

SHEET INDEX	
NO.	DESCRIPTION
1	TITLE SHEET
2	PLAN AND PROFILE OF WOODED WAY FROM STA. 14+16.19 TO STA. 94+55.00
3	PLAN AND PROFILE OF WOODED WAY FROM STA. 94+55.00 TO STA. 20+06.12
4	GRADING AND SEDIMENT CONTROL PLAN
5	GRADING AND SEDIMENT CONTROL PLAN
6	SEDIMENT CONTROL NOTES AND DETAILS
7	STORM DRAIN PROFILES
8	DRAINAGE AREA MAP

# WOODLOT

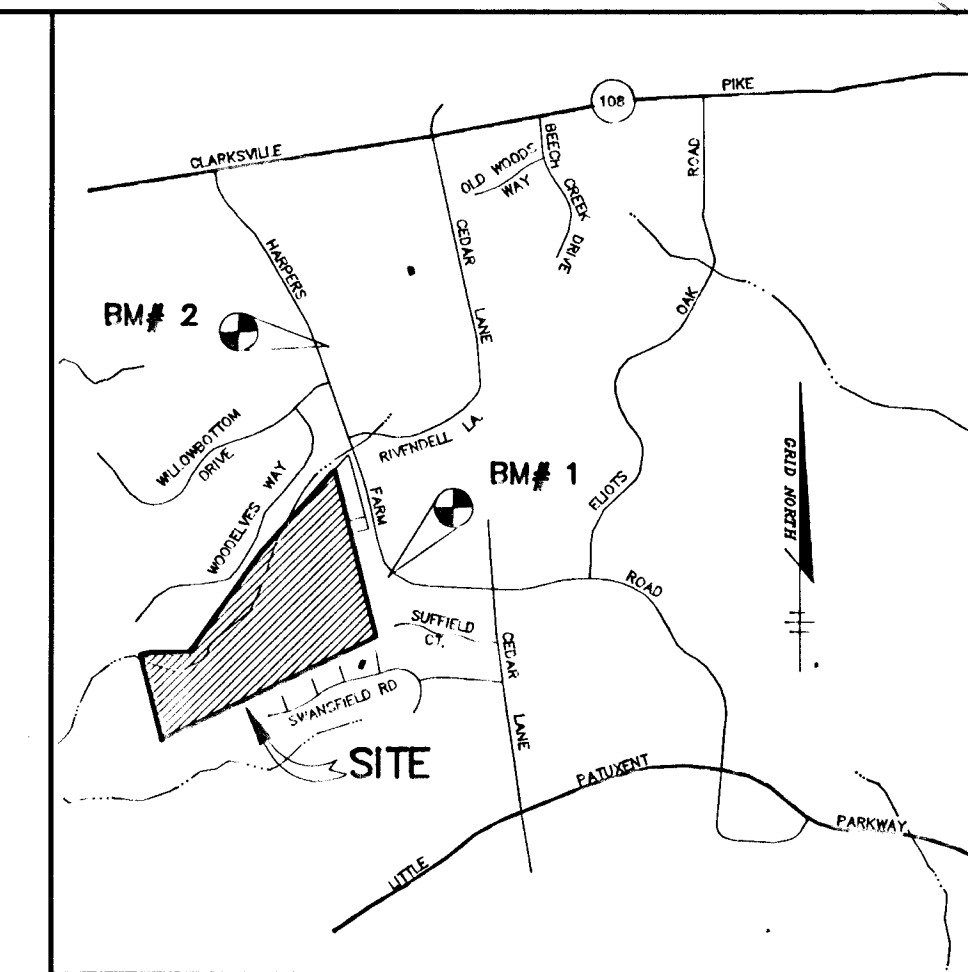
## SECTION II, LOTS 93-136

### ROADWAYS, STORM DRAINS AND

### ~~STORMWATER MANAGEMENT~~

#### 5th ELECTION DISTRICT

#### HOWARD COUNTY, MARYLAND



VICINITY MAP  
SCALE: 1" = 2000'

#### BENCHMARKS

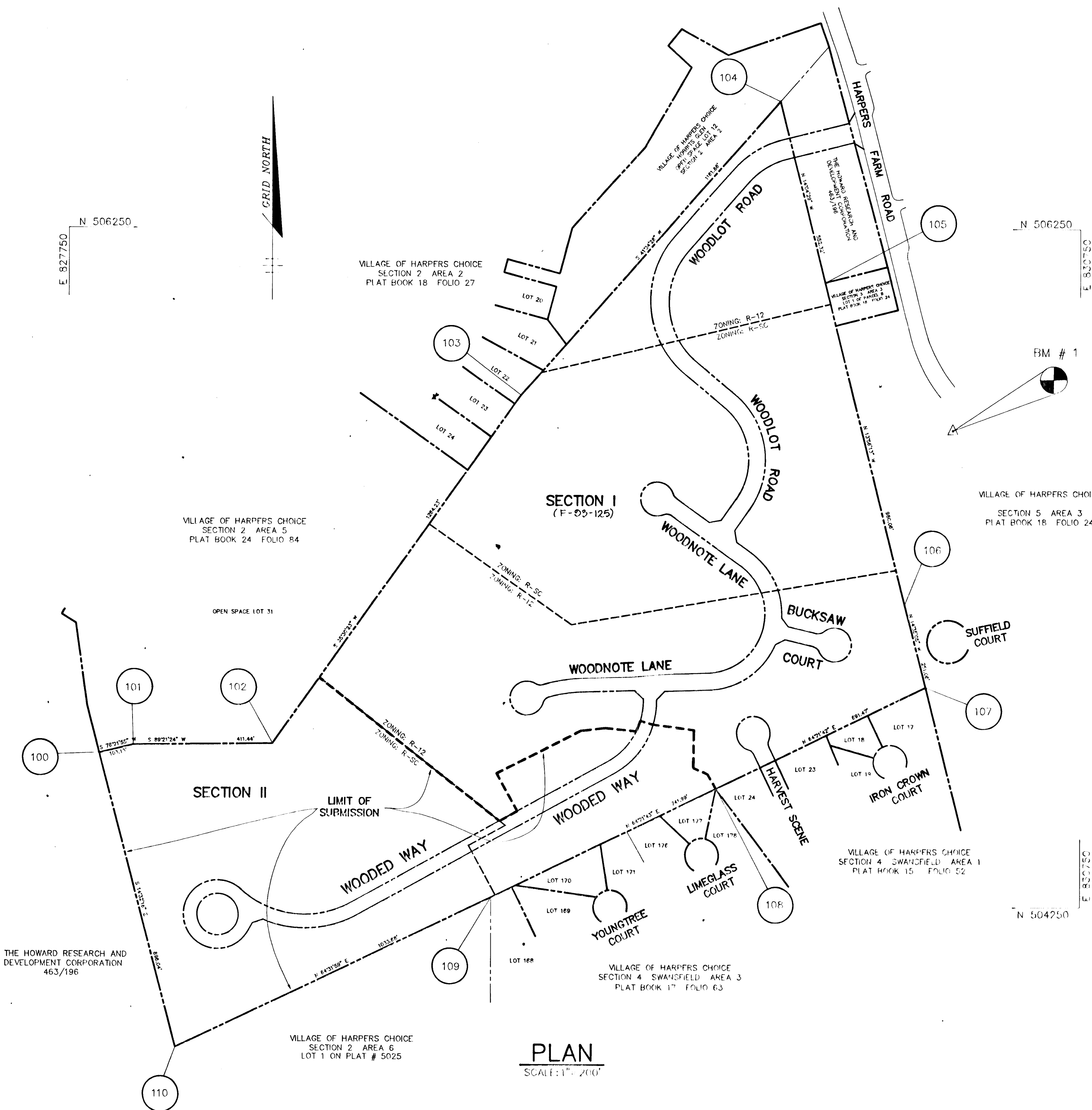
# 1	HOWARD COUNTY MON.# 2739002	ELEV. 472.20
	N 505654.515	E 830372.788
# 2	HOWARD COUNTY MON.# 2739003	ELEV. 465.10
	N 507944.385	E 829697.643

#### 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, LATEST AMENDMENTS.
- APPROXIMATE LOCATION 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 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	1-800-257-777
BELL TELEPHONE SYSTEM	393-3649
LONG DISTANCE CABLE DIVISION	393-3553 or 3554
BALTIMORE GAS AND ELECTRIC CO.	539-8000
HOWARD COUNTY BUREAU OF UTILITIES	915-4000
HOWARD COUNTY CONSTRUCTION/INSPECTION SURVEY DIVISION (24 HOURS NOTICE PRIOR TO COMMENCEMENT OF WORK)	915-1800
COLONIAL PIPELINE	795-1390
- ALL INLETS SHALL BE CONSTRUCTED IN ACCORDANCE WITH HOWARD COUNTY STANDARDS.
- ALL STREET CURB RETURNS SHALL HAVE 25' 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, LATEST AMENDMENTS.
- INSTALLATION OF TRAFFIC CONTROL DEVICES, MARKING, AND SIGNING SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, 1998 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:
 

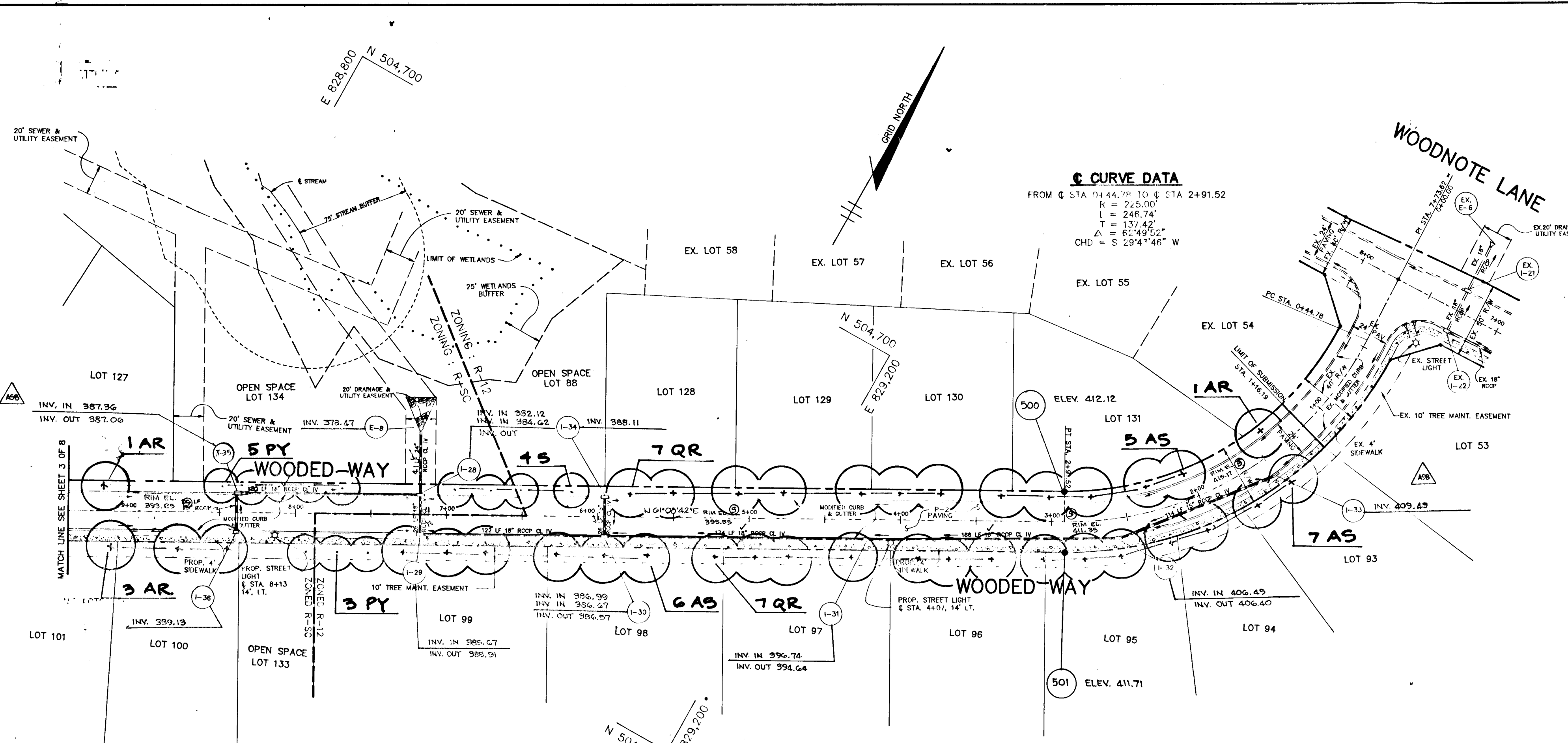
WOODED WAY - STA. 14+16.19 TO STA. 20+06.12	40' R.O.W.	30 MPH
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- ALL ELEVATIONS SHOWN ARE BASED ON U.S.C. AND G.S. MEAN SEAL LEVEL DATUM, 1929.
- ALL FILL AREAS WITHIN ROADWAY AND UNDER STRUCTURES TO BE COMPACTED TO A MINIMUM OF 95% COMPACTION.
- ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS.
- PROFILE STATIONS SHALL BE ADJUSTED AS NECESSARY TO CONFORM TO PLAN DIMENSIONS.
- SUBJECT PROPERTY ZONED R-12 AND R-SC PER ZB-933M.
- TOPO TAKEN FROM AERIAL MAPS FLOWN IN JANUARY, 1992 BY WINGS AERIAL MAPPING, INC.
- NO PIPE SHALL BE LAID UNTIL LINES OF EXCAVATION HAS BEEN BROUGHT WITHIN 6" 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 OFFICE OF PLANNING AND ZONING FILE NO'S: ZB-933M, WP-93-66 & SP-93-13 F-93-125.
- LIGHT POLES AND FIXTURES FOR STREET LIGHTS SHALL BE IN ACCORDANCE WITH HOWARD COUNTY DESIGN MANUAL VOLUME III - ROAD AND BRIDGES, PAGE 5-50.
- THE STORMWATER MANAGEMENT FACILITIES PROPOSED FOR THIS SITE ARE CLASS "A" HAZARD FACILITIES IN THE EVENT OF A FAILURE OF THE EMBANKMENT DAMAGE WILL BE LIMITED TO FLOODPLAINS AND COUNTY ROADS. PLANS SUBMITTED AND APPROVED UNDER F-93-125.
- 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 SECTIONS 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.
- STORMWATER MANAGEMENT FOR THIS DEVELOPMENT WILL BE A DETENTION FACILITY CREATED BY ROAD FILLS. WATER QUALITY IS PROVIDED BY EXTENDED DETENTION BASINS. PLANS SUBMITTED AND APPROVED UNDER F-93-125.
- THE 100-YEAR FLOODPLAIN STUDY HAS BEEN PREPARED BY RIEMER MUEGGE & ASSOCIATES, INC. AND APPROVED UNDER SP-93-13.
- WETLANDS DELINEATION IS PROVIDED BY RIEMER MUEGGE & ASSOCIATES, INC. DATED MARCH 12, 1993.
- WF-93-66 WAS A REQUEST TO WAIVE SECTION 16.113.C.10 TO PERMIT A CUI-DE-SAC LENGTH TO EXCEED 1200 FEET, SECTION 16.115.B.5 TO PERMIT LOTS TO DIVIDE FRONTAGE ALONG A COMMONLY OWNED PRIVATE DRIVE IN EXCESS OF 200 FEET IN LENGTH AND SECTION 16.129.2 TO PERMIT THE OMISSION OF CERTAIN SIDEWALKS WITHIN THE SINGLE FAMILY ATTACHED SECTION. THIS WAIVER PETITION WAS APPROVED ON MARCH 5, 1993.
- WOODLOT ENTERPRISES WILL BE RESPONSIBLE FOR THE STREET TREE PLANTINGS AS INDICATED ON THESE PLANS. ALL OF THE REQUIRED PERIMETER LANDSCAPING WILL BE THE RESPONSIBILITY OF THE BUILDER AND WILL BE SHOWN ON THE SITE DEVELOPMENT PLANS.
- THE STORMWATER MANAGEMENT FACILITY UNDER F-93-125 MUST BE INSTALLED PRIOR TO THE CONSTRUCTION OF THIS SECTION.
- ALL SIDEWALKS AND SIDEWALK RAMPS TO MEET CURRENT ADA REQUIREMENTS.



