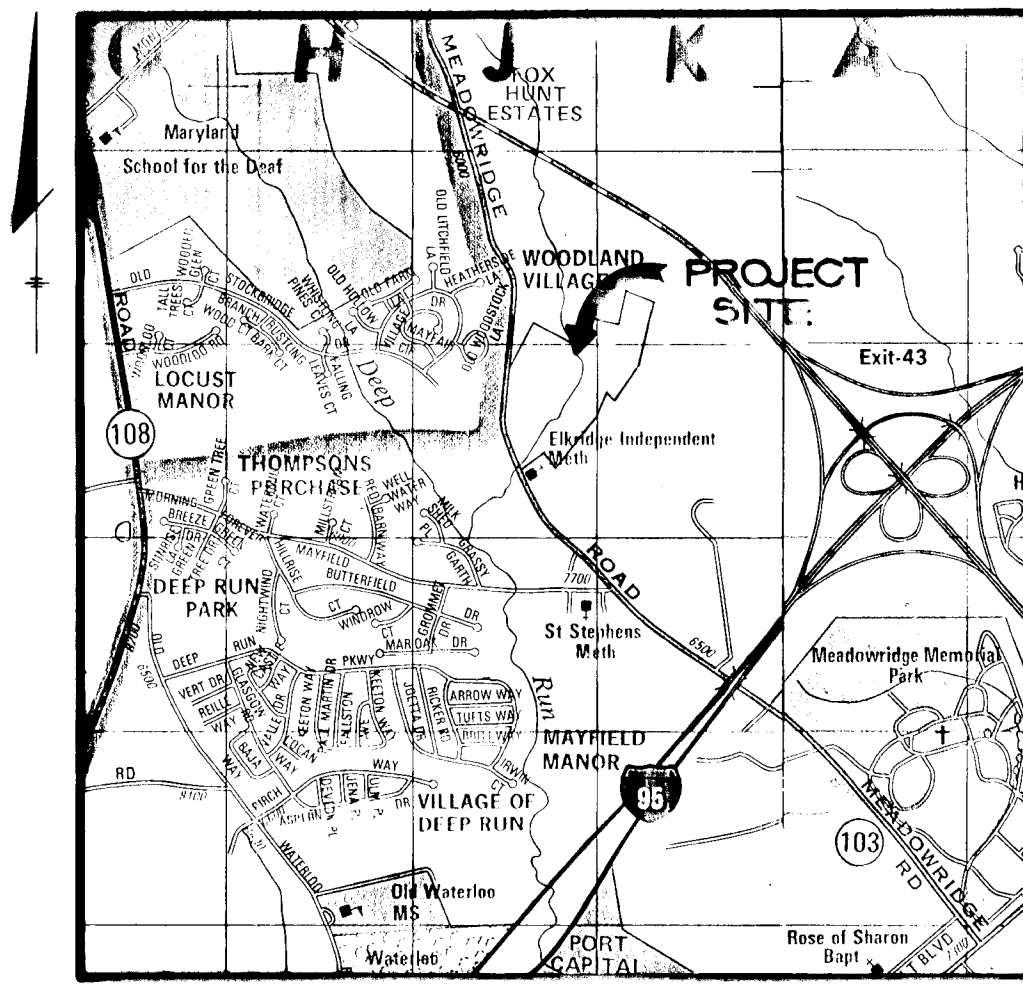


INDEX OF SHEETS	
SHEET No.	DESCRIPTION
1.	TITLE SHEET
2.	PLAN & PROFILE MANCHESTER WAY AND SUTTON COURT
3.	DRAINAGE AREA MAP AND GRADING PLAN
4.	STORM DRAIN PROFILES AND DETAILS

ROADWAYS AND STORM DRAINS WILLOWOOD SECTION ONE AREA ONE 1ST ELECTION DISTRICT HOWARD COUNTY, MARYLAND



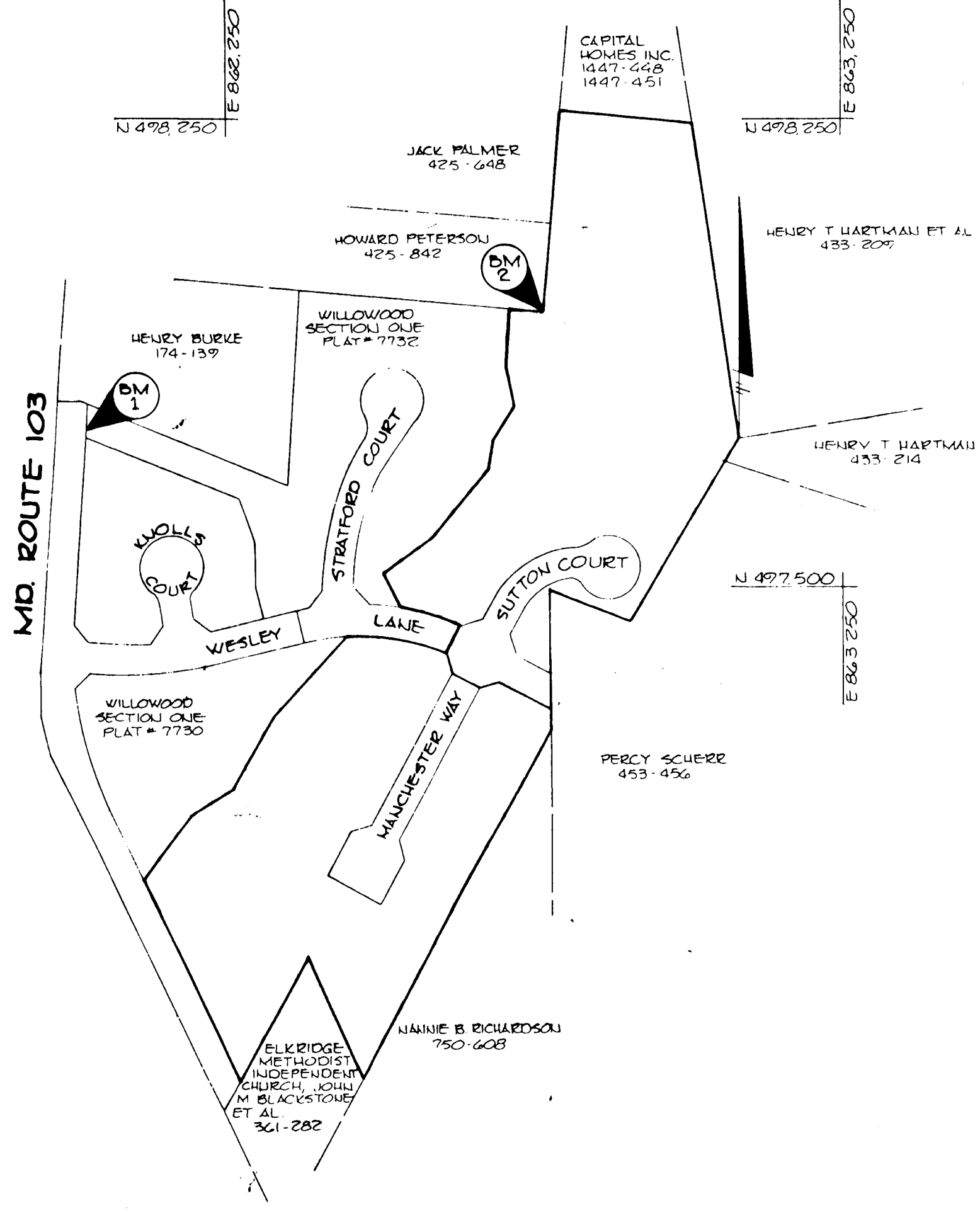
VICINITY MAP
SCALE: 1" = 2000'

