

SHEET INDEX	
NO.	DESCRIPTION
1	TITLE SHEET
2	SITE DEVELOPMENT PLAN
3	SITE DEVELOPMENT PLAN
4	SITE DEVELOPMENT PLAN
5	SITE DEVELOPMENT PLAN
6	PLANNING PLAN
7	PLANNING PLAN
8	DETAIL SHEET

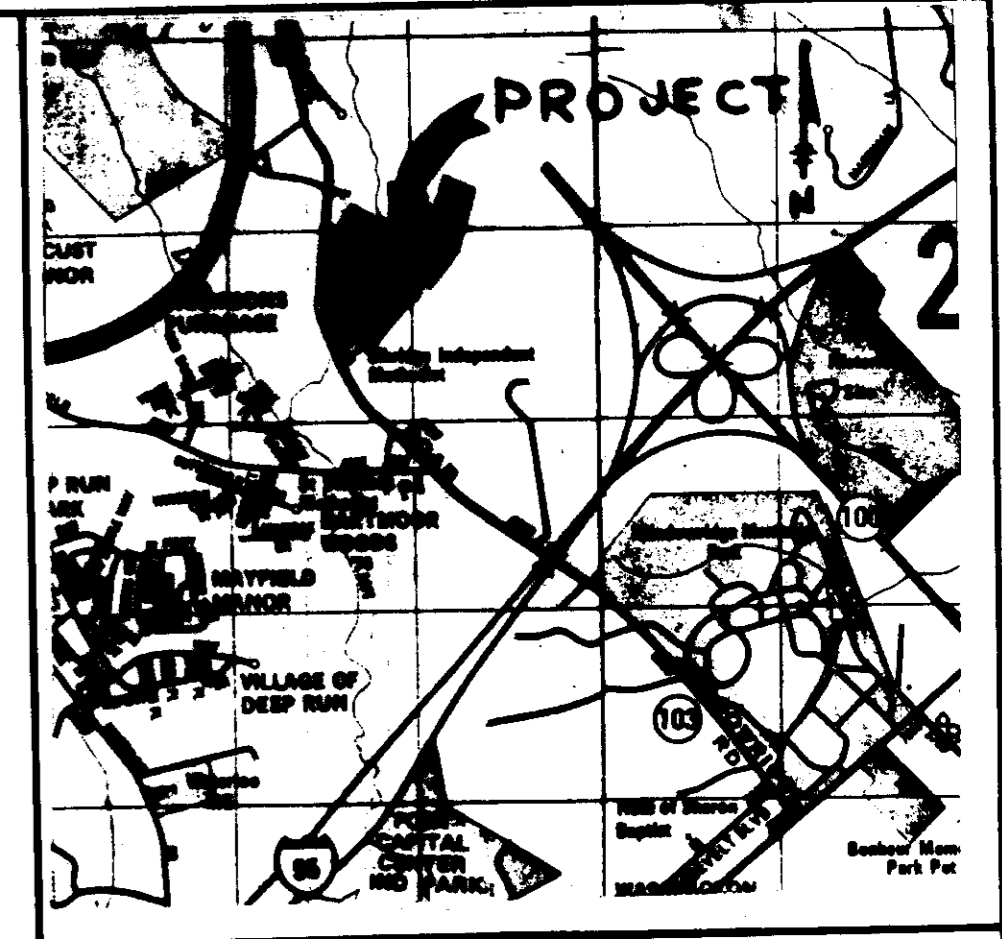
# SITE DEVELOPMENT PLAN

# WILLOWOOD

## SECTION ONE

## 1ST ELECTION DISTRICT

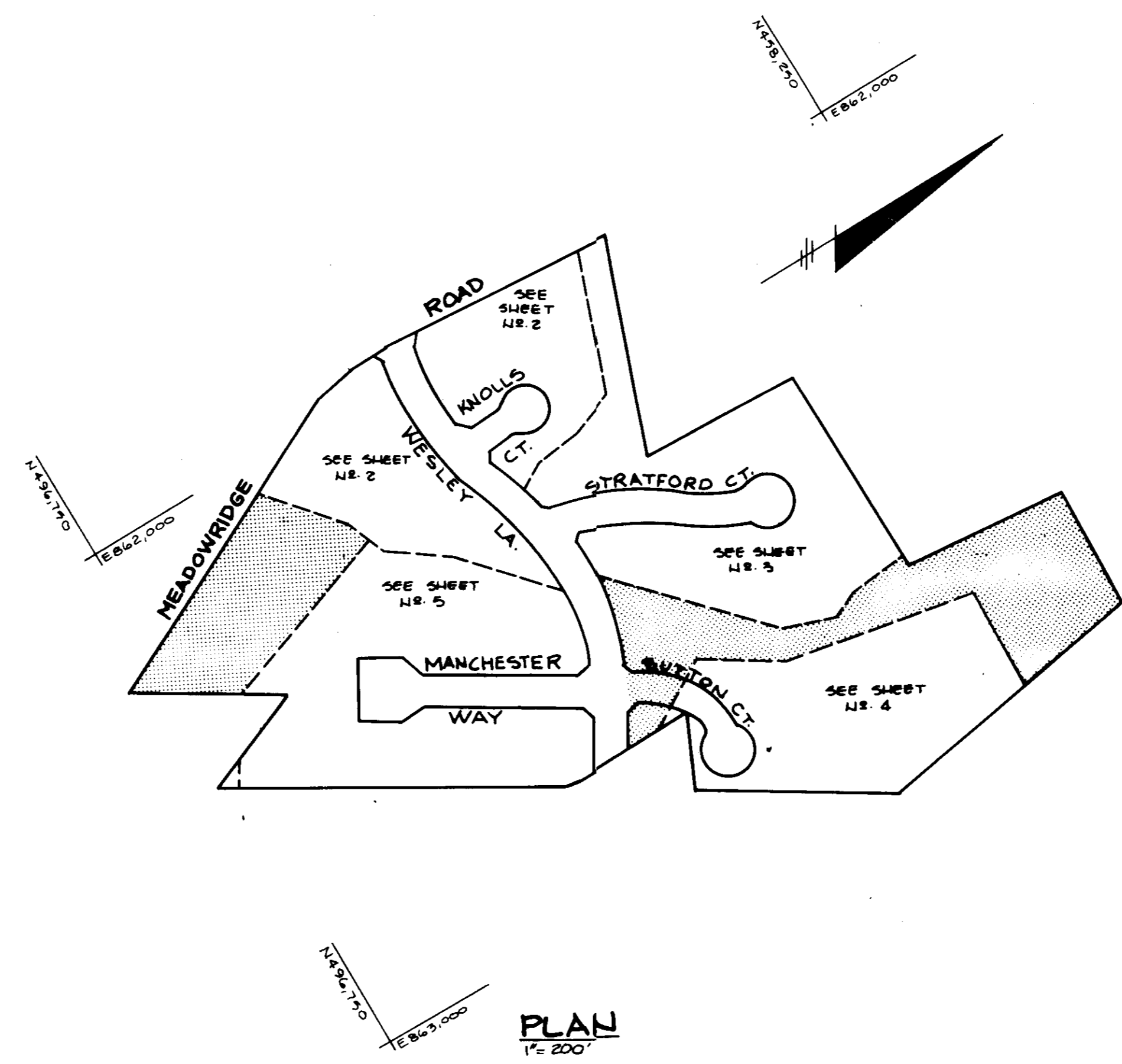
## HOWARD COUNTY, MARYLAND



VICINITY MAP  
SCALE 1" = 2000'

ADDRESS CHART

LOT NUMBER	STREET ADDRESS	LOT NUMBER	STREET ADDRESS
1	6203 KNOLLS COURT	43	6236 MANCHESTER WAY
2	6207 KNOLLS COURT	44	6240 MANCHESTER WAY
3	6211 KNOLLS COURT	45	6242 MANCHESTER WAY
4	6215 KNOLLS COURT	46	6244 MANCHESTER WAY
5	6219 KNOLLS COURT	47	6246 MANCHESTER WAY
6	6210 KNOLLS COURT	48	6248 MANCHESTER WAY
7	6206 KNOLLS COURT	49	6250 MANCHESTER WAY
8	6202 KNOLLS COURT	50	6252 MANCHESTER WAY
9	6201 STRATFORD COURT	51	6254 MANCHESTER WAY
10	6209 STRATFORD COURT	52	6233 MANCHESTER WAY
11	6213 STRATFORD COURT	53	6231 MANCHESTER WAY
12	6217 STRATFORD COURT	54	6229 MANCHESTER WAY
13	6221 STRATFORD COURT	55	6227 MANCHESTER WAY
14	6225 STRATFORD COURT	56	6225 MANCHESTER WAY
15	6230 STRATFORD COURT	57	6223 MANCHESTER WAY
16	6226 STRATFORD COURT	58	6221 MANCHESTER WAY
17	6222 STRATFORD COURT	59	6219 MANCHESTER WAY
18	6218 STRATFORD COURT	60	6215 MANCHESTER WAY
19	6214 STRATFORD COURT	61	6213 MANCHESTER WAY
20	6210 STRATFORD COURT	62	6211 MANCHESTER WAY
21	6221 WESLEY LANE	63	6209 MANCHESTER WAY
22	6217 WESLEY LANE	64	6207 MANCHESTER WAY
23	6213 WESLEY LANE	65	6205 MANCHESTER WAY
24	6209 WESLEY LANE	66	6203 MANCHESTER WAY
25	6205 WESLEY LANE	67	6201 MANCHESTER WAY
26	6201 WESLEY LANE	68	6205 SUTTON COURT
27	6200 MANCHESTER WAY	69	6207 SUTTON COURT
28	6202 MANCHESTER WAY	70	6209 SUTTON COURT
29	6204 MANCHESTER WAY	71	6211 SUTTON COURT
30	6206 MANCHESTER WAY	72	6213 SUTTON COURT
31	6208 MANCHESTER WAY	73	6215 SUTTON COURT
32	6212 MANCHESTER WAY	74	6217 SUTTON COURT
33	6214 MANCHESTER WAY	75	6219 SUTTON COURT
34	6216 MANCHESTER WAY	76	6223 SUTTON COURT
35	6218 MANCHESTER WAY	77	6225 SUTTON COURT
36	6220 MANCHESTER WAY	78	6227 SUTTON COURT
37	6224 MANCHESTER WAY	79	6229 SUTTON COURT
38	6226 MANCHESTER WAY	80	6231 SUTTON COURT
39	6228 MANCHESTER WAY	81	6233 SUTTON COURT
40	6230 MANCHESTER WAY	82	6235 SUTTON COURT
41	6232 MANCHESTER WAY	83	6237 SUTTON COURT
42	6234 MANCHESTER WAY		



**SITE TABULATION**

TOTAL AREA OF PROPERTY	21.88 Ac. (953,093 S.F.)
AREA OF SUBMISSION	28.88 Ac. TOTAL (958,092 S.F.)
EXISTING ZONING	R-50
PROPOSED USE	SINGLE FAMILY DETACHED
NO. OF DWELLING UNITS PROPOSED	83 (26 Single Family Detached & 57 Single Family Attached)
LOT COVERAGE PERMITTED	40% MAXIMUM
AREA OF FLOODPLAIN & STEEP SLOPES	3.02 Ac. (131,551 S.F.)
OPEN SPACE REQUIRED	20% (4.4 Ac.) (194,664 S.F.)
OPEN SPACE PROPOSED	482 (10.56 Ac.) (460,429 S.F.)
PARKING REQUIRED	184 SPACES
PARKING PROVIDED	184 SPACES

**DENSITY TABULATION**

TOTAL AREA RECORDED	28.88 (953,093 S.F.)
AREA OF FLOODPLAIN & STEEP SLOPES	3.02 Ac. (131,551 S.F.)
NET AREA	18.86 Ac. (821,542 S.F.)
NO. OF DWELLING UNITS PERMITTED	75 D.U.
FLOODPLAIN LOT ADJUSTMENT	8 D.U.
NO. OF DWELLING UNITS PROPOSED THIS SUBMISSION	83 D.U.
TOTAL NO. OF DWELLING UNITS PROPOSED	83 D.U.
DENSITY PER ACRE	3.8 D.U./Ac.

- 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.
  - 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	1-800-357-7777
C & P TELEPHONE COMPANY	725-9976
HOWARD COUNTY BUREAU OF UTILITIES	992-2366
AT&T CABLE LOCATION DIVISION	399-3553
BALTIMORE GAS & ELECTRIC COMPANY	683-0123
STATE HIGHWAY ADMINISTRATION	331-5533
HOWARD COUNTY CONSTRUCTION/INSPECTION SURVEY DIVISION (24 HOURS NOTICE PRIOR TO COMMENCEMENT OF WORK)	892-7272
  - 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 JULY 1, 1986 BY THE RIEMER 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.
  - STORM WATER MANAGEMENT FOR THIS SITE WAS DESIGNED AND CONSTRUCTED AS PER F-87-41.

