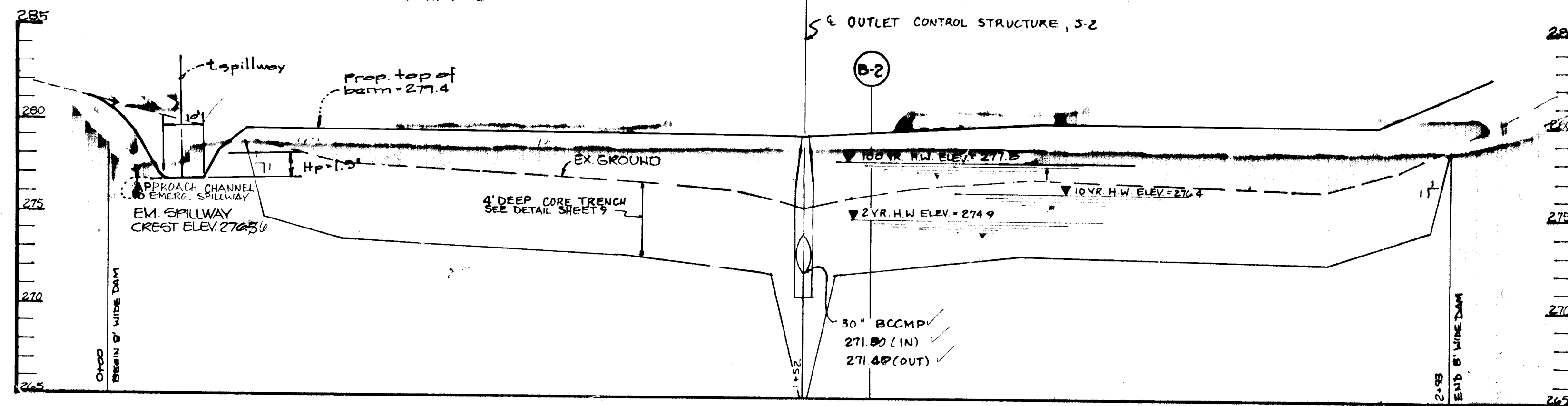


GRASSED EMERGENCY SPILLWAY - S.W.M.F.#2
SCALE: HORIZ.: 1" = 20'
VERT.: 1" = 5'



BORING LOGS
NO. OF FEET

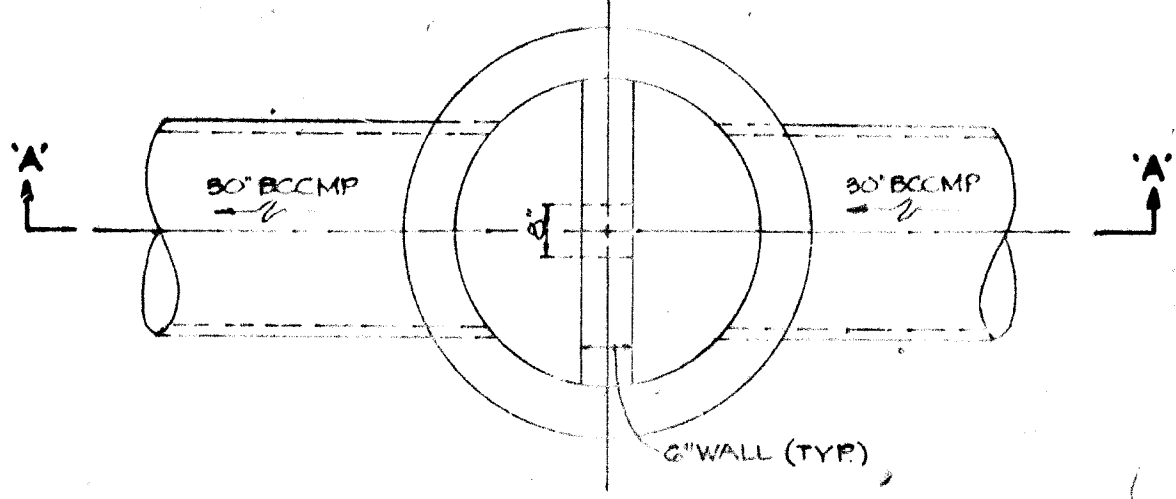
AS-BUILT NOV. 1993
GUTCHICK LITTLE & WEBER IS RESPONSIBLE FOR AS-BUILT INFORMATION ONLY



CENTER OF DAM PROFILE - S.W.M.F.#2
SCALE: HORIZ.: 1" = 20'
VERT.: 1" = 5'

ELEV	S.W.M.F.#1	S.W.M.F.#2
A	275.35	274.85
B	269.95	271.40
C	270.19	271.80
D	276.00	277.30

NOTES:
1) 30" BCCMP INLET AND OUTLET PIPES ARE TYPICAL FOR STRUCTURES 5-1 AND 5-2
2) TOP ELEV. OF STRUCTURES 5-1 AND 5-2 = 277.00



OUTLET CONTROL STRUCTURE @ 5-1 & 5-2

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING
Richard W. Goodman 2-3-87
DIRECTOR

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
William E. Mueggel 2-2-87
CHIEF, BUREAU OF ENGINEERING

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."
Richard W. Goodman 12/15/86
DEVELOPER

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 AND 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. Mueggel 12-15-86
ENGINEER

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 M. Helm 12-18-86
DISTRICT ENGINEER

THESE PLANS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.
Robert W. Zick 12-18-86
ENGINEER

7/2/87 1 Revise profiles per new design
DATE NO REVISION

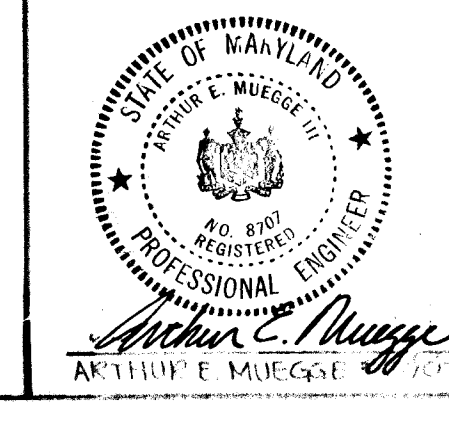
OWNER/DEVELOPER
CAPITAL HOMES INC.
8102 ASPENWOOD WAY
JESSUP, MARYLAND 20794

PROJECT: **WILLOWOOD SECTION ONE**
AREA A 742 MAP 37
1ST ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

TITLE: **STORM WATER MANAGEMENT PROFILES AND DETAILS**

THE RIFMER GROUP, INC.
The Rifmer Group, Inc. A Land Planning, Design & Civil Engineering Firm
8105 North Park Drive, Ellicott City, Maryland 21043 (301) 261-2650

12-15-86
DATE
DESIGNED BY: JJB
DRAWN BY: S.V.W.
PROJECT NO: 29700
DATE AUGUST 22, 1986
SCALE: AS SHOWN
DRAWING NO. 10 OF 10



William E. Mueggel 9-2-93
This seal applies only to revisions by SW.

1248