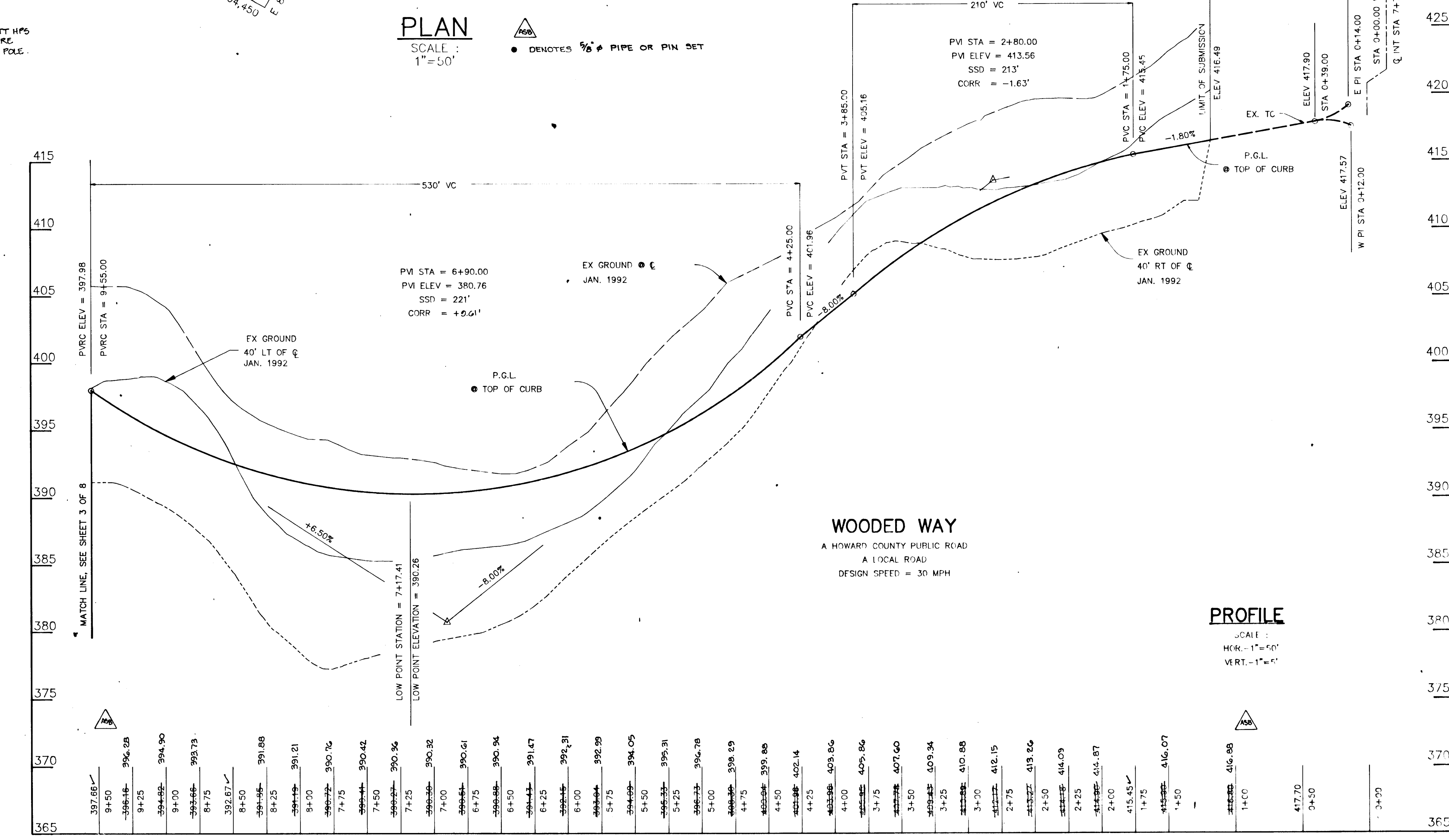
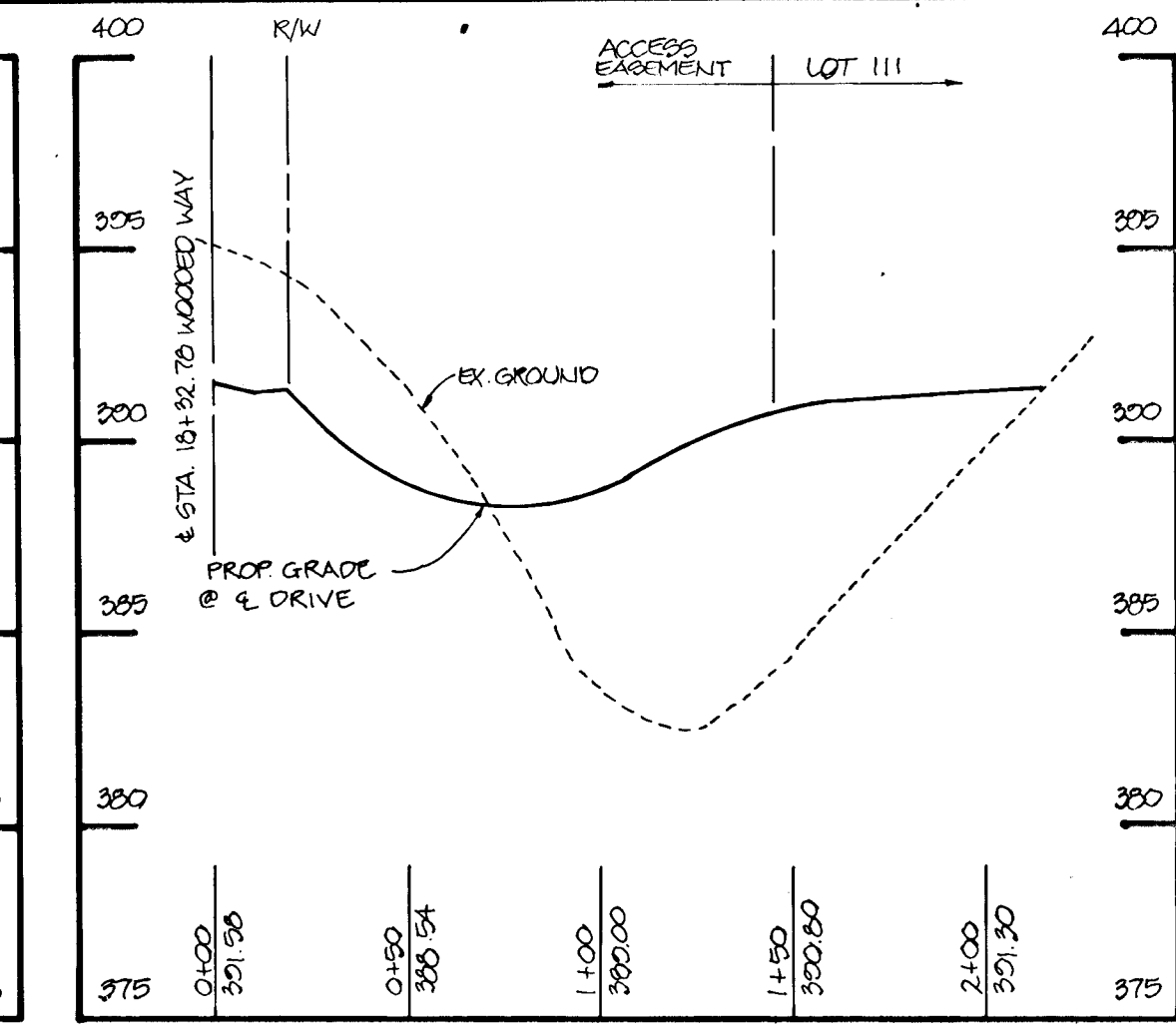
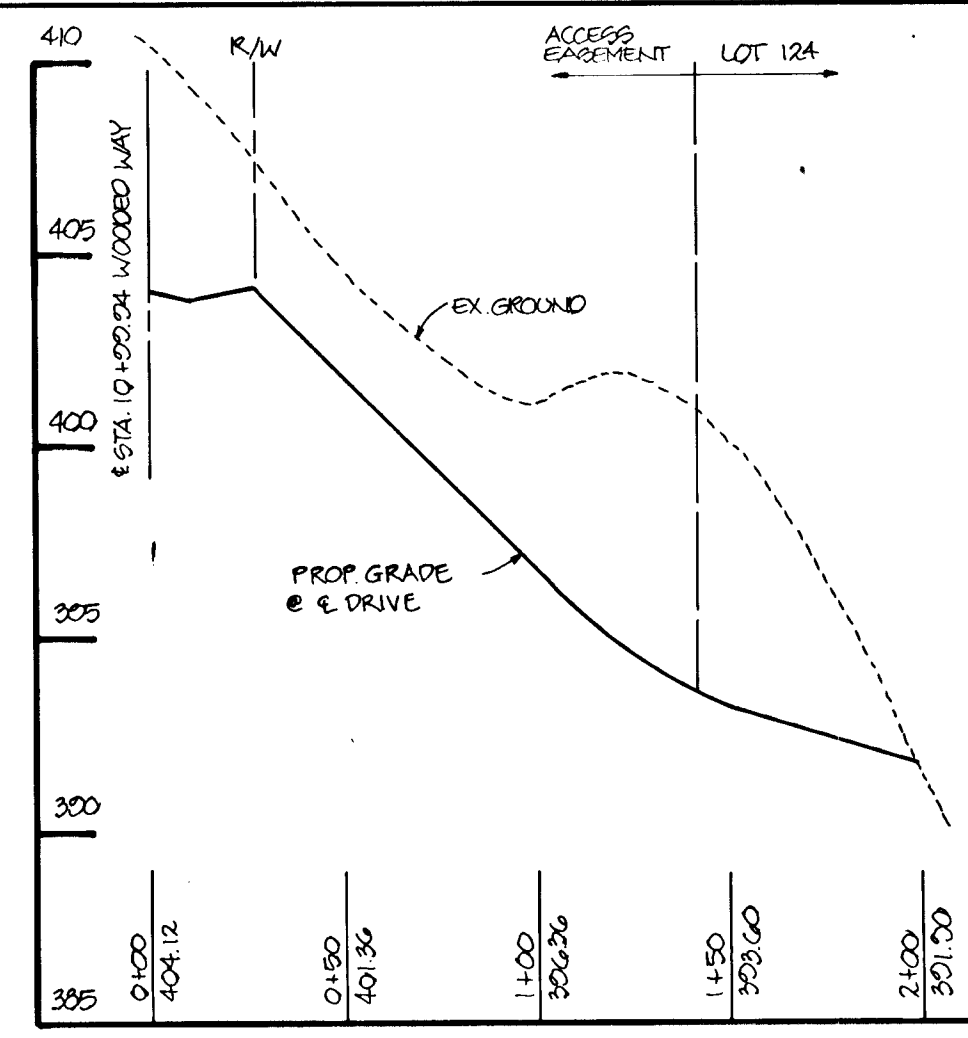
COORDINATE LIST		
NO.	NORTHING	EASTING
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103	505738.920	829087.728
104	506828.124	829858.743
105	506692.389	829933.059
106	505141.179	830229.108
107	504898.209	830292.327
108	504599.020	829668.937
109	504277.971	828999.996
110	503873.500	828066.760