**APPROVED**  
PLANNING BOARD  
OF HOWARD COUNTY  
DATE 12-10-86

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.  
*James M. ...* COUNTY HEALTH OFFICER 7-1-88 DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING.  
*James M. ...* PLANNING DIRECTOR 7/8/88 DATE

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.  
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
*James M. ...* DIRECTOR 6/29/88 DATE

CHIEF, BUREAU OF ENGINEERING 6/29/88 DATE

DATE NO. REVISION

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

PROJECT: **WILLOWOOD**  
SECTION ONE LOTS 1-26, SFD & LOTS 27-88, SFA

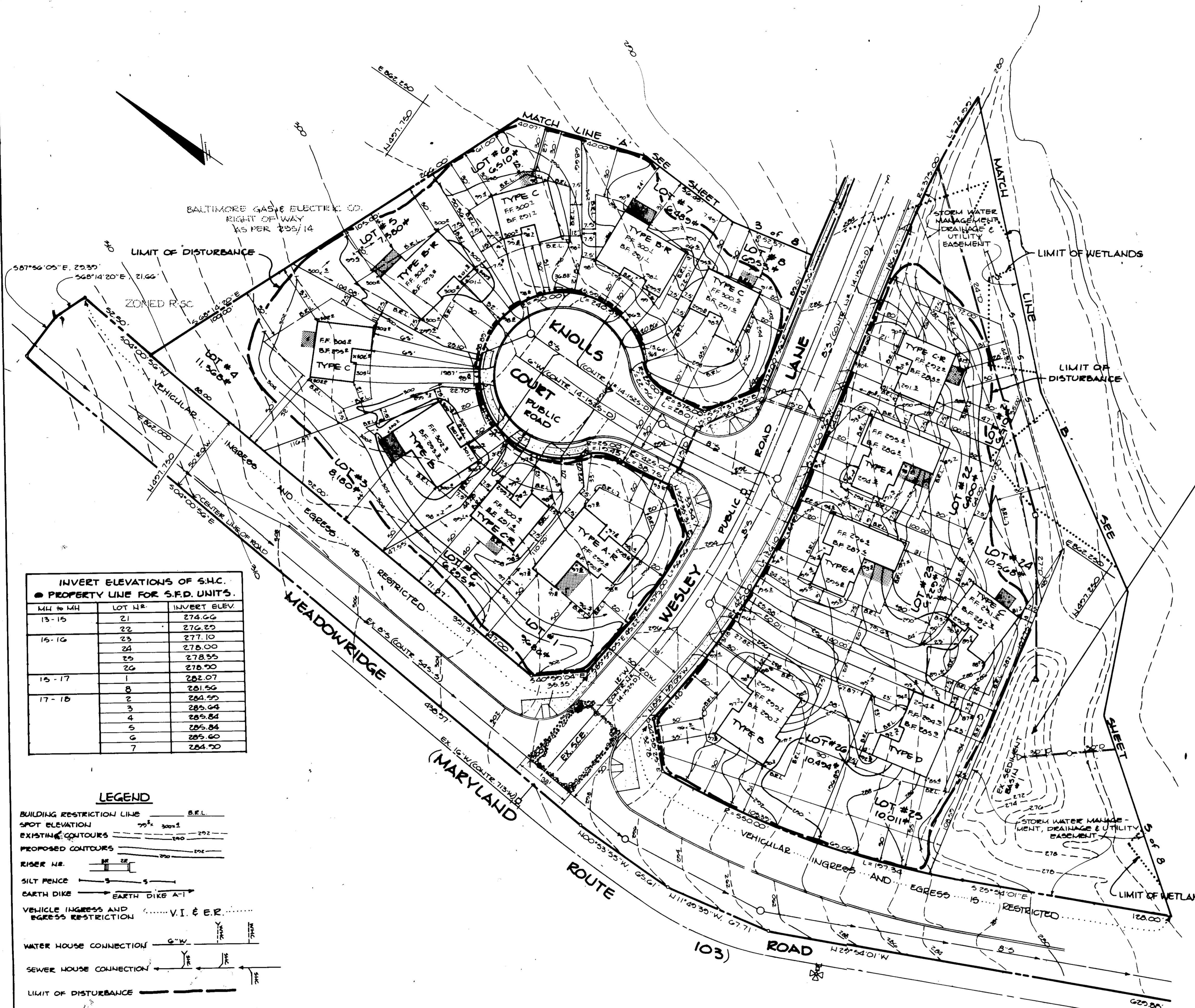
AREA TAX MAP 57 PARCELS 79,150 & 501  
1ST ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND

TITLE: **TITLE SHEET**  
SINGLE FAMILY DETACHED & ATTACHED UNITS

**THE RIEMER GROUP, INC.**  
The Riemer Group, Inc. A Land Planning, Design & Civil Engineering Firm  
3106 Health Park Drive, Ellicott City, Maryland 21043 (301) 481-2800

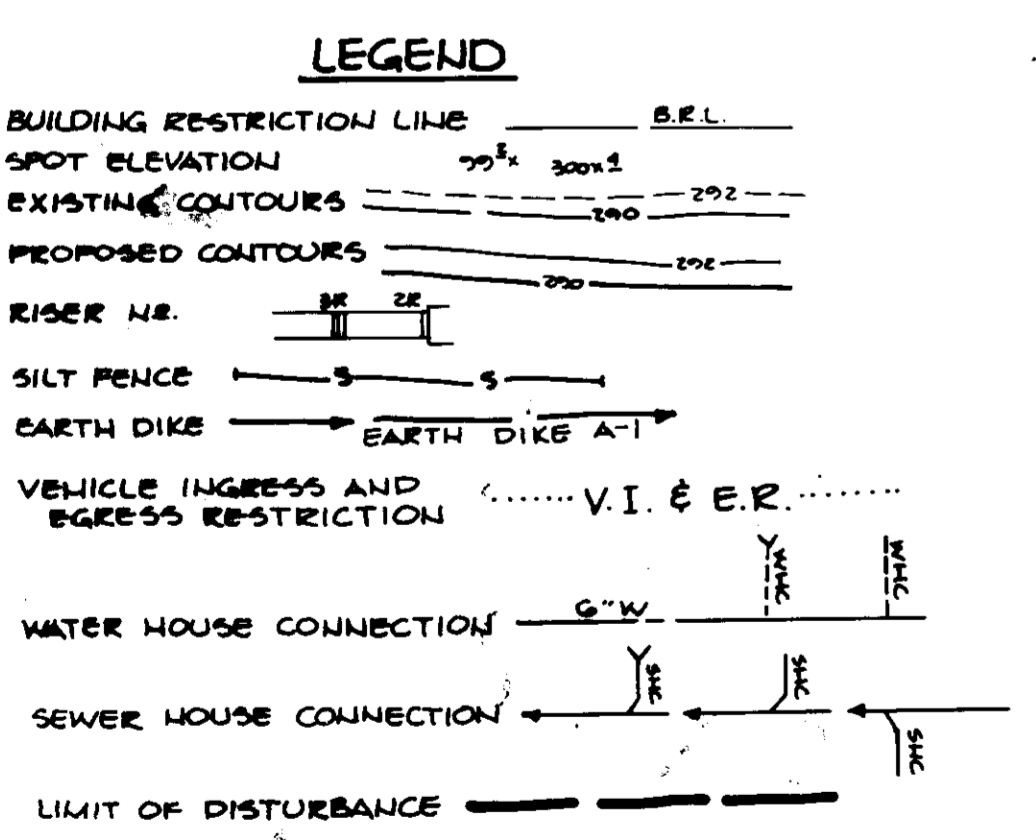
DESIGNED BY: M.E.M.  
DRAWN BY: H.M.B., S.R.  
PROJECT NO: 29700  
DATE: 10-23-86  
SCALE: AS SHOWN  
DRAWING NO. 1 OF 6

SDP-87-81



**INVERT ELEVATIONS OF S.H.C.  
● PROPERTY LINE FOR S.F.D. UNITS.**

MH to MH	LOT NO.	INVERT ELEV.
13-15	21	274.06
	22	276.23
15-16	23	277.10
	24	278.00
	25	278.55
	26	278.70
15-17	1	282.07
	2	281.56
17-18	3	284.59
	4	285.04
	5	285.84
	6	285.60
	7	284.70



**SEDIMENT BASIN #1  
DATA TABLE**

DA = 7.0 AC  
 REQUIRED VOLUME = 12,000 CF  
 VOLUME PROVIDED = 15,700 CF  
 CREST ELEVATION = 276.4  
 CLEAN OUT ELEVATION = 275.5  
 BOTTOM ELEVATION = 270.5

**BY THE DEVELOPER:**  
 "I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, 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."  
*Richard W. Goodman* 4/6/88  
 DEVELOPER DATE

**BY THE ENGINEER:**  
 "I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT."  
*Arthur E. Muegge* 4/17/88  
 ENGINEER DATE

REVIEWED FOR *Howard* S.C.D.  
 AND METS TECHNICAL REQUIREMENTS  
*John A. Kelly* 6/17/88  
 U.S. SOIL CONSERVATION SERVICE DATE

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.  
*Arthur E. Muegge* 6/17/88  
 HOWARD S.C.D. DATE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.  
*John A. Kelly* 7-1-88  
 COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING.  
*James G. Lane* 7/6/88  
 PLANNING DIRECTOR DATE

APPROVED: CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT.  
*James G. Lane* 7/4/88  
 DATE

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.  
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
*James G. Lane* 6/23/88  
 DIRECTOR DATE

DATE NO. REVISION

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

PROJECT: **WILLOWOOD**  
 SECTION ONE LOTS 1-25, SPD & LOTS 27-28, SPD  
 AREA TAX MAP 37 PARCELS 79,130,301  
 1ST ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND

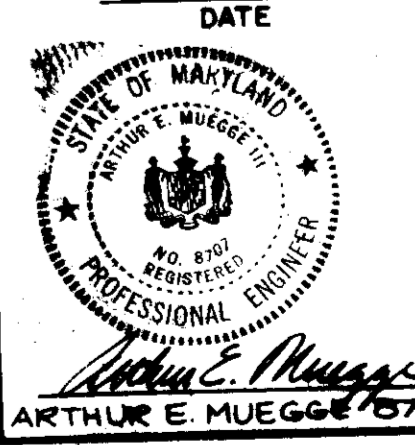
TITLE: **SITE DEVELOPMENT PLAN**  
 SINGLE FAMILY DETACHED UNITS

**THE RIEMER GROUP, INC.**  
 The Riemer Group, Inc. A Land Planning, Design & Civil Engineering Firm  
 3106 Ellicott City, Maryland 21043 (301) 481-2880

4-6-88  
 DATE

DESIGNED BY: M.E.M.  
 DRAWN BY: P.E.R.  
 PROJECT NO: 29700  
 DATE: 10-25-86  
 SCALE: 1" = 30'  
 DRAWING NO: 2 OF 8

**APPROVED**  
 PLANNING BOARD  
 OF HOWARD COUNTY  
 DATE 12-19-86



**INVERT ELEVATIONS OF S.H.C. @ PROPERTY LINE FOR S.F.D. UNITS.**

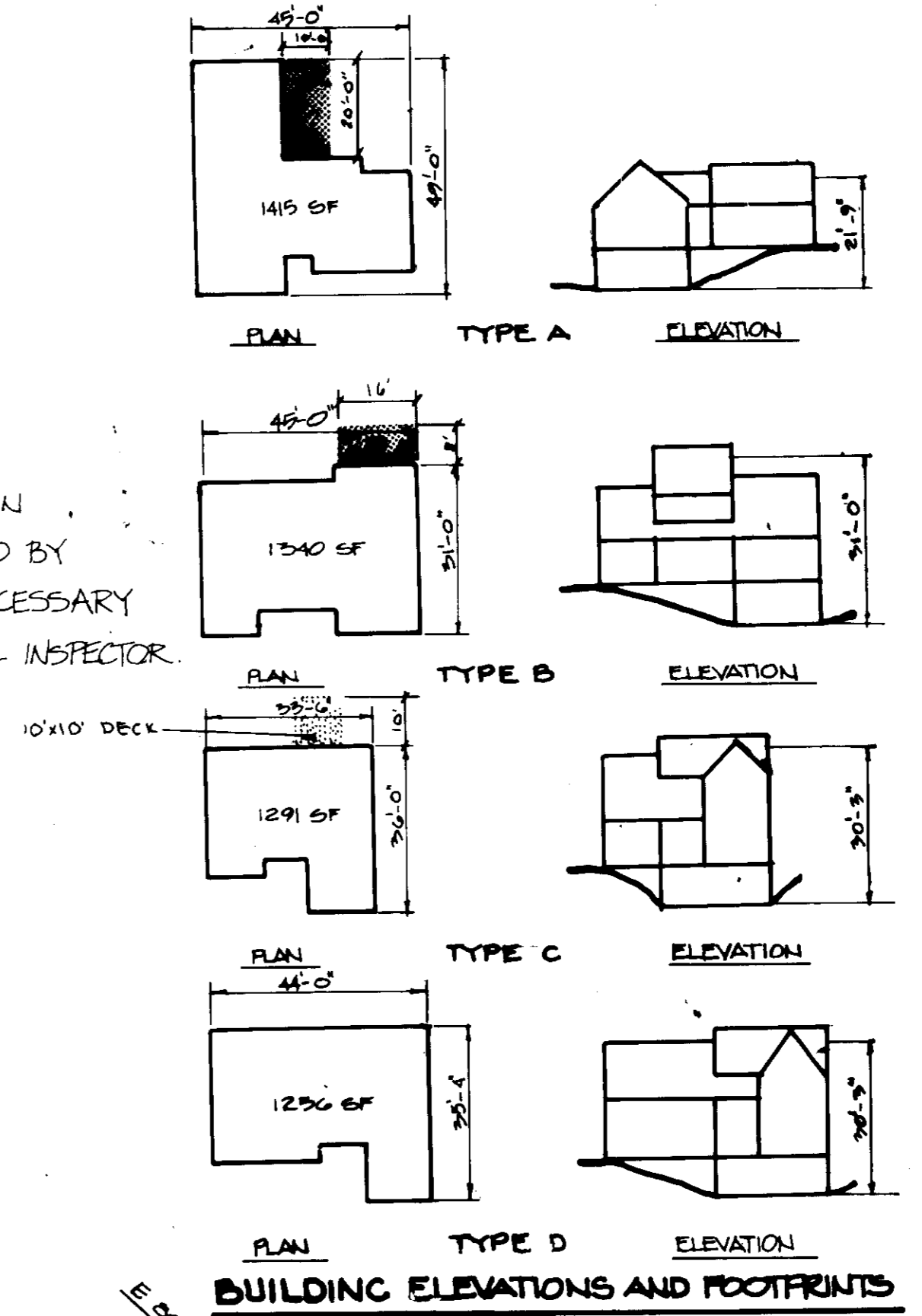
MH to MH	LOT NO.	INVERT ELEV.
13 - 15	9	274.65
13 - 20	10	279.65
"	11	280.46
"	12	282.08
"	13	283.08
"	14	283.10
"	15	283.10
"	16	282.76
"	17	282.76
"	18	281.57
"	19	280.14
"	20	279.54



**GRASS OUTLET TRAP #1 DATA TABLE**

DRAINAGE AREA	1.40 AC.
REQUIRED VOLUME	2920 CF.
VOLUME PROVIDED	2967 CF.
CREST ELEVATION	2830
BOTTOM ELEVATION	2800
CLEANOUT ELEVATION	282.0
BOTTOM DIMENSION	40x20
CREST WIDTH	6'

NOTE: STONE STABILIZATION OF OUTLET TO BE PERFORMED BY CONTRACTOR IF DEEMED NECESSARY BY THE SEDIMENT CONTROL INSPECTOR.



