

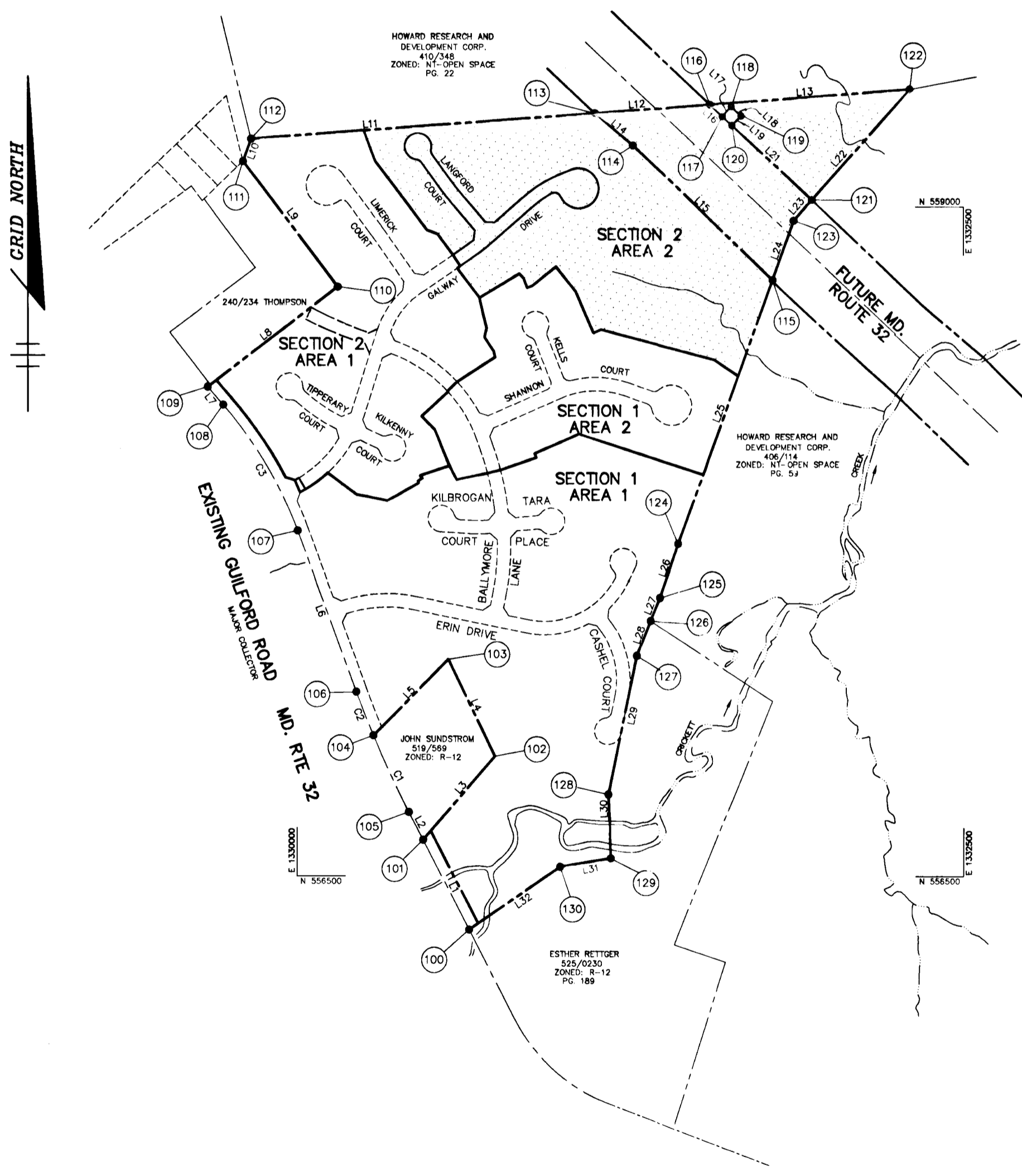
SHEET INDEX	
SHT #	TITLE
1	TITLE SHEET
2	PLAN AND PROFILE OF GALWAY DRIV., CL STA 11+60.54 THRU LINEAR PROFILE
3	PLAN AND PROFILES OF LANGFORD COURT
4	GRADING AND SEDIMENT CONTROL
5	GRADING AND SEDIMENT CONTROL
6	STORMWATER PROFILES
7	SEDIMENT CONTROL NOTES AND DETAILS
8	LANDSCAPE PLAN
9	TEMPORARY STORMWATER MANAGEMENT DRAINAGE AREA AND PHASING MAP

CLARKS GLEN SECTION 2 AREA 2 ROADWAYS & STORM DRAINS

LOTS 158 - 191 5th ELECTION DISTRICT HOWARD COUNTY, MARYLAND

GENERAL NOTES

- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF HOWARD COUNTY PLUS MSHA STANDARDS AND SPECIFICATIONS, IF APPLICABLE.
- 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. EXISTING UTILITIES ARE SHOWN BASED ON THE BEST AVAILABLE INFORMATION.
- THE CONTRACTOR SHALL TEST FIT EXISTING UTILITIES AT LEAST (5) DAYS BEFORE STARTING WORK SHOWN ON THESE DRAWINGS.
- THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS/CONSTRUCTION INSPECTION DIVISION AT (410) 313-1880 AT LEAST FIVE (5) WORKING DAYS PRIOR TO THE START OF WORK.
- THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION WORK.
 - BELL ATLANTIC TELEPHONE SYSTEM 393-3649
 - LONG DISTANCE CABLE DIVISION 393-3053 OR 3554
 - BALTIMORE GAS AND ELECTRIC CO. 538-8000
 - HOWARD COUNTY BUREAU OF UTILITIES 313-4900
 - COLORADO PIPELINE 795-1300
- TRAFFIC CONTROL DEVICES, MARKINGS, AND SIGNING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). ALL STREET AND REGULATORY SIGNS SHALL BE IN PLACE PRIOR TO THE PLACEMENT OF ANY ASPHALT.
- ALL LOCAL STREET INLETS SHALL BE CONSTRUCTED IN ACCORDANCE WITH HOWARD COUNTY STANDARDS & SPECIFICATIONS. ALL GULFORD ROAD INLETS SHALL BE IN ACCORDANCE WITH M.S.H.A. STANDARDS & SPECIFICATIONS.
- ALL STREET CURB RETURNS SHALL HAVE 25' RADI UNLESS OTHERWISE NOTED.
- STORM DRAIN TRENCHES WITHIN ROAD RIGHT OF WAY SHALL BE BACKFILLED AND COMPACTED IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL, VOLUME IV, I.A., STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION, LATEST AMENDMENTS.
- 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:
 - GALWAY DRIV. 30 M.P.H.
 - LANGFORD COURT 30 M.P.H.
- ALL ELEVATIONS SHOWN ARE BASED ON THE 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 OF AASHTO T 180.
- ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS.
- PROFILES STATIONS SHALL BE ADJUSTED AS NECESSARY TO CONFORM TO PLAN DIMENSIONS.
- SUBJECT PROPERTY ZONED R-12 PER 10-18-93 COMPREHENSIVE ZONING PLAN.
- NO PIPE SHALL BE LAID UNTIL LINES OF EXCAVATION HAVE BEEN BROUGHT WITHIN 4" OF FINISHED GRADE.
- ALL STORM DRAIN PIPE BEDDING SHALL BE CLASS 'C' AS SHOWN IN FIG. 11.4, VOLUME 1 OF HOWARD COUNTY DESIGN MANUAL UNLESS OTHERWISE NOTED.
- SEE DEPARTMENT OF PLANNING AND ZONING FILE NOS. S-94-16, WP-94-31, P-94-25, F-94-83, F-94-111.
- LIGHT POLES AND FIXTURES FOR STREET LIGHTS SHALL BE IN ACCORDANCE WITH HOWARD COUNTY DESIGN MANUAL, VOLUME II AND GUIDELINES FOR STREET LIGHTS IN RESIDENTIAL DEVELOPMENTS, JUNE 1993.
- STORMWATER MANAGEMENT FACILITIES #1 AND #2 PROPOSED FOR THIS SITE ARE CLASS 'A' HAZARD FACILITIES UNDER F-94-11. WATER QUALITY FOR SWMP #1 WILL BE EXTENDED DETENTION WATER QUALITY FOR SWMP #2 WILL BE MET STORAGE SWMP #1 TO BE OWNED BY B.L.O.A. & MAINTAINED BY HOWARD CO. SWAMP #2 TO BE OWNED BY HOC. CDDPT. OF PARKS & RECREATION AND MAINTAINED BY HOWARD CO.
- TOPOGRAPHY SHOWN HEREON WAS PERFORMED BY WINGS AERIAL MAPPING COMPANY, MARCH 1994. ALL CONTOURS ARE TWO FOOT INTERVALS.
- PUBLIC WATER AND SEWER SYSTEMS AS PER CONTRACT NO. 34-3394-D (SECTION 1, AREA 1) ARE TO BE UTILIZED FOR THIS SITE. SEWER SERVICE DRAINAGE AREA, WADLE PARKWAY.
- NOISE STUDY WAS PREPARED BY RIEMER MUEGGE & ASSOCIATES, INC. AND APPROVED 11/19/94 UNDER P-94-25.
- GEOTECHNICAL STUDY FOR STORMWATER MANAGEMENT AND PAVEMENT FOR THIS PROJECT IS PROVIDED BY GEO-TECHNOLOGY ASSOCIATES INC., JUNE 1994.
- ALL STREET LIGHTS SHALL BE LOCATED BETWEEN 2'-0" AND 4'-0" BEHIND FACE OF CURB.
- STREET LIGHT PLACEMENT AND TYPE OF FIXTURE AND HOLE SELECTED SHALL BE IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL, VOL. II (1993) AND AS MODIFIED BY THE "GUIDELINES FOR STREET LIGHTS IN RESIDENTIAL DEVELOPMENTS (JUNE 1993)" WHICH INCLUDES GUIDELINES FOR LATERAL AND LONGITUDINAL PLACEMENT. STREET TREES TO BE PLACED 20' FROM STREET LIGHTS.
- WP-94-31 - APPROVED 12-17-93 WAS A WAIVER TO SECTION 16.120(b)(6)(i) OF THE HOWARD COUNTY SUBDIVISION AND LAND DEVELOPMENT REGULATIONS TO ALLOW 5 ADJOINING PIPESTEMS USING A SINGLE SHARED DRIVEWAY ACCESS FROM A PUBLIC ROAD.
- THE PAVEMENT DETAILS SHOWN ON THESE PLANS REFLECT THE HOWARD COUNTY MINIMUM STANDARD PAVEMENT SECTIONS AND ARE NOT BASED ON SITE SPECIFIC CONDITIONS. PRIOR TO PAVING, THE FINAL PAVEMENT SECTIONS SHALL BE DETERMINED BY A QUALIFIED GEOTECHNICAL ENGINEER BASED ON IN-SITU TESTING OF THE FINISHED SUBGRADE. ANY PAVEMENT SECTION DETERMINED BY THE GEOTECHNICAL ENGINEER THAT IS LESS THAN THE HOWARD COUNTY MINIMUM STANDARD, SHALL FIRST BE APPROVED BY THE HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS. THE TESTING AND GEOTECHNICAL ENGINEER SHALL BE FURNISHED BY THE OWNER.
- CONTRACTOR SHALL PROVIDE A 20' TRANSITION WHEN CONNECTING MODIFIED CURB & GUTTER TO STANDARD CURB & GUTTER. SEE STANDARD DETAIL R-3.02.
- CONTRACTOR IS SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, PROCEDURES, AND SAFETY PRECAUTIONS AND PROGRAMS.
- SOILWORK MARKS SHALL BE INSTALLED AT ALL INTERSECTIONS AND SHALL CONFORM TO THE CURRENT A.S.A. REQUIREMENTS.
- A TRAFFIC STUDY FOR THIS PROJECT WAS PREPARED BY THE TRAFFIC GROUP AND WAS APPROVED ON NOVEMBER 19, 1994.
- THE AFForestation/REFORESTATION AREAS HAVE SPECIFIC FINAL STABILIZATION (SEEDING) REQUIREMENTS. PLEASE REFER TO THE FOREST CONSERVATION PLANS SHEETS 12 THRU 14 OF CLARKS GLEN SECTION 2 AREA 1 FOR THE LOCATION OF THESE SPECIALLY SEEDS AREAS.
- THE LOT DESIGN WILL COMPLY WITH THE USABLE YARD REQUIREMENTS OF SECTION 16.120(b)(6)(ii) OF THE SUBDIVISION AND LAND DEVELOPMENT REGULATIONS.
- WETLANDS DISTURBANCE AS SHOWN ON THESE PLANS TO BE PERFORMED IN ACCORDANCE WITH MARYLAND DEPARTMENT OF NATURAL RESOURCES PERMIT NO. 94-NT-0812/180469422 WHICH EXPIRES ON APRIL 4, 1998 AND MARYLAND DEPARTMENT OF THE ENVIRONMENT WATER QUALITY CERTIFICATION 88-GWQ-0018. CRICKETT CREEK IS A USE 1 WATERWAY. IN STREAM WORK MAY NOT BE CONDUCTED FROM MARCH 1 THROUGH JUNE 15, INCLUSIVE, OF ANY YEAR.

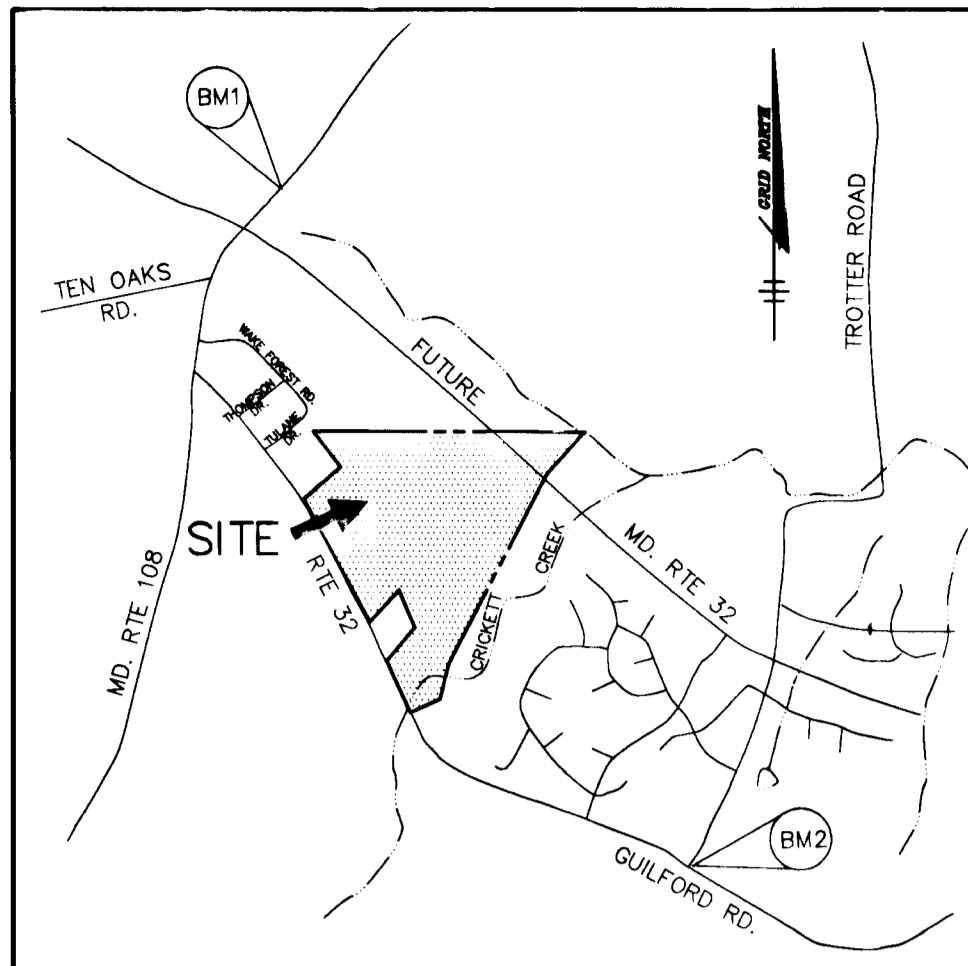


PLAN
SCALE: 1" = 400'