AS BUILT CERTIFICATE	
<i>J. Faack</i> 1.15.97	
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING	
<i>Gino Srivastava</i> 4/6/94	DATE
APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS	
<i>Abdul Durrani</i> 3/25/94	DATE
<i>Andrew M. Daniels</i> 3-2-94	DATE
<i>Paul J. Sepp</i> 3/25/94	DATE
1-15-97 AS-BUILT MODIFICATIONS	
DATE NO.	REVISION
OWNER	DEVELOPER
JOHN LEE CARROLL, ATTORNEY IN FACT 515 MADISON AVENUE 32ND FLOOR NEW YORK, N.Y. 10022	WOODLOT ENTERPRISES, INC. c/o THOMAS SCRIVENER 5026 DORSEY HALL DRIVE SUITE 204 COLUMBIA, MD. 21042
PROJECT	WOODLOT SECTION II LOTS 93 - 136
AREA	TAX MAP 29 PARCEL 365 5th ELECTION DISTRICT HOWARD COUNTY, MARYLAND
TITLE	TITLE SHEET
RIEMER MUEGGE & ASSOCIATES, INC. Planners • Surveyors • Engineers 8818 Centre Park Drive • Suite 200 • Columbia, Md 21045 410-997-8900 FAX: 410-997-9282	
2.2.94 DATE	ZB-933M SP-93-13 WP-93-66 PB-278 F-93-125
<i>J. Faack</i>	DESIGNED BY: J.T.D.
JAYKANT D. PAREKH # 19148	DRAWN BY: J.C.O.
	PROJECT NO: 83017
	DATE: JANUARY 27, 1994
	SCALE: AS SHOWN
	DRAWING NO. 1 OF 8

1677

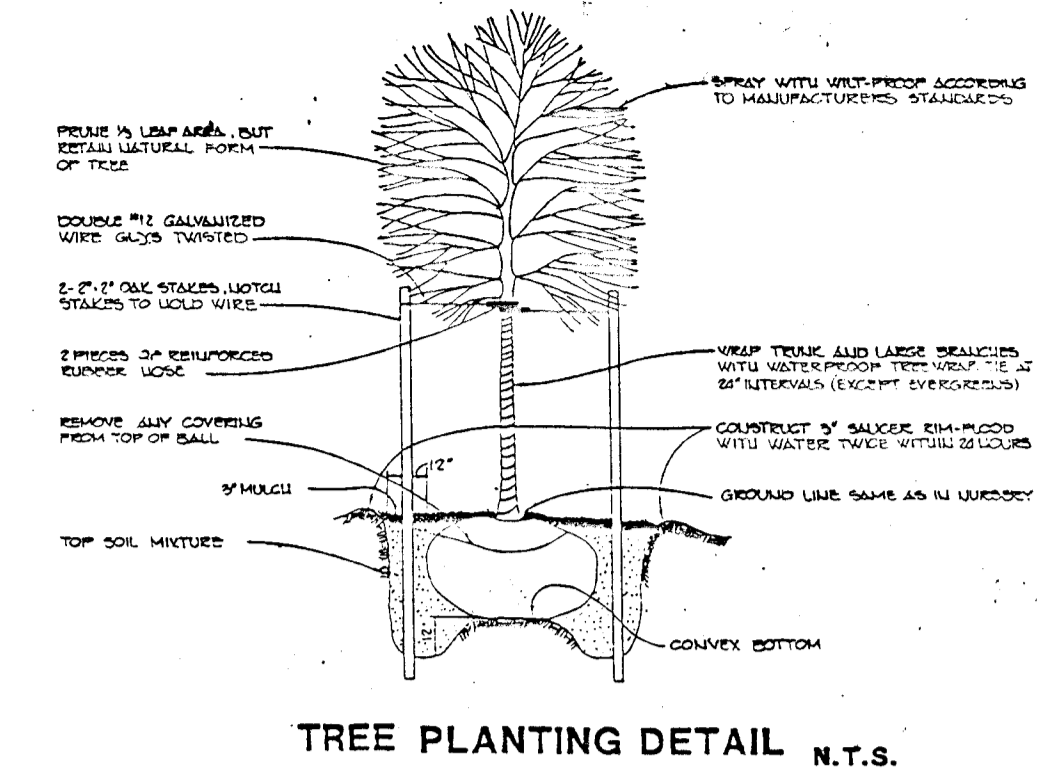
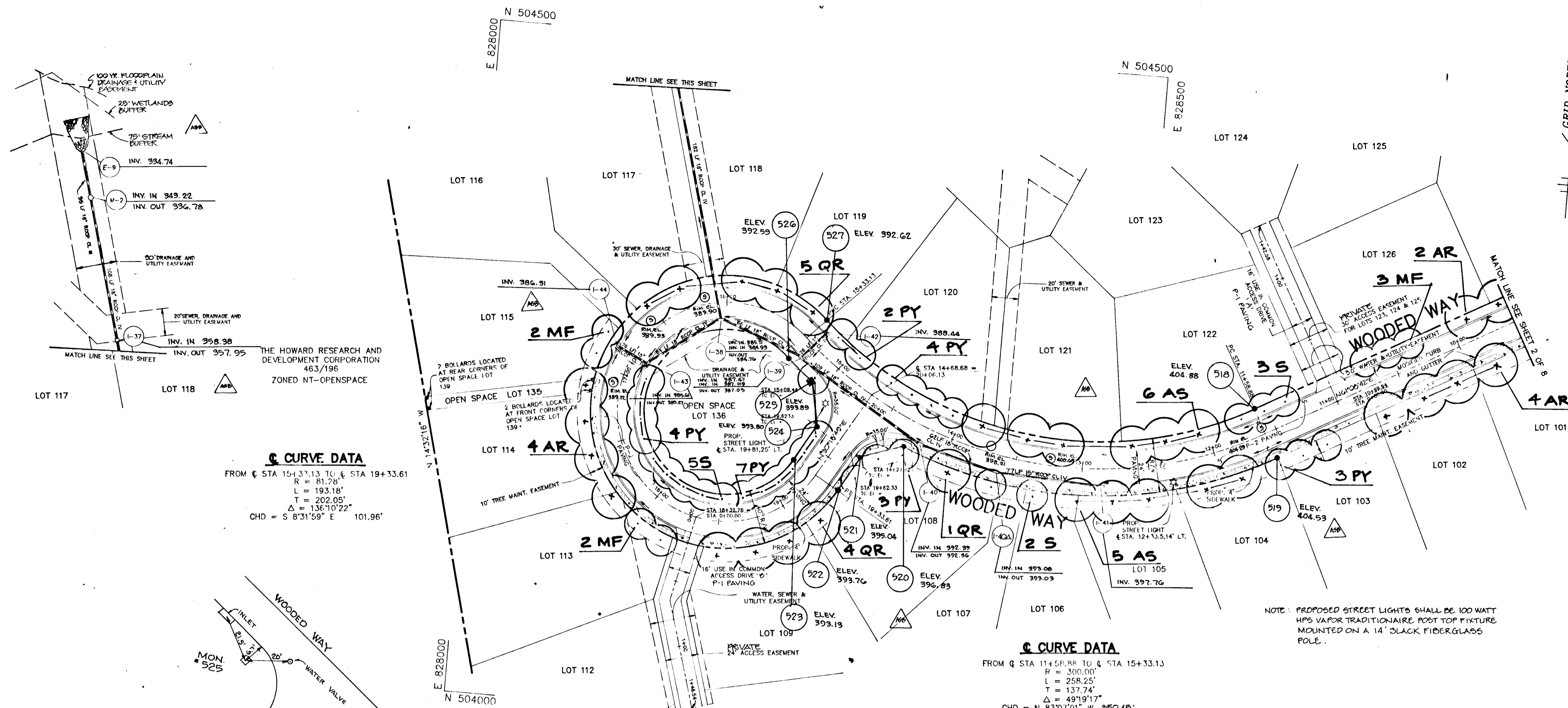


**C CURVE DATA**  
FROM C STA 0+44.79 TO C STA 2+91.52  
R = 225.00  
I = 248.74  
T = 137.42  
Δ = 62.4956°  
CHD = 5 294' 46" W



<b>J. Parekh</b> 1.15.97 JAYKANT D. PAREKH 19148 DATE	
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING <b>Gino Summy</b> 4/16/94 CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH CAH DATE	
APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS <b>John Lee Carroll</b> 3/25/94 CHIEF, LAND DEVELOPMENT DIVISION MLK DATE <b>Andrew M. Daniels</b> 3-2-94 CHIEF, BUREAU OF HIGHWAYS HS DATE <b>John Lee Carroll</b> 3/25/94 CHIEF, BUREAU OF ENGINEERING DATE	
1-15-97 1 RELOC. SD INLETS I-35 & I-36 DATE NO. REVISION	
OWNER / DEVELOPER	DEVELOPER
JOHN LEE CARROLL ATTORNEY IN FACT 515 MADISON AVENUE 37th FLOOR NEW YORK, N.Y. 10022	WOODLOT ENTERPRISES, INC. c/o THOMAS SCRIVENER 5026 DORSEY HALL DRIVE COLUMBIA, MD. 21042
PROJECT <b>WOODLOT SECTION II LOTS 93 - 134</b>	
AREA TAX MAP 29 PARCEL 365 5th ELECTION DISTRICT HOWARD COUNTY, MARYLAND	
TITLE <b>PLAN AND PROFILE OF WOODED WAY</b>	
<b>RIEMER MUEGGE &amp; ASSOCIATES, INC.</b> Planners • Engineers • Surveyors 8818 Centre Park Drive • Suite 200 • Columbia, Md 21045 410-997-8900 FAX: 410-997-9282	
2.2.94 DATE	7B: 933M SP: 93-13 WP-93-66 PB: 278, P-03-120
	DESIGNED BY: JTD DRAWN BY: JTD PROJECT NO: 83017 DATE: JANUARY 27, 1994 SCALE: AS SHOWN DRAWING NO. 2 OF 8