**BUILDING ELEVATIONS AND FOOTPRINTS**  
SCALE: 1" = 30'  
\* R-HORSE PLAN IS REVERSED

**BY THE DEVELOPER:**  
"I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, 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."  
*Richard W. Goodman* 4/6/88  
DEVELOPER DATE

**BY THE ENGINEER:**  
"I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT."  
*Arthur E. Muegge* 4-6-88  
ENGINEER DATE

REVIEWED FOR *Howard* S.C.D.  
AND MEETS TECHNICAL REQUIREMENTS  
*James M. Haly* 6/17/88  
U.S. SOIL CONSERVATION SERVICE DATE

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.  
*Arthur E. Muegge* 6/17/88  
HOWARD S.C.D. DATE

**APPROVED**  
PLANNING BOARD  
OF HOWARD COUNTY  
DATE: 12-19-86

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.  
*James M. Haly* 7-1-88  
COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING.  
*James M. Haly* 7/4/88  
PLANNING DIRECTOR DATE

*James M. Haly* 7/6/88  
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  
*James M. Haly* 6/27/88  
DIRECTOR DATE

*Edward B. Collins* 6/27/88  
MANAGER, BUREAU OF ENGINEERING, P.O. 6/27/88

DATE	NO.	REVISION

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

PROJECT: **WILLOWOOD**  
SECTION ONE LOTS 1-26, SPD & LOTS 27-63, SPA  
AREA TAX MAP 57 PARCELS 79, 130 & 301  
1ST ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND

TITLE: **SINGLE FAMILY DETACHED UNITS SITE DEVELOPMENT PLAN**

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

DATE: 4-6-88  
DESIGNED BY: MEM  
DRAWN BY: PER  
PROJECT NO: 27500  
DATE: 10-22-86  
SCALE: 1" = 30'  
DRAWING NO. 3 OF 8  
SDP-87-81

**GRASS OUTLET TRAP #2 DATA TABLE**

MAX D.A. = 1.25%

REQUIRED VOLUME = 2,250 CF

VOLUME PROVIDED = 2,322 CF

CREST ELEVATION = 285.0

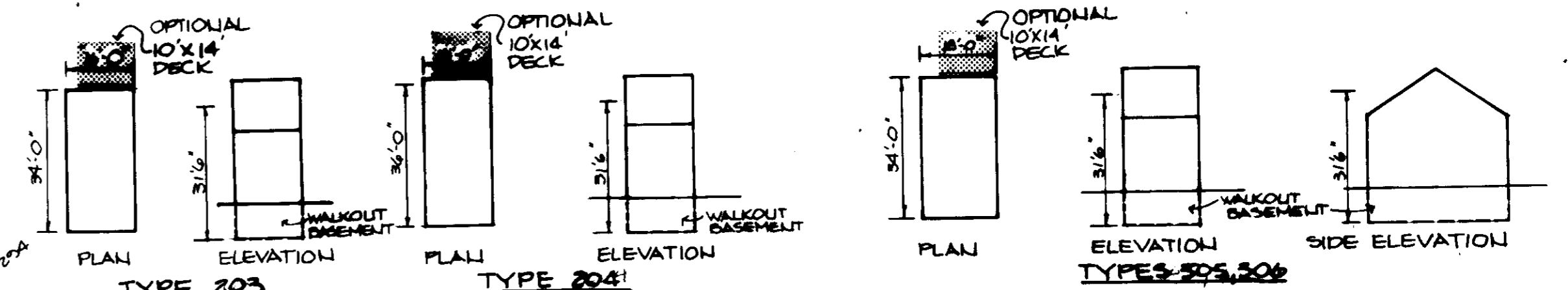
BOTTOM ELEVATION = 280.0

CLEAN OUT ELEVATION = 282.0

BOTTOM DIMENSIONS = 40' x 15'

CREST WIDTH = 5'

NOTE: STONE STABILIZATION OF OUTLET TO BE PERFORMED BY CONTRACTOR IF DEEMED NECESSARY BY THE SEDIMENT CONTROL INSPECTOR.



**BUILDING FOOTPRINTS AND ELEVATIONS**  
SCALE: 1" = 30'

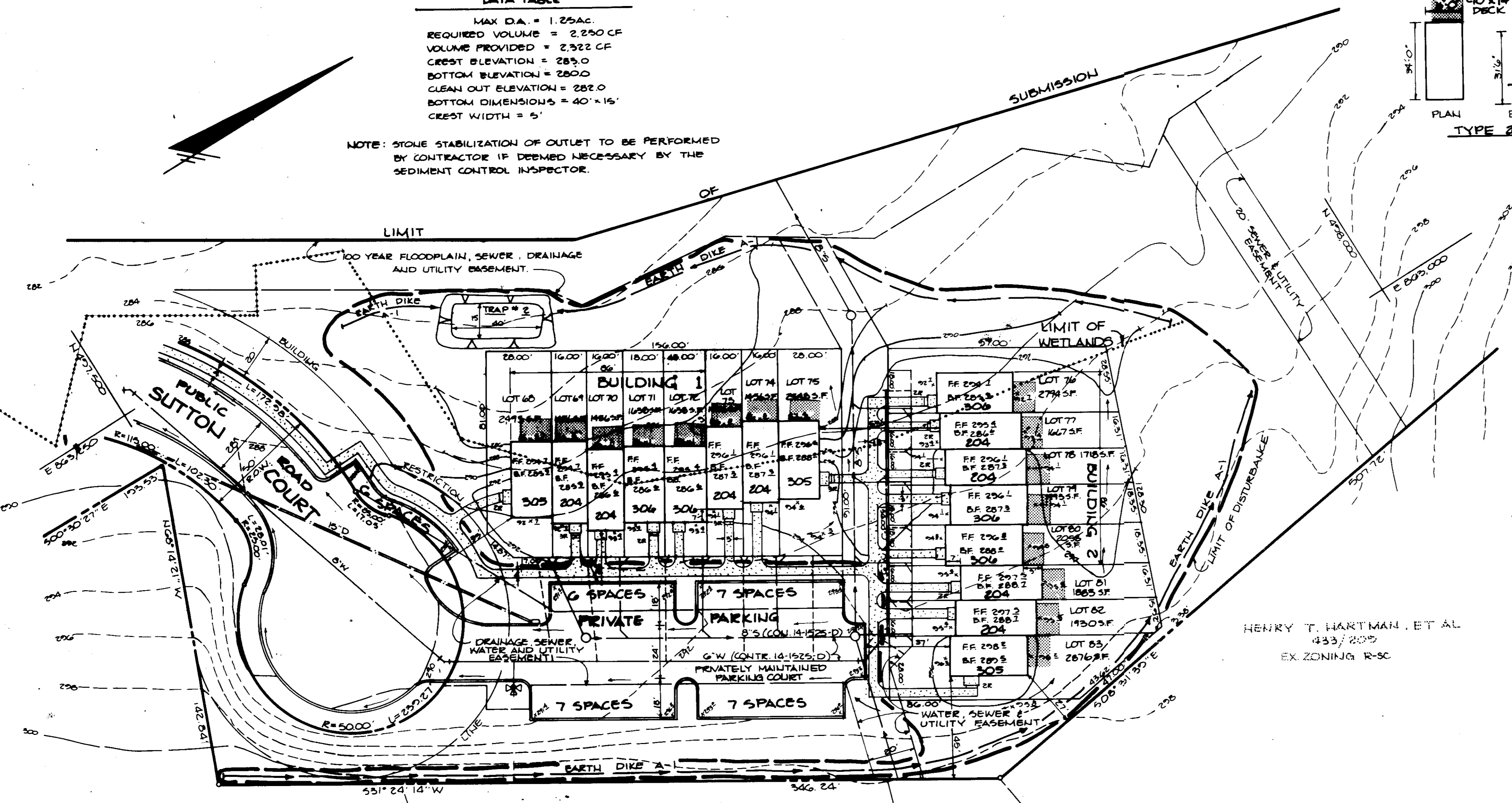
**BUILDING LENGTH**

BUILDING #1 = 136'

" #2 = 136'

INVERT ELEVATIONS OF S.H.C.  
@ PROPERTY LINE FOR ATTACHED UNITS

LOT NO.	TYPE	INVERT EL.	MIN. SERVICEABLE
68169	DOUBLE	282.46	286.66
70471	DOUBLE	282.10	285.80
72473	DOUBLE	281.91	286.12
74175	DOUBLE	281.74	284.95
82489	DOUBLE	281.50	284.21
80481	DOUBLE	281.01	284.21
78477	DOUBLE	280.81	284.01
76477	DOUBLE	280.64	283.85



HENRY T. HARTMAN, ET AL  
433/205  
EX ZONING R-SC

PERCY SCHERR  
453/456  
EX ZONING R-SC

HENRY T. HARTMAN  
433/214  
EX ZONING R-SC

BY THE DEVELOPER:

"I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY 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."

*Richard Woodman* 4/16/85  
DEVELOPER DATE

BY THE ENGINEER:

"I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT."

*Arthur E. Muegge* 4-16-85  
DATE

REVIEWED FOR: *Howard* S.C.D.  
NAME

AND METS TECHNICAL REQUIREMENTS

*James M. Holm* 6/17/88  
DATE

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

*Stephen L. Huber* 4/17/88  
DATE

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

*James M. Holm* 7-1-81  
COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING.

*James M. Holm* 7/6/88  
PLANNING DIRECTOR DATE

*James M. Holm* 7/6/88  
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

*James M. Holm* 6/27/88  
DIRECTOR DATE

*Arthur E. Muegge* 6/27/88  
CHIEF, BUREAU OF ENGINEERING DATE

DATE	NO.	REVISION

OWNER/DEVELOPER

CAPITAL HOMES, INC.  
5102 ASPENWOOD WAY  
JESSUP, MARYLAND 20794

PROJECT: **WILLOWOOD**  
SECTION ONE LOTS 1-26, SFD & LOTS 27-83, SPA

AREA TAX MAP 87 PARCELS 77, 150, 301  
1<sup>ST</sup> ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND

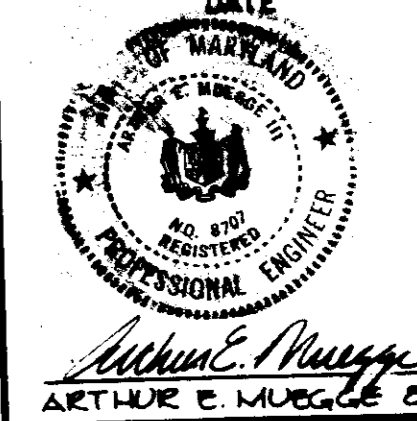
TITLE: **SITE DEVELOPMENT PLAN**  
SINGLE FAMILY ATTACHED

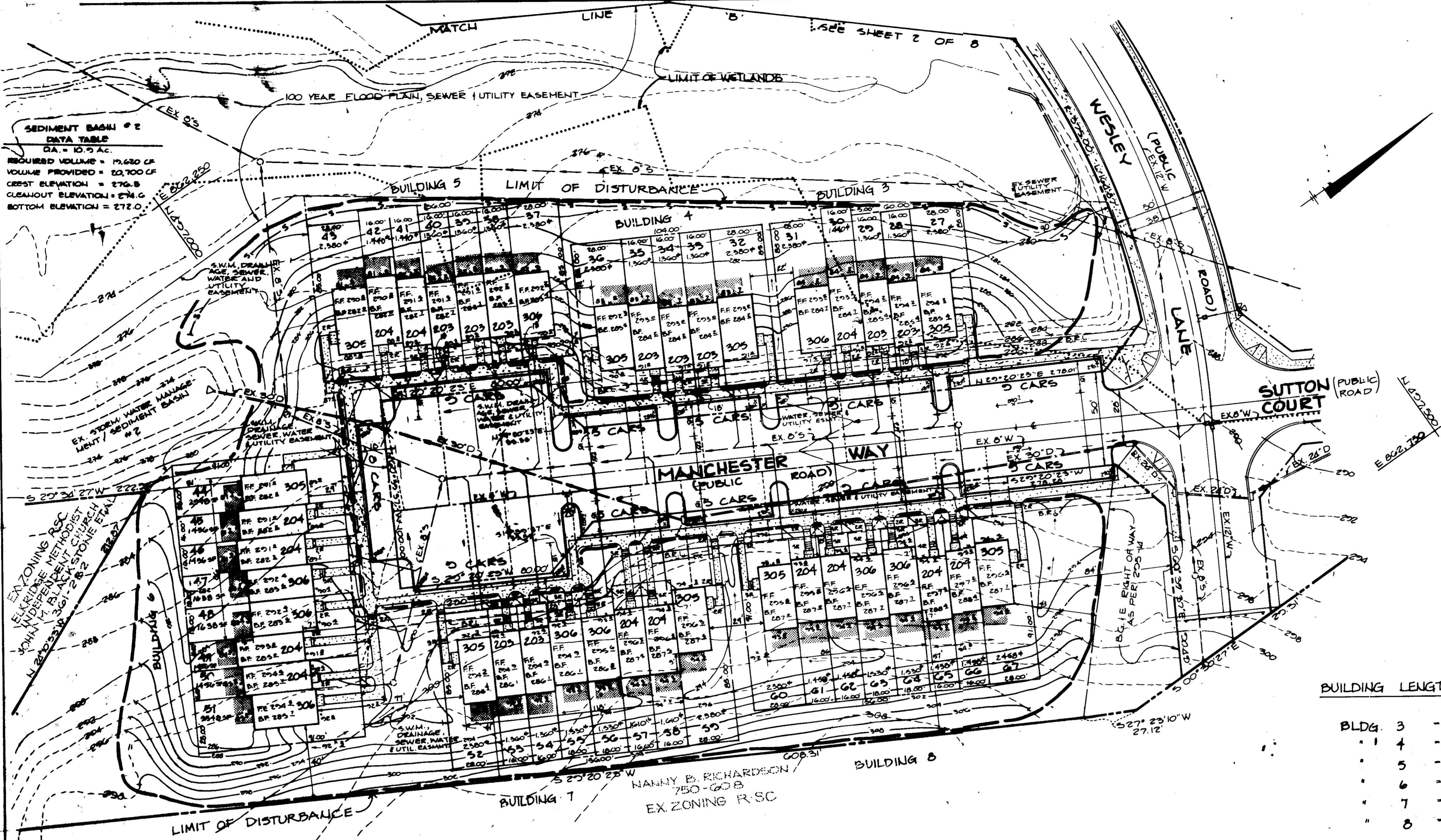
**THE RIEMER GROUP, INC.**  
The Riemer Group, Inc. A Land Planning, Design & Civil Engineering Firm  
3106 Health Park Drive, Ellicott City, Maryland 21043 (301) 481-2880