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.
- CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITIES AT LEAST FIVE (5) DAYS BEFORE STARTING WORK ON THESE DRAWINGS:

MISS UTILITY	1-800-257-7777
BELL TELEPHONE SYSTEM	393-3669
LONG DISTANCE CABLE DIVISION	393-3553 or 3554
BALTIMORE GAS AND ELECTRIC CO.	539-8000, ext. 691
HOWARD COUNTY BUREAU OF UTILITIES	992-2366
HOWARD COUNTY CONSTRUCTION	792-7272
INSPECTION SURVEY DIVISION (24 HOURS NOTICE PRIOR TO COMMENCEMENT OF WORK)	
COLUMBIAN PIPELINE	795-1390
- ALL INLETS SHALL BE CONSTRUCTED IN ACCORDANCE WITH HOWARD COUNTY STANDARDS.
- ALL STREET CURB RETURNS SHALL HAVE 35.0' RADII UNLESS OTHERWISE NOTED.
- STORM DRAIN TRENCHES WITHIN ROAD RIGHT-OF-WAY SHALL BE BACKFILLED AND COMPACTED IN ACCORDANCE WITH HOWARD COUNTY DESIGN MANUAL, VOLUME IV, I.E., STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION.
- INSTALLATION OF TRAFFIC CONTROL DEVICES, MARKING, AND SIGNING SHALL BE IN ACCORDANCE WITH THE MUTCD, 1984 REVISED EDITION.
- PIPE SHALL NOT BE INSTALLED BY THE CONTRACTOR UNTIL THE LENGTH CALLED FOR AT EACH STATION HAS BEEN APPROVED BY THE ENGINEER IN THE FIELD.
- DESIGNED TRAFFIC SPEED IN ACCORDANCE WITH THE AMERICAN ASSOCIATION OF STATE HIGHWAY OFFICIAL STANDARDS:

ALL 50' RIGHT-OF-WAYS	30 & 25 M.P.H.
-----------------------	----------------
- ALL ELEVATIONS SHOWN ARE BASED ON U.S.C. AND G.S. MEAN SEA LEVEL DATUM, 1929.
- ALL FILL AREAS WITHIN ROADWAY AND UNDER STRUCTURES TO BE COMPACTED TO A MINIMUM OF 95% COMPACTION.
- ALL PIPE ELEVATIONS SHOWN ARE INVERT ϕ ELEVATIONS.
- PROFILE STATIONS SHALL BE ADJUSTED AS NECESSARY TO CONFORM TO PLAN DIMENSIONS.
- SUBJECT PROPERTY ZONED PER 8-2-85 COMPREHENSIVE ZONING PLAN.
- TOPO TAKEN FROM FIELD RUN SURVEY, DATED JULY 1986
- NO PIPE SHALL BE LAID UNTIL LINES OF EXCAVATION HAVE BEEN BROUGHT WITHIN 6" OF FINISHED GRADE.
- ALL STORM DRAIN PIPE BEYOND SHALL BE CLASS 'C' AS SHOWN IN FIG. 11.4, VOLUME 1 OF HOWARD COUNTY DESIGN MANUAL, UNLESS OTHERWISE NOTED.
- SEE OFFICE OF PLANNING AND ZONING FILE Nos. **P-86-50** **6-87-24**
VP-87-02 **WP-87-84**
F-87-41 **WP-87-57**
SDP-87-81
- VP-87-57 A VARIANCE REQUIRING SUBMISSION OF SKETCH AND PRELIMINARY PLANS FOR A PORTION OF THE PROJECT AREA THAT WAS PREVIOUSLY APPROVED ON SKETCH PLAN 6-86-28.
- REFER TO P-87-41 FOR STREET TREES AND PLANTING DETAILS, STORM WATER MANAGEMENT AND SEDIMENT CONTROL, PLAN AND PROFILE OF WESLEY LAKE AND STREET LIGHTS.
- VP-87-02 IS A VARIANCE OF SECTION 16.127-B OF THE HOWARD COUNTY SUBDIVISION REGULATIONS TO PROVIDE A SIDEWALK TO ONLY ONE SIDE OF SUTTON COURT.



PLAN
SCALE: 1" = 200'

BENCHMARKS
 BM #1 ELEV. 313.42
 RAILROAD SPIKE IN G#1 POLE # 149252
 EAST SIDE OF PAVING ON MEADOWBRIDGE ROAD
 2,600' ± NORTH OF MAYFIELD AVENUE.
 BM #2 ELEV. 287.02
 N 497 542.23 E 622 770.90
 IRON PIV AT PROPERTY CORNER
 600' ± EAST OF MEADOWBRIDGE ROAD
 2,950' ± NORTH OF MAYFIELD AVENUE.

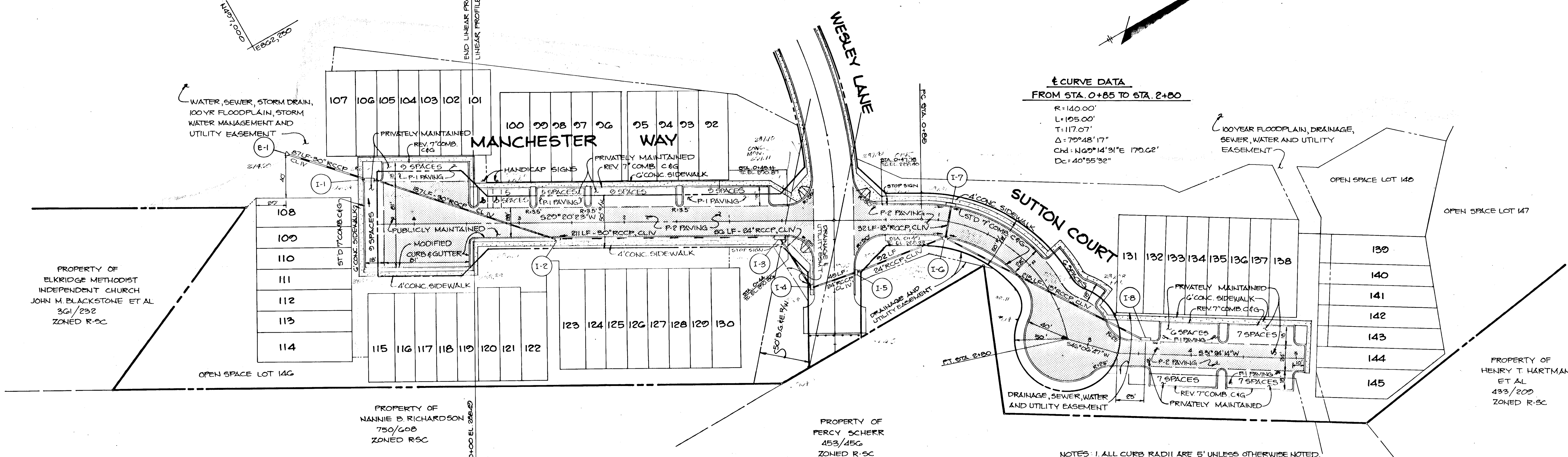
AS-BUILT NOV. 1991 (UPDATED 11/12)
 GUTSCHICK LITTLE & WEBER IS RESPONSIBLE FOR AS-BUILT INFORMATION ONLY