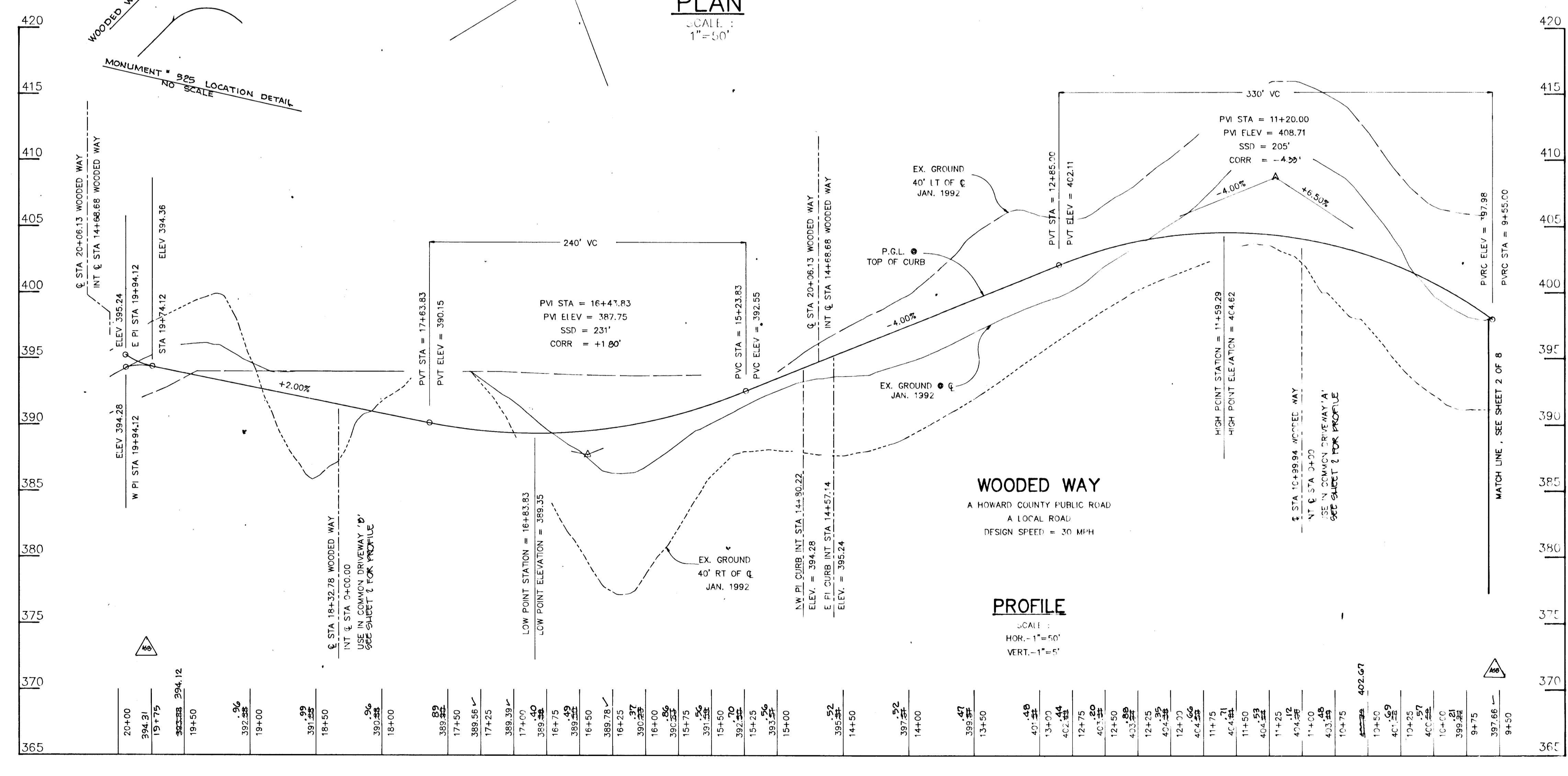
1677



**PLANT LIST**

QTY	KEY	BOTANICAL NAME/Common Name	SIZE	REMARKS
15	AR	ACER RUBRUM 'OCTOBER GLORY' October Glory Red Maple	2 1/2"-3" Cal. 12'-14" Ht.	Full Crown B & B
29	AS	ACER SACCHARUM 'GREEN MOUNTAIN' Green Mountain Sugar Maple	2 1/2"-3" Cal. 12'-14" Ht.	Full Crown B & B
7	MF	MALUS FLORIBUNDA 'HARVEST GOLD' Harvest Gold Crabapple	1 1/2"-2" Cal. 10'-12" Ht.	B & B
31	PY	PRUNUS YEDOENSIS Yoshino Cherry	1 1/2"-2" Cal. 10'-12" Ht.	B & B
24	QR	QUERCUS RUBRA Red Oak	2 1/2"-3" Cal. 12'-14" Ht.	B & B
14	S	STRAX JAPONICA Japanese Snowbell	1 1/2"-2" Cal. 10'-12" Ht.	B & B

**TOTALS:**  
 LINEAR FEET R/W = 3750  
 STREET TREES REQUIRED = 94  
 SHADE TREES PROVIDED = 68  
 FLOWERING TREES PROVIDED = 52



AS BUILT CERTIFICATE

J. Farrell 1.15.97

JAYKANT D. PAREKH 19148 DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Gina Surinany 4/6/94  
 CHIEF, DIVISION OF  
 LAND DEVELOPMENT  
 AND RESEARCH

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

Andrew M. Daniels 3-2-94  
 CHIEF, BUREAU OF  
 HIGHWAYS

Kimberly Sapon 3/25/94  
 CHIEF, PUBLIC WORKS

1-15-97 DATE

ADDED E.L.S. & S.D. SAN ANS & RIM E.L.S. R/W PIN/ANAL LOCATIONS  
 & E.L.S. MOD. RO. P.G.L.'S FOR "AS-BUILT"

DATE NO. REVISION

1677

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 THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT.

DEVELOPER: *PRP* DATE: 2/1/94

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: *J. Farrell* DATE: 2.2.94

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

U.S. SOIL CONSERVATION SERVICE: *Patricia Egan* DATE: 2/16/94

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

HOWARD SOIL CONSERVATION DISTRICT: *John R. Robertson* DATE: 2/16/94

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH: *Gina Drumann* DATE: 4/6/94

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.

CHIEF, LAND DEVELOPMENT DIVISION M.K.: *Allen Damm* DATE: 3/25/94

CHIEF, BUREAU OF HIGHWAYS: *Andrew M. Daniels* DATE: 3-2-94

CHIEF, BUREAU OF ENGINEERING: *Phillip Egan* DATE: 3/25/94

DATE	NO.	REVISION

OWNER / DEVELOPER JOHN LEE CARROLL, ATTORNEY IN FACT 310 MADISON AVENUE 30th FLOOR NEW YORK, N.Y. 10022	DEVELOPER WOODLOT ENTERPRISES, INC. c/o THOMAS SCARVENER 5026 BRUSHY HALL DRIVE SOUTH #04 COLUMBIA, MD. 21042
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PROJECT: **WOODLOT**  
SECTION II  
LOTS 93 - 106

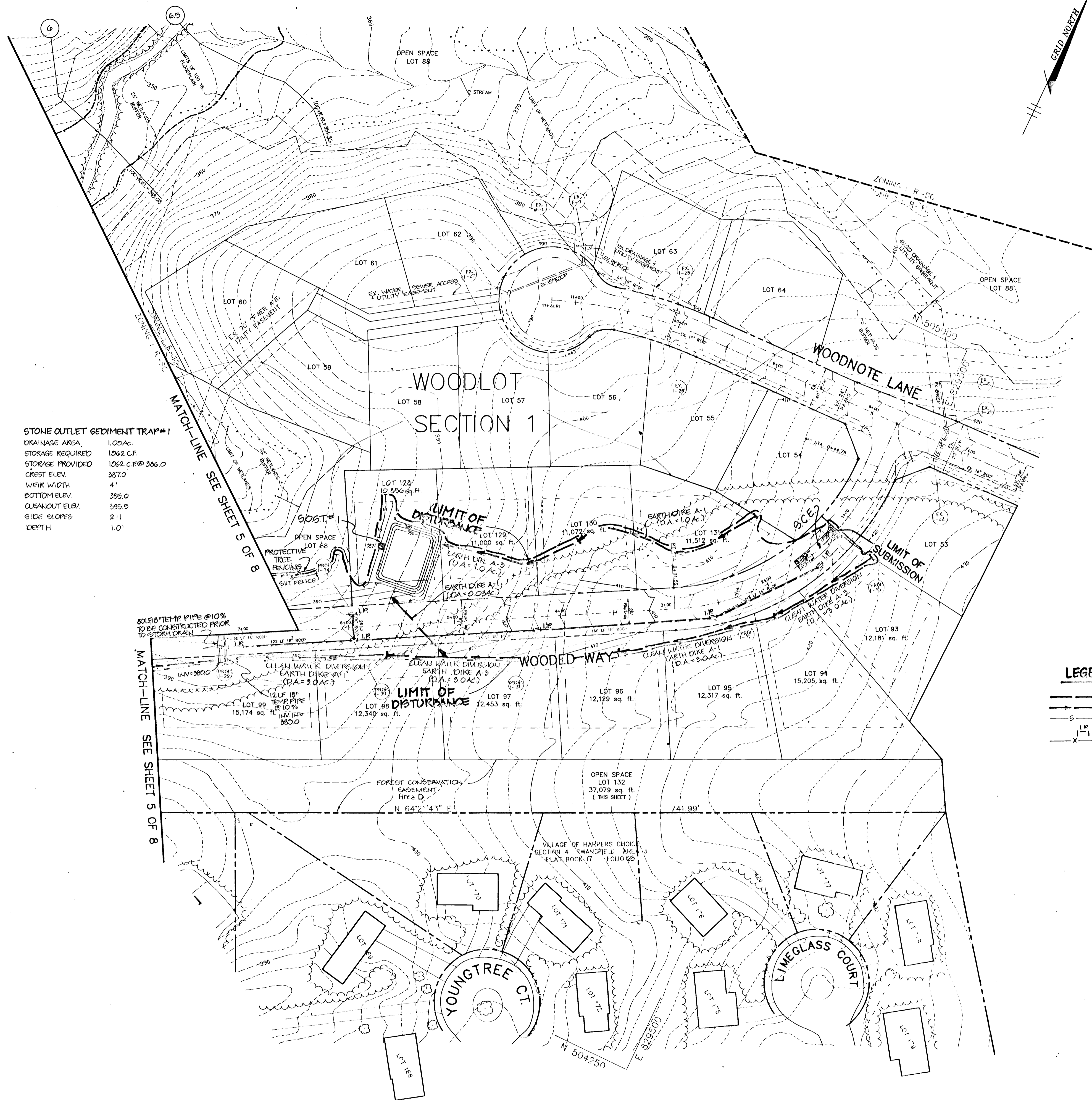
AREA: TAX MAP 29 PARCEL 365  
5th ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND

TITLE: **GRADING AND SEDIMENT CONTROL PLAN**

RIEMER MUEGGE & ASSOCIATES, INC.  
A Land Planning, Engineering and Consulting Firm  
8818 Centre Park Drive • Suite 200 • Columbia, Md 21043  
410-997-8900 FAX : 410-997-8282

DATE: 2.2.94  
DESIGNED BY: J.T.D.  
DRAWN BY: J.C.O.  
PROJECT NO: 83017  
DATE: JANUARY 27, 1994  
SCALE: 1"=50'  
DRAWING NO. 4 OF 8

JAYKANT D. PAREKH # 19148



STONE OUTLET SEDIMENT TRAP #1  
DRAINAGE AREA: 1.00 AC.  
STORAGE REQUIRED: 1062 C.F.  
STORAGE PROVIDED: 1062 C.F. @ 306.0  
CREST ELEV.: 367.0  
WEIR WIDTH: 4'  
BOTTOM ELEV.: 385.0  
CLEANOUT ELEV.: 385.5  
SIDE SLOPE: 2-1  
DEPTH: 1.0'

**LEGEND**  
 - - - - - LIMIT OF DISTURBANCE  
 ———— EARTH DIKE  
 S — S SILT FENCE  
 I P I P INLET PROTECTION  
 X — X — PROTECTIVE TREE FENCE

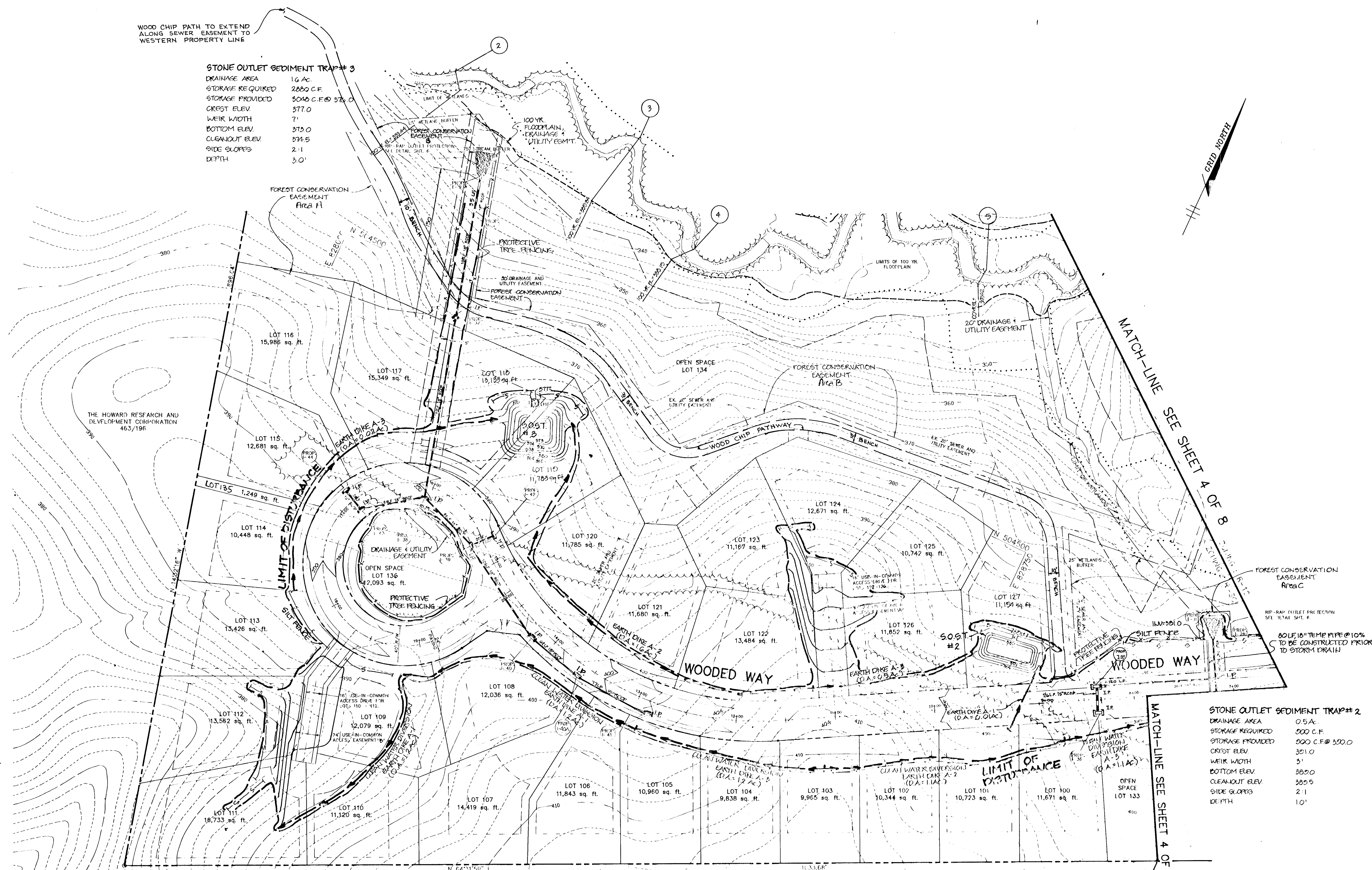
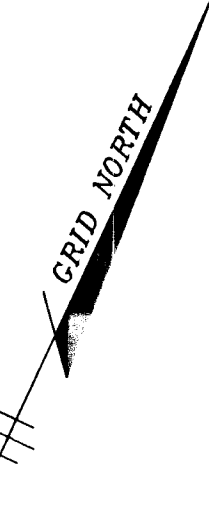
PLAN  
SCALE: 1"=50'