4-16-88  
DATE

DESIGNED BY: M.E.M.  
DRAWN BY: P.E.R.  
PROJECT NO: 029700  
DATE: 10-25-86  
SCALE: 1" = 30'  
DRAWING NO. 4 OF 5

APPROVED  
DATE 12-10-86





**SEDIMENT BASIN #2 DATA TABLE**  
 CA = 10.9 AC  
 REQUIRED VOLUME = 19,620 CF  
 VOLUME PROVIDED = 22,100 CF  
 CREST ELEVATION = 276.8  
 CLEANOUT ELEVATION = 274.6  
 BOTTOM ELEVATION = 272.0

**BUILDING LENGTH**

BLDG. 3	-	84'
" 4	-	84'
" 5	-	116'
" 6	-	136'
" 7	-	156'
" 8	-	156'

INVERT ELEVATIONS OF S.H.C. @ PROPERTY LINE FOR ATTACHED UNITS

LOT #	TYPE	INVERT	INVERT
43	SEWER	278.44	278.44
41 & 42	SEWER	278.44	278.44
44 & 45	SEWER	278.44	278.44
46 & 47	SEWER	278.44	278.44
48 & 49	SEWER	278.44	278.44
50 & 51	SEWER	278.44	278.44
52 & 53	SEWER	278.44	278.44
54	SEWER	278.44	278.44
55	SEWER	278.44	278.44
56	SEWER	278.44	278.44
57	SEWER	278.44	278.44
58	SEWER	278.44	278.44
59	SEWER	278.44	278.44
60	SEWER	278.44	278.44
61	SEWER	278.44	278.44
62	SEWER	278.44	278.44
63	SEWER	278.44	278.44
64	SEWER	278.44	278.44
65	SEWER	278.44	278.44
66	SEWER	278.44	278.44
67	SEWER	278.44	278.44
68	SEWER	278.44	278.44
69	SEWER	278.44	278.44
70	SEWER	278.44	278.44
71	SEWER	278.44	278.44
72	SEWER	278.44	278.44
73	SEWER	278.44	278.44
74	SEWER	278.44	278.44
75	SEWER	278.44	278.44
76	SEWER	278.44	278.44
77	SEWER	278.44	278.44
78	SEWER	278.44	278.44
79	SEWER	278.44	278.44
80	SEWER	278.44	278.44

BY THE DEVELOPER:  
 "I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, 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."  
*Richard W. Goodman* 4/9/88  
 DEVELOPER DATE

BY THE ENGINEER:  
 "I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT."  
*William E. Mueggler* 4/88  
 ENGINEER DATE

REVIEWED FOR: Howard S.C.D.  
 AND MEETS TECHNICAL REQUIREMENTS  
*John A. Hester* 6/17/88  
 U.S. SOIL CONSERVATION SERVICE DATE

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.  
*John A. Hester* 4/7/88  
 S.C.D. DATE

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.  
*John A. Hester* 7-1-88  
 COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING.  
*John A. Hester* 7/1/88  
 PLANNING DIRECTOR DATE  
*John A. Hester* 7/1/88  
 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  
*John A. Hester* 6/2/88  
 DATE

DATE NO. REVISION

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

PROJECT: **WILLOWOOD**  
 SECTION COWLETS 1-24, 67D & LOTS 27-33 67E  
 AREA TAX MAP NO. 37 PARCELS 79130301  
 1ST ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND

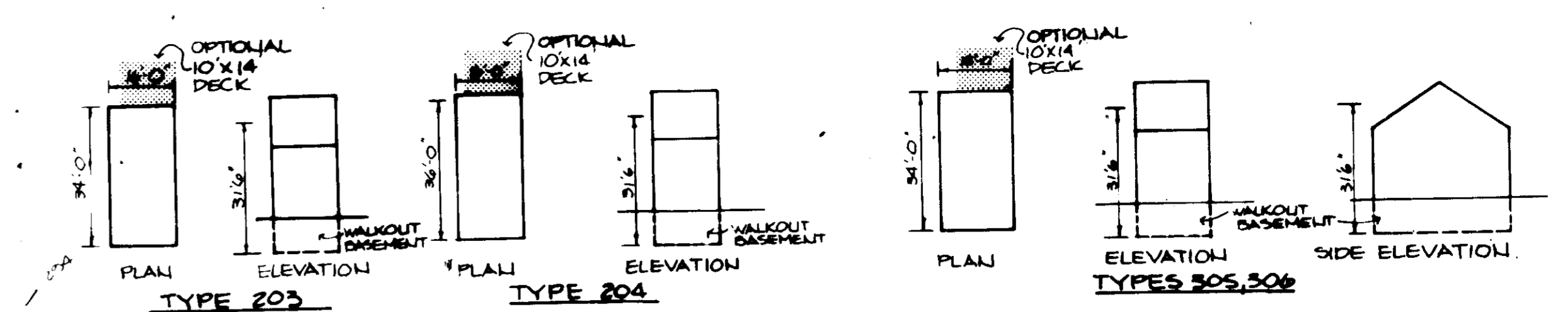
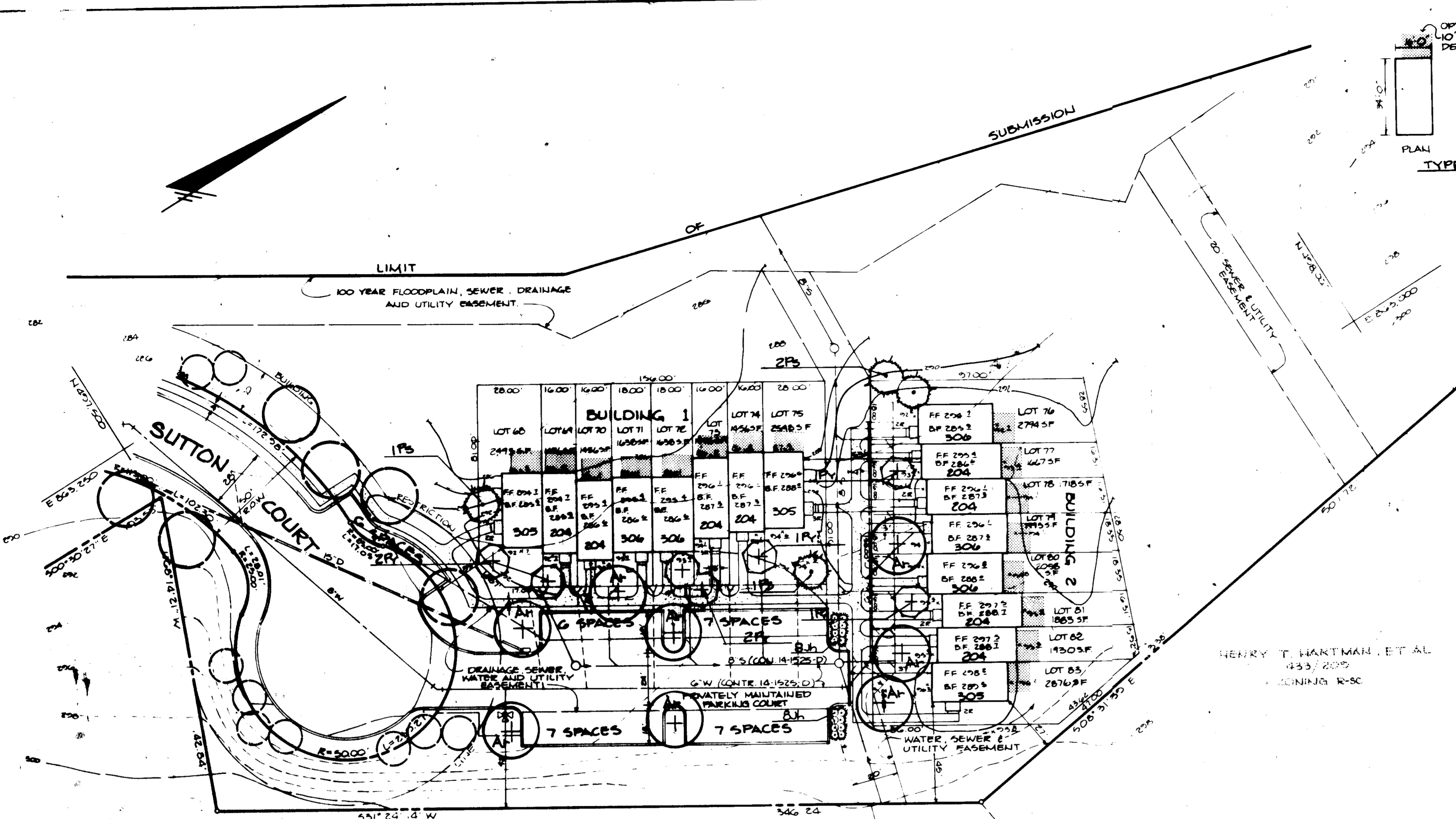
TITLE: **SITE DEVELOPMENT PLAN**  
 SINGLE FAMILY ATTACHED

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

**APPROVED**  
 PLANNING BOARD  
 OF HOWARD COUNTY  
 DATE: 12/10/86

DATE: 4-88  
 DESIGNED BY: R.L.H.  
 DRAWN BY: P.E.R.  
 PROJECT NO: 20700  
 DATE: 10-23-86  
 SCALE: 1"=30'  
 DRAWING NO. 3 OF 8

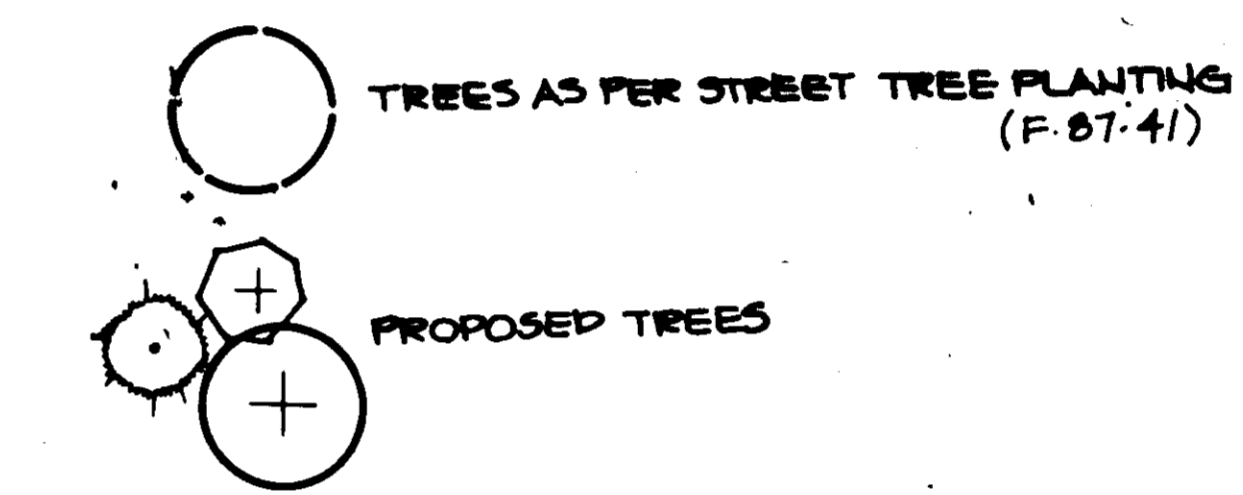
SDP-67-81



**BUILDING FOOTPRINTS AND ELEVATIONS**  
SCALE: 1" = 30'

QUANTITY	SYMBOL	NAME	SIZE	REMARKS
8	As	AGER RUBRUM Red Maple	24" x 24" C&G	3 & 4' F&H Head
8	Os	GORBUS FLORIDA White Dogwood	18" x 18" C&G, 6' H	3 & 4' F&H Head
0	F	FRAXINUS MARCEOLA MARSHALIA Ash	24" x 24" C&G	3 & 4' F&H Head
84	H	MAHURADIAE Redbud	4" x 4" C&G	3 & 4' F&H Head
4	Fs	FRAXINUS VIRGINICA European White Birch	24" x 24" C&G	3 & 4' F&H Head
8	Jh	JUNIPERUS HORIZONTALIS PLUMOSA ALPINE JUNIPER	6" x 6" C&G	3 & 4' F&H Head
56	Jh	JUNIPERUS HORIZONTALIS PLUMOSA ALPINE JUNIPER	18" x 24"	CONTAINER OR B&B

**KEY TO SYMBOLS**



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

*John M. ...* 7-1-88  
COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING.