SEDIMENT CONTROL TO BE EXECUTED IN ACCORDANCE WITH F-87-41

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."	
<i>Michael J. Mangin</i> DEVELOPER	3-22-89 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."	
<i>Arthur E. Muegge</i> ENGINEER	3-22-89 DATE
REVIEWED FOR <u>Howard</u> S.C.D.	
AND MEETS TECHNICAL REQUIREMENTS	
<i>James M. Helms</i> U.S. SOIL CONSERVATION SERVICE	4/3/89 DATE
THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.	
<i>Stephen L. Fisher</i> HOWARD S.C.D.	3/31/89 DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING	
<i>Michael J. Mangin</i> CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT	7/2/89 DATE
APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS	
<i>Robert J. ...</i> Chief, Land Development Division	Date
<i>James W. ...</i> Chief, Bureau of Highways	4/12/89 DATE
<i>Robert ...</i> Chief, Bureau of Engineering	4-12-89 DATE

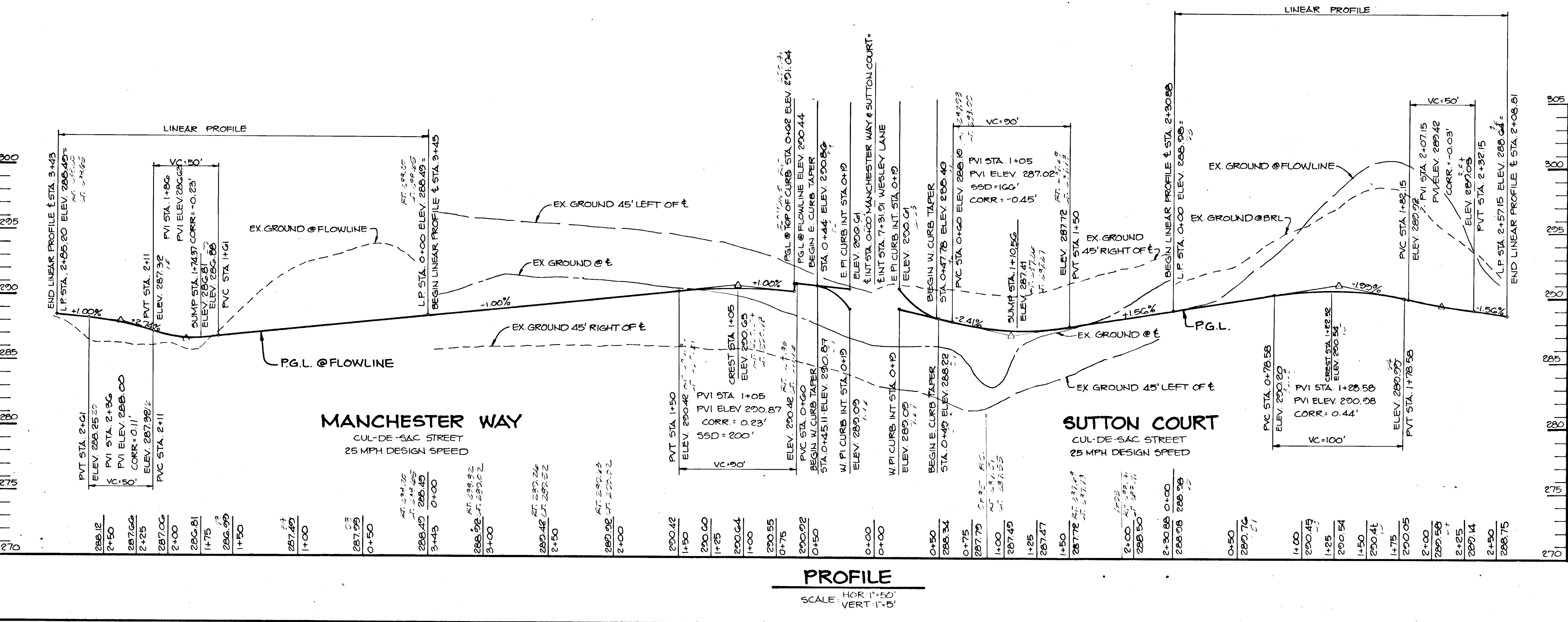
DATE	NO	REVISION
OWNER/DEVELOPER		
CAPITAL HOMES, INC. 8102 ASPENWOOD WAY JESSUP, MARYLAND 20794		
PROJECT		
WILLOWOOD SECTION ONE, AREA ONE (LOTS 92-145)		
AREA TAX MAP 37 ZONE R-66 PARCEL 79, 150, 301		
1ST ELECTION DISTRICT HOWARD COUNTY, MARYLAND		
TITLE		
TITLE SHEET		
THE RIEMER GROUP, INC.		
The Riemer Group, Inc. A Land Planning, Design & Civil Engineering Firm 3105 North Ridge Road, Ellicott City, Maryland 21043 (301) 461-2690		
DATE	DESIGNED BY DAM	
	DRAWN BY RAW	
	PROJECT NO 29710	
	DATE NOVEMBER 20, 1988	
	SCALE AS SHOWN	
	DRAWING NO 1 OF 4	



CURVE DATA
FROM STA. 0+85 TO STA. 2+50

R=140.00'
L=195.00'
T=117.07'
Δ=75°48'17"
Chd: N60°14'31"E 170.62'
Dc: 40°55'32"

PLAN
SCALE: 1"=50'



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

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING

Rash J. Mangan 7/27/09
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

Paul J. Sisson 8/18/09
Chief, Land Development Division

Francis W. McLeod 4/1/11
Chief, Bureau of Highways

John E. R. R. R. 4-19-09
Chief, Bureau of Engineering

DATE NO REVISION

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

PROJECT: **WILLOWOOD**
SECTION ONE, AREA ONE (LOTS 92-146)

AREA TAX MAP 27 ZONE R-5C PARCEL 79, 130, 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 North Ridge Road, Ellicott City, Maryland 21043 (301) 461-2690