CURVE LISTINGS		
CURVE	RADIUS	LENGTH
C1	4000.00'	315.58'
C2	4000.00'	174.14'
C3	1519.06'	550.72'

PROPERTY LINE LIST			
LINE	BEARING	DISTANCE	
L1	S 27°05'14" E	377.31'	
L2	S 27°05'14" E	116.73'	
L3	S 40°34'50" E	412.82'	
L4	S 25°44'28" E	400.00'	
L5	S 44°40'57" W	398.83'	
L6	S 20°04'21" E	640.39'	
L7	N 40°50'41" W	89.94'	
L8	N 52°30'36" E	612.22'	
L9	S 37°10'27" E	586.47'	
L10	N 19°19'32" E	90.00'	
L11	N 85°37'26" E	1290.16'	
L12	N 85°37'26" E	433.57'	
L13	N 85°37'26" E	735.60'	
L14	S 49°47'59" E	187.07'	
L15	S 46°13'22" E	726.20'	
L16	N 48°58'20" W	633.94'	
L17	S 43°03'40" W	50.00'	
L18	N 46°56'20" W	50.00'	
L19	N 43°03'40" E	50.00'	
L20	N 46°56'20" W	50.00'	
L21	N 46°56'20" W	410.78'	
L22	S 41°33'05" W	555.24'	
L23	S 41°33'05" W	103.22'	
L24	S 19°50'08" W	234.93'	
L25	S 19°50'08" W	1048.18'	
L26	S 18°50'31" W	213.56'	
L27	S 21°49'30" W	92.66'	
L28	S 21°35'51" W	139.35'	
L29	S 11°21'17" W	628.00'	
L30	S 02°18'43" E	240.00'	
L31	S 80°30'43" W	192.86'	
L32	S 55°26'00" W	415.25'	

COORDINATE LIST		
NO.	NORTHING	EASTING
100	556799.892	1330643.332
101	556635.817	1330471.526
102	556949.351	1330404.072
103	557309.657	1330566.350
104	557026.083	1330285.902
105	556739.746	1330418.372
106	557188.295	1330222.594
107	557189.789	1330002.806
108	556261.915	1329726.163
109	556378.438	1329667.652
110	556701.048	1330153.422
111	556168.349	1329799.054
112	556253.278	1329628.838
113	556351.720	1331115.236
114	556230.971	1331258.722
115	556728.543	1331782.467
116	556384.803	1331547.538
117	556341.393	1331593.990
118	556377.924	1331628.729
119	556343.785	1331664.650
120	556307.254	1331630.521
121	556026.782	1331930.648
122	556442.304	1332286.338
123	556949.539	1331862.186
124	557742.548	1331426.755
125	557540.054	1331357.695
126	557454.031	1331373.245
127	557324.140	1331272.783
128	556680.088	1331165.819
129	556567.284	1331175.501
130	556535.492	1330985.279



VICINITY MAP
SCALE: 1" = 2000'

BENCHMARKS

- BM1
HOWARD COUNTY MONUMENT NO. 2637003
ELEV. 481.25
CONCRETE MONUMENT
- BM2
HOWARD COUNTY MONUMENT NO. 2437803
ELEV. 472.12
CONCRETE MONUMENT

AS BUILT CERTIFICATE	
DATE	
APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.	
<i>Andrew M. Ouellet</i> CHIEF, BUREAU OF HIGHWAYS	6-3-96 DATE
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.	
<i>John Swinigo</i> CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH	6/11/96 DATE
<i>Chris Dammann</i> CHIEF, DEVELOPMENT ENGINEERING DIVISION	6/5/96 DATE
DATE	REVISION
OWNER / DEVELOPER	WILBEN LIMITED PARTNERSHIP C/O ANDREW L. ISAACSON 5450 WHITELEY PARK TERRACE # 410 BETHESDA, MD 20814 301-530-1123
PROJECT	CLARKS GLEN SECTION 2 AREA 2
AREA	TAX MAP NO. 35 PARCEL 205 5th ELECTION DISTRICT HOWARD COUNTY, MARYLAND
TITLE	TITLE SHEET
RIEMER MUEGGE & ASSOCIATES, INC. Planners • Engineers • Surveyors 8818 Centre Park Drive • Suite 200 • Columbia, MD 21045 410-997-8900 FAX: 410-997-9282	
DATE	5-16-96
DESIGNED BY:	JTD
DRAWN BY:	JTD
PROJECT NO. / HOCO / SHT1.DWG	HOCO 93212A2 / SHT1.DWG
DATE:	MAY 16, 1996
SCALE:	AS SHOWN
DRAWING NO.	1 OF 9
<i>J. Parekh</i> JAYKANT D. PAREKH #19148	

1739

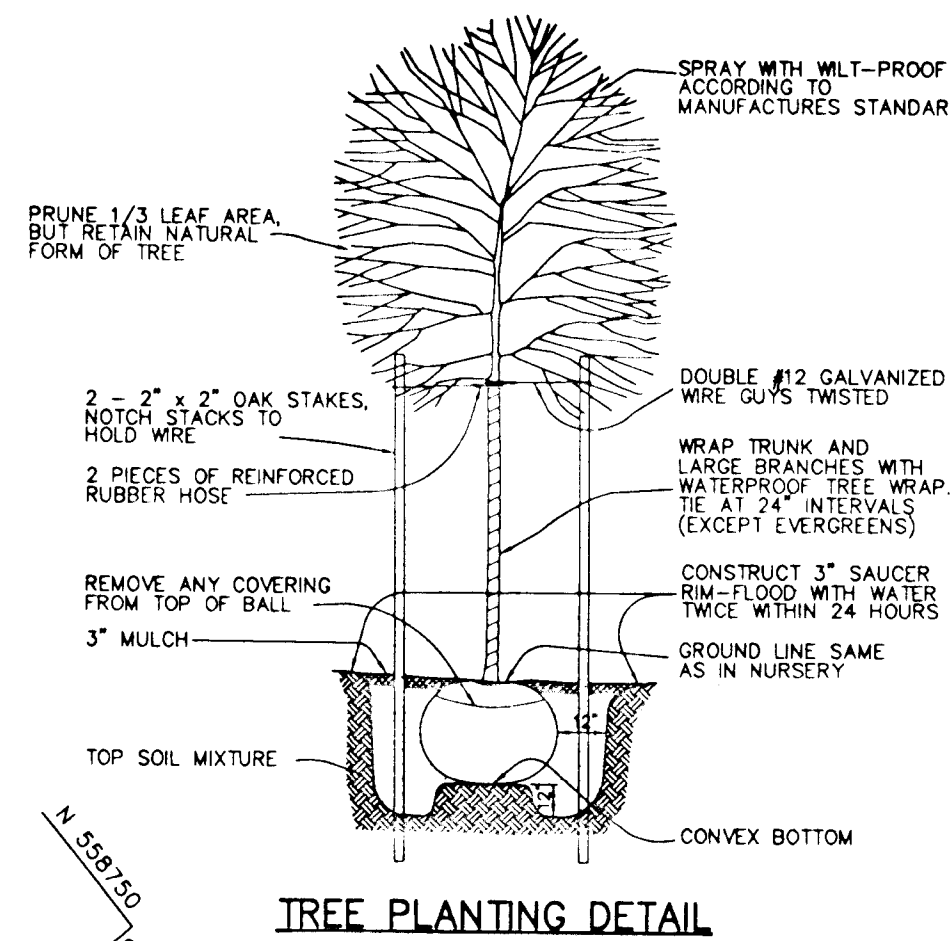
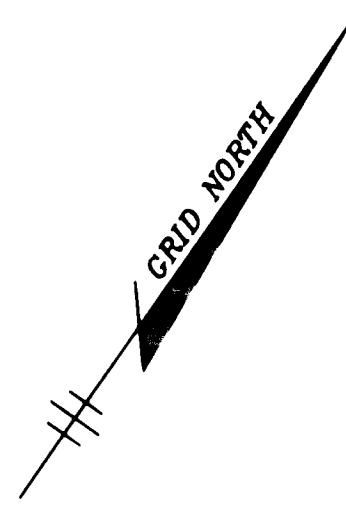
NOTED:
 ALL STREET LIGHTS SHALL BE 100-WATT "TRADITIONAIRE"
 HPS VAPOR POST TOP FIXTURE ON A 1/2" BLACK FIBERGLASS
 POLE. STREET LIGHTS SHALL BE AT THE FOLLOWING LOCATIONS:
 GALWAY DRIVE @ STA. 119+72.15 LT.
 GALWAY DRIVE, LINEAR PROFILE STA. 11+05, 28' RT.

CL CURVE DATA

FROM CL STA 11+72.98 TO CL STA 12+99.32
 R = 1000.00'
 L = 126.34'
 T = 63.25'
 $\Delta = 0714'19"$
 CHORD = N 52°08'43" E 126.26'
 D = 5°08'43"

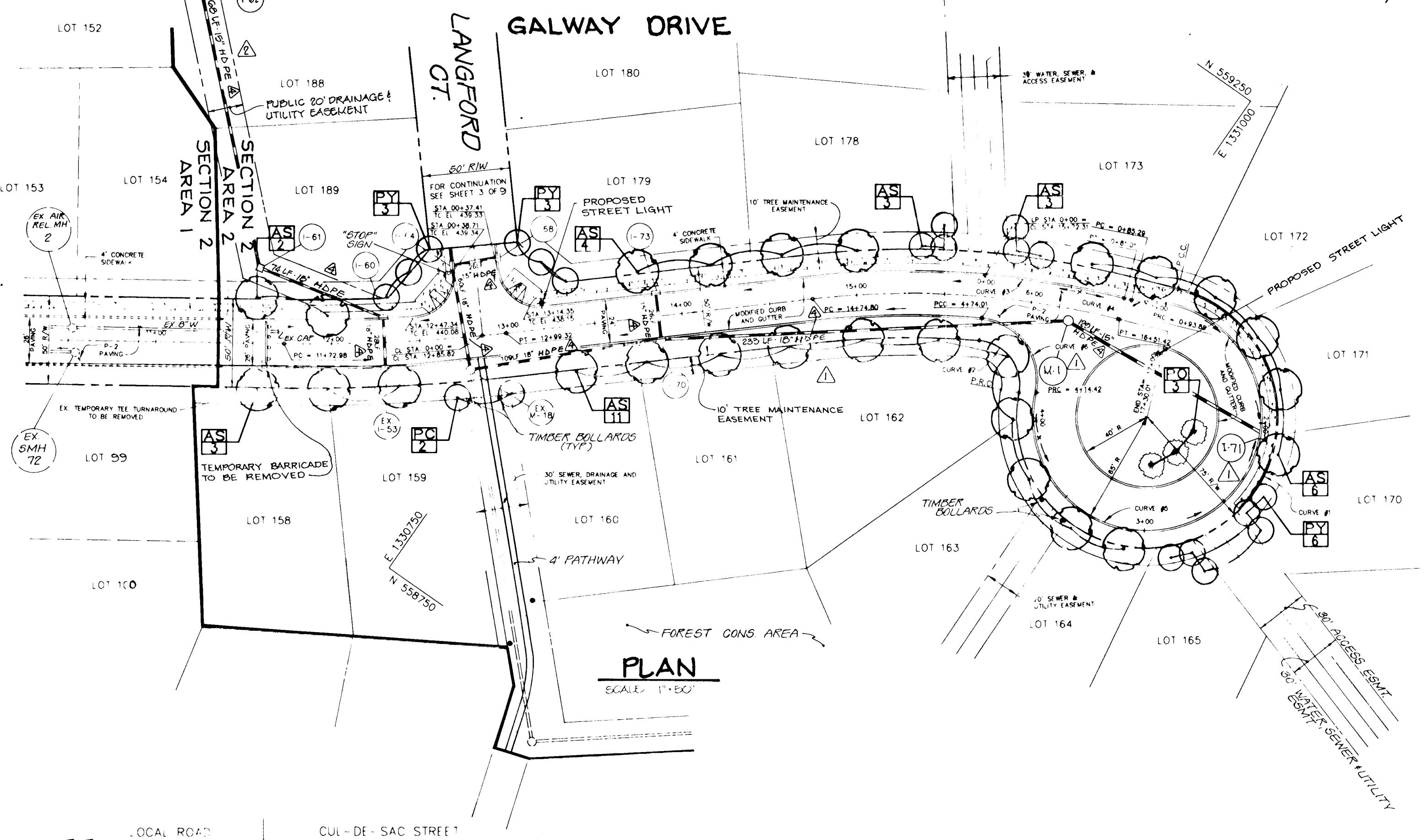
CL CURVE DATA

FROM CL STA 12+74.80 TO CL STA 16+51.42
 R = 500.00'
 L = 176.62'
 T = 89.24'
 $\Delta = 20714'19"$
 CHORD = N 58°38'43" E 175.70'
 D = 11°27'33"

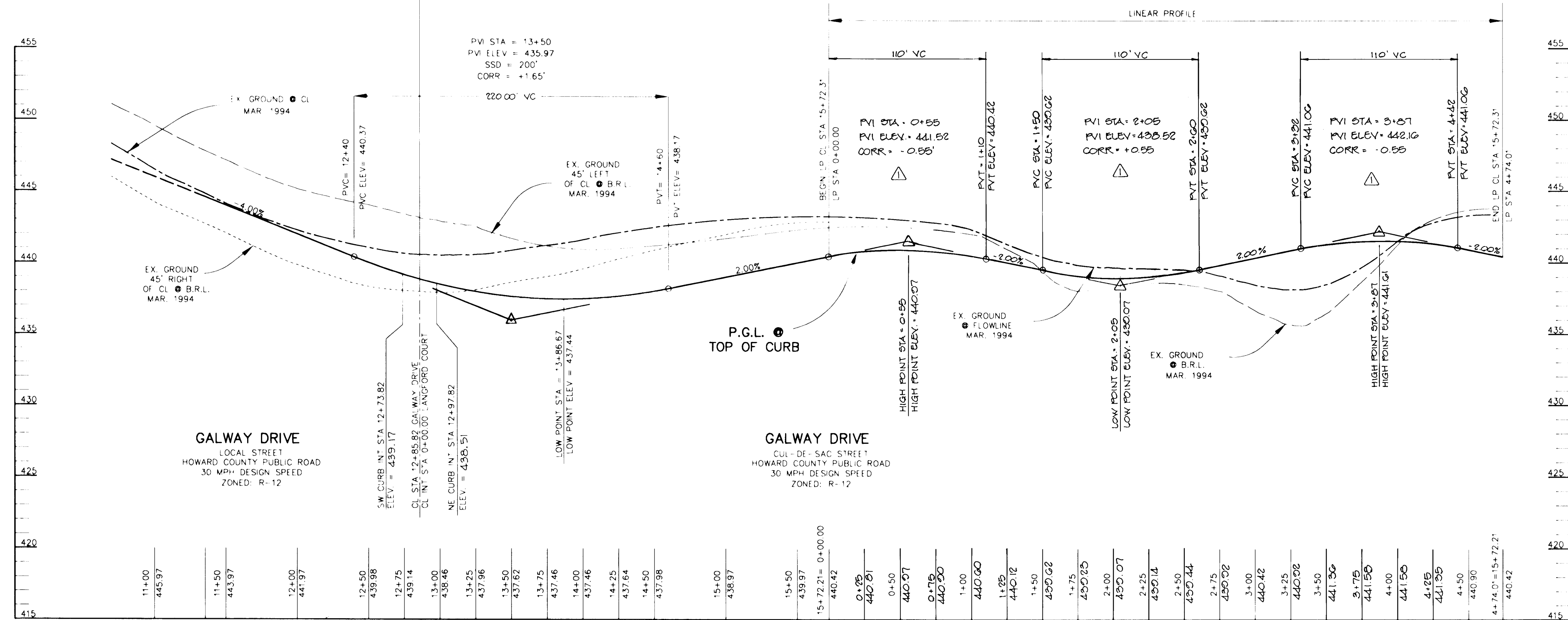


PLANT MATERIAL LIST FOR ALL SHEETS

KEY	SYMBOL	BOTANICAL & COMMON NAME	SIZE	QUANTITY
TREES				
AS	20	Acer saccharum 'Green Mountain'	2.5" - 3" Cal. 12' - 14' HT.	B B B
FAP	21	Fraxinus americana 'Autumn Purple'	2.5" - 3" Cal. Autumn Purple White Ash	B B B
PO	5	Picea canadensis 'Serpent Spruce'	7' - 8' HL.	B B B
PC	6	Pinus strobus 'Aristocrat'	2.5" - 3" Cal. 11' - 13' HT.	B B B
PY	10	Prunus x yedoensis 'Yoshino Flowering Cherry'	2" - 2.5" Cal. 8' - 10' HT.	B B B