*James ...* 7/6/88  
PLANNING DIRECTOR DATE

*James ...* 7/6/88  
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

*James ...* 6/22/88  
DIRECTOR DATE

*William ...* 6/27/88  
CHIEF, BUREAU OF ENGINEERING DATE

BY THE DEVELOPER:  
"I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, 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."  
*Richard W. Hartman* 4/6/88  
(DEVELOPER) DATE

BY THE ENGINEER:  
"I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND FEASIBLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD COUNTY SOIL CONSERVATION DISTRICT."  
*Arthur E. Kuegler* DATE

REVIEWED FOR HOWARD COUNTY S.C.D. AND MEETS TECHNICAL REQUIREMENTS  
*James ...* 6/17/88  
U.S. SOIL CONSERVATION SERVICE DATE

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.  
*Stephen ...* 6/17/88  
HOWARD COUNTY S.C.D. DATE

DATE NO. REVISION

OWNER/DEVELOPER  
CAPITAL HOMES, INC.  
8402 ASPENWOOD WAY  
JESSUP, MARYLAND 20794

PROJECT  
**WILLOWOOD**  
PARCELS 75, 150, 201

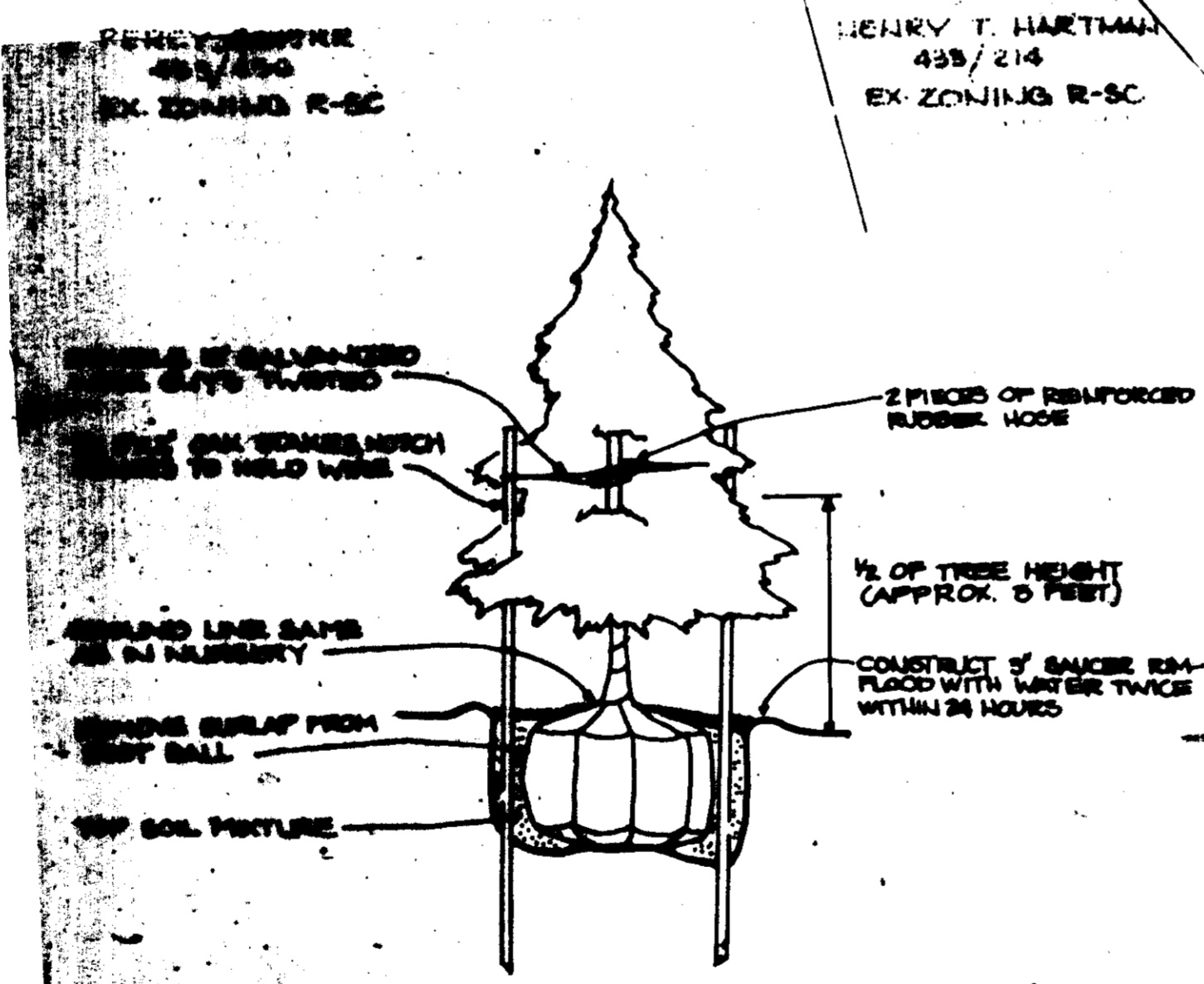
AREA TAX MAP 57 1ST ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND

TITLE  
**PLANTING PLAN**

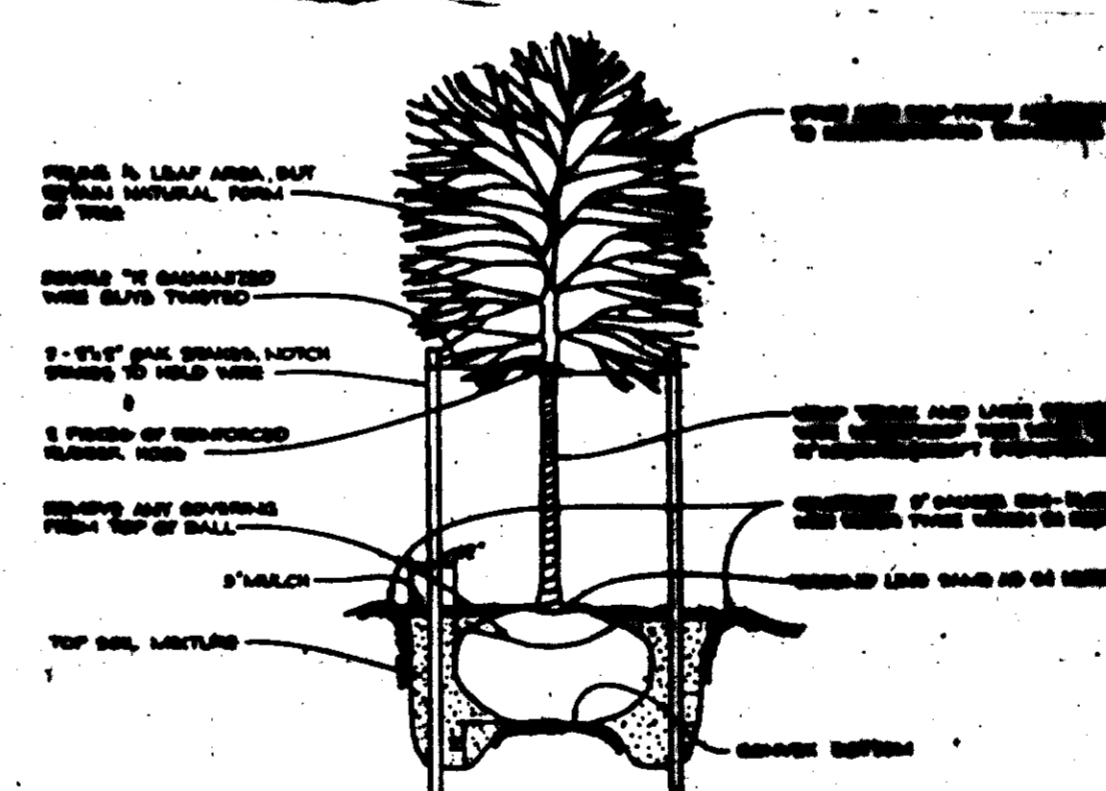
**THE RIEMER GROUP, INC.**  
The Riemer Group, Inc. A Land Planning, Design & Civil Engineering Firm  
2108 Health Park Drive, Ellicott City, Maryland 21043 (301) 441-2880

APPROVED  
DATE: 4-7-88

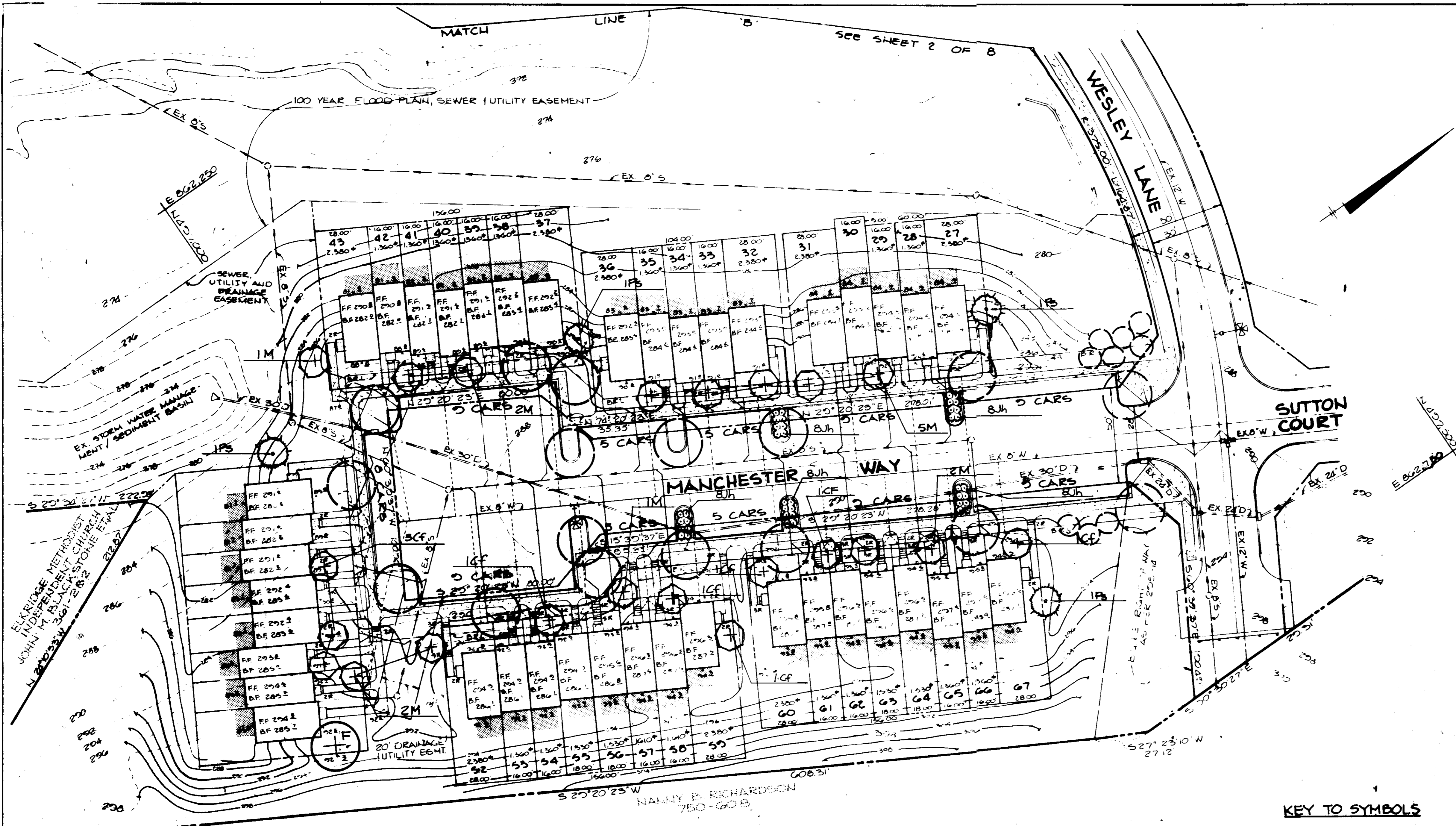
DESIGNED BY: E.L.H.  
DRAWN BY: E.L.H.  
PROJECT NO: 029700  
DATE: 10-23-86  
SCALE: 1" = 30'  
DRAWING NO. 6 OF 8  
*Melanie E. Moser*  
MELANIE E. MOSER



**EVERGREEN PLANTING DETAIL**  
NO SCALE



**TREE PLANTING DETAIL**  
NO SCALE



BY THE DEVELOPER:  
 "I WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, 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."  
*Richard W. Goodman* 4/6/88  
 DEVELOPER DATE

BY THE ENGINEER:  
 "I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT."  
 \_\_\_\_\_  
 ENGINEER DATE

REVIEWED FOR *Howard* S.C.D.  
 AND MEETS TECHNICAL REQUIREMENTS  
*[Signature]* 6/17/88  
 COUNTY HEALTH DEPARTMENT DATE

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.  
*[Signature]* 6/17/88  
 HOWARD S.C.D. DATE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.  
*[Signature]* 7-1-88  
 COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING.  
*[Signature]* 7/8/88  
 PLANNING DIRECTOR DATE  
*[Signature]* 7/8/88  
 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]* 6/28/88  
 DIRECTOR DATE  
*[Signature]* 4/27/88  
 CHIEF, BUREAU OF ENGINEERING DATE