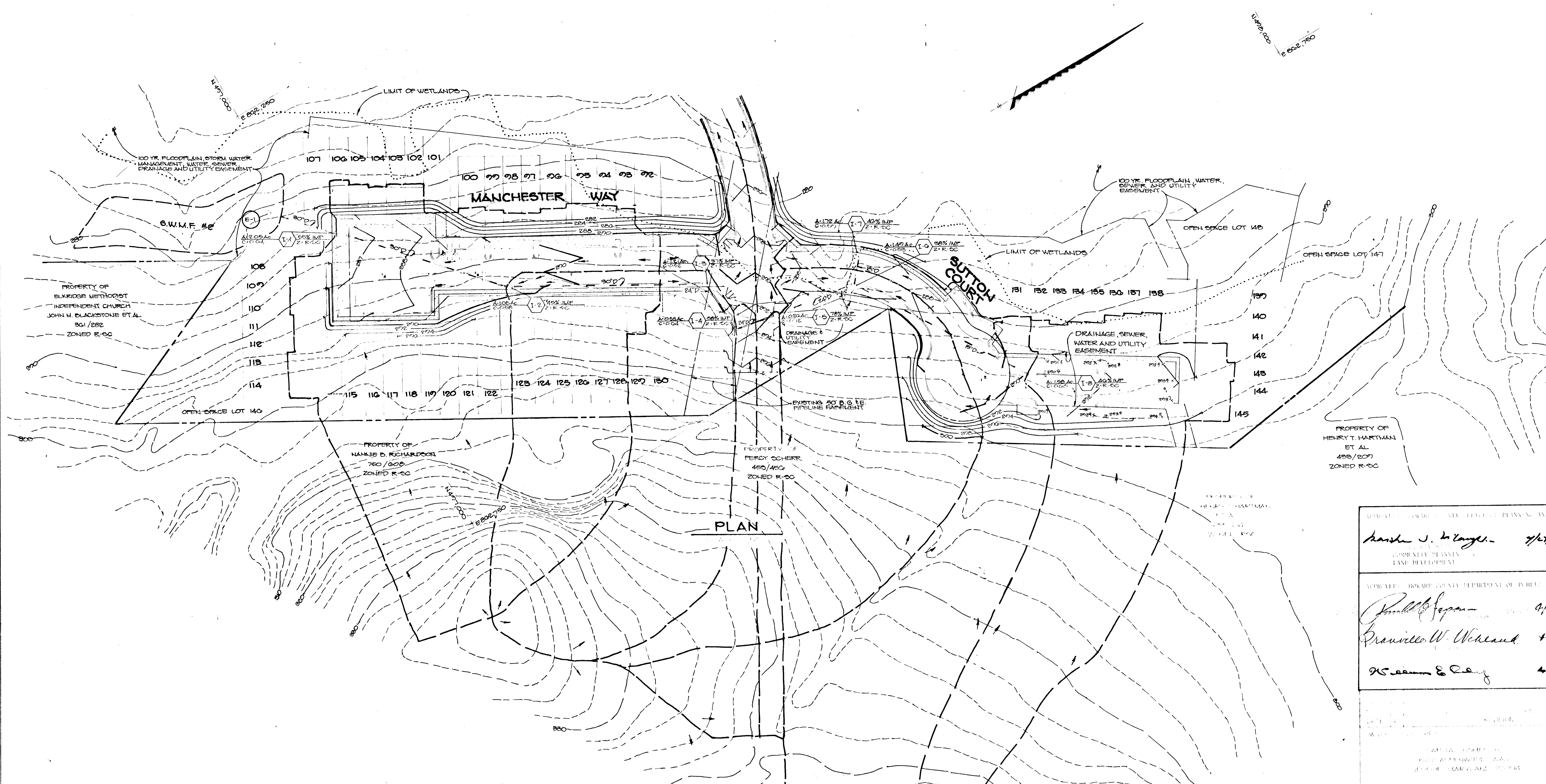
DATE: _____

DESIGNED BY: DAKI
DRAWN BY: DAKI
PROJECT NO: 25710
DATE: NOVEMBER 30, 1988
SCALE: AS SHOWN
DRAWING NO. 2 OF 4

ARTHUR E. MUEGGE 78107

AS-BUILT NOV. 1991 (UNAVAILABLE)

CONTRIBUTOR LINES & WEATHER TO BE FORGOTTEN FOR AS-BUILT INFORMATION ONLY



PLAN

STRUCTURE SCHEDULE

No.	Type	Location	Top Elev.	Inv. In.	Inv. Out
I-8	Ho. Co. Std. A-10 Inlet SD-4.02	See Plan SH.2	290.87	—	285.56
I-7	Ho. Co. Std. A-10 Inlet SD-4.01	C/L Sta. 1+10.56 14' LT Sutton Court	287.41	—	282.51
I-6	Ho. Co. Std. A-5 Inlet SD-4.01	C/L Sta. 1+10.56 14' RT Sutton Court	287.41	282.56 282.33	281.83
I-5	Ho. Co. Std. A-5 Inlet w/Def SD-4.01	C/L Sta. 7+81.41 19' LT Wesley Lane	292.85	281.26	280.95
I-4	Ho. Co. Std. A-5 Inlet w/Def SD-4.01	C/L Sta. 7+76.41 19' RT Wesley Lane	292.51	280.61	280.36
I-3	Ho. Co. Std. A-10 Inlet SD-4.02	C/L Sta. 0+52 14' LT Manchester Way	290.94	279.98	279.47
I-2	Ho. Co. Std. A-5 Inlet SD-4.01	C/L Sta. 2+63 14' LT Manchester Way	289.89	278.31	278.07
I-1	Ho. Co. Std. A-10 Inlet SD-4.02	L.P. Sta. 1+74.37 13' Offset	287.08	277.04	276.79
E-1	Ho. Co. Std. Concrete End Section SD-5.51	See Plan SH.2	274.00	—	274.00

AS-BUILT NOV. 1988 (UNREV)
 BUT CHECK LIST OF REVISIONS FOR AS-BUILT INFORMATION ONLY

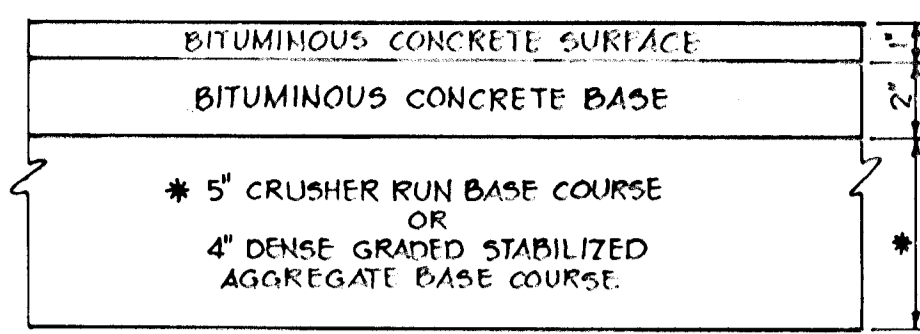
APPROVED: BOHAR COUNTY DEPARTMENT OF PUBLIC WORKS
Harsh J. Lange 7/2/19
 APPROVED: BOHAR COUNTY DEPARTMENT OF PUBLIC WORKS
Paul J. Jagan 9/18/89
David W. Weiland 11/15/89
William E. Ray 4-19-89

WILLOWOOD
 SECTION ONE, AREA ONE (LOTS 92-148)
 ZONE R-50
 HEWLETT COUNTY, MISSOURI

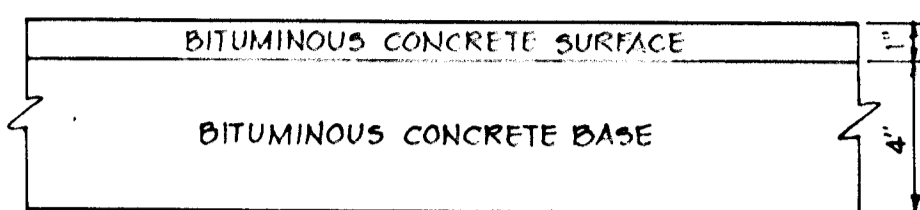
DRAINAGE AREA MAP AND GRADING PLAN
 THE RIEMER GROUP, INC.
 The Riemer Group, Inc. - A Land Planning, Design & Civil Engineering Firm
 2105 North Ridge Road - Elkhart, MO 64603 - (816) 831-2000

DATE: _____
 DESIGNED BY: J.J.D.
 DRAWN BY: J.A.N.
 PROJECT NO: 20700
 DATE: NOVEMBER 20, 1988
 SCALE: AS SHOWN
 DRAWING NO: 5 OF 4
John E. Muegge