CURVE DATA						
CURVE NUMBER						
	1	2	3	4	5	6
Δ	266°44'46"	95°51'21"	09°03'54"	14°04'12"	282°32'48"	97°32'31"
R	75.00'	25.00'	512.00'	35.00'	65.00'	35.00'
L	349.17'	41.83'	81.01'	8.59'	320.54'	59.59'
T	79.38'	27.70'	40.59'	4.32'	52.12'	39.94'
L.C.	109.03'	37.17'	80.92'	8.57'	81.33'	52.65'

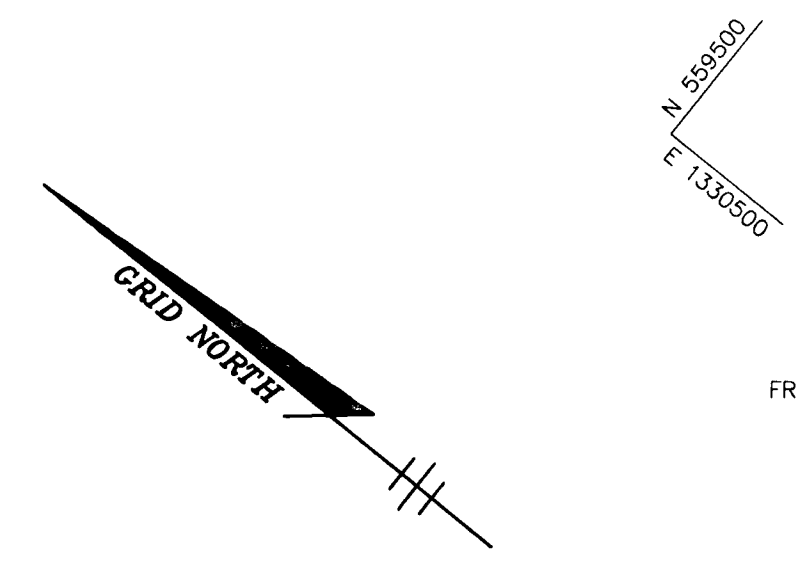


PROFILE

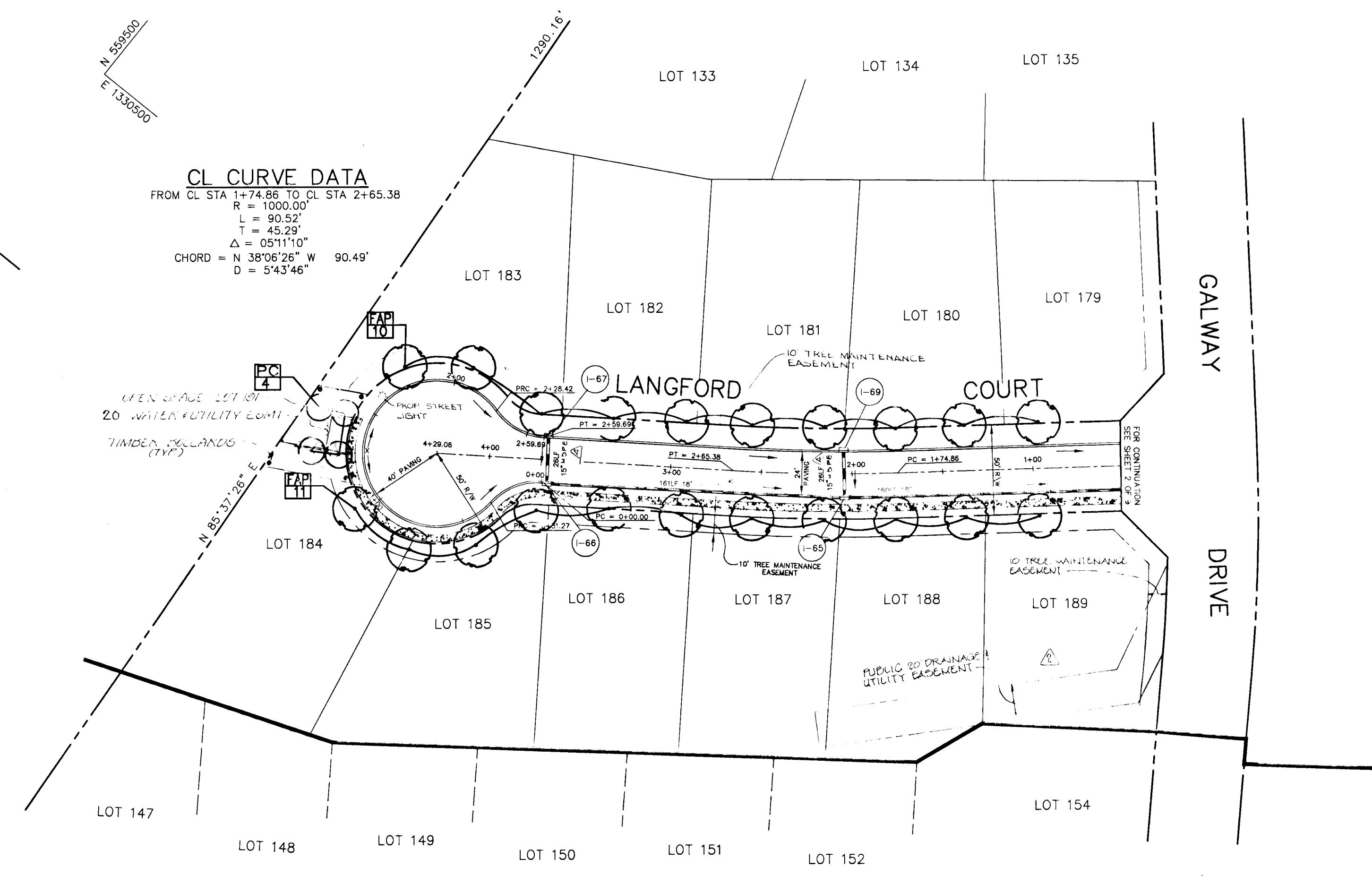
SCALE:
 HOR. - 1" = 50'
 VERT. - 1" = 5'

8-13-99	REVISED TYPE OF STORM DRAINAGE TO HDPE
DATE	NO. REVISION
AS BUILT CERTIFICATE	
DATE	
APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.	
<i>Andrew M. Dwyer</i> CHIEF, BUREAU OF HIGHWAYS MS 6-3-96 DATE	
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.	
<i>Jim Stumm</i> CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH MS 6/11/96 DATE	
<i>William M. ...</i> CHIEF, DEVELOPMENT ENGINEERING DIVISION MS 6/5/96 DATE	
4-14-99	REV. STORM DRAIN ALIGNMENT - ADDED 1-G2
2-12-99	REV. STORM DRAIN ALIGNMENT & ROAD PROFILE
DATE	NO. REVISION
OWNER / DEVELOPER	
WILBEN LIMITED PARTNERSHIP C/O ANDREW L. ISAACSON 5450 WHITELY PARK TERRACE # 410 BETHESDA, MD 20814 301-530-1123	
PROJECT	
CLARKS GLEN SECTION 2 AREA 2	
AREA	
TAX MAP NO. 35 PARCEL 205 5th ELECTION DISTRICT HOWARD COUNTY, MARYLAND	
TITLE PLAN AND PROFILE OF GALWAY DRIVE CL STA 11+60.59 THRU LINEAR PROFILE	
RIEMER MUEGGE & ASSOCIATES, INC. Planners • Engineers • Surveyors 8818 Centre Park Drive • Suite 200 • Columbia, MD 21045 410-997-8900 FAX: 410-997-9282	
5-16-96	DATE
DESIGNED BY: JTD	
DRAWN BY: JTD	
PROJECT NO: HOCO\93212A2 SH12.DWG	
DATE: MAY 16, 1996	
SCALE: AS SHOWN	
DRAWING NO. 2 OF 9	
<i>J. Savelle</i> JAYKANT D. PAREKH #19148	

1996

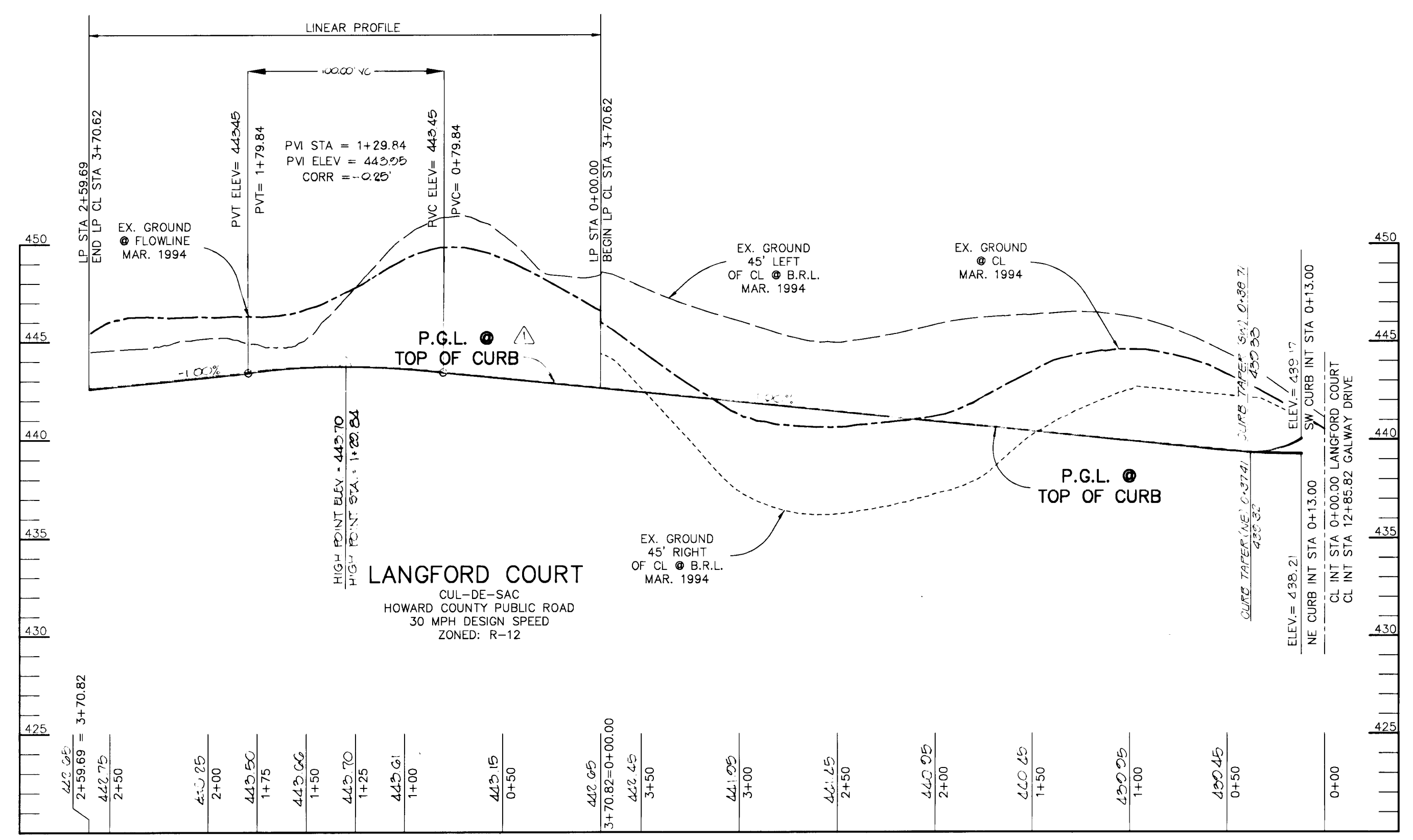


CL CURVE DATA
 FROM CL STA 1+74.86 TO CL STA 2+65.38
 R = 1000.00'
 L = 90.52'
 T = 45.29'
 Δ = 031°11'0"
 CHORD = N 38°06'26" W 90.49'
 D = 5'43.46"



NOTES:
 1. ALL STREET LIGHTS SHALL BE 100-WATT "TRADITIONAIRE" HPS VAPOR POST TOP FIXTURE ON A 14" BLACK FIBERGLASS POLE. THE STREET LIGHT SHALL BE AT THE FOLLOWING LOCATION:
 LANGFORD COURT, LINKAR (PROFILE STA 1+60, 3' LT)

**WILBEN PROPERTY
 SECT 2 AREA 1**
PLAN
 SCALE 1"=50'



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

8/13/99	REVISED TYPE OF STORM DRAINAGE TO HDPE
DATE	NO. REVISION
AS BUILT CERTIFICATE	
DATE	
APPROVED : HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.	
 CHIEF, BUREAU OF HIGHWAYS	
DATE	
APPROVED : HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.	
 CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH	
DATE	
CHIEF, DEVELOPMENT ENGINEERING DIVISION	
DATE	
8/14/99	ADDED EIGHT (8) REAR OF LOTS 187, 188
8/12/99	REV PGL ON LANGFORD COURT
DATE	NO. REVISION
OWNER / DEVELOPER	
WILBEN LIMITED PARTNERSHIP C/O ANDREW L. ISAACSON 5450 WHITELY PARK TERRACE # 410 BETHESDA, MD 20814 301-530-1123	
PROJECT	
CLARKS GLEN SECTION 2 AREA 2	
AREA	
TAX MAP NO. 35 PARCEL 205 5th ELECTION DISTRICT HOWARD COUNTY, MARYLAND	
TITLE	
PLAN AND PROFILE LANGFORD COURT	
RIEMER MUEGGE & ASSOCIATES, INC.	
Planners • Engineers • Surveyors 8818 Centre Park Drive • Suite 200 • Columbia, MD 21045 410-997-8900 FAX : 410-997-9282	
5.16.96	DATE
JTD	DESIGNED BY :
JTD	DRAWN BY :
HOCO 93212A2	PROJECT NO :
SH13.DWG	
MAY 16, 1996	DATE :
AS SHOWN	SCALE :
3 OF 3	DRAWING NO. :
J. Sarell	
JAYKANT D. PAREKH #19148	