DATE	NO	REVISION

OWNER/DEVELOPER  
 CAPITAL HOMES INC  
 5102 ASPENWOOD WAY  
 JESSUP, MARYLAND 20794

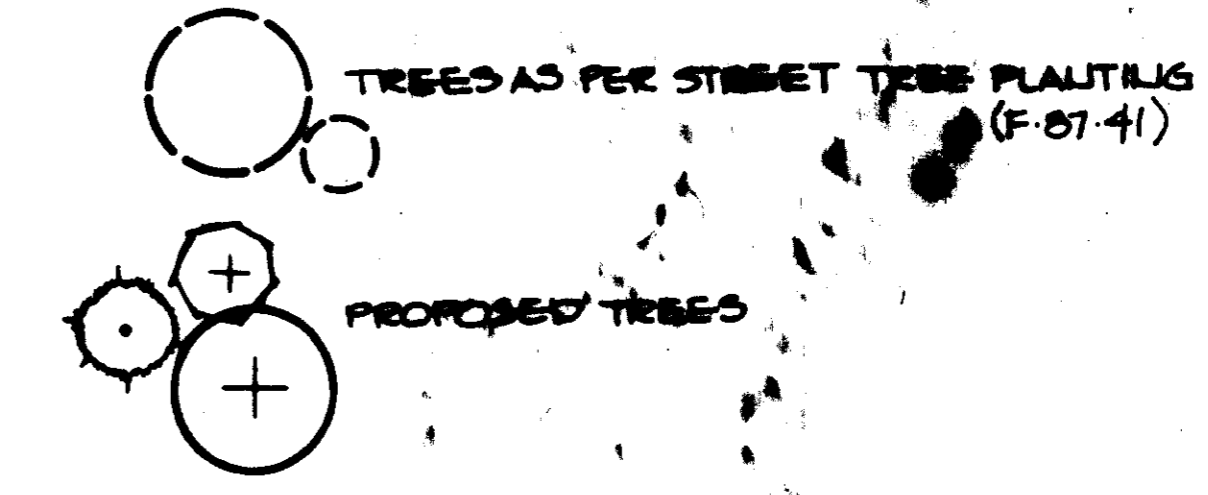
PROJECT: **WILLOWOOD**  
 AREA TAX MAP NO 87 PARCELS 79130301  
 1ST ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND

TITLE: **PLANTING PLAN**

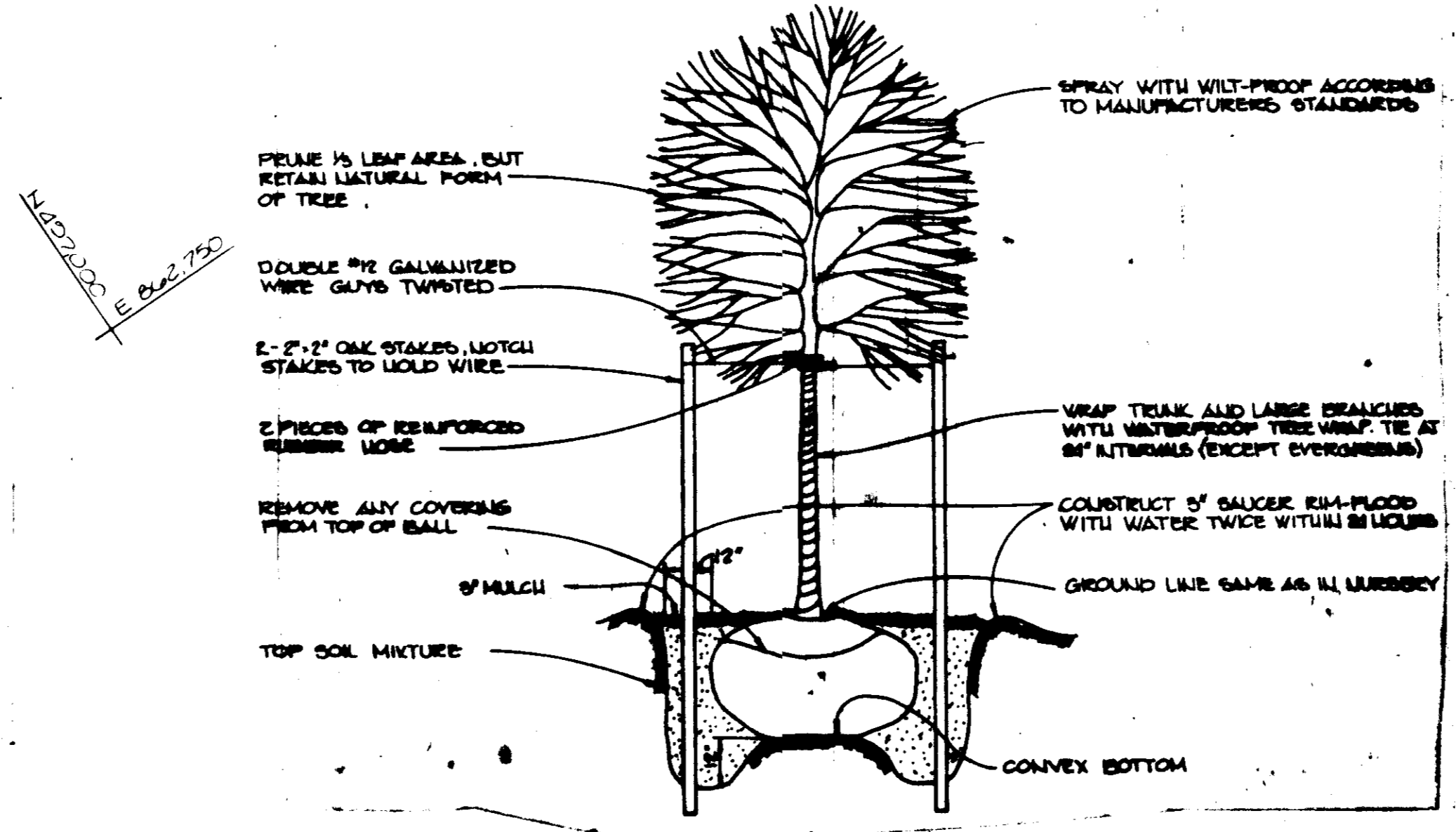
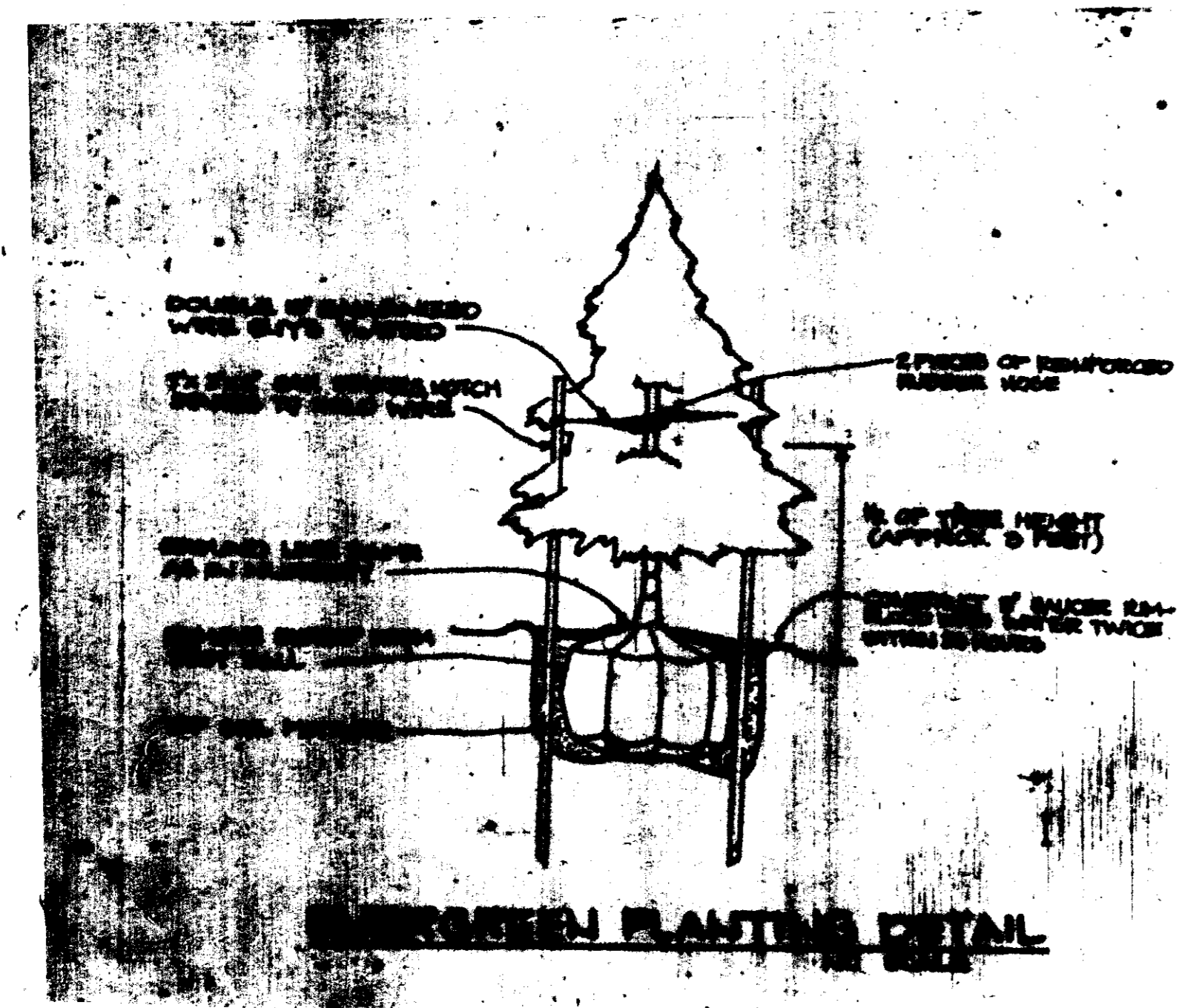
**THE RIEMER GROUP, INC.**  
 The Riemer Group, Inc. A Land Planning, Design & Civil Engineering Firm  
 3106 North Park Drive, Ellicott City, Maryland 21043 (301) 461-8990

DATE 7-7-88	DESIGNED BY R.L.H.
DATE OF MAILING 12-10-86	DRAWN BY R.L.H.
	PROJECT NO 29700
	DATE 10-23-86
	SCALE 1" = 30'
	DRAWING NO 7 OF 8

**KEY TO SYMBOLS**



SEE SHEET 6 FOR PLANT LIST



**APPROVE**  
 PLANNING BOARD  
 OF HOWARD COUNTY  
 DATE 12-10-86

**PERMANENT SEEDING NOTES**

**Seeded Preparation:** Loosen upper 3 inches of soil by raking, discing or other acceptable means before seeding.

**Soil Amendments:** Use one of the following schedules:

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

**Seeding:** For periods March 1 through April 30, and August 1 through October 15, seed with 60 lbs. per acre (1.4 lbs./1000 square ft.) of Kentucky 31 Tall Fescue. For the period May 1 through July 31, seed with 60 lbs. Kentucky 31 Tall Fescue per acre and 2 lbs. per acre (.05 lbs./1000 square ft.) of weeping lovegrass. During the period of October 15 through 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 sod. Option (3) Seed with 80 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 (30 to 90 lbs./1000 square ft.) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gallons per acre (5 gal./1000 square ft.) of unclassified asphalt on flat areas. On slopes 8 feet or higher, use 348 gallons per acre (8 gal./1000 square ft.) for anchoring.

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

**TEMPORARY SEEDING NOTES**

**Seeded Preparation:** Loosen upper 3 inches of soil by raking, discing or other acceptable means before seeding.

**Soil Amendments:** Apply 600 lbs. per acre 10-10-10 fertilizer (14 lbs./1000 square ft.)

**Seeding:** For periods March 1 through April 30 and from August 15 through November 15, seed with 25 lbs. per acre of annual ryegrass (1.2 lbs./1000 square ft.). For the period May 1 through August 14, seed with 3 lbs. per acre of weeping lovegrass (.07 lbs./1000 square ft.). For the period November 16 through 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 (30 to 90 lbs./1000 square 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 square ft.) of unclassified asphalt on flat areas. On slopes 8 ft. or higher, use 348 gal. per acre (8 gal./1000 square ft.) for anchoring.

**SEDIMENT CONTROL NOTES**

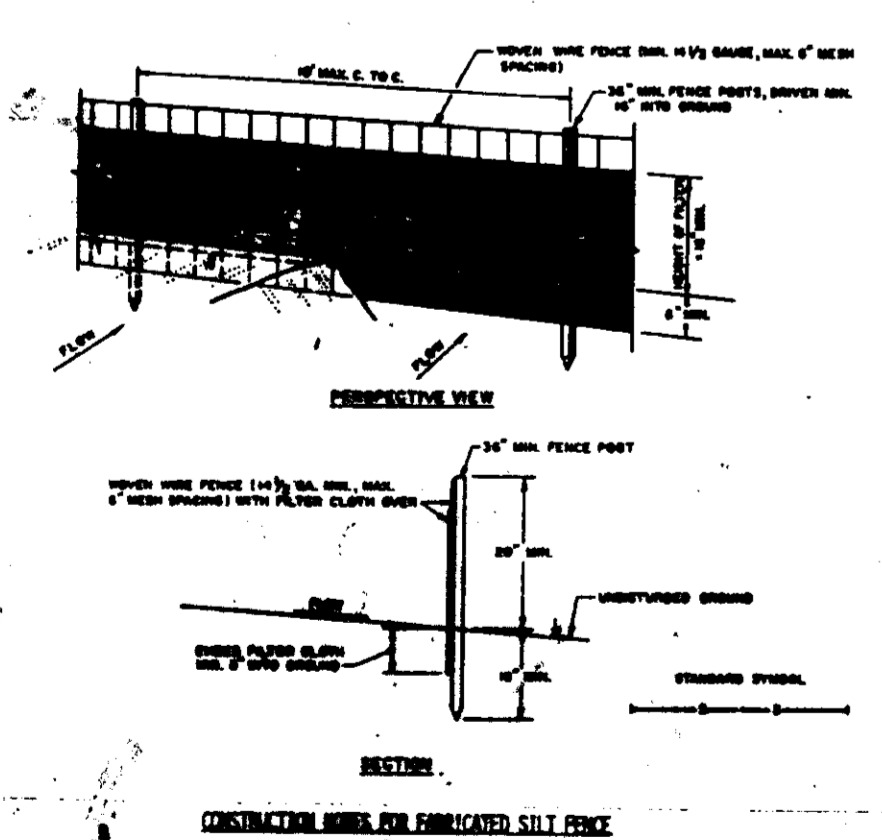
1. A minimum of 24 hours notice must be given to the Howard County Office of Inspections and Permits prior to the start of any construction (992-2437)
2. All vegetative and structural practices are to be installed according to the provisions of this plan and are to be in conformance with the 1983 MARYLAND 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. 31) and (Sec. 32), temporary seedings (Sec. 30) and mulching (Sec. 32). 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: 14.77 acres  
 Area Disturbed: 7.77 acres  
 Area to be roofed or paved: 7.77 acres  
 Area to be vegetatively stabilized: 5.75 acres  
 Total Cut: Co. yds.  
 Total Fill: Co. 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.