1240



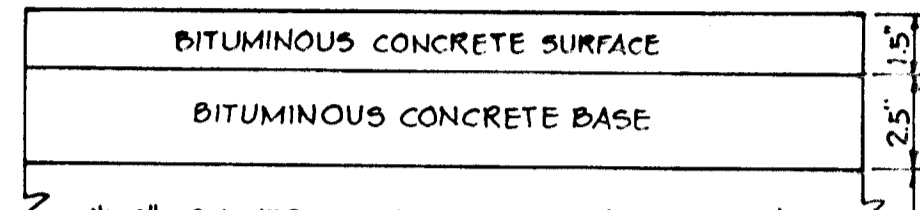
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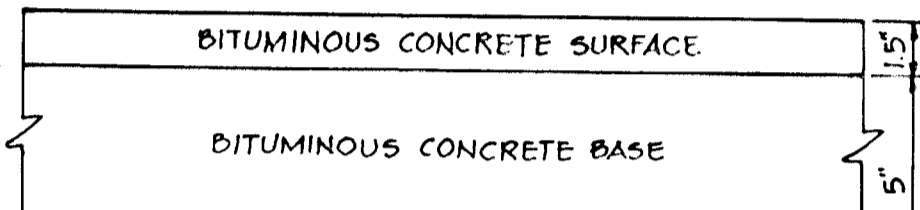
HOWARD COUNTY DESIGN MANUAL VOLUME IV - STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION (DRAWING R-2.01)

(5" PAVING, P-1)

NO SCALE



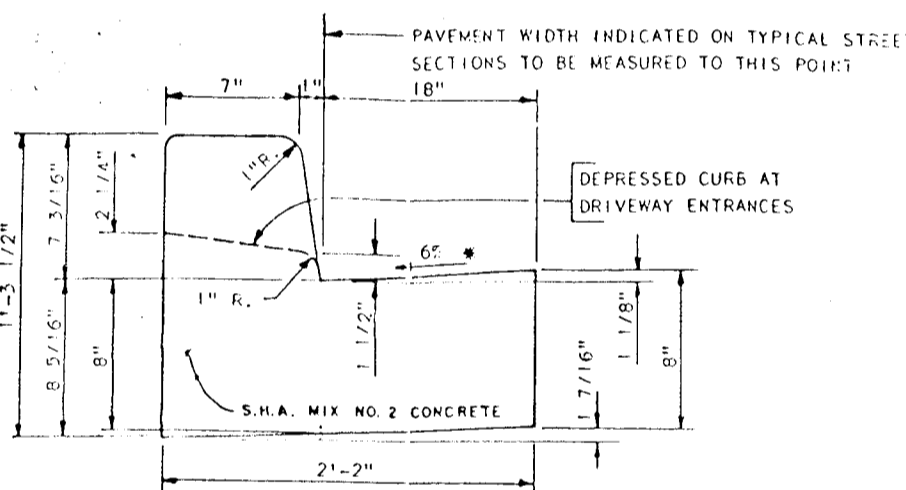
(ALTERNATE)



HOWARD COUNTY DESIGN MANUAL VOLUME III - STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION (DRAWING R-2.01)

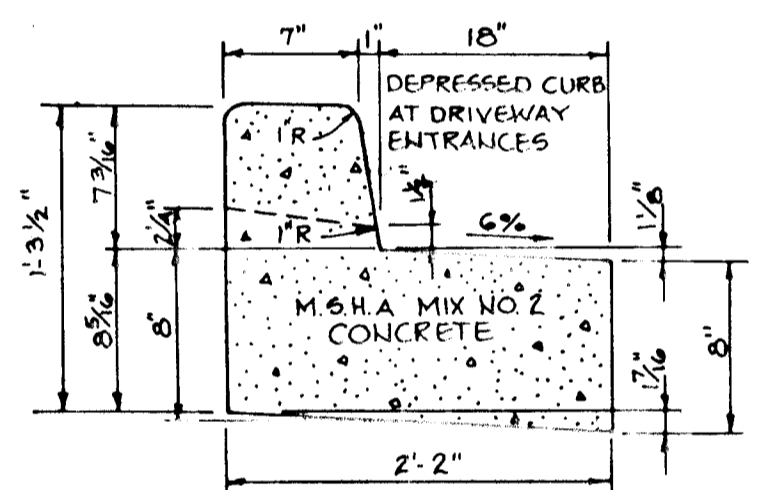
(6 1/2" PAVING, P-2)