1739
621



HOWARD RESEARCH & DEVELOPMENT CORP.
410/348
ZONED: NT OPEN SPACE

FUTURE MARYLAND ROUTE 32
VEHICULAR INGRESS/EGRESS RESTRICTED

65 ABA CONTOUR

STOCKPILE AREA

SECTION 2 AREA 2
SECTION 1 AREA 2

DRAINAGE AREA TABULATION

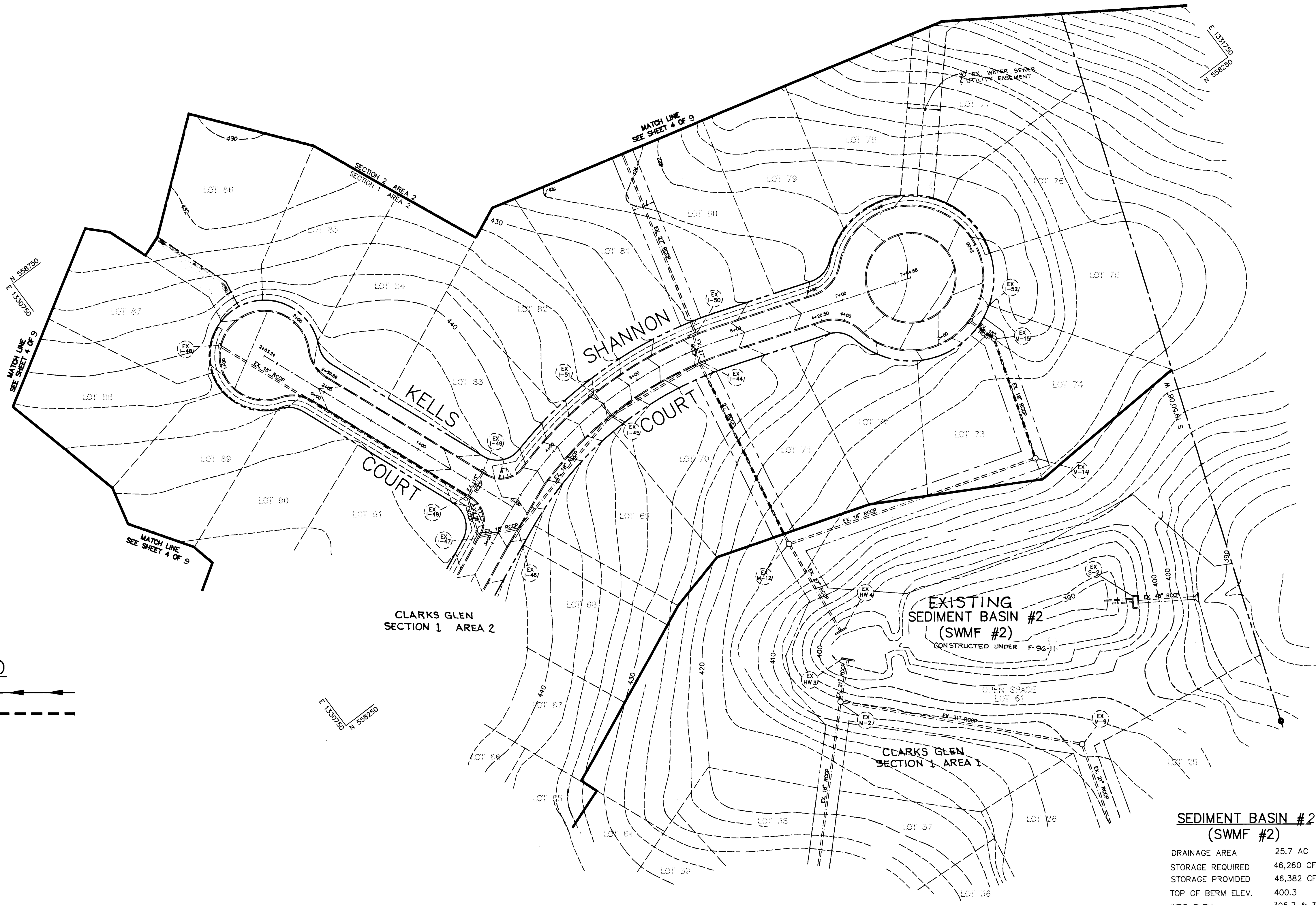
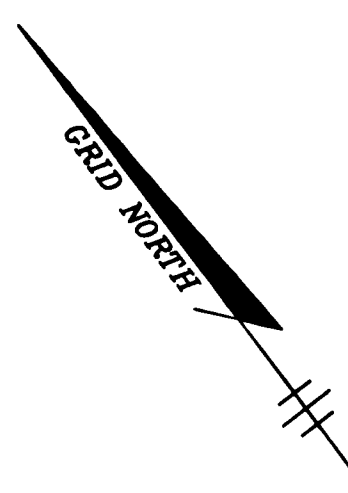
D.A.#	AREA	% C	% IMP
60	0.29	0.57	59
61	0.46	0.31	22
64	0.27	0.52	52
65	0.36	0.43	39
66	0.27	0.55	56
67	0.15	0.63	67
68	0.28	0.49	46
69	0.27	0.52	52
70	0.97	0.41	36
71	0.66	0.34	26
73	0.66	0.46	42
74	1.6	0.51	22

LEGEND

- LIMIT OF DISTURBANCE
- SSP-SSR- SUPER SILT FENCE
- EARTH DIKE

PLAN
SCALE 1"=50'

		REVISED TYPE OF STORM DRAINAGE TO HDPE	
8-13-99	4-14-99	ADDED 1.02, REV. GRADING & SD ALIGNMENT	
DATE	NO.	REVISION	
BY THE DEVELOPER :			
I/WE 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 THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I SHALL ENGAGE A REGISTERED PROFESSIONAL ENGINEER TO SUPERVISE POND CONSTRUCTION AND PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN "AS-BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT.			
<i>Melba D. Gould</i>		5/14/96	DATE
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 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/SHE MUST ENGAGE A REGISTERED PROFESSIONAL ENGINEER TO SUPERVISE POND CONSTRUCTION AND PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN "AS-BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION.			
<i>J. Parekh</i>		5.16.96	DATE
THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL.			
<i>J.G. Wapell, Inc.</i>		5/14/96	DATE
NATURAL RESOURCES CONSERVATION SERVICE			
THESE PLANS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.			
<i>Shelley S. ...</i>		5/2/96	DATE
HOWARD SOIL CONSERVATION DISTRICT			
AS BUILT CERTIFICATE			
DATE			
APPROVED : HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.			
<i>Andrew M. Davelle</i>		6-3-96	DATE
CHIEF, BUREAU OF HIGHWAYS			
APPROVED : HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.			
<i>Jina ...</i>		6/11/96	DATE
CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH			
<i>Chris ...</i>		5-5-96	DATE
CHIEF, DEVELOPMENT ENGINEERING DIVISION			
2-12-99 REV. LANGFORD COURT & GALWAY DR. GRADING			
8-22-96 CHANGED FROM CONTOURS 202 - 420 NORTH OF WETLANDS TO EXISTING			
DATE	NO.	REVISION	
OWNER / DEVELOPER			
WILBEN LIMITED PARTNERSHIP C/O ANDREW L. ISAACSON 5450 WHITELEY PARK TERRACE # 410 BETHESDA, MD 20814 301-530-1123			
PROJECT			
CLARKS GLEN SECTION 2 AREA 2			
AREA			
TAX MAP NO. 35 PARCEL 205 5th ELECTION DISTRICT HOWARD COUNTY, MARYLAND			
TITLE			
GRADING AND SEDIMENT CONTROL			
RIEMER MUEGGE & ASSOCIATES, INC. Planners • Engineers • Surveyors 8818 Centre Park Drive • Suite 200 • Columbia, MD 21045 410-997-8900 FAX : 410-997-9282			
5.16.96		DATE	
S-94-16, WP-94-31, P-94-25, F-95-83 & F-96-11.		DESIGNED BY : JTD	
		DRAWN BY : BLW	
		PROJECT NO : HOCO\93212A2 SHT4B.DWG	
		DATE : MAY 16, 1996	
		SCALE : AS SHOWN	
<i>J. Parekh</i>		DATE	
JAYKANT D. PAREKH #19148 DRAWING NO. 4 OF 9			



LEGEND

EARTH DIKE ———→
 LIMIT OF DISTURBANCE - - - - -

PLAN
 SCALE: 1" = 50'

SEDIMENT BASIN #2 (SWMF #2)

DRAINAGE AREA	25.7 AC
STORAGE REQUIRED	46,260 CF
STORAGE PROVIDED	46,382 CF @ 395.7
TOP OF BERM ELEV.	400.3
WEIR ELEV.	395.7 & 398.4
WEIR LENGTH	5' & 27.75'
CLEANOUT ELEV.	394.2
DEPTH	6.1'
SIDE SLOPES	2:1

BY THE DEVELOPER :

I/WE 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 THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I SHALL ENGAGE A REGISTERED PROFESSIONAL ENGINEER TO SUPERVISE POND CONSTRUCTION AND PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN "AS-BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT.

M. J. ... 5/14/96
 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/SHE MUST ENGAGE A REGISTERED PROFESSIONAL ENGINEER TO SUPERVISE POND CONSTRUCTION AND PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN "AS-BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION.

J. Sarekh 5.16.96
 ENGINEER DATE

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

J. Campbell Inc. 5/21/96
 NATURAL RESOURCES CONSERVATION SERVICE DATE

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

Shirley ... 5/21/96
 HOWARD SOIL CONSERVATION DISTRICT DATE

AS BUILT CERTIFICATE

DATE

APPROVED : HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.

Andrew M. ... 6-3-96
 CHIEF, BUREAU OF HIGHWAYS DATE

APPROVED : HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

Gina ... 6/11/96
 CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH DATE

M. ... 6/5/96
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

DATE	NO.	REVISION

OWNER / DEVELOPER
 WILBEN LIMITED PARTNERSHIP
 C/O ANDREW L. ISAACSON
 5450 WHITELY PARK TERRACE # 410
 BETHESDA, MD 20814
 301-530-1123

PROJECT
CLARKS GLEN SECTION 2 AREA 2

AREA
 TAX MAP NO. 35 PARCEL 205
 5th ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

TITLE
GRADING AND SEDIMENT CONTROL

RIEMER MUEGGE & ASSOCIATES, INC.
 Planners Engineers Surveyors
 8818 Centre Park Drive • Suite 200 • Columbia, MD 21045
 410-997-8900 FAX : 410-997-9282