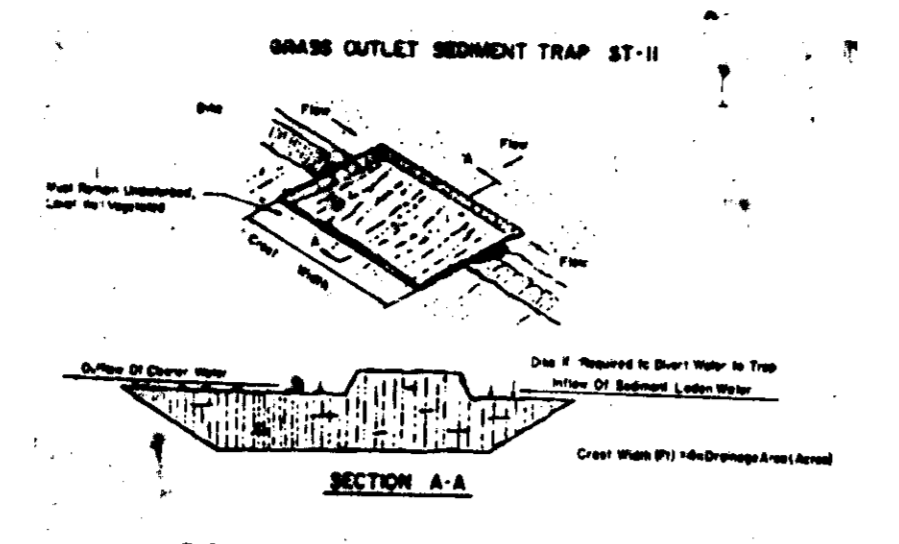
9. Additional sediment controls must be provided, if deemed necessary by the Howard County DPW sediment control inspector.

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.



**SILT FENCE**  
NO SCALE

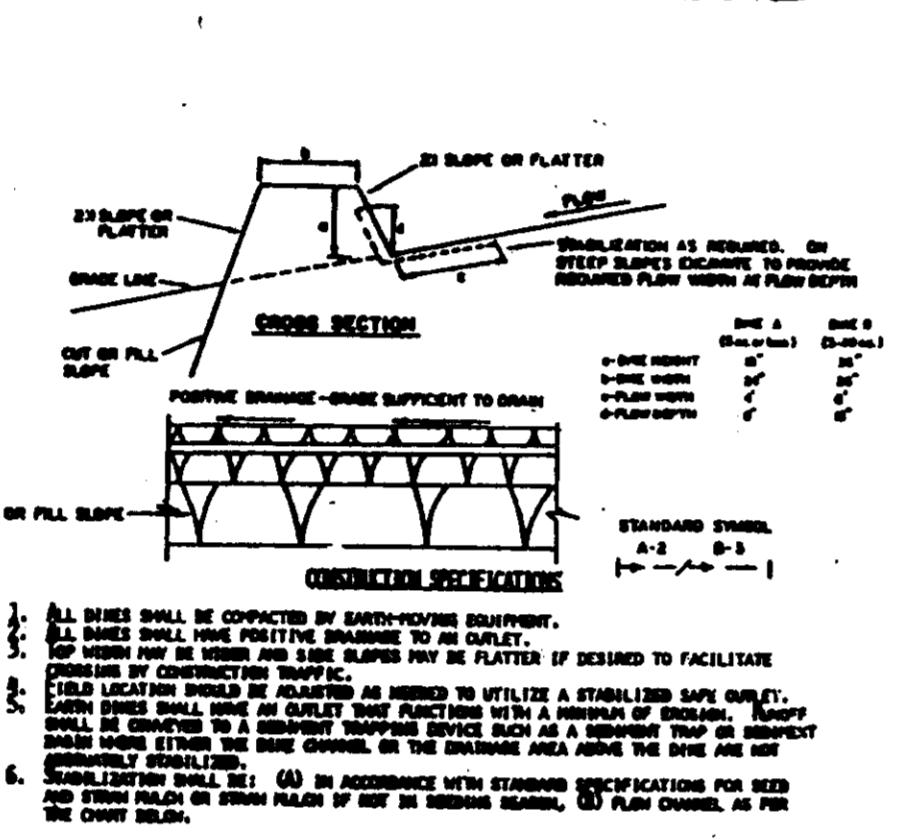


**CONSTRUCTION SPECIFICATION FOR ST-II**

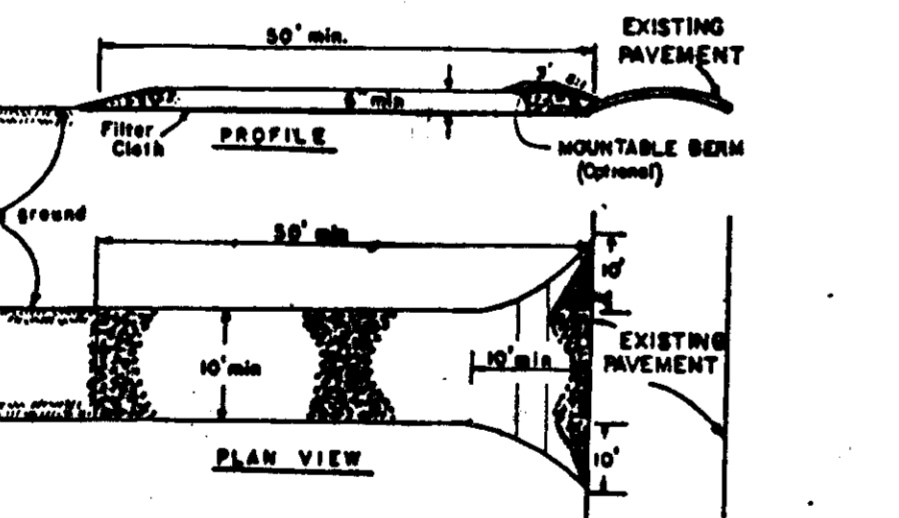
1. Volume of sediment storage shall be 1800 cubic feet per acre of contributory drainage area.
2. Maximum crest width shall be 4:1 Slope to Area.
3. Sediment shall be removed and trap restored to its original dimensions when the sediment has accumulated to the design depth of the trap. Removed sediment shall be deposited in a suitable area and in such a manner that it will not erode.
4. The structure shall be inspected after each rain and repairs made as needed.
5. Construction operations shall be carried out in such a manner that erosion and water pollution shall be minimized.
6. The sediment trap shall be removed and area stabilized when the remaining drainage area has been properly stabilized.
7. All cut slopes shall be 3:1 or flatter.

Medium Drainage Area: 5 Acres

**GRASS OUTLET SEDIMENT TRAP**



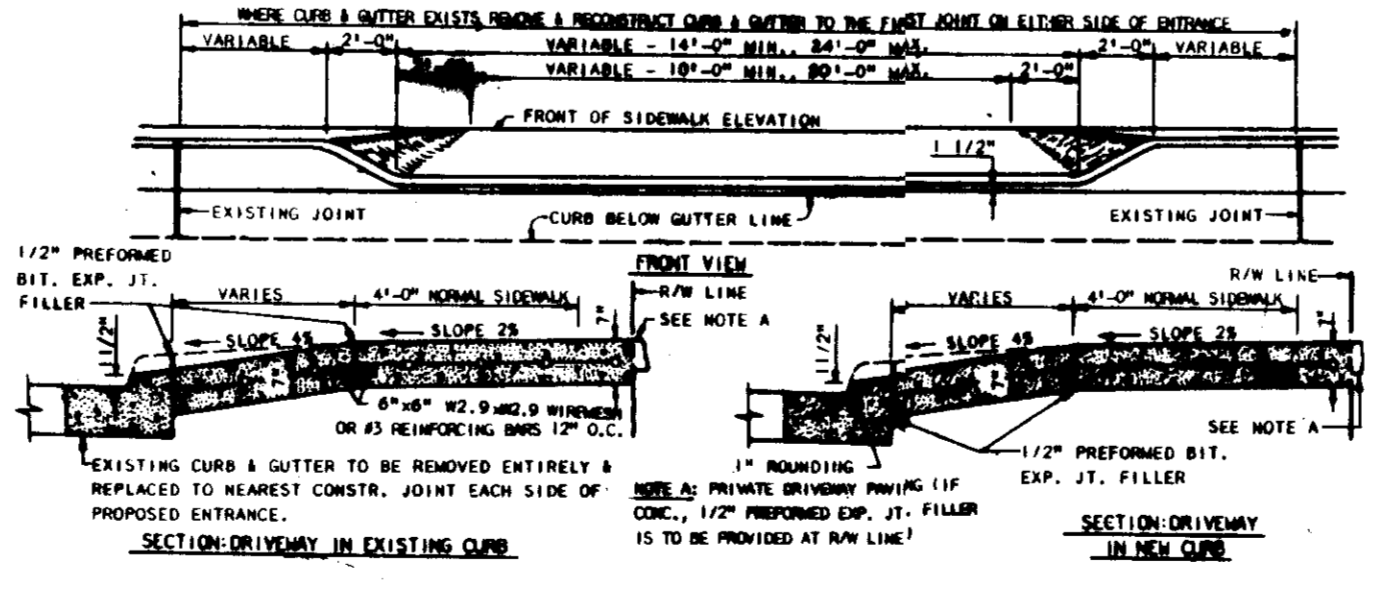
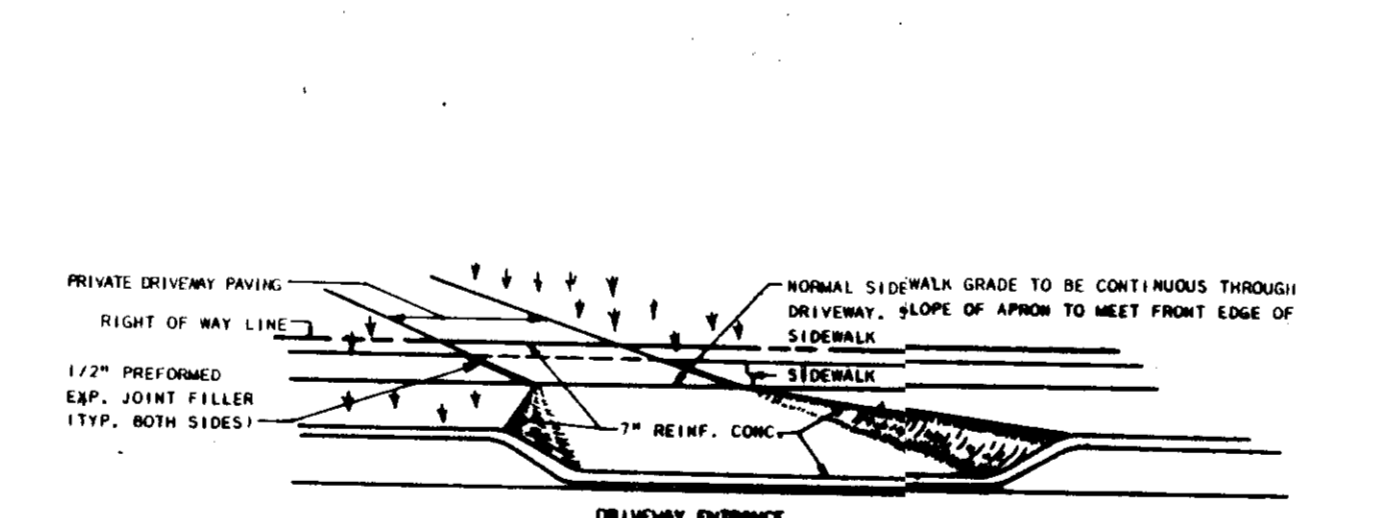
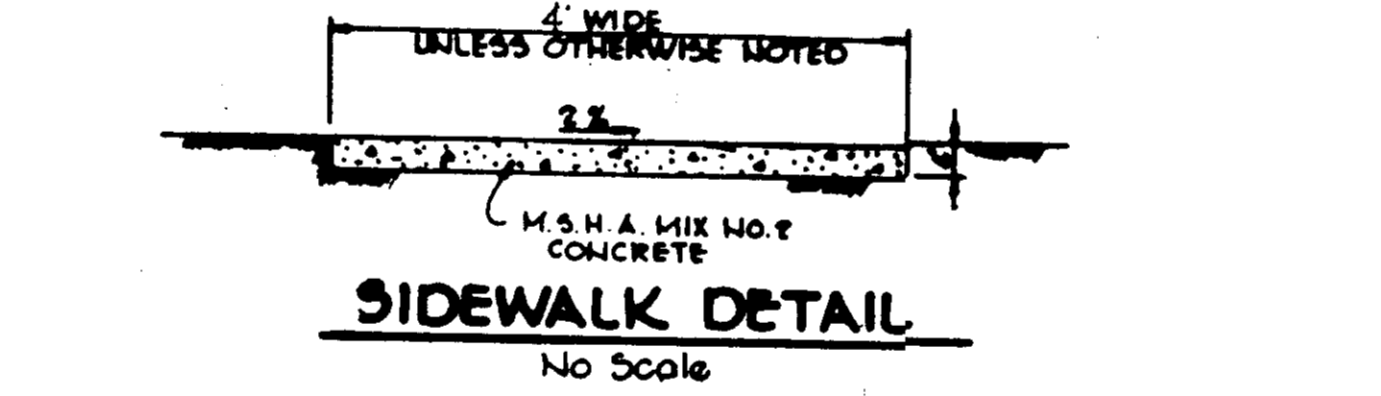
TYPE OF PAVEMENT	MIN. THICKNESS	MIN. A	MIN. B
1. Concrete	5-3.5" (2")	3'-0" (2')	3'-0" (2')
2. Asphalt	3.5-4.5" (2")	3'-0" (2')	3'-0" (2')
3. Asphalt	5.5-6.5" (2")	3'-0" (2')	3'-0" (2')
4. Asphalt	8.5-9.5" (2")	3'-0" (2')	3'-0" (2')