6671

1677

WOOD CHIP PATH TO EXTEND ALONG SEWER EASEMENT TO WESTERN PROPERTY LINE

**STONE OUTLET SEDIMENT TRAP # 3**  
 DRAINAGE AREA 16 AC  
 STORAGE REQUIRED 2850 C.F.  
 STORAGE PROVIDED 3040 C.F. @ 375.0  
 CREST ELEV. 377.0  
 WEIR WIDTH 7'  
 BOTTOM ELEV. 373.0  
 CLEANOUT ELEV. 374.5  
 SIDE SLOPES 2:1  
 DEPTH 3.0'



**LEGEND**

- LIMIT OF DISTURBANCE
- EARTH DIKE
- SILT FENCE
- INLET PROTECTION
- PROTECTIVE TREE FENCE

**PLAN**  
 SCALE: 1"=100'

**STONE OUTLET SEDIMENT TRAP # 2**  
 DRAINAGE AREA 0.5 AC  
 STORAGE REQUIRED 200 C.F.  
 STORAGE PROVIDED 200 C.F. @ 300.0  
 CREST ELEV. 301.0  
 WEIR WIDTH 3'  
 BOTTOM ELEV. 290.0  
 CLEANOUT ELEV. 290.5  
 SIDE SLOPES 2:1  
 DEPTH 1.0'

NOTE:  
 WOODCHIP PATHWAY TO BE 6" WIDE  
 6" THICK ON COMPACTED EARTH  
 WITHIN A 10' WIDE GRADED BENCH.  
 THIS PATHWAY FULFILLS THE  
 RECREATIONAL OPEN SPACE REQUIREMENTS  
 FOR THE WOODLOT SUBDIVISION (SEC. 1+2)

AS BUILT CERTIFICATE	
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 THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT.	
<i>[Signature]</i>	2/1/94 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>J. Farrell</i>	2.2.94 DATE
THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SOIL EROSION AND SEDIMENT CONTROL.	
<i>[Signature]</i>	2/16/94 DATE
THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.	
<i>[Signature]</i>	2/16/94 DATE
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.	
<i>Gina Strummary</i>	4/10/94 DATE
APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.	
<i>[Signature]</i>	3/25/94 DATE
<i>[Signature]</i>	3-2-94 DATE
<i>[Signature]</i>	3/25/94 DATE
3/15-95   RELOC. 50 INLETS 1-35 & 1-36	REVISION
OWNER / DEVELOPER	DEVELOPER
JOHN LEE CARROLL, ATTORNEY IN FACT, 515 MADISON AVENUE, 32ND FLOOR, NEW YORK, N.Y. 10022	WOODLOT ENTERPRISES, INC., C/O THOMAS SCHWENK, 5026 DORSEY HALL DRIVE, SUITE 204, COLUMBIA, MD. 21042
PROJECT	WOODLOT
AREA	TAX MAP 29, PARCEL 365, 5TH ELECTION DISTRICT, HOWARD COUNTY, MARYLAND
TITLE	GRADING AND SEDIMENT CONTROL PLAN
RIEMER MUEGGE & ASSOCIATES, INC. A Land Planning, Engineering and Consulting Firm 8818 Centre Park Drive • Suite 200 • Columbia, Md 21045 410-997-8900 FAX: 410-997-9282	
2.2.94 DATE	JH: B33M SH: 9313 WJ: 93-6613: 27813-93-125 DESIGNED BY: J.T.D.
<i>J. Farrell</i>	DRAWN BY: J.C.O.
JAYKANT D. PAREKH # 19148	PROJECT NO: 83017
	DATE: JANUARY 27, 1994
	SCALE: 1"=50'
	DRAWING NO. 5 OF 8

**STANDARD AND SPECIFICATIONS FOR VEGETATIZATION WITH SOIL**

**Definition**  
Stabilizing sediment producing areas by establishing long-term stands of grass with soil.

**Purpose**  
To stabilize the soil, reduce damage from sediment and runoff to downstream areas, enhance natural beauty.

**Conditions Where Practice Applies**  
On exposed soils where a quick vegetative cover is desired, on sites which can be maintained with ground equipment (2:1 or flatter slopes).

**SPECIFICATIONS**

1. Grass of turf grade shall be Maryland or Virginia State Certified, or Maryland or Virginia State approved sod.
  2. Sod shall be machine cut to a uniform soil thickness of 3/4 inch, plus or minus 1/4 inch, at the time of cutting. Measurement for thickness shall exclude top growth and ditches.
  3. Standard size sections of sod shall be strong enough to support their own weight and retain their size and shape when suspended vertically with a firm grasp on the upper 10 percent of the sections.
  4. Individual pieces of sod shall be cut to the supplier's width and length. Maximum allowable deviation from standard widths and lengths shall be 5 percent. Broken pods and torn or uneven ends will not be acceptable.
  5. Sod shall not be hauled or transported when moisture content (excessively dry or wet) may convey to soil.
  6. Sod shall be harvested, delivered and installed within a period of 36 hours. Sod not transported within this period shall be inspected and approved prior to its installation.
- Site Preparation**  
Fertilizer and lime application rates shall be determined by soil tests. Fertilizer and lime application shall be based on soil test results. Lime shall be applied in sufficient time for a complete soil test. Fertilizer and lime materials may be applied in amounts shown under B, below.
- A. Prior to sodding, the surface shall be cleared of all trash, debris, and all of rocks, brush, wire, grade stakes and other objects that would interfere with planting, fertilizing or maintenance operations.**
- B. Where the soil is acid or composed of heavy clay, ground limestone shall be spread at the rate of 2 tons/acre or 100 pounds per 1,000 square feet. In all cases, 1,000 pounds per acre or 25 pounds per 1,000 square feet of 10-10-10 fertilizer or equivalent shall be uniformly applied and mixed into the top 3 inches of soil with the required lime.**
- C. All areas receiving sod shall be uniformly graded. Hand-packed earth shall be accepted prior to placement of sod.**
- II. Sod Installation**
- A. During periods of excessively high temperature the soil shall be lightly irrigated immediately prior to laying the sod.**
- B. The first row of sod shall be laid in a straight line with subsequent rows placed parallel to and north-south, wedged against the first row. Lateral joints shall be staggered to promote uniform growth and strength. Ensure that sod is not laid against sod. Lateral joints are butted tight in order to prevent voids which would cause air drying of the sod.**
- C. On sloping areas where erosion may be a problem, sod shall be laid with the long edges parallel to the contour and with staggered joints. Secure the sod by tamping or pegging or other approved methods.**
- D. As sodding is completed in any one section, the entire area shall be rolled or tamped to insure solid contact of roots with the soil surface. Sod shall be watered immediately after rolling or tamping until the underside of the new sod and soil surface below the sod are thoroughly wet. The operations of laying, tamping and watering any piece of sod shall be completed within eight hours.**
- III. Sod Maintenance**
- A. In the absence of adequate rainfall, watering shall be performed daily or as often as necessary during the first week and sufficient quantities to maintain moist soil to a depth of 4 inches. Watering should be done during the heat of the day to prevent wilting.**
- B. After the first week, sod shall be watered as necessary to maintain adequate moisture and insure establishment, and as directed by the owner.**
- C. First mowing should not be attempted until sod is fully rooted. No more than 1/3 of the grass leaf should be removed by the initial cutting or subsequent cuttings. Grass height shall be maintained between 2-3 inches unless otherwise specified.**
- D. Maintenance of established sod should follow specifications outlined in table.**

**Annual Maintenance Fertilization for Permanent Sod**  
Use Soil Test Recommendations or Rates Shown Below

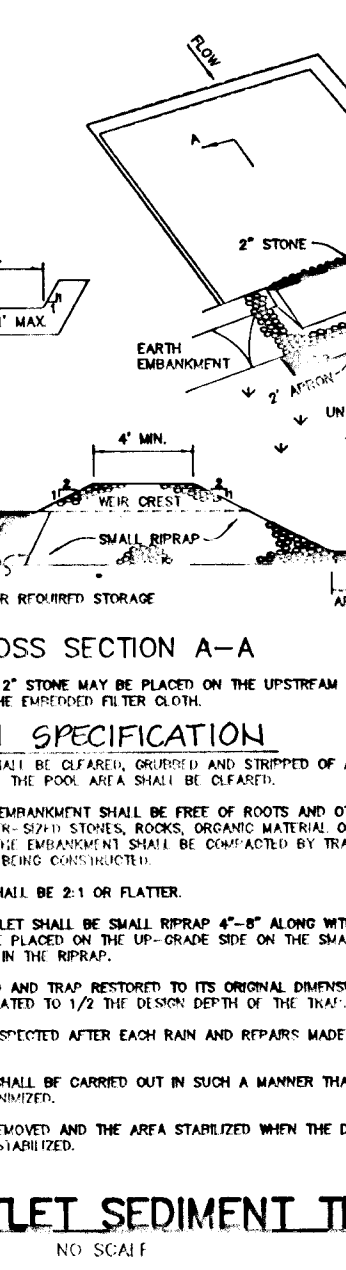
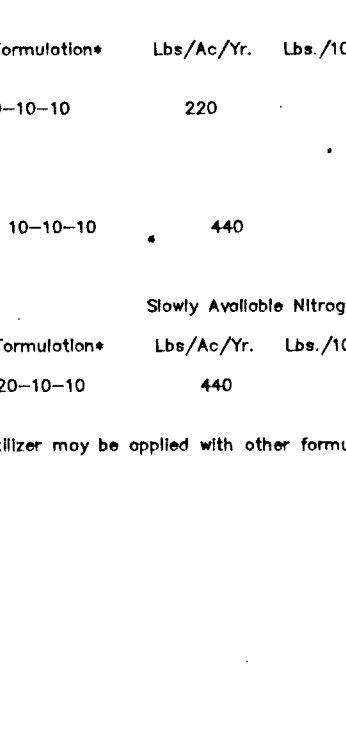
Readily Available Nitrogen

Seeding Mixtures	Formulations	Lbs/Ac./Yr.	Lbs./1000 S.F.	Time	Mowing
Yv-31 tall Fescue Kentucky Bluegrass Red Fescue	20-10-10	220	5	Sept. 1 Oct. 1 Mar. 1	Mow no closer than 2 inches for bluegrass and 3 inches for fescue.
Bermudagrass Zoysia	10-10-10	440	10	May 1 July 1 Aug. 1	Mow no closer than 1-2 inches.

Slowly Available Nitrogen

Seeding Mixtures	Formulations	Lbs/Ac./Yr.	Lbs./1000 S.F.	Time	Mowing
Kentucky Bluegrass Red Fescue	20-10-10	440	10	Sept. 1 Mar. 1	

\*Equivalent amounts of fertilizer may be applied with other formulations.

**MULCHING**

**Materials and Amounts:**

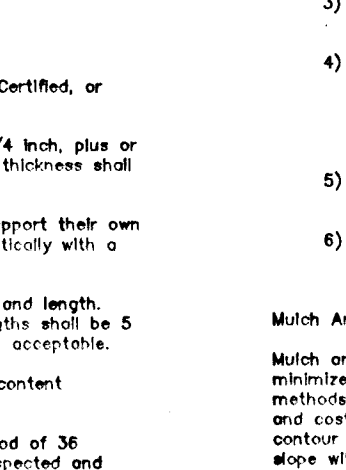
- 1) Straw - Straw shall be unrooted small grain applied at the rate of 1 1/2 to 2 tons per acre (70 to 90 GALS/1000 SF). Mulch material shall be relatively free of all kinds of weeds and shall be free of prohibited noxious weeds such as: thistles, Johnsongrass and dockgrass.
- 2) Wood chips - Wood chips shall be applied at the rate of approximately 6 tons per acre (275 LBS/1000 SF) may be used when available and when feasible to use.
- 3) Synthetic soil stabilizers may be used according to manufacturer's recommendations, under suitable conditions.
- 4) Mulch materials such as lime or excelsior blends shall be applied to the surface in accordance with the manufacturer's directions. Lighter materials of paper, plastic and cotton mulch materials may be used where erosion hazard is not severe. If use is to be moved, do not use metal staples.
- 5) Wood chips at the rate of approximately 6 tons per acre (275 LBS/1000 SF) may be used when available and when feasible to use.
- 6) Crushed rock, gravel, or whole blocks. Apply of rate of 20 to 100 tons per acre (9000 to 45000 LBS/1000 SF) with correct material applied at the highest rate.