NO SCALE



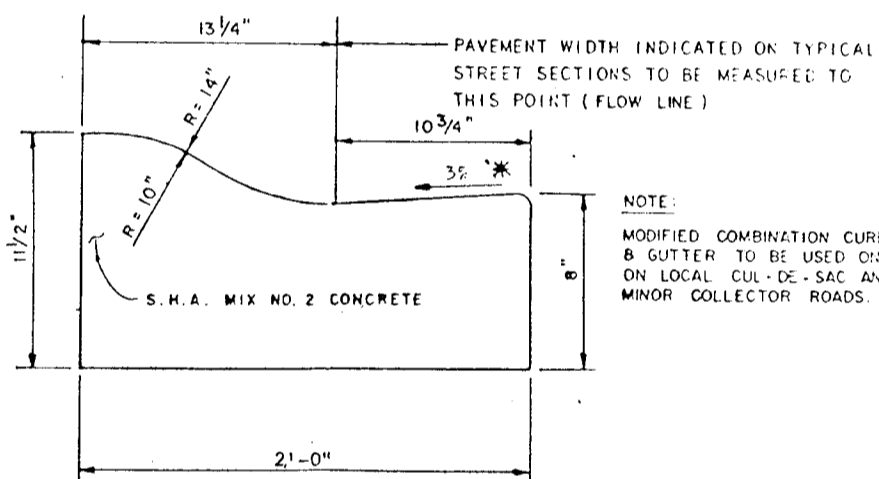
STANDARD 7" COMBINATION CURB AND GUTTER

NO SCALE



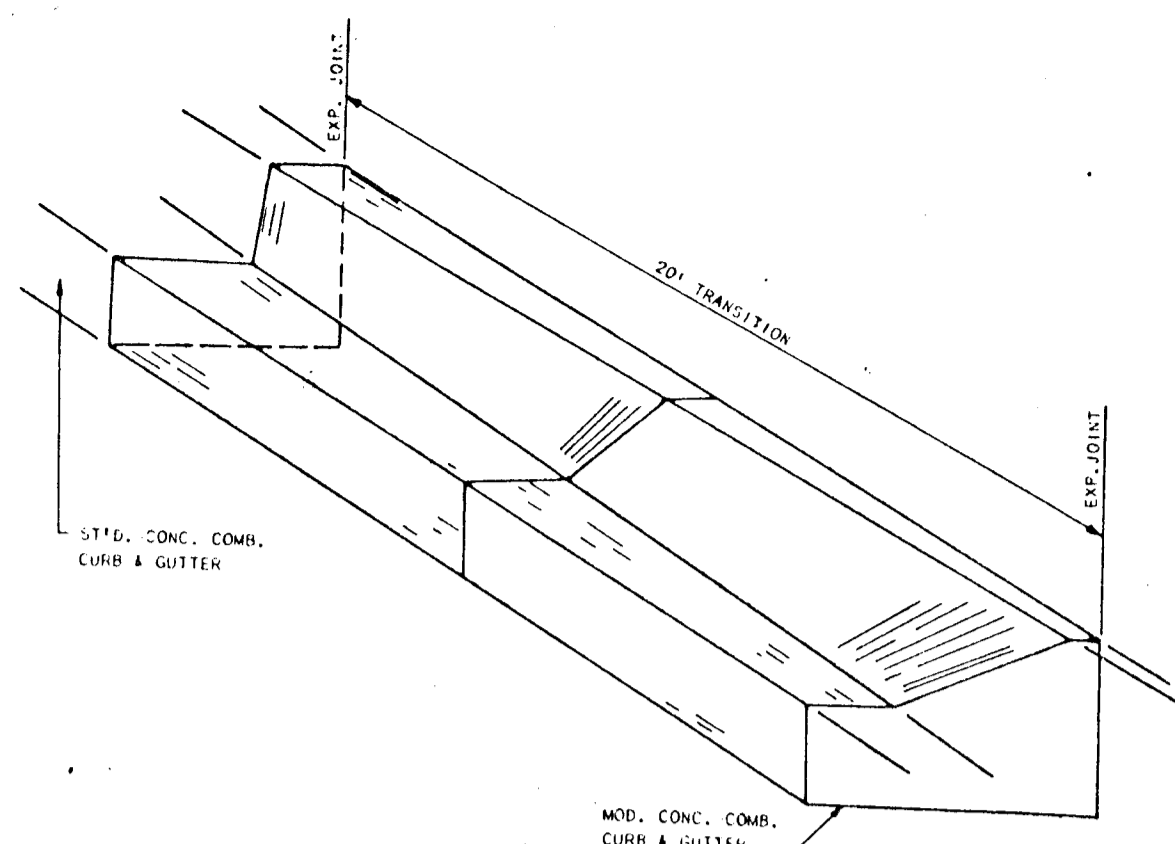
REVERSE 7" COMBINATION CURB AND GUTTER

NO SCALE



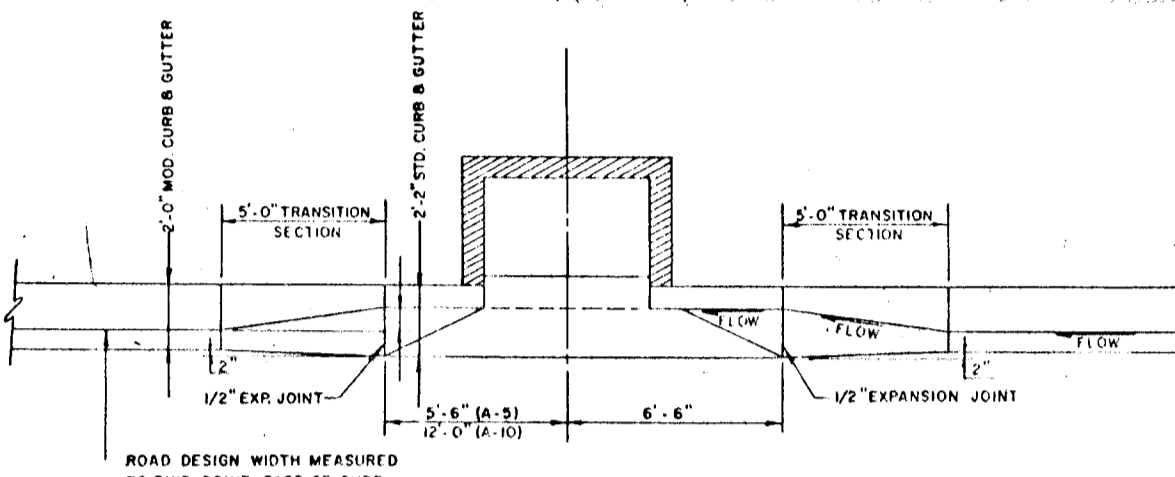
MODIFIED COMBINATION CURB AND GUTTER

NO SCALE



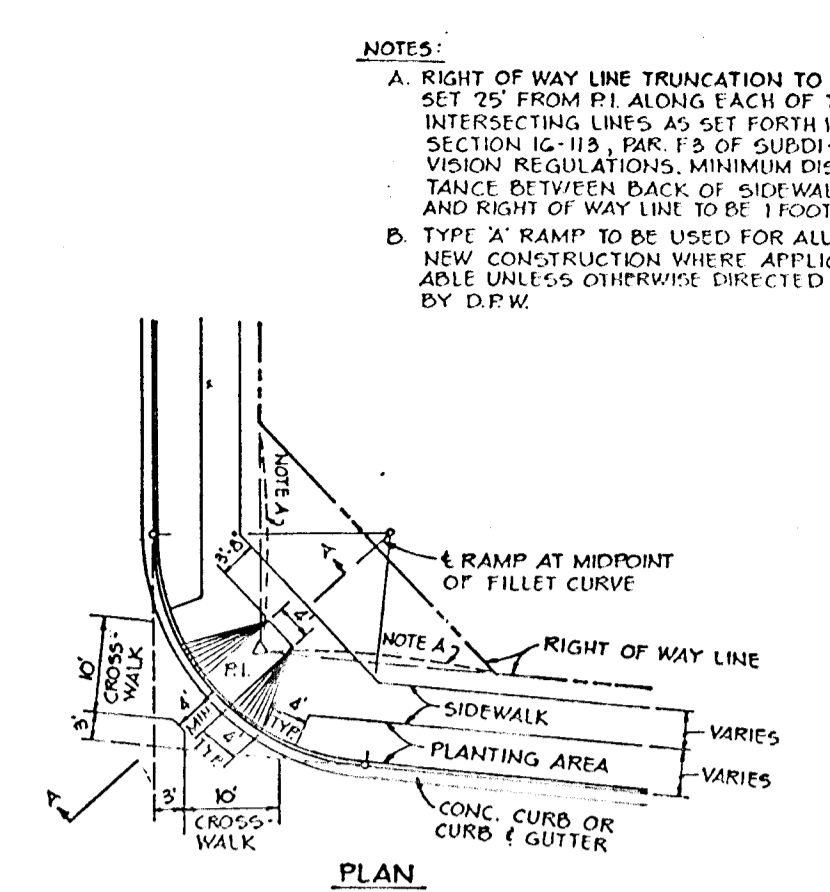
CURB AND GUTTER TRANSITION

NO SCALE



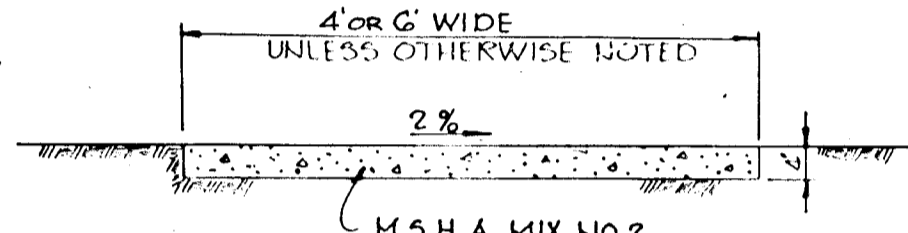
CURB AND GUTTER TRANSITION @ INLETS

NO SCALE



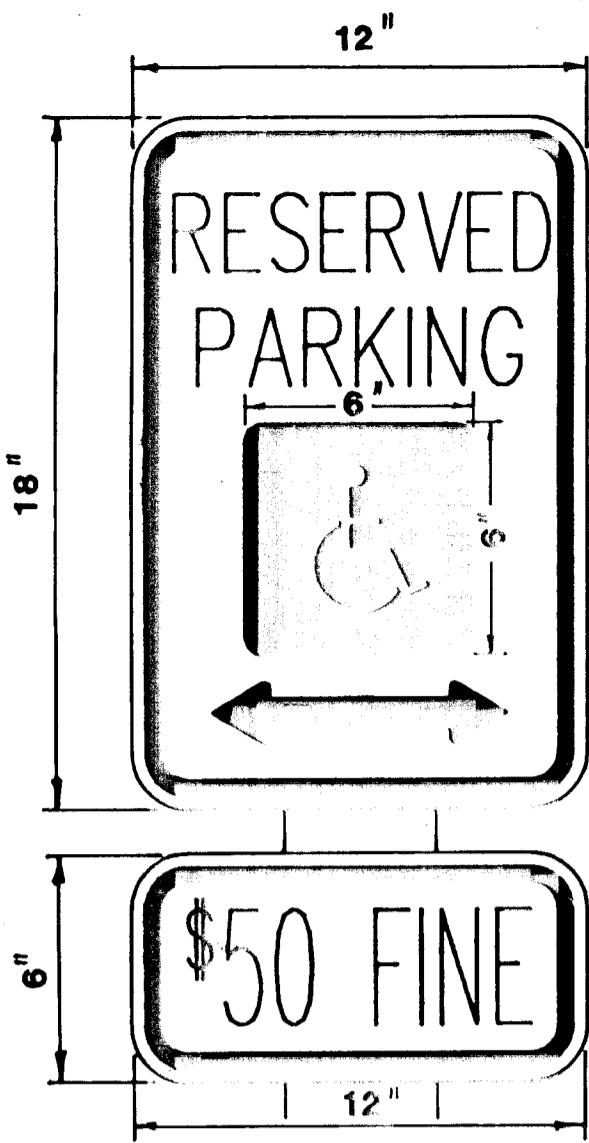
HANDICAP RAMP

NO SCALE



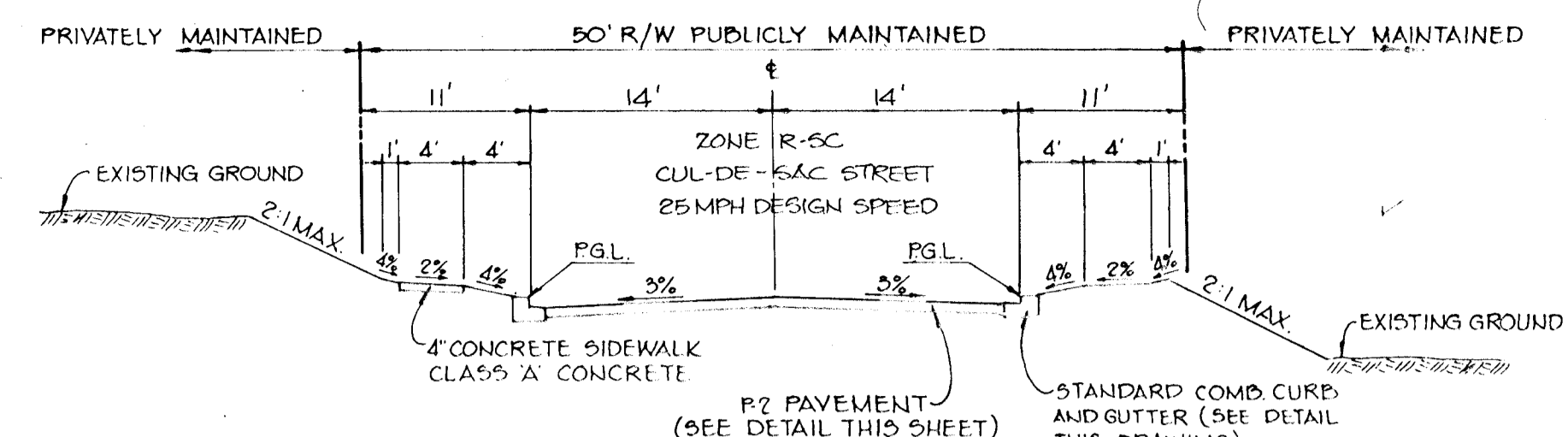
SIDEWALK DETAIL

NO SCALE



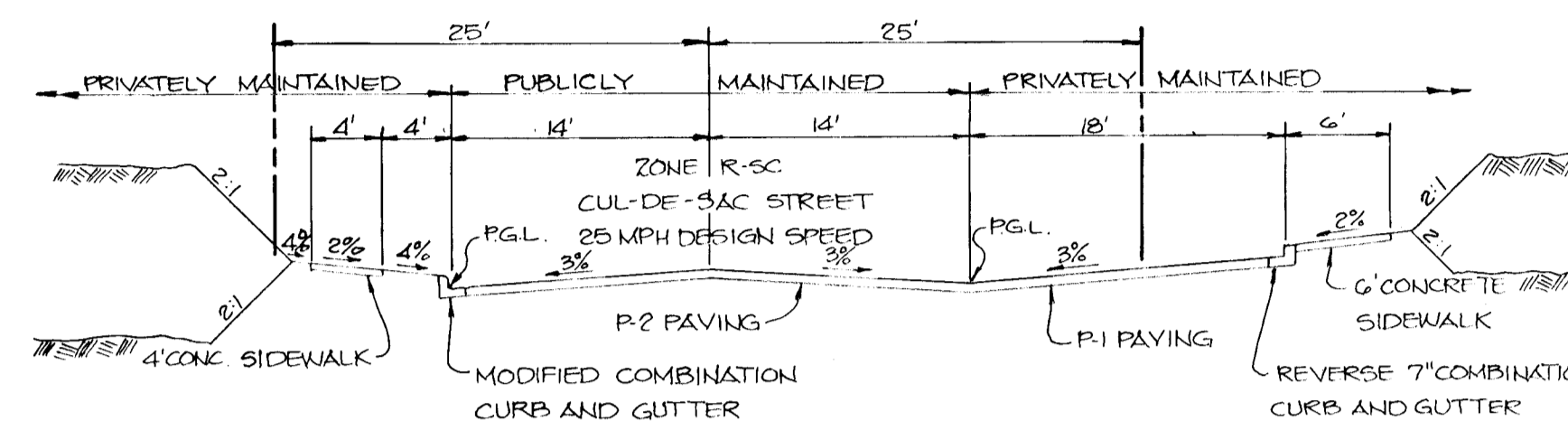