5.16.96
 DATE

DESIGNED BY : JTD

DRAWN BY : BLW

PROJECT NO : HOCO\93212A2 SHTS.DWG

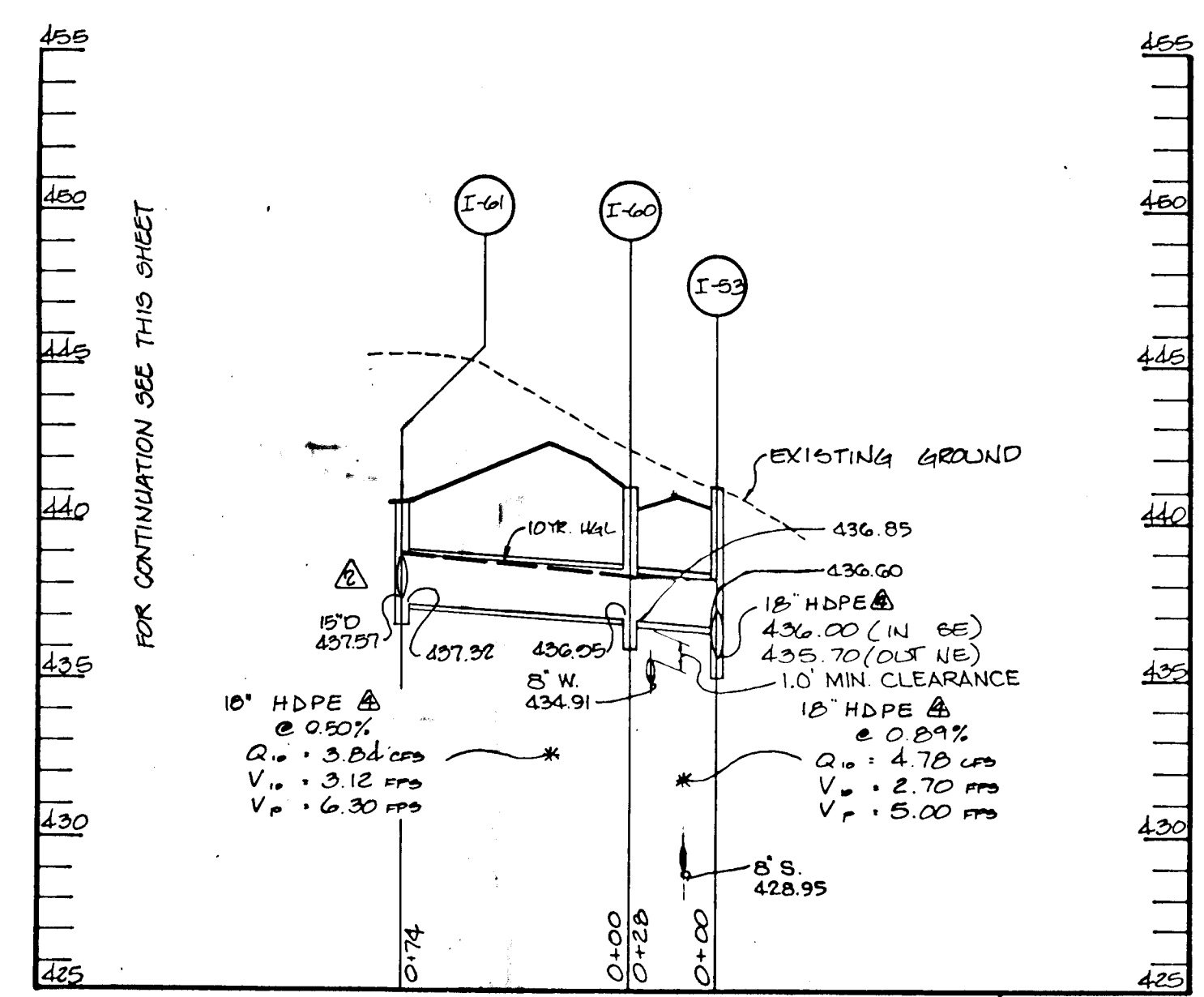
DATE : MAY 16, 1996

SCALE : AS SHOWN

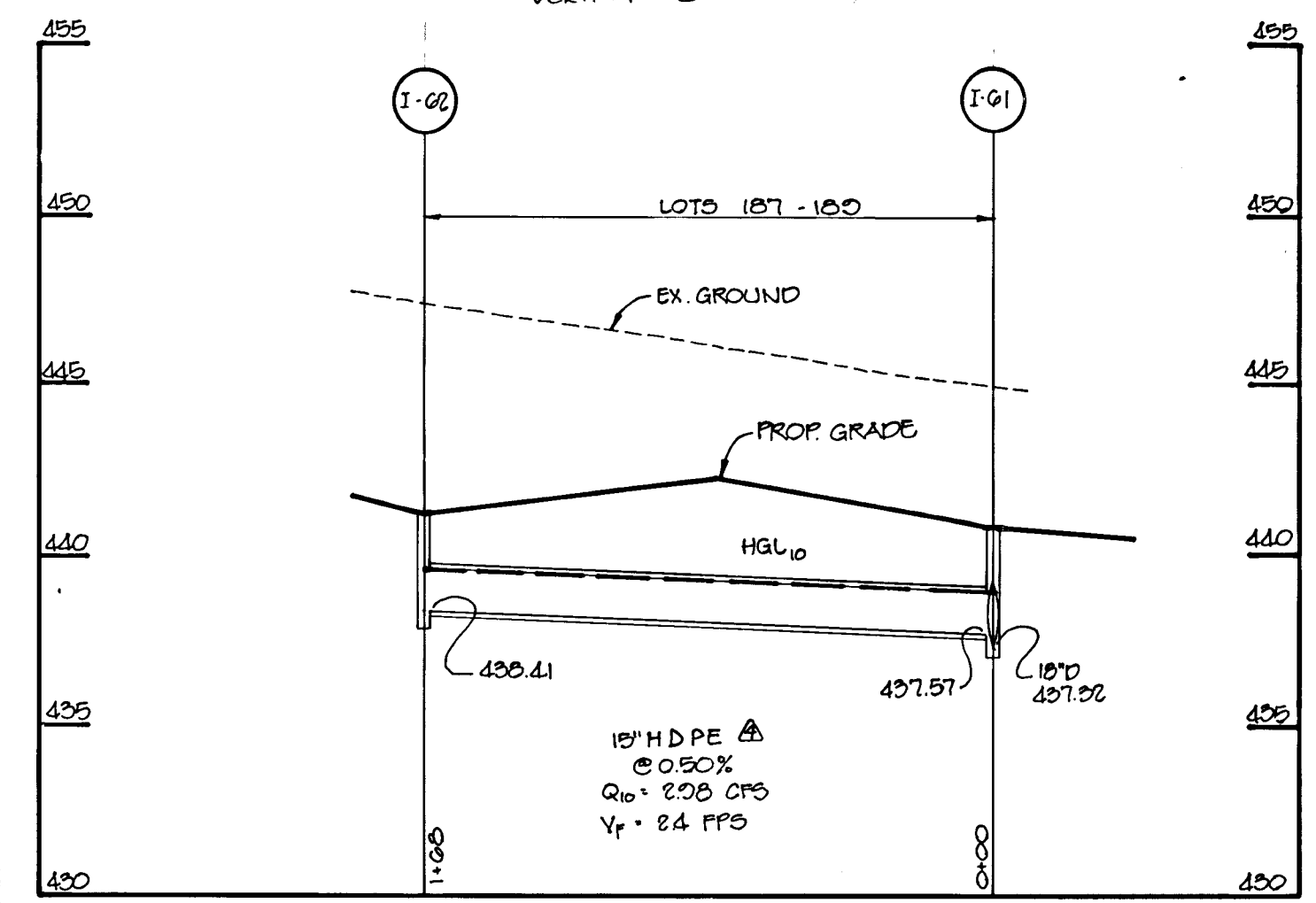
DRAWING NO. 5 OF 9

J. Sarekh
 JAYKANT D. PAREKH #19148

6867

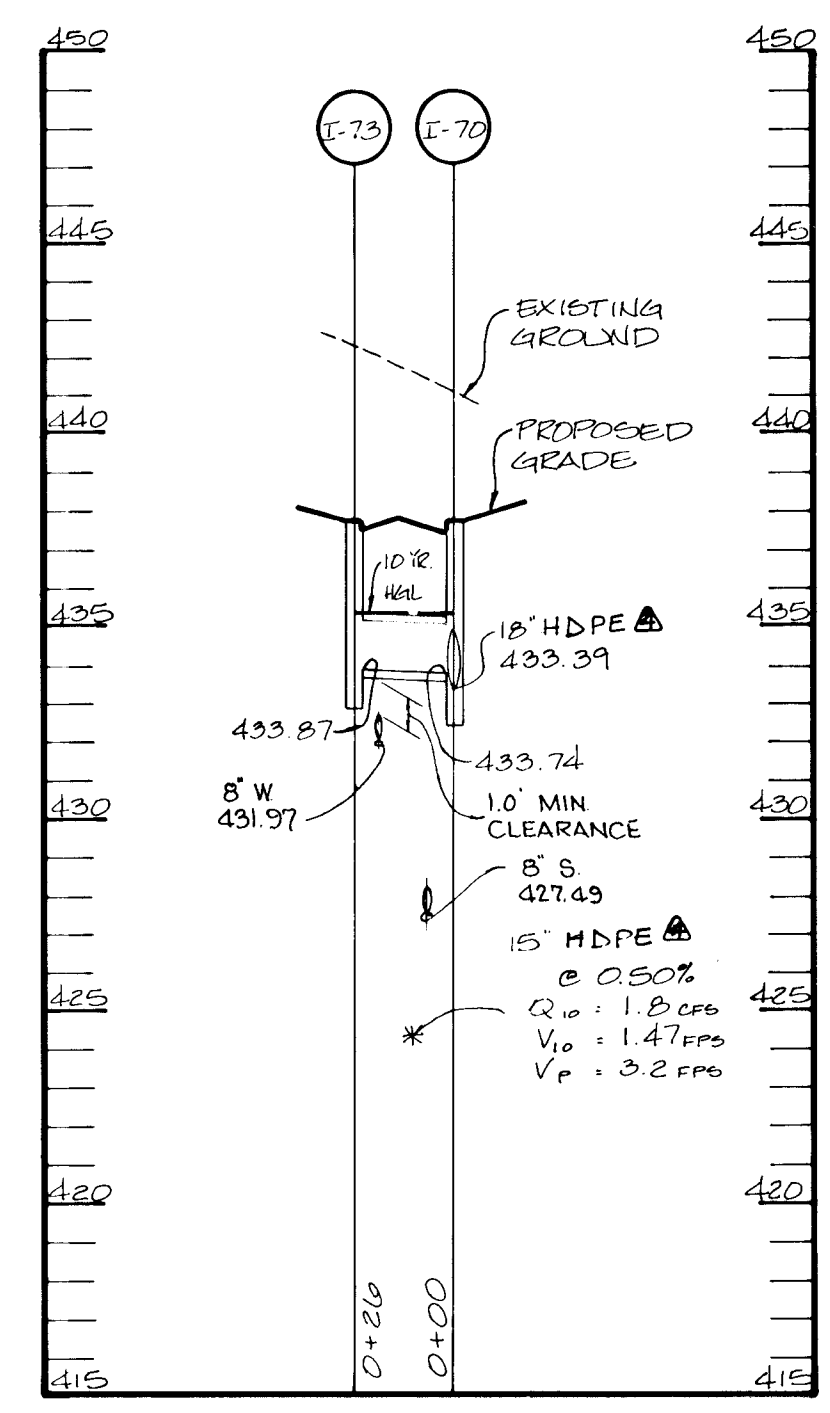


PROFILE
SCALE: HORIZ. 1" = 50'
VERT. 1" = 5'

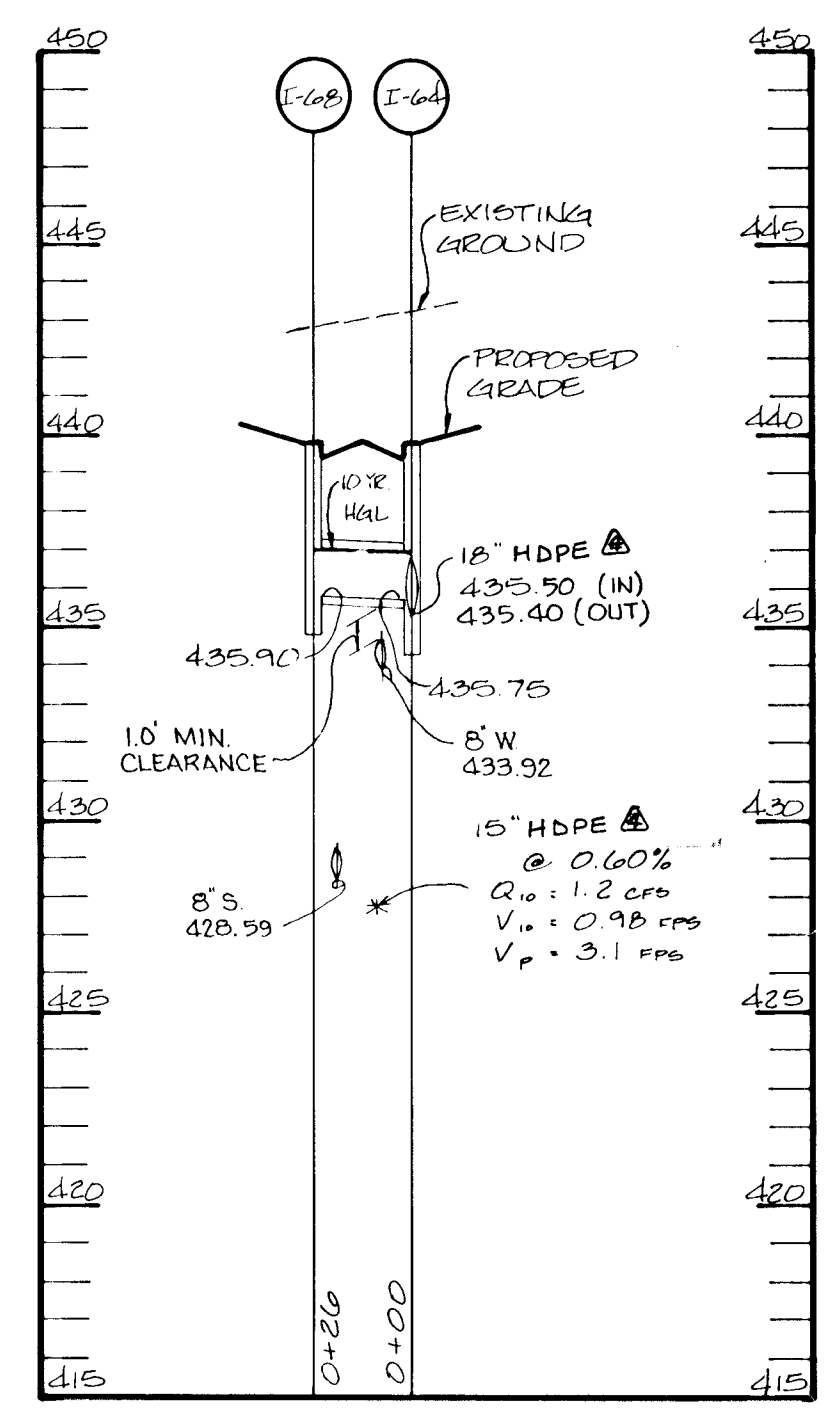


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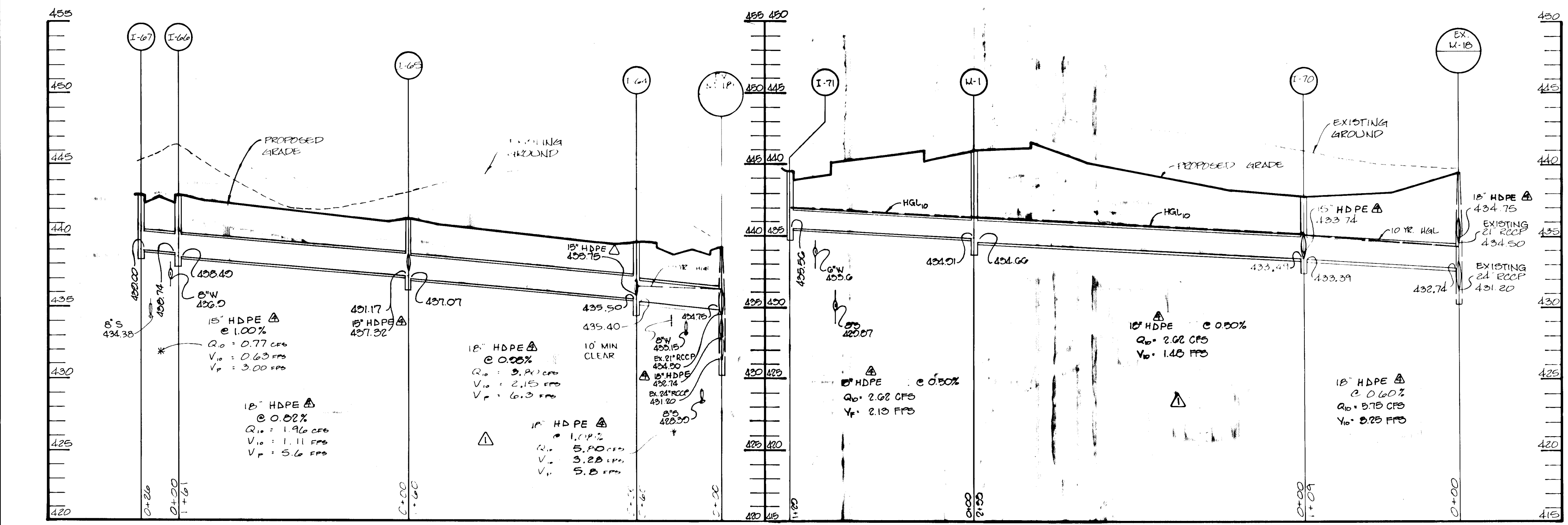
STRUCTURE NO.	TYPE	LOCATION	INV. IN	INV. OUT	TOP ELEV.	REMARKS
11-87	A-5	LANFORD CT. CL STA 0+40 12' RT	439.00	442.80	442.80	SEE HO. CO. STD. DETAIL SD 4.01
11-86	A-5	LANFORD CT. CL STA 3+45 12' LT	436.74	436.40	448.80	SEE HO. CO. STD. DETAIL SD 4.01
11-85	A-5	LANFORD CT. CL STA 3+54 12' LT	437.30	437.07	441.87	SEE HO. CO. STD. DETAIL SD 4.01
11-84	A-5	LANFORD CT. CL STA 0+44 12' LT	435.75	435.40	450.07	SEE HO. CO. STD. DETAIL SD 4.01
W-18	SHALLOW	DUBLIN DR. STA 12+78 16' RT	434.75	431.20	439.50	SEE HO. CO. STD. DETAIL SD 5.12
11-71	A-5	GALWAY DR. LP STA 2+05	435.56	435.00	435.00	SEE HO. CO. STD. DETAIL SD 4.01
11-70	A-5	GALWAY DR. CL STA 13+87 12' RT	435.16	433.39	437.72	SEE HO. CO. STD. DETAIL SD 4.01
11-69	A-5	LANFORD CT. CL STA 2+04 12' RT	437.45	441.27	441.27	SEE HO. CO. STD. DETAIL SD 4.01
W-1	4" MANHOLE	GALWAY DR. CL STA 11+40 40' LT	431.51	431.00	440.01	SEE HO. CO. STD. DETAIL SD 5.12
11-61	D-INLET	GALWAY DR. CL STA 11+40 40' LT	431.51	431.00	440.7	SEE HO. CO. STD. DETAIL SD 4.39
11-60	A-10	GALWAY DR. CL STA 12+30 12' LT	430.90	436.85	441.05	SEE HO. CO. STD. DETAIL SD 4.02
11-53	A-10	GALWAY DR. CL STA 12+30 12' RT	430.80	435.70	441.05	SEE HO. CO. STD. DETAIL SD 4.02
11-73	A-5	GALWAY DR. CL STA 13+87 12' LT	433.87	437.72	437.72	SEE HO. CO. STD. DETAIL SD 4.01
11-62	D-INLET	GALWAY DR. CL STA 11+40 40' LT	431.51	431.00	441.2	SEE HO. CO. STD. DETAIL SD 4.39
11-58	A-5	LANFORD CT. CL STA 0+48 12' RT	435.90	439.00	439.00	SEE HO. CO. STD. DETAIL SD 4.01



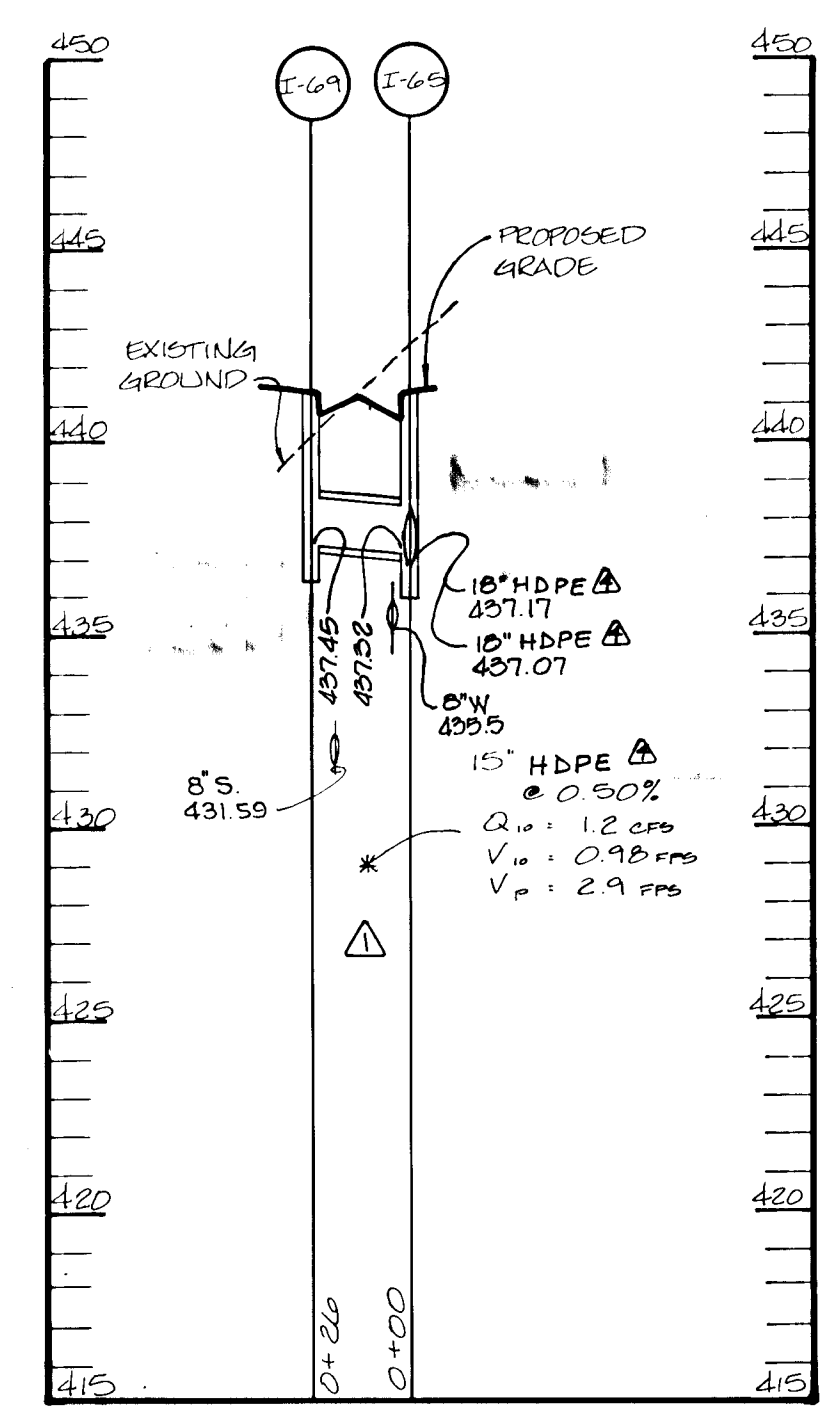
PROFILE
SCALE: HORIZ. 1" = 50'
VERT. 1" = 5'