**Mulch Anchoring**  
Mulch anchoring shall be accomplished immediately after mulch placement by wind or water. This may be done by one of the following methods, (listed by preference) depending upon site of area, erosion hazard, and cost. On sloping land, practice No. 1 below, should be done on the contour wherever possible, except "tracking" should be done up and down the slope with 1 1/2 inch steel rods running across the slope.

**Mulch Anchoring Tool and Tracking.** A mulch anchoring tool is a tractor drawn implement designed to push and anchor mulch into the surface two (2) inches of soil. This practice affords maximum erosion control but is limited to flatter slopes where equipment can operate safely - primarily used on flatter than 3:1 cut and fill slopes to cut the mulch into the soil. Tracking is used primarily on slopes steeper than 3:1 cut and fill slopes to cut the mulch into the soil with cleated tracks.

**Liquid Mulch Blenders.** Application of liquid mulch should be made at slopes where erosion hazard exists. In the case of crests of banks, the remainder of the area should be uniform in appearance. Caution should be used with asphalt in residential and airport areas.

**Approved Equivalents can be substituted for any of the above materials.**



**Flow Channel Stabilization**

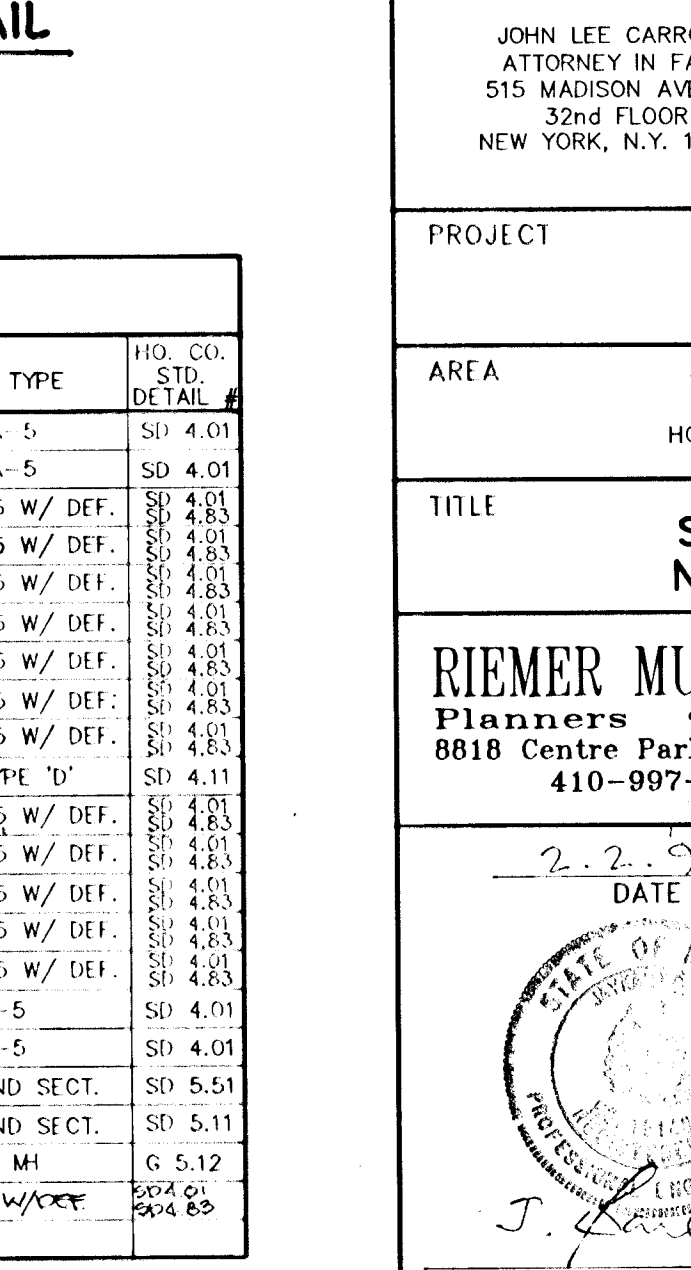
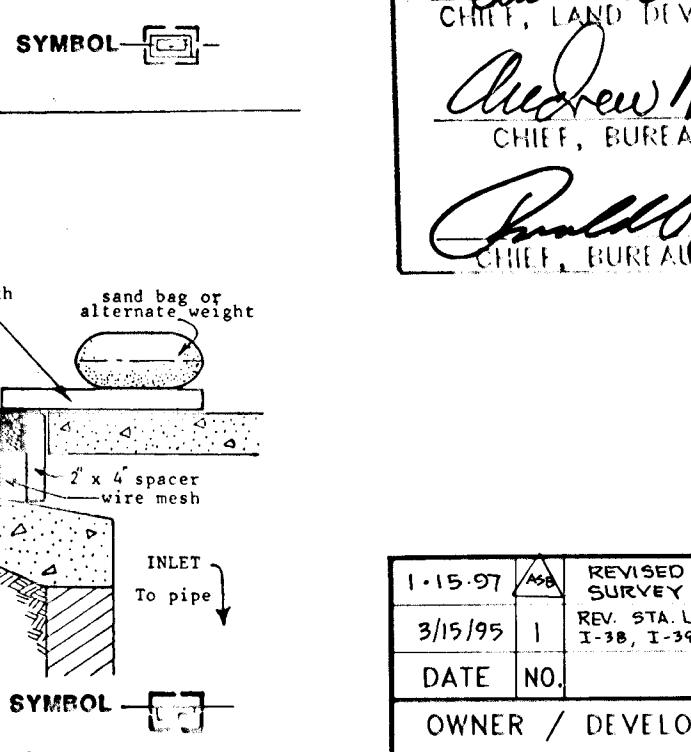
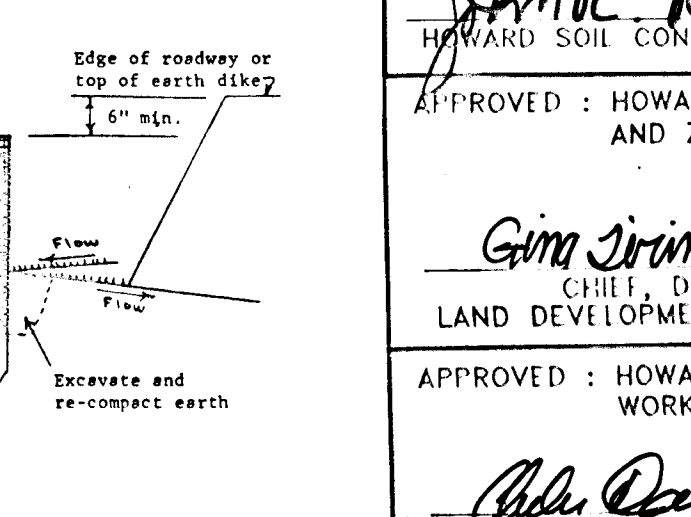
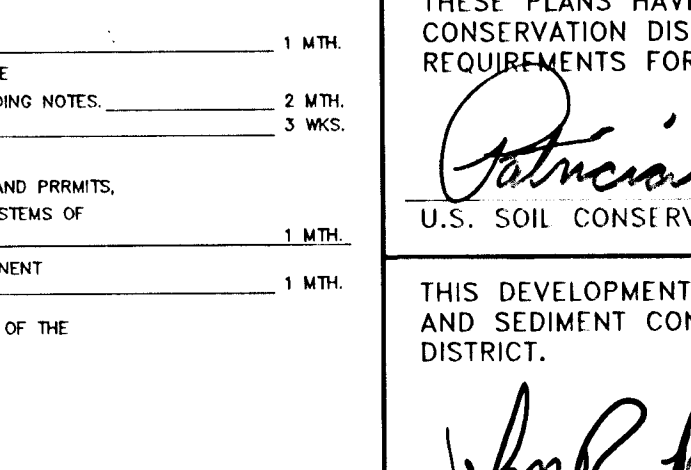
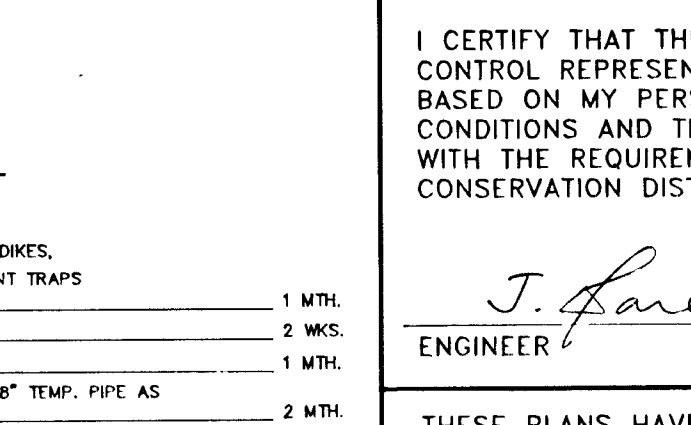
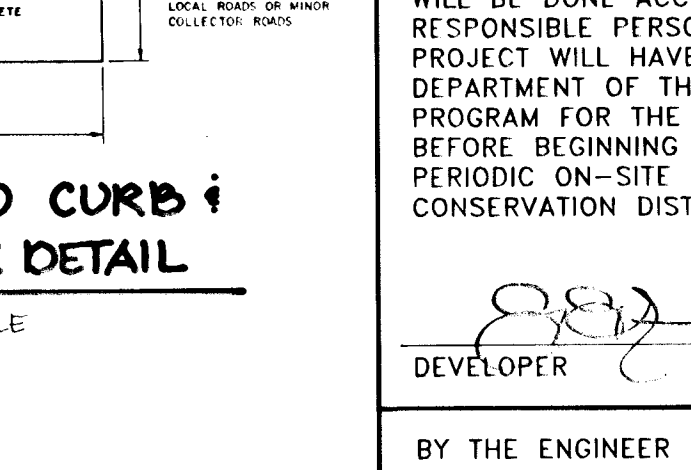
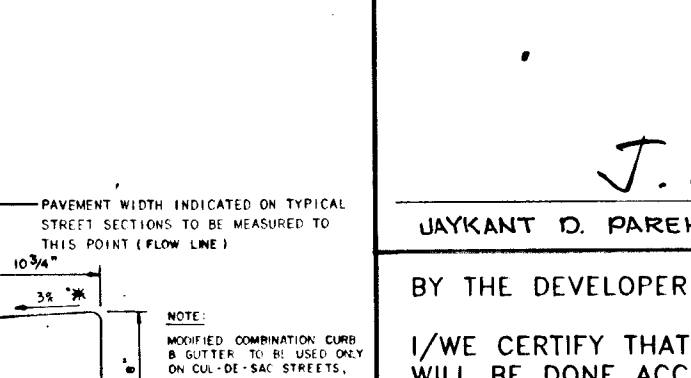
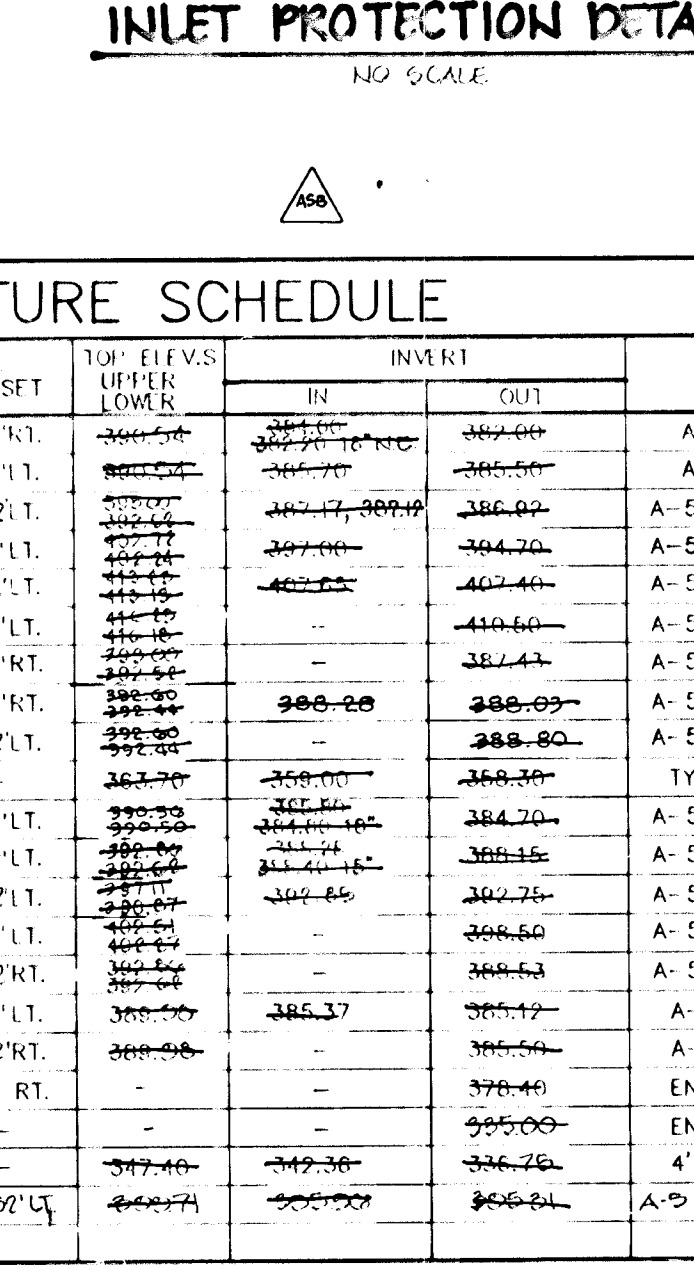