HANDICAP PARKING DETAIL

NO SCALE



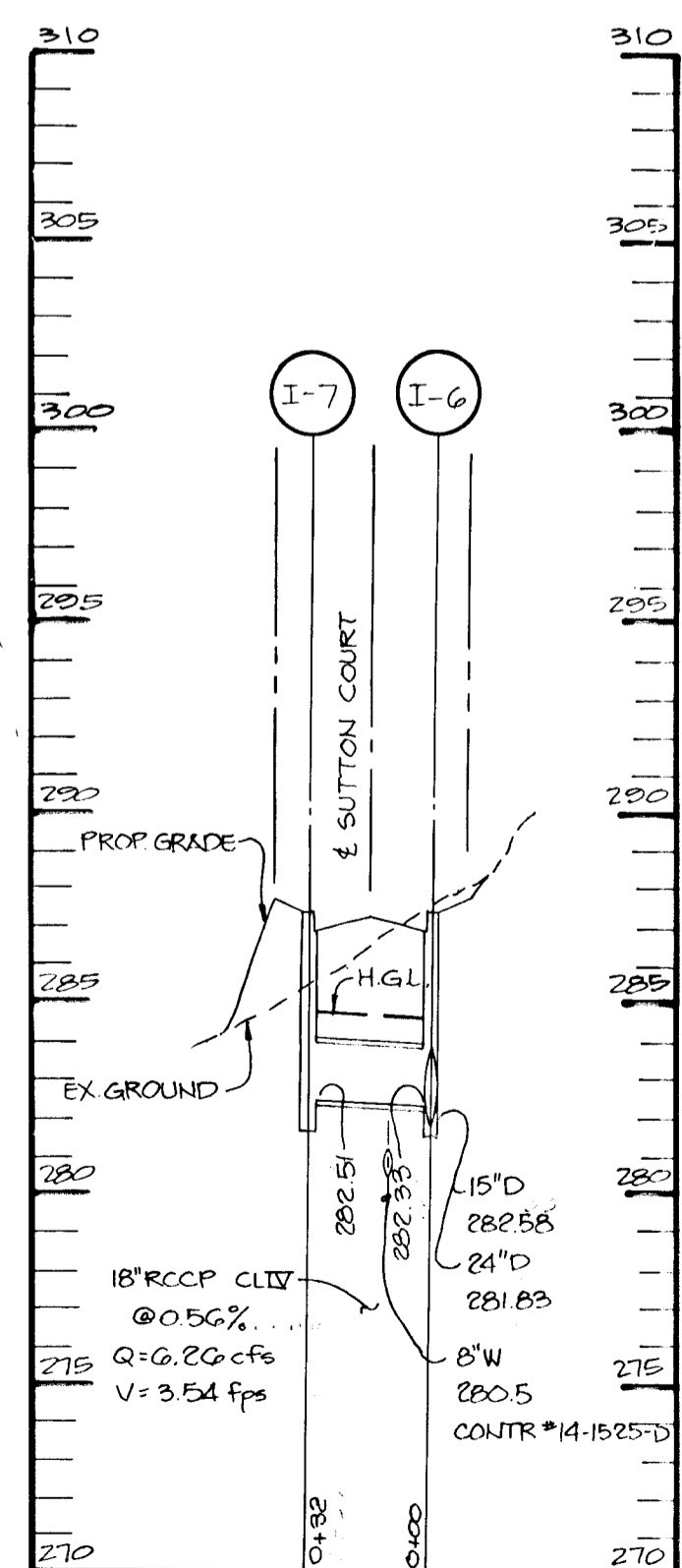
TYPICAL SECTION - SUTTON COURT

NO SCALE
FROM STA. 0+40 TO STA. 2+08.81



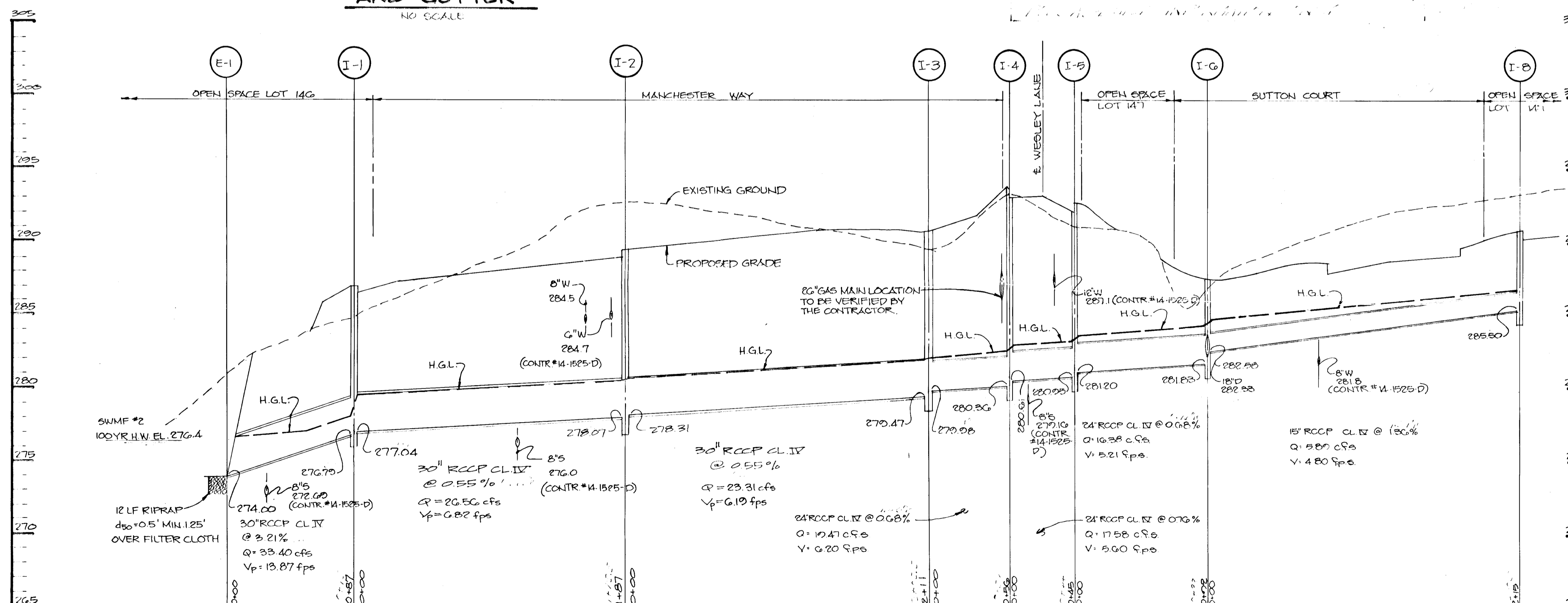
TYPICAL SECTION - MANCHESTER WAY

NO SCALE
FROM STA. 0+02 TO STA. 3+43



PROFILE

SCALE: HORIZ. 1"=50'
VERT. 1"=5'



PROFILE

SCALE: HORIZ. 1"=50'
VERT. 1"=5'

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING	
<i>Janet S. Campbell</i>	4/2/09
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT	
APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS	
<i>Paul J. ...</i>	4/16/09
CHIEF, LAND DEVELOPMENT DIVISION	
<i>Francis W. ...</i>	4-1-09
CHIEF, BUREAU OF HIGHWAYS	
<i>...</i>	4-19-09
CHIEF, BUREAU OF ENGINEERING	
DATE	NO. REVISION
OWNER / DEVELOPER	
CAPITAL HOMES, INC. 8102 ASPENWOOD WAY JESSUP, MARYLAND 20794	
PROJECT	
WILLOWOOD SECTION ONE AREA ONE (LOTS 92-140)	
AREA: TAX MAP 51 ZONE R-5C PARCEL 79,150,301 1ST ELECTION DISTRICT HOWARD COUNTY MARYLAND	
TITLE	
STORM DRAIN PROFILES AND DETAILS	
THE RIEMER GROUP, INC.	
The Riemer Group, Inc. A Land Planning, Design & Civil Engineering Firm 3105 North Ridge Road, Ellicott City, Maryland 21043 (301) 461-2680	
DATE	DESIGNED BY: J.J.B.
	DRAWN BY: J.L.B.
	PROJECT NO: 29710
	SCALE: AS SHOWN
	DRAWING NO. 4 OF 4

1248