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



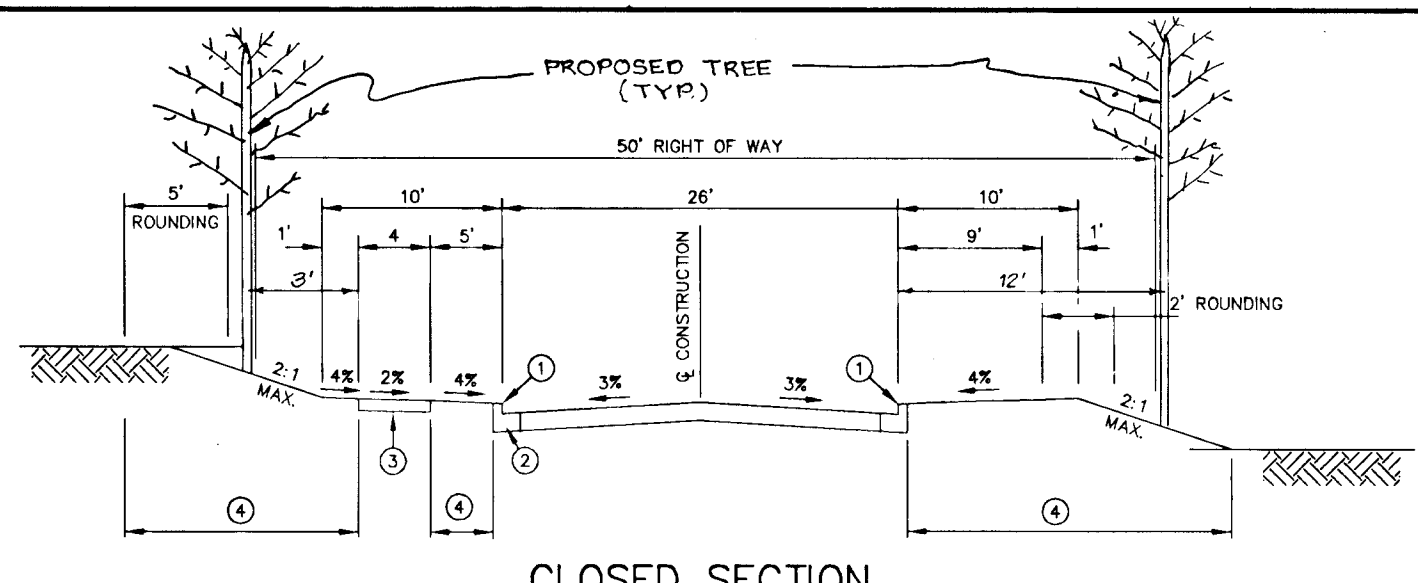
PROFILE
SCALE: HORIZ. 1" = 50'
VERT. 1" = 5'



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

8-13-99	REVISED TYPE OF STORM DRAINAGE TO HDPE
DATE	NO.
AS BUILT CERTIFICATE	
DATE	
APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS	
<i>Andrew M. Daniels</i>	6-3-96
Chief, Bureau of Highways	DATE
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING	
<i>Jim Summons</i>	6/11/96
CHIEF, DIVISION OF LAND DEVELOPMENT & RESEARCH	DATE
<i>John W. ...</i>	6/5/96
CHIEF, DEVELOPMENT ENGINEERING DIVISION	DATE
4-14-97	REV. SO PROFILES & STRUCTURE SCHEDULE
2-18-99	REV. SO PROFILES & STRUCTURE SCHEDULE
DATE	NO.
OWNER / DEVELOPER	
WILBEN LIMITED PARTNERSHIP C/O ANDREW L. ISAACSON 5450 WHITLEY PARK TERRACE # 410 BETHESDA, MD 20814 301-530-1123	
PROJECT	
CLARKS GLEN SECTION 2 AREA 2	
AREA	
TAX MAP 35 PARCEL 205 5TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND	
TITLE	
STORM DRAIN PROFILES	
RIEMER MUEGGE & ASSOCIATES, INC. Planners Engineers Surveyors 8818 Centre Park Drive - Suite 200 - Columbia, Maryland 21045 410-987-8800 FAX: 410-987-9282	
5-16-96	DATE
DESIGNED BY: A.A.P.	
DRAWN BY: C.M.	
PROJECT NO: 93212	
DATE: MAY 16, 1996	
SCALE: AS SHOWN	
<i>J. Larkh</i>	DATE
JAYKANT D. PAREKH # 19148	DRAWING NO. 6 OF 9

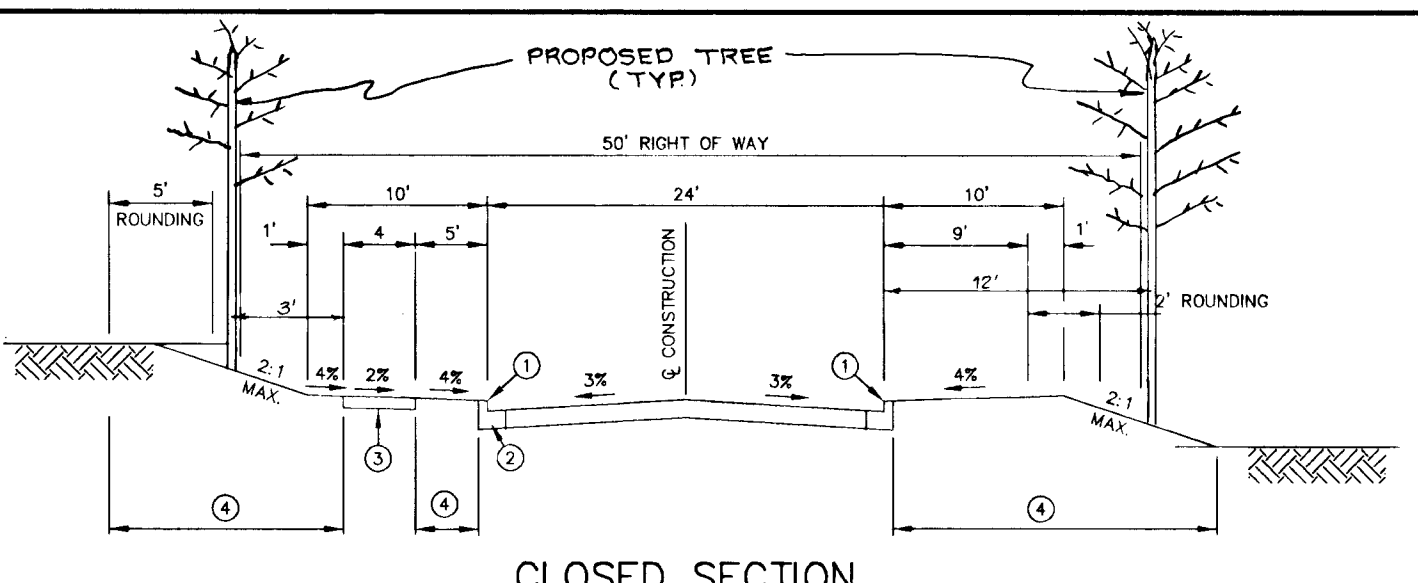
1739



- ① PROFILE GRADE LINE (PGL), SEE DESIGN MANUAL.
- ② MODIFIED COMBINATION CURB & GUTTER.
- ③ 4" CONCRETE SIDEWALK AS REQUIRED BY SUBDIVISION REGULATIONS.
- ④ INDICATES 2" TOPSOIL, SEED AND MULCH.

TYPICAL SECTION LOCAL ROAD
NO SCALE

GALWAY DRIVE
CL STA 11+35.19 TO CL STA 12+85.82



- ① PROFILE GRADE LINE (PGL), SEE DESIGN MANUAL.
- ② MODIFIED COMBINATION CURB & GUTTER.
- ③ 4" CONCRETE SIDEWALK AS REQUIRED BY SUBDIVISION REGULATIONS.
- ④ INDICATES 2" TOPSOIL, SEED AND MULCH.

TYPICAL SECTION CUL-DE-SAC
NO SCALE

GALWAY DRIVE
CL STA 12+86.92 TO CL STA 15+22.31

LANGFORD COURT
CL STA 34+30.00 TO CL STA 34+10.62

TEMPORARY SEEDING NOTES

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

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

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

Seeding: For periods March 1 thru April 30 and from August 15 thru November 15, seed with 2-1/2 bushels per acre of ryegrass (3.2 lbs. per 1000 sq.ft.). For the period May 1 thru August 14, seed with 3 lbs. per acre of seeding mixture (10.7 lbs. per 1000 sq.ft.). For the period November 16 thru February 28, protect site by applying 2 tons per acre of well-anchored straw mulch and seed as soon as possible in the spring, or use sod.

Mulching: Apply 1-1/2 to 2 tons per acre (70 to 90 lbs. per 1000 sq.ft.) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gal. per acre (5 gal. per 1000 sq.ft.) of emulsified asphalt on flat areas. On slopes, 8 ft. or higher, use 347 gal. per acre (8 gal. per 1000 sq.ft.) for anchoring.

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

PERMANENT SEEDING NOTES

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

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

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

- 1) Preferred - Apply 2 tons per acre dolomitic limestone (92 lbs. per 1000 sq.ft.) and 600 lbs. per acre 10-10-10 fertilizer (14 lbs. per 1000 sq.ft.) before seeding. Harrow or disc under three inches of soil. At time of seeding, apply 400 lbs. per acre 30-0-0 ureiform fertilizer (8 lbs. per 1000 sq.ft.).
- 2) Acceptable - Apply 2 tons per acre dolomitic limestone (92 lbs. per 1000 sq.ft.) and 1000 lbs. per acre 10-10-10 fertilizer (23 lbs. per 1000 sq.ft.) before seeding. Harrow or disc into upper three inches of soil.

Seeding: For the period March 1 thru April 30 and from August 15 thru October 15, seed with 80 lbs. per acre (1.4 lbs. per 1000 sq.ft.) of Kentucky 31 Tall Fescue. For the period May 1 thru July 31, seed with 60 lbs. Kentucky 31 Tall Fescue per acre and 2 lbs. per acre (0.05 lbs. per 1000 sq.ft.) of seeding mixture. During the period October 16 thru February 28, protect site by one of the following options:

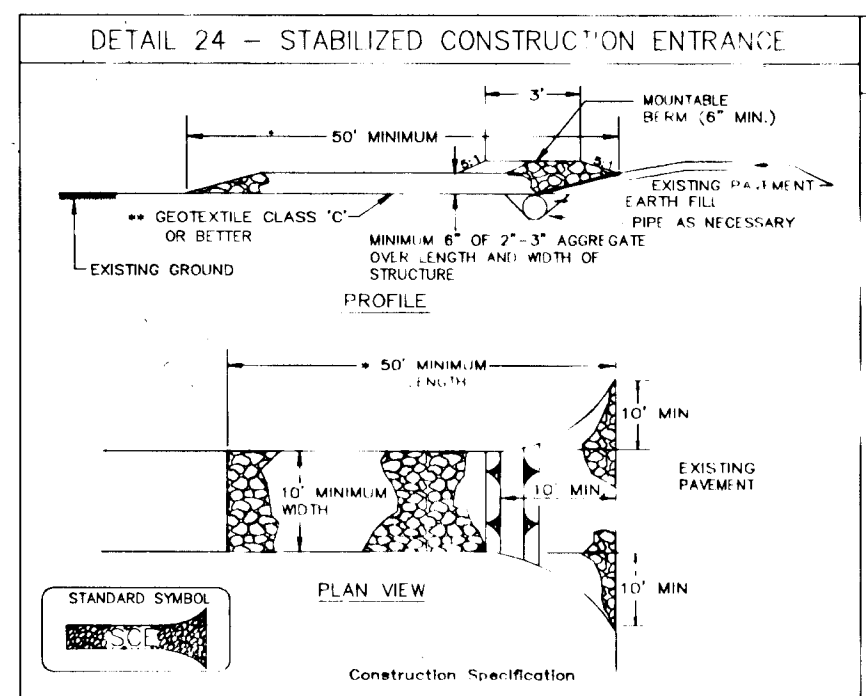
- 1) 2 tons per acre of well-anchored mulch straw and seed as soon as possible in the spring.
- 2) Use sod.
- 3) Seed with 60 lbs. per acre Kentucky 31 Tall Fescue and mulch with 2 tons per acre well anchored straw.

Mulching: Apply 1-1/2 to 2 tons per acre (70 to 90 lbs. per 1000 sq.ft.) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gal. per acre (5 gal. per 1000 sq.ft.) of emulsified asphalt on flat areas. On slopes, 8 ft. or higher, use 347 gal. per acre (8 gal. per 1000 sq.ft.) for anchoring.

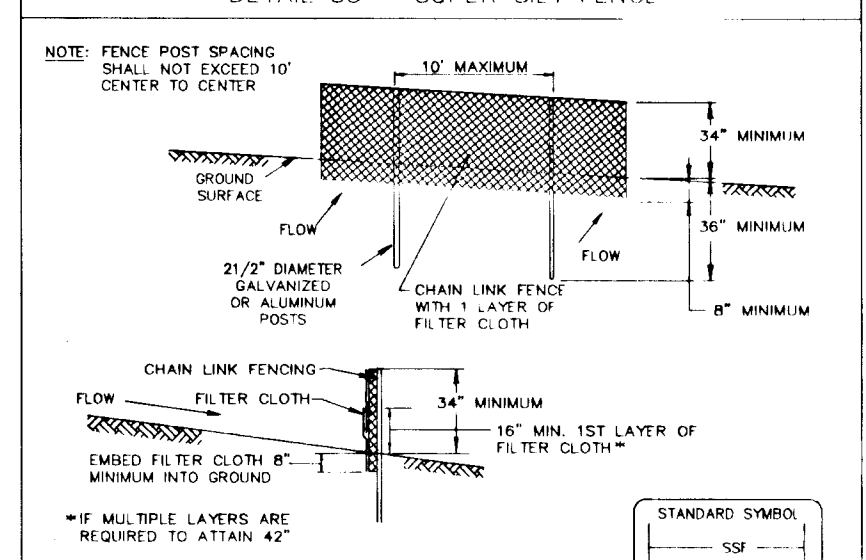
Maintenance: Inspect all seeded areas and make needed reeds, reseedings and reseeding.