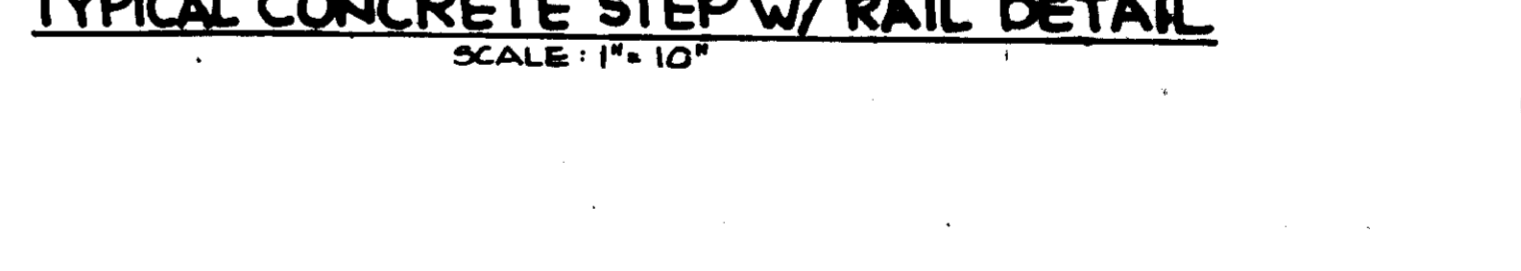
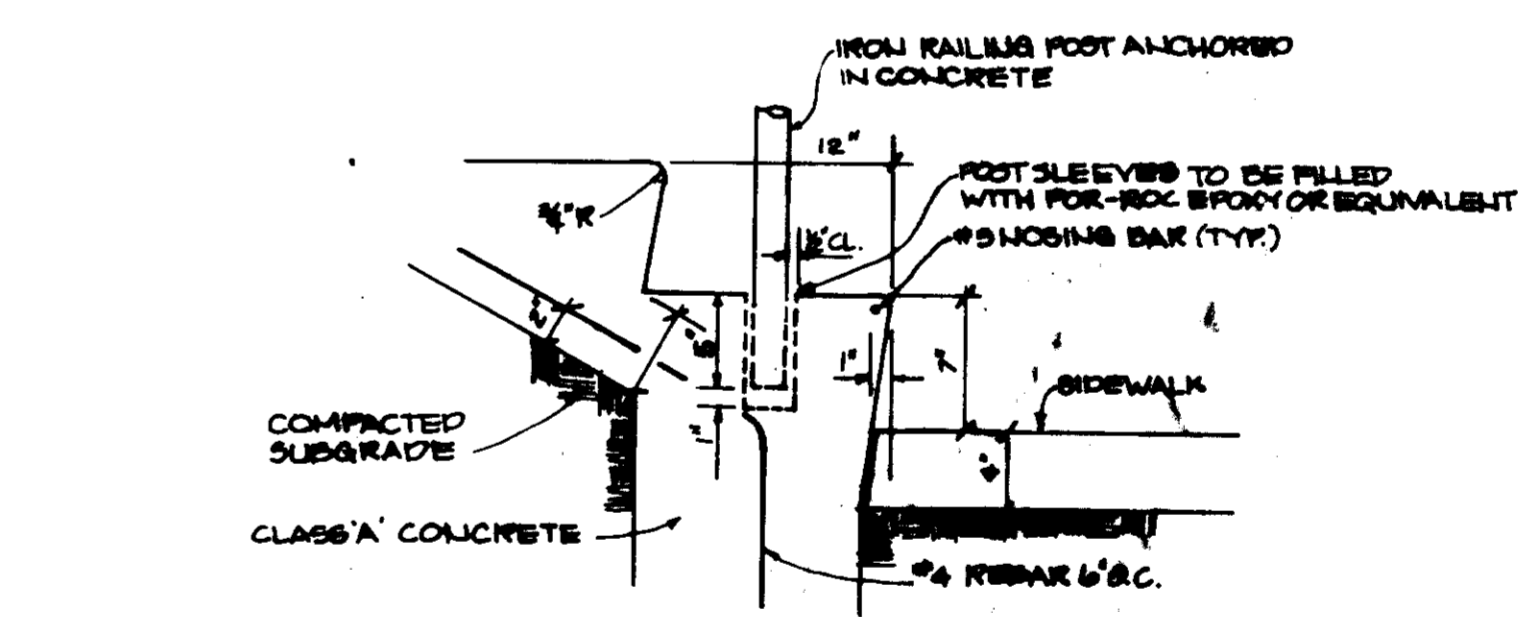
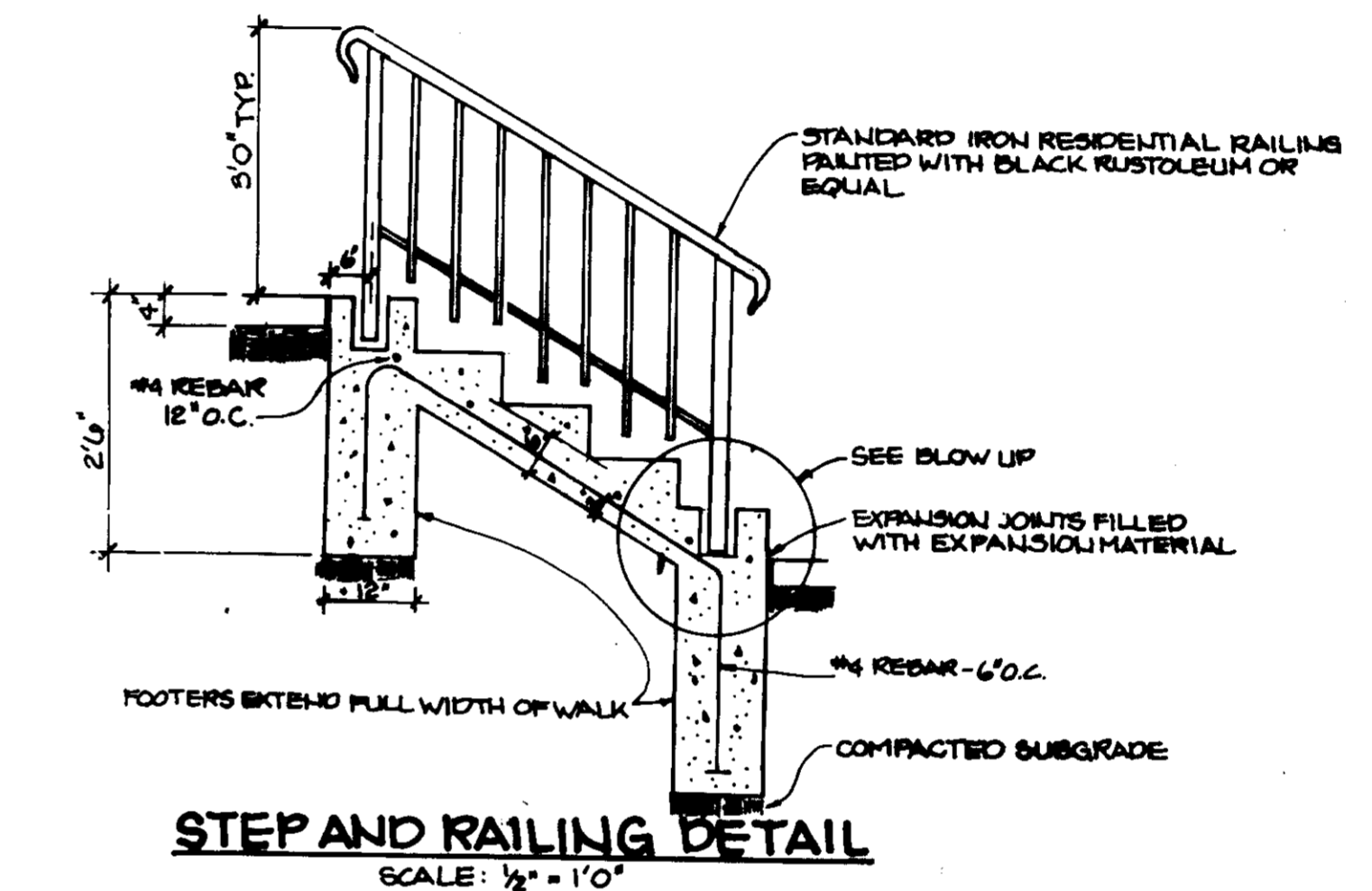
**CONSTRUCTION SPECIFICATION**

1. Stone Size - Use 2" stones, or crushed or recycled concrete equivalent.
2. Length - As required, but not less than 50 feet (except on a sloping embankment where a 25 foot minimum length would apply).
3. Thickness - Not less than 18" (6") thick.
4. Width - 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 plastic family residence lot.
6. Surface Finish - All surfaces must be finished or directed toward construction entrance shall be placed across the entrance. If placing in landscaping a portable berm with 8:1 slopes will be permitted.
7. Maintenance - The entrance shall be maintained in a condition which will prevent tracking or flowing of sediment onto public rights-of-way. This may require periodic top dressing with additional stone as conditions demand and repair and/or placement of any material used to trap and collect. All sediment spilled, 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 stabilized with stone and which drains into an approved sediment trapping device.
9. Periodic inspection and needed maintenance shall be provided after each rain.

**STABILIZED CONSTRUCTION ENTRANCE**  
NO SCALE



**DRIVEWAY ENTRANCE DETAIL**  
NO SCALE



**SEQUENCE OF CONSTRUCTION**

1. OBTAIN A GRADING PERMIT.
2. INSPECT THE EXISTING SEDIMENT BASIN. CLEAN OUT THE BASIN IF DEEMED NECESSARY PRIOR TO ANY DISTURBANCE FOR THE SITE DEVELOPMENT PLAN.
3. PERFORM MAINTENANCE ON EXISTING SEDIMENT CONTROLS TO BE UTILIZED UNDER THIS PLAN (2 DAYS).
4. CLEAR AND GRUB FOR INSTALLATION OF ADDITIONAL SEDIMENT CONTROLS (1 DAY).
5. INSTALL REMAINING SEDIMENT CONTROLS AS SHOWN ON PLANS. INSTALL STABILIZED CONSTRUCTION ENTRANCES AT THE DIRECTION OF THE SEDIMENT CONTROL INSPECTOR IF TRACKING OF MUD ONTO HEADROWIDGE ROAD BECOMES CHRONIC (2 DAYS).
6. CLEAR AND GRUB REMAINDER OF SITE AND PERFORM GRADING AND OTHER CONSTRUCTION ACTIVITIES (12 WEEKS).
7. REMOVE DEPOSITED SEDIMENT FROM ROADWAYS AND STORM DRAINS (2 DAYS).
8. UPON PERMISSION OF THE SEDIMENT CONTROL INSPECTOR, REMOVE SEDIMENT CONTROLS AND CONVERT SEDIMENT BASINS TO STORM WATER MANAGEMENT IN ACCORDANCE WITH F-87-41 (2 DAYS).
9. STABILIZE ALL AREAS DISTURBED IN SEDIMENT CONTROL REMOVAL IN ACCORDANCE WITH THE PERMANENT SEEDING NOTES.

**STABILIZED CONSTRUCTION ENTRANCE**  
NO SCALE

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

*Joyce M. Anderson, Jr.*  
COUNTY HEALTH OFFICER

7-1-88  
DATE

APPROVED  
PLANNING BOARD  
OF HOWARD COUNTY

12-10-86  
DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING.

*James R. Smith*  
PLANNING DIRECTOR

7/8/88  
DATE

*James R. Smith*  
PLANNING DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT

7/8/88  
DATE

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

HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

*James R. Smith*  
DIRECTOR

7/8/88  
DATE

*James R. Smith*  
CHIEF, BUREAU OF ENGINEERING

6/21/88  
DATE

BY THE DEVELOPER:

"I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, 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."

*Richard W. Lockman*  
DEVELOPER

4/9/88  
DATE

BY THE ENGINEER:

"I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD COUNTY SOIL CONSERVATION DISTRICT."

*Michael E. Mueggel*  
ENGINEER

4-6-88  
DATE

REVIEWED FOR *Howard* NAME S.C.D.

AND MEETS TECHNICAL REQUIREMENTS

*James R. Smith*  
USE: SOIL CONSERVATION SERVICE

6/17/88  
DATE

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

*Stephen L. Huber*  
HOWARD S.C.D.

4/12/88  
DATE

DATE	NO.	REVISION

OWNER/DEVELOPER

CAPITAL HOMES, INC.  
8102 ASPENWOOD WAY  
JESSUP, MARYLAND 20794

PROJECT

**WILLOWOOD**  
SECTION 1 LOTS 1-26, 27 & LOTS 27-28, 29A

AREA TAX MAP NO. 57 PARCELS 77, 130, 501  
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 Health Park Drive, Ellicott City, Maryland 21043 (301) 461-2680

4-6-88  
DATE

DESIGNED BY: J.K.B.  
DRAWN BY: R.L.H.  
PROJECT NO: 29700  
DATE: 10-25-86  
SCALE: AS SHOWN  
DRAWING NO. 8 OF 8