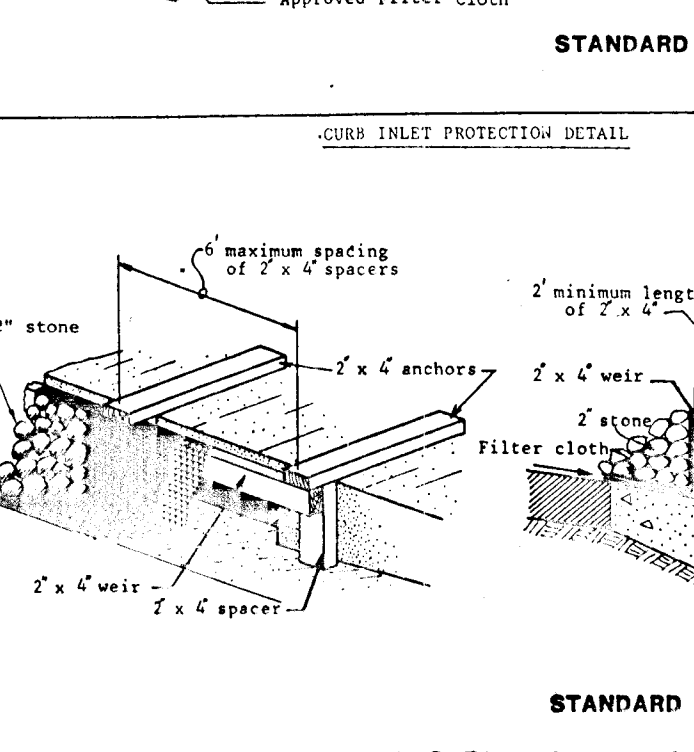
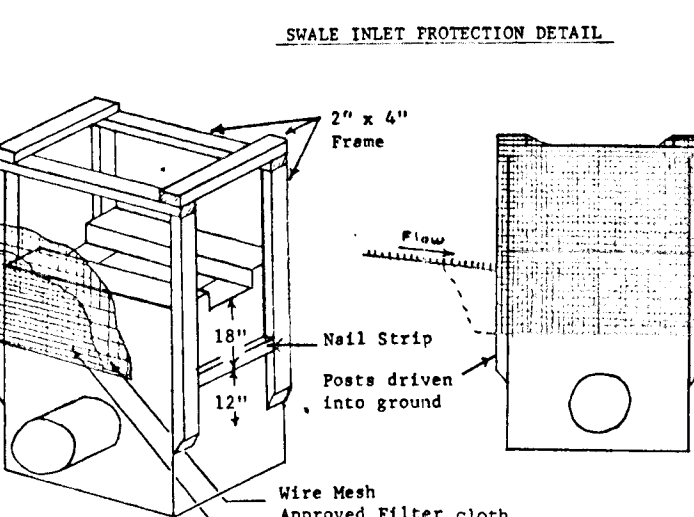
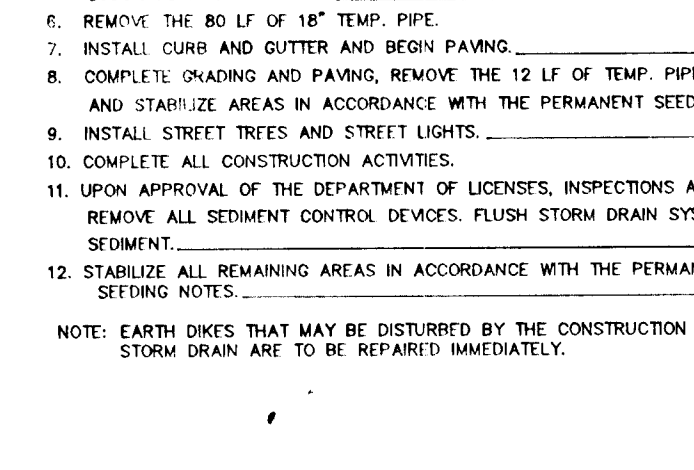
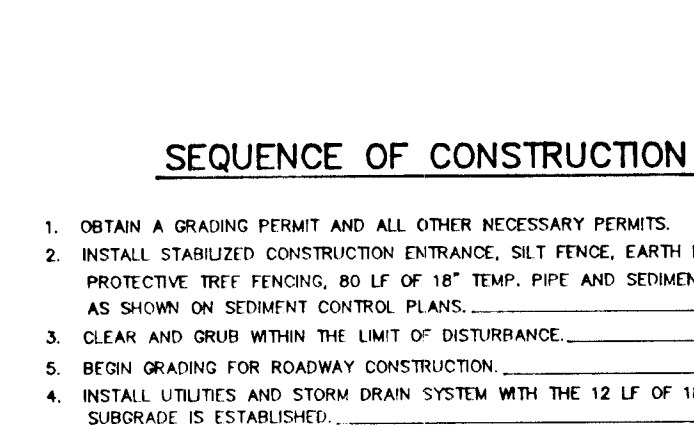
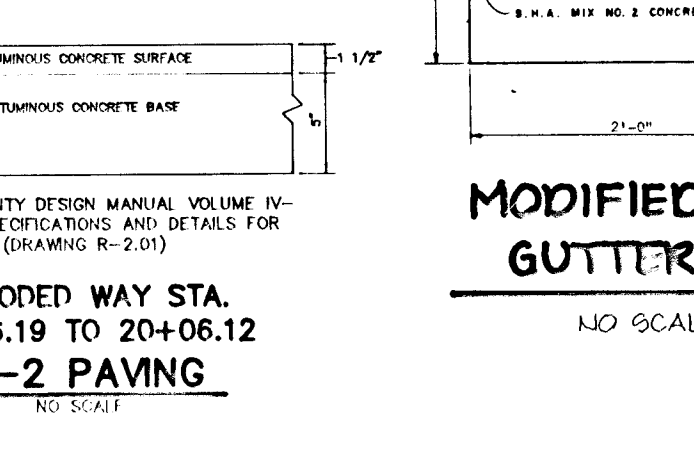
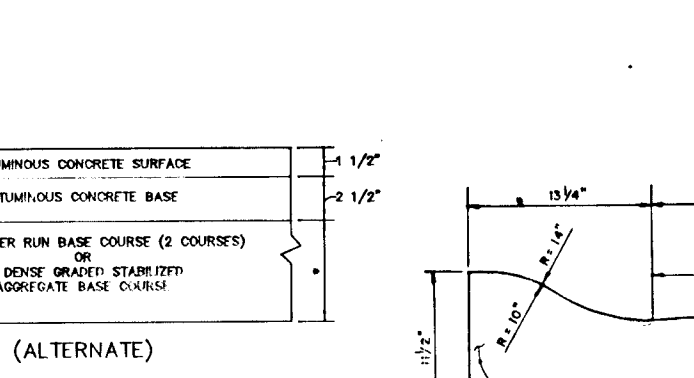
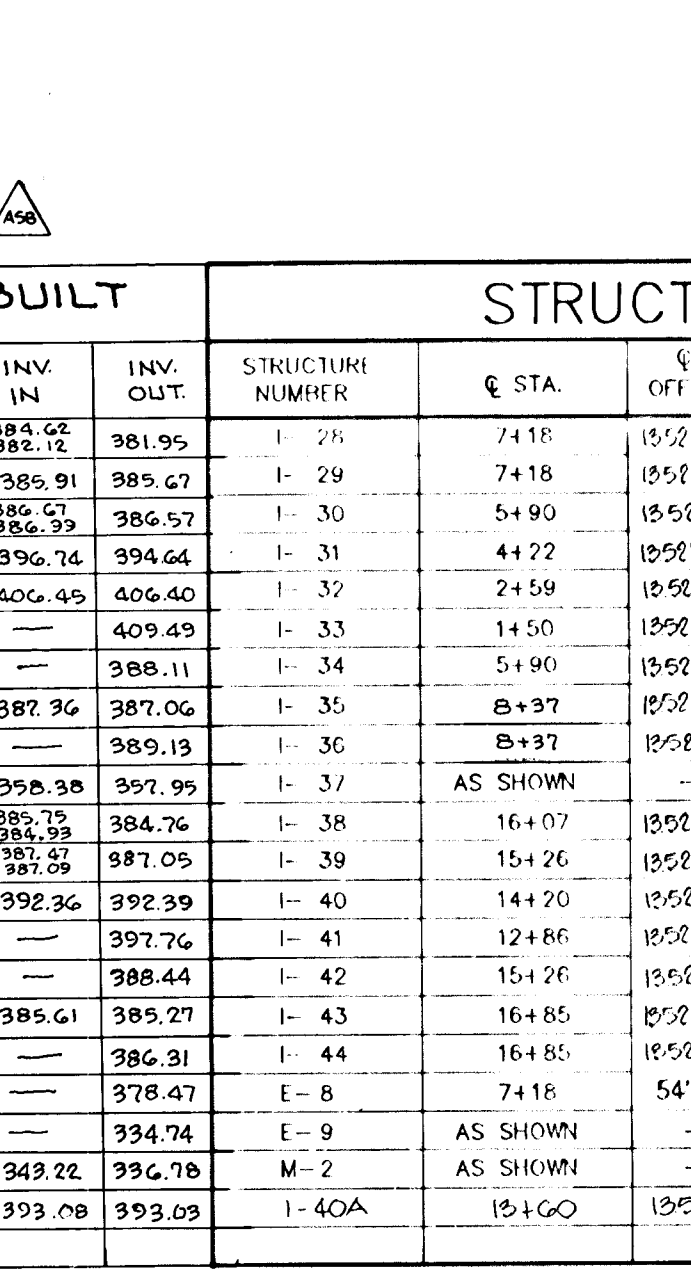
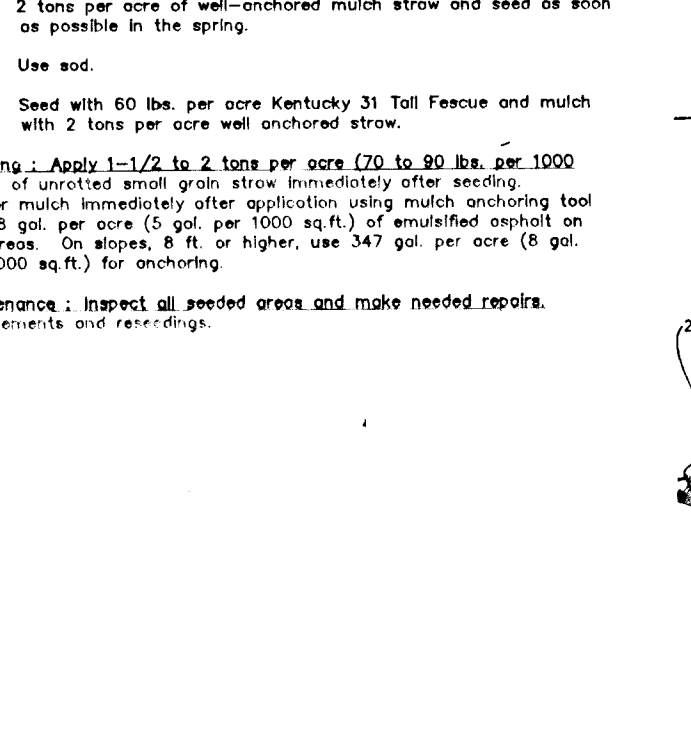
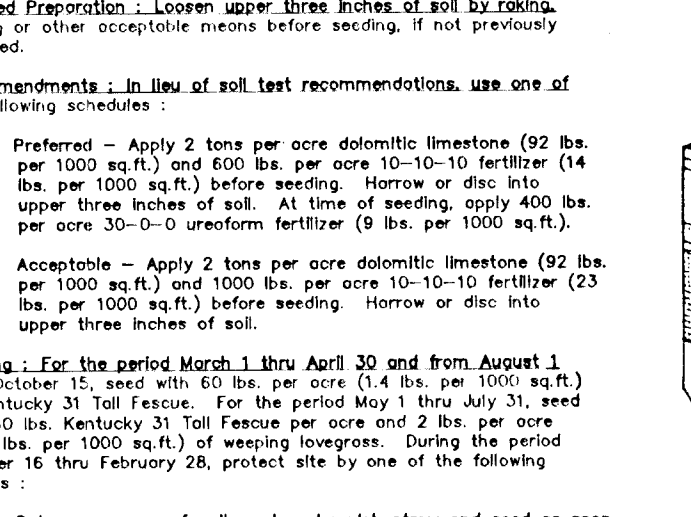
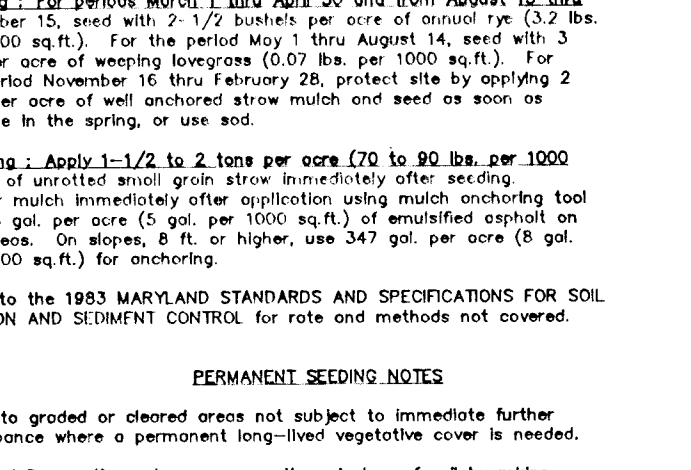
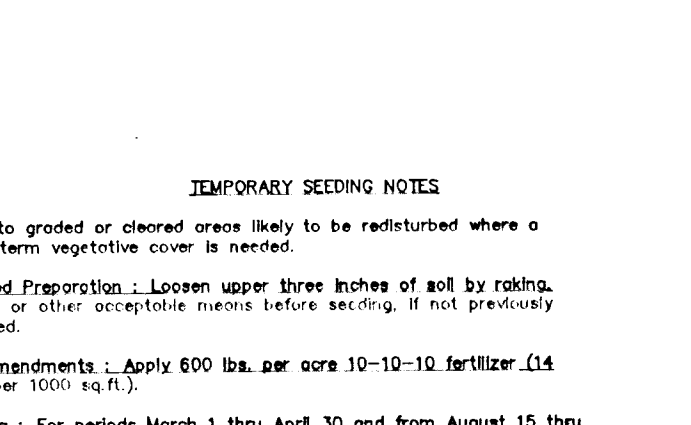
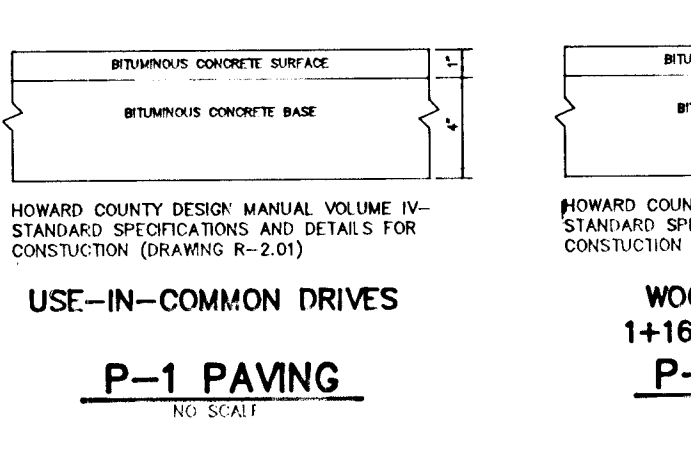
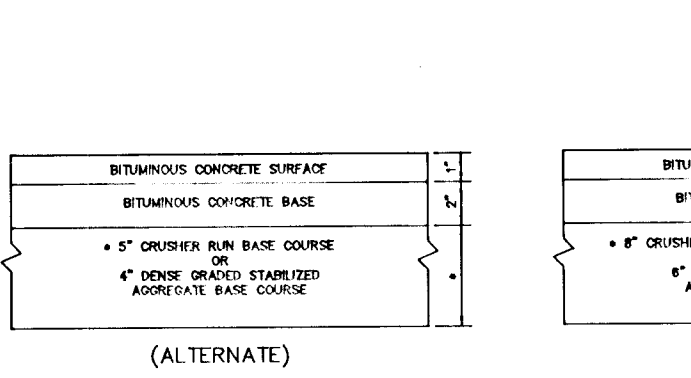
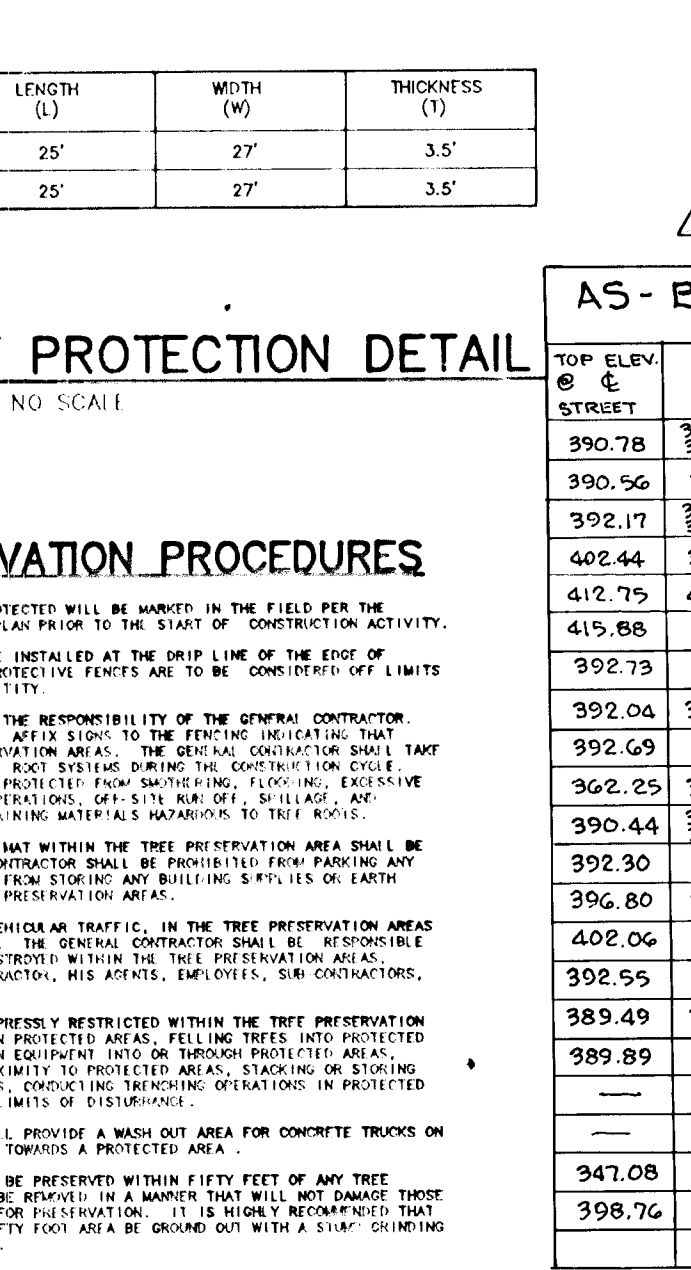
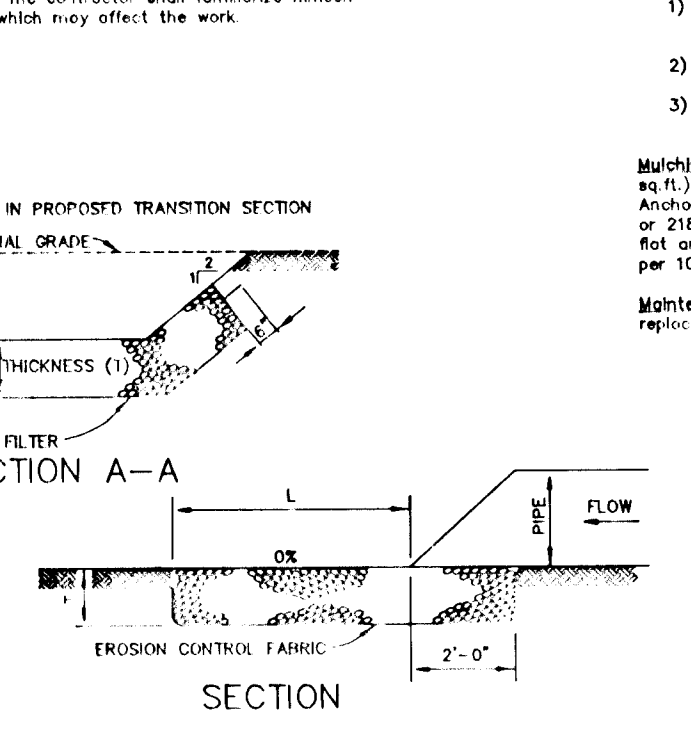
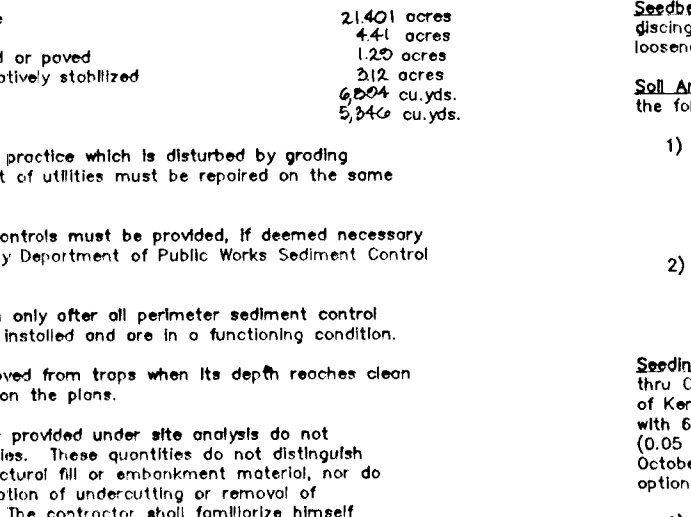
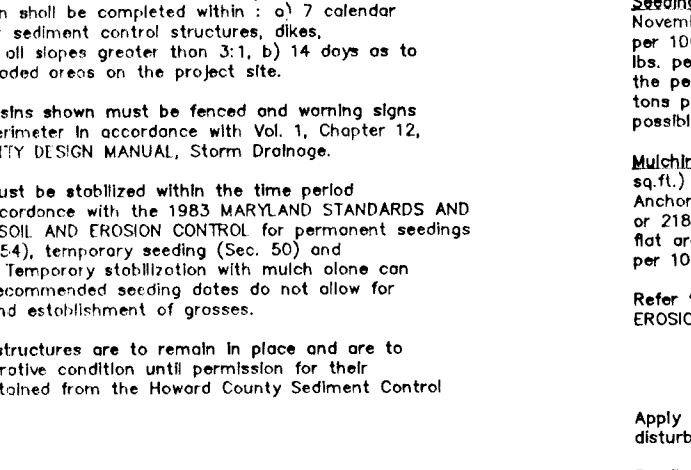
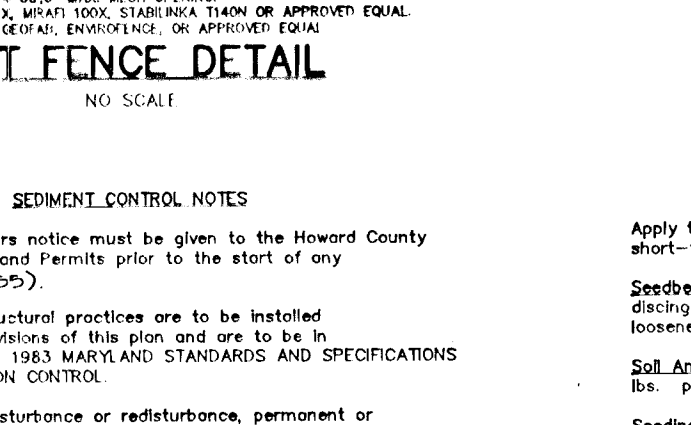
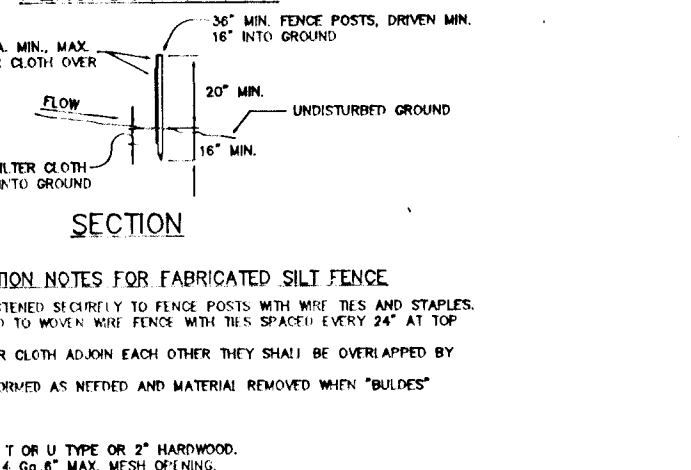
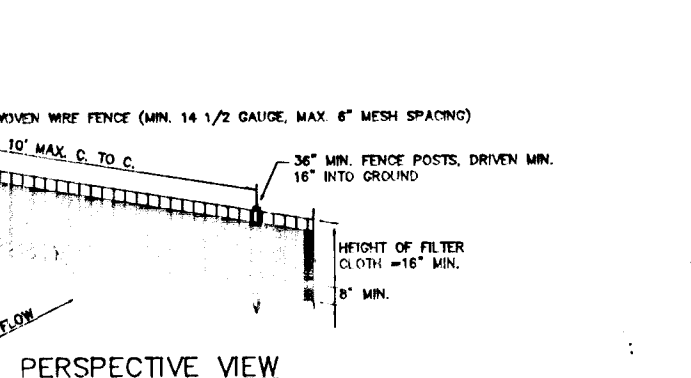