SEDIMENT CONTROL NOTES

1. A MINIMUM OF 48 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY DEPARTMENT OF INSPECTIONS AND PERMITS PRIOR TO THE START OF ANY CONSTRUCTION (313-1855).
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 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL AND EROSION CONTROL, AND REVISIONS THERE TO.
3. FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTRIBUTION, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN: A) 7 CALENDAR DAYS FOR ALL PERMITS UNDER THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL AND EROSION CONTROL, AND REVISIONS THERE TO. ALL SLOPES AND ALL SLOPES GREATER THAN 3:1, B) 14 DAYS AS TO OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.
4. ALL SEDIMENT TRAPS/BASINS SHOWN MUST BE FENCED AND WARNING SIGNS POSTED AROUND THE 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 1991 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL AND EROSION CONTROL, FOR PERMANENT SEEDINGS (SEC. 501, 502 (SEC. 54), TEMPORARY SEEDING (SEC. 501) AND MULCHING (SEC. 52). TEMPORARY STABILIZATION WITH MULCH OR ALGAE 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 PERMITS FOR THEIR REMOVAL HAS BEEN OBTAINED FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
7. SITE ANALYSIS:
 - 18.956 ACRES AREA DISTURBED
 - 2.8 ACRES AREA TO BE ROOFED OR PAVED
 - 16.4 ACRES AREA TO BE VEGETATIVELY STABILIZED
 - 40.0 ACRES TOTAL CUT
 - 40.0 ACRES TOTAL FILL
 - WASTE/DUMPING AREA OPEN SPACE 127.00 (SHT 4 or 5)
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 SEDIMENT CONTROL INSPECTOR.
10. SITE GRADING WILL BE 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 CLEAN OUT ELEVATION SHOWN ON THE PLANS.
12. CUT AND FILL QUANTITIES PROVIDED UNDER SITE ANALYSIS DO NOT REPRESENT BID QUANTITIES. THESE QUANTITIES DO NOT DISTINGUISH BETWEEN TOPSOIL, STRUCTURAL FILL OR DRAINAGE MATERIAL, NOR DO THEY REFLECT CONSIDERATION OF UNDERCUTTING OR REMOVAL OF UNSATURATED MATERIAL. THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH SITE CONDITIONS WHICH MAY AFFECT THE WORK.
13. ON ALL SITES WITH DISTURBED AREAS IN EXCESS OF 2 AC., APPROVAL OF THE INSPECTION AGENCY SHALL BE REQUESTED UPON COMPLETION OF INSTALLATION OF PERIMETER EROSION AND SEDIMENT CONTROLS, BUT BEFORE PROCEEDING WITH ANY OTHER EARTH DISTURBANCE OR GRADING. OTHER BUILDING OR GRADING INSPECTION APPROVALS MAY NOT BE AUTHORIZED UNTIL THIS INITIAL APPROVAL BY THE INSPECTION AGENCY IS MADE.
14. TRENCHES FOR THE CONSTRUCTION OF UTILITIES IS LIMITED TO THREE PIPE LENGTHS OR THAT WHICH CAN BE BACKFILLED AND STABILIZED WITHIN ONE WORKING DAY, WHICHEVER IS SHORTER.



- Construction Specifications:**
1. Length - minimum of 50' (40' for slope existence lot).
 2. Width - 10' minimum, should be based on the existing road to provide turning radius.
 3. Geotextile fabric (filter cloth) shall be placed over the existing ground prior to placing stone. An approved authority may not require single family residences to use geotextile.
 4. Stone - crushed aggregate (2" to 3") or reclaimed or recycled concrete equipment shall be placed at least 6" deep over the length and width of the entrance.
 5. Surface Water - all surface water flowing to or diverted toward construction entrances shall be placed through the entrance, maintaining positive drainage. Pipe installed through the stabilized construction entrance shall be protected with a minimum of 5:1 slope and a minimum of 6" of stone over the pipe. Pipe shall be placed according to the drainage. When the S.C.E. is located on a high spot, it has no drainage to convey a pipe will not be necessary. Pipe should be sized according to the amount of runoff to be conveyed. A 6" minimum will be required.
 6. Location - A stabilized construction entrance shall be located at every point where construction traffic enters or leaves a construction site. Vehicles leaving the site must travel over the entire length of the stabilized construction entrance.
- U.S. DEPARTMENT OF AGRICULTURE, MARYLAND DEPARTMENT OF ENVIRONMENT AND WATER MANAGEMENT ADMINISTRATION



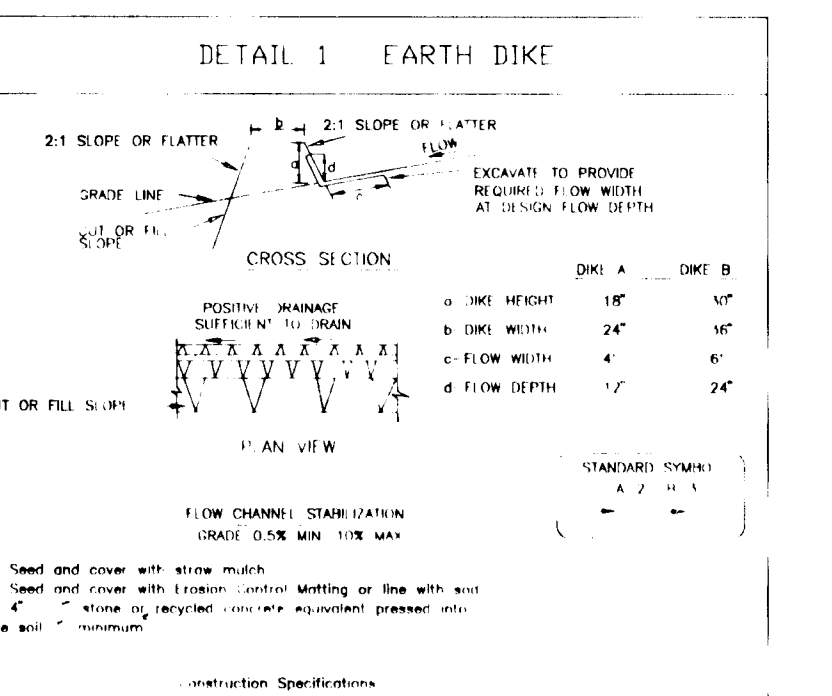
- Construction Specifications:**
1. Fencing shall be 42" in height and constructed in accordance with the design shown on this plan and shall be in conformance with the specification for a 6' fence shall be used substituting 42" fabric and 8' height posts.
 2. Chain link fence shall be fastened securely to the fence posts with wire ties. The lower tension wire, brace and frame rods, drive anchors and steel caps are not required except on the ends of the fence.
 3. Filter cloth shall be fastened securely to the chain link fence with ties spaced every 24" at the top and mid section.
 4. Filter cloth shall be embedded a minimum of 6" into the ground.
 5. When two sections of filter cloth abut each other, they shall be overlapped by 6" and fasted.
 6. Maintenance shall be performed as needed and all bulges removed when "bulges" develop in the filter fabric, or when soil accumulates in front of the fence.
 7. Filter cloth shall be fastened securely to each fence post with wire ties at top and mid section and shall meet the following requirements for Geotextile Cloth:

Tensile Strength	50 lbs/ft (min.)	Test: MSMT 508
Tensile Width	20 lbs/ft (min.)	Test: MSMT 508
Flow Rate	0.5 gal/ft/min (max.)	Test: MSMT 322
Filtration Efficiency	75% (min.)	Test: MSMT 322
- U.S. DEPARTMENT OF AGRICULTURE, MARYLAND DEPARTMENT OF ENVIRONMENT AND WATER MANAGEMENT ADMINISTRATION

Design Criteria

Slope	Slope Steepness	Slope Length (Minimum)	Silt Fence Length (Maximum)
0 - 10%	0 - 10	Unlimited	Unlimited
10 - 20%	10 - 5:1	200 feet	1,500 feet
20 - 33%	5:1 - 3:1	100 feet	1,000 feet
33 - 50%	3:1 - 2:1	100 feet	500 feet
50%	2:1 - 1:1	50 feet	250 feet

U.S. DEPARTMENT OF AGRICULTURE, MARYLAND DEPARTMENT OF ENVIRONMENT AND WATER MANAGEMENT ADMINISTRATION

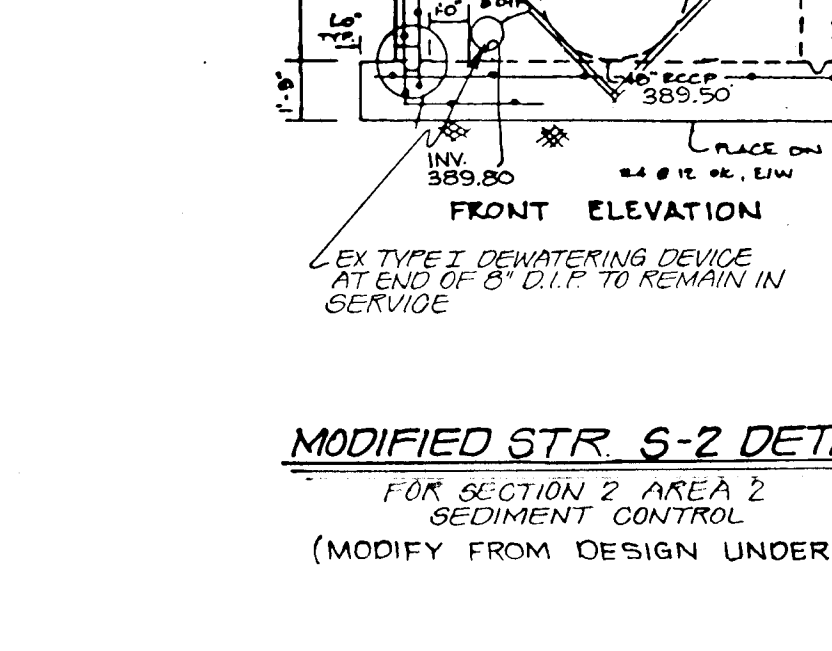


- Construction Specifications:**
1. Seed and cover with straw mulch.
 2. Seed and cover with erosion control matting or straw with a 4" topsoil layer. Erosion control matting or straw should be placed on the soil.
 3. Inspect dike from a disturbed area that will be required to a sediment trapping device.
 4. Inspect dike from a disturbed area that will be required to a sediment trapping device.
 5. The dike shall be maintained in shape to line grade and cross section as required to meet the criteria specified herein and be free of back positions to other impurities which will impede runoff flow.
 6. Dike shall be completed by earth moving equipment.
 7. All work removed and not needed for construction shall be placed so that it will not interfere with the functioning of the dike.
 8. Inspection and maintenance must be provided periodically and after each rain event.
- U.S. DEPARTMENT OF AGRICULTURE, MARYLAND DEPARTMENT OF ENVIRONMENT AND WATER MANAGEMENT ADMINISTRATION



- Construction Specifications:**
1. Fencing shall be 42" in height and constructed in accordance with the design shown on this plan and shall be in conformance with the specification for a 6' fence shall be used substituting 42" fabric and 8' height posts.
 2. Chain link fence shall be fastened securely to the fence posts with wire ties. The lower tension wire, brace and frame rods, drive anchors and steel caps are not required except on the ends of the fence.
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 6. Maintenance shall be performed as needed and all bulges removed when "bulges" develop in the filter fabric, or when soil accumulates in front of the fence.
 7. Filter cloth shall be fastened securely to each fence post with wire ties at top and mid section and shall meet the following requirements for Geotextile Cloth:

Tensile Strength	50 lbs/ft (min.)	Test: MSMT 508
Tensile Width	20 lbs/ft (min.)	Test: MSMT 508
Flow Rate	0.5 gal/ft/min (max.)	Test: MSMT 322
Filtration Efficiency	75% (min.)	Test: MSMT 322
- U.S. DEPARTMENT OF AGRICULTURE, MARYLAND DEPARTMENT OF ENVIRONMENT AND WATER MANAGEMENT ADMINISTRATION



MODIFIED STR. S-2 DETAIL
FOR SECTION 2 AREA 2
SEDIMENT CONTROL
(MODIFY FROM DESIGN UNDER F-96-48)

CLARKS GLEN SECTION 2 AREA 2 SEQUENCE OF CONSTRUCTION

1. SECTION 1, AREA 1, SECTION 1, AREA 2, AND SECTION 2, AREA 1 ARE TO BE COMPLETED AND STABILIZED BEFORE CONSTRUCTION BEGINS.
2. ALL EXISTING SEDIMENT CONTROL MEASURES (TRAPS, BASINS, EARTHDIKES, ETC.) ARE TO BE REFURBISHED TO ORIGINAL DESIGN SPECIFICATIONS.
3. OBTAIN A GRADING PERMIT AND OTHER NECESSARY PERMITS PRIOR TO BEGINNING OF CONSTRUCTION. ALL WORK SHALL CONFIRM TO THE 1991 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
4. INSTALL STABILIZED CONSTRUCTION ENTRANCE (1 DAY).
5. MAKE ALL MODIFICATIONS TO STRUCTURE S-2 (S.W.M.F. #2) AS SPECIFIED ON SHEET 7 OF 8 TO PROVIDE SEDIMENT CONTROL AND TEMPORARY STORMWATER MANAGEMENT FOR SECTION 2, AREA 2. (1 WEEK).
6. INSTALL PERIMETER CONTROLS, TREE PROTECTIVE FENCING AND SUPER SILT FENCE (1 WEEK).
7. CLEAR AND GRUB SITE AND BEGIN ROUGH GRADING. CONTRACTOR TO GRADE SO TO MAINTAIN THE LARGEST AREA AS POSSIBLE DRAINING TO THE SEDIMENT BASIN (8 WEEKS).
8. AS ROAD SUBGRADES ARE ESTABLISHED, INSTALL SEWER, WATER, REMAINING STORM DRAINS AND OTHER UTILITIES. ALL STORM DRAINS WILL CARRY SEDIMENT LADEN WATER TO ONE OF THE TWO SEDIMENT BASINS. THUS NO INLET PROTECTION IS TO BE USED (8 WEEKS).
9. INSTALL CURB AND GUTTER AND PAVE ROADWAYS. (8 WEEKS)
10. COMPLETE ROUGH GRADING (2 WEEKS)
11. STABILIZE DISTURBED AREAS AS REQUIRED. (1 WEEK)
12. THOROUGHLY CLEAN AND FLUSH STORM DRAIN SYSTEM. (1 WEEK)
13. UPON APPROVAL OF THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR, REMOVE REMAINING SEDIMENT CONTROLS. COMPLETE FINAL CONSTRUCTION OF STRUCTURE S-2.
14. FINE GRADE REMAINING AREAS AND STABILIZE WITH PERMANENT SEEDING (2 WEEKS)
15. INSTALL STREET LIGHTS, LANDSCAPING AND SIGNS (4 WEEKS)

BY THE DEVELOPER:

Mohamed Elmaghrabi 5/14/96
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/SHE MUST ENGAGE A REGISTERED PROFESSIONAL ENGINEER TO SUPERVISE POND CONSTRUCTION AND PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN "AS-BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION.

J. Saell 5.16.96
ENGINEER DATE

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

J.G. Wapell/G.S. 5/2/96
NATURAL RESOURCES CONSERVATION SERVICE DATE

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

Jeffrey Selig 5/2/96
HOWARD SOIL CONSERVATION DISTRICT DATE

AS BUILT CERTIFICATE

DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.

Andrew M. Duerbe 6-3-96
CHIEF, BUREAU OF HIGHWAYS DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

Gina Summery 6/11/96
CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH DATE

Mark Dammann 6/5/96
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

OWNER / DEVELOPER

WILBEN LIMITED PARTNERSHIP
C/O ANDREW L. ISAACSON
5450 WHITELEY PARK
TERRACE # 410
BETHESDA, MD 20814
301-530-1123

PROJECT

CLARKS GLEN SECTION 2 AREA 2

AREA TAX MAP NO. 35 PARCEL 205
5TH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

TITLE

SEDIMENT CONTROL NOTES AND DETAILS

RIEMER MUEGGE & ASSOCIATES, INC.
Planners • Engineers • Surveyors
8818 Centre Park Drive • Suite 200 • Columbia, MD 21045
410-997-6900 FAX: 410-997-9282

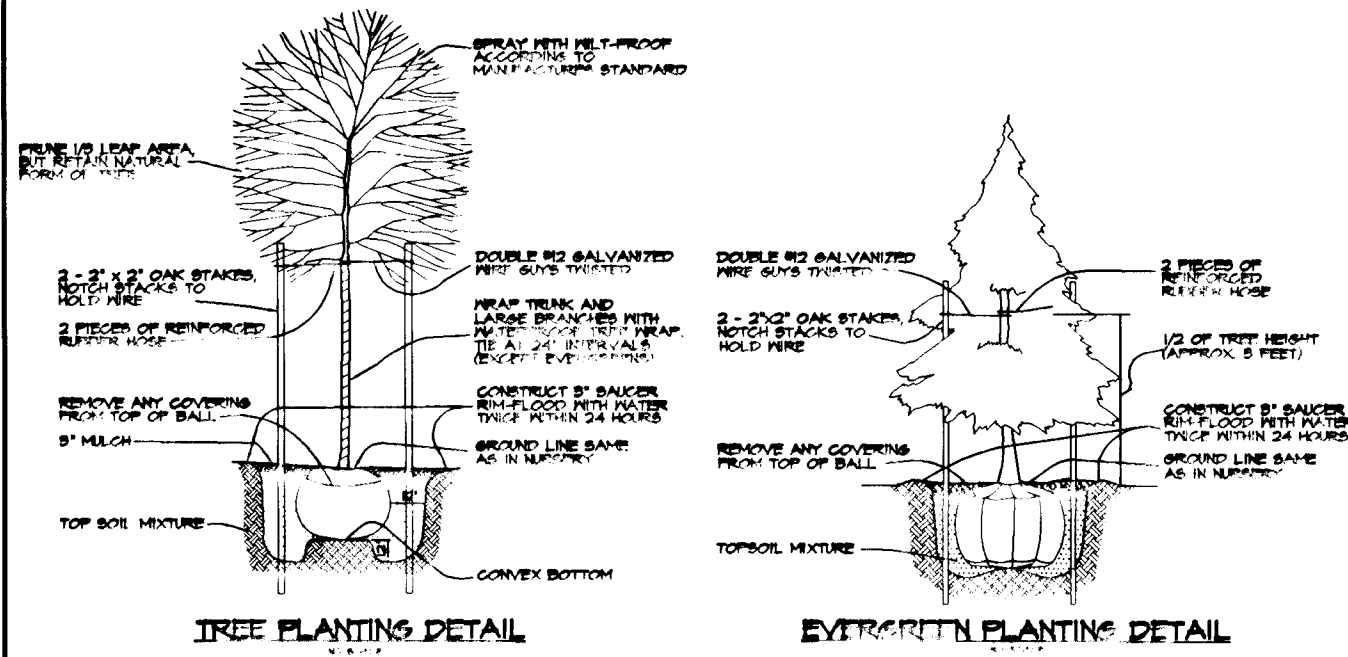
5.16.96 DATE

DESIGNED BY: JTD
DRAWN BY: JTD
PROJECT NO.: 93212
DATE: MAY 16, 1996
SCALE: AS SHOWN
DRAWING NO. 7 OF 9

J. Saell
JAYKANT D. PAREKH #19148

1739

M:\PROJECTS\LANDSCAPE\93210\93210.DWG 11/14/96 11:38 AM



PLANT MATERIAL LIST

KEY	QTY	BOTANICAL - COMMON NAME	SIZE	REMARKS
TREES				
AR	4	Acer rubrum October Glory	24"-30"cal	B & B
LS	4	October Glory Red Maple	24"-30"cal	B & B
LT	4	Liquidambar styraciflua Sweet Gum	24"-30"cal	B & B
PA	4	Liquidambar styraciflua Sweet Gum	24"-30"cal	B & B
PS	8	Pinus strobus White Pine	6"-8" H	B & B

PERIMETER LANDSCAPE EDGE

PERIMETER	RELATIVE TO ROADWAY				RELATIVE TO PROPERTY PERIMETER			
	B	A	10	14	10*	14	18	22
LANDSCAPE TYPE	B	A	A	A	E	A	B	A
AVERAGE FEET OF ROADWAY FRONTAGE PER TREE	400	300	300	300	400	250	400	250
CREDIT FOR EXISTING VEGETATION (YES OR NO) LINEAR FEET	NO	NO	NO	NO	NO	NO	NO	NO
REDUCE DENSITY IF JUSTIFIED	NO	NO	NO	NO	NO	NO	NO	NO
NUMBER OF PLANTS PROVIDED	0/0/4	4	0	0/0	0/0/4	0/0/4	0/0/4	0/0/4
SHADE TREES	0/0/4	4	0	0/0	0/0/4	0/0/4	0/0/4	0/0/4
SMALL PLANTING TREES	0/0/4	4	0	0/0	0/0/4	0/0/4	0/0/4	0/0/4

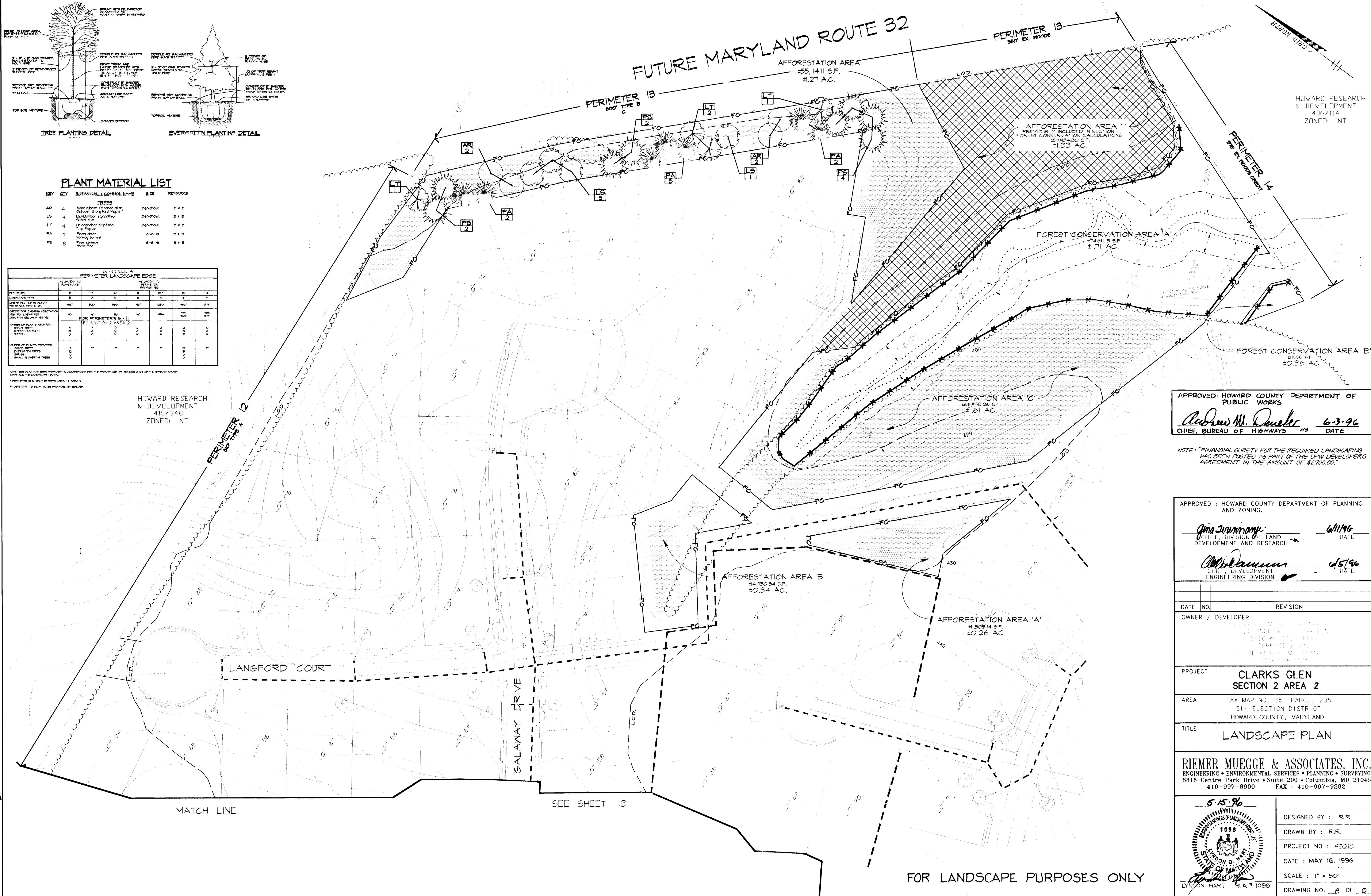
NOTE: THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE PROVISIONS OF SECTION 18.24 OF THE HOWARD COUNTY CODE AND THE LANDSCAPE STANDARDS.

* PERIMETER 12 IS SPLIT BETWEEN AREA 1 & AREA 2

** DEPENDENT TO S.D.P. TO BE PROVIDED BY BUILDER

HOWARD RESEARCH & DEVELOPMENT
410/348
ZONED: NT

FUTURE MARYLAND ROUTE 32



HOWARD RESEARCH & DEVELOPMENT
406/114
ZONED: NT

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

Andrew M. Queller 6-3-96
CHIEF, BUREAU OF HIGHWAYS HS DATE

NOTE: FINANCIAL SURETY FOR THE REQUIRED LANDSCAPING HAS BEEN POSTED AS PART OF THE DPW DEVELOPER'S AGREEMENT IN THE AMOUNT OF \$2700.00.

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

Anna J. Johnson 6/11/96
CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH DATE

Chad Dammann 6/5/96
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

DATE	NO.	REVISION

OWNER / DEVELOPER

PROJECT: **CLARKS GLEN SECTION 2 AREA 2**

AREA: TAX MAP NO. 35 PARCEL 205
5th ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

TITLE: **LANDSCAPE PLAN**

RIEMER MUEGGE & ASSOCIATES, INC.
ENGINEERING • ENVIRONMENTAL SERVICES • PLANNING • SURVEYING
8818 Centre Park Drive • Suite 200 • Columbia, MD 21045
410-997-8900 FAX: 410-997-9282

5-15-96

DESIGNED BY: R.R.
DRAWN BY: R.R.
PROJECT NO: 93210
DATE: MAY 16, 1996
SCALE: 1" = 50'
DRAWING NO. 8 OF 8

1739

FOR LANDSCAPE PURPOSES ONLY

**DRAINAGE AREA #1
(SEDIMENT BASIN #1)**

SECTION 2 AREA 1

11.5 Ac. STABILIZED/DEVELOPED (1A) & (1C)
 11.8 Ac. UNSTABILIZED/DISTURBED (1B)
 23.3 Ac. TOTAL

SECTION 2 AREA 2

ALL AREAS ROUTED WILL BE STABILIZED.
 SEDIMENT BASIN #1 BUILT TO FINAL
 STORMWATER MANAGEMENT SPECIFICATIONS
 UNDER F-96-11.

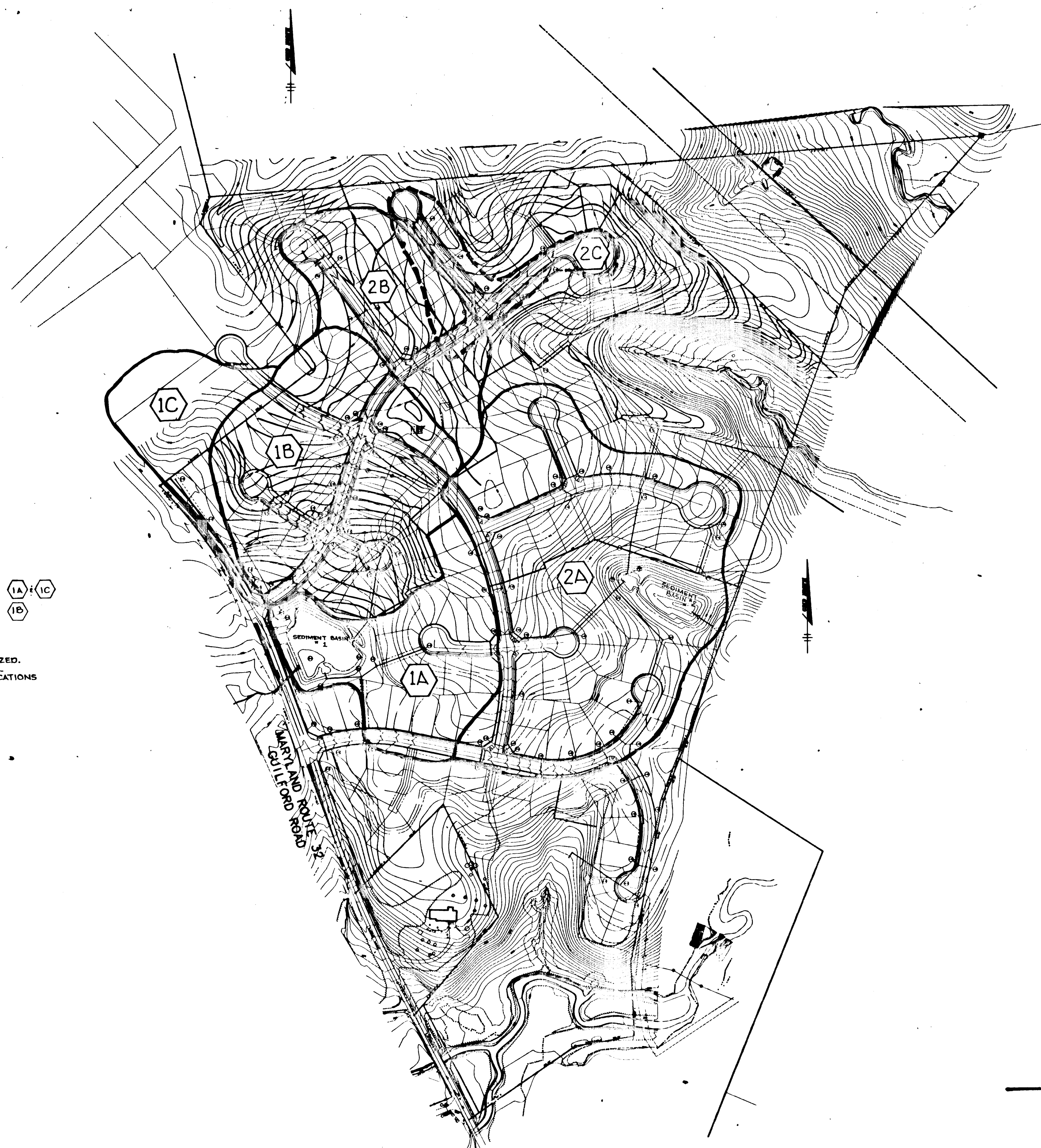
**DRAINAGE AREA #2
(SEDIMENT BASIN #2)**

SECTION 2 AREA 1

18.5 Ac. STABILIZED/DEVELOPED (2A)
 5.8 Ac. UNSTABILIZED/DISTURBED (2B)
 24.3 Ac. TOTAL

SECTION 2 AREA 2

22.3 Ac. STABILIZED/DEVELOPED (2A) & (2B)
 3.4 Ac. UNSTABILIZED/DISTURBED (2C)
 25.7 Ac. TOTAL



LEGEND

--- & --- DRAINAGE AREA DIVIDES
 (2A) DRAINAGE AREA DESIGNATOR

PLAN
 SCALE: 1" = 200'

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
Andrew M. Daniels 6-3-96
 CHIEF, BUREAU OF HIGHWAYS DATE
 APPROVED HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
Anna Summanna 6/1/96
 CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH DATE
Chris Damann 6/5/96
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

DATE	NO.	REVISION

OWNER / DEVELOPER
 WILBEN LIMITED PARTNERSHIP
 C/O ANDREW L. ISAACSON
 5450 WHITELY PARK
 TERRACE # 410
 BETHESDA, MD 20814
 301-530-1123

PROJECT
**CLARKS GLEN
 SECTION 2 AREA 1 & 2**

AREA
 TAX MAP NO. 35 PARCEL 205
 5th ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

TITLE
**TEMPORARY STORMWATER
 MANAGEMENT DRAINAGE AREA
 AND PHASING MAP**

RIEMER MUEGGE & ASSOCIATES, INC.
 Planners • Engineers • Surveyors
 8818 Centre Park Drive • Suite 200 • Columbia, MD 21045
 410-997-8900 FAX : 410-997-9282

5-16-96
 DATE
 DESIGNED BY : J.T.D.
 DRAWN BY : J.T.D./R.J.C.
 PROJECT NO : HOCO\93212
 DAMAP.DWG
 DATE : MAY 16, 1995
 SCALE : AS SHOWN
 DRAWING NO. 9 OF 9
J. Sarekh
 JAYKANT D. PAREKH #19145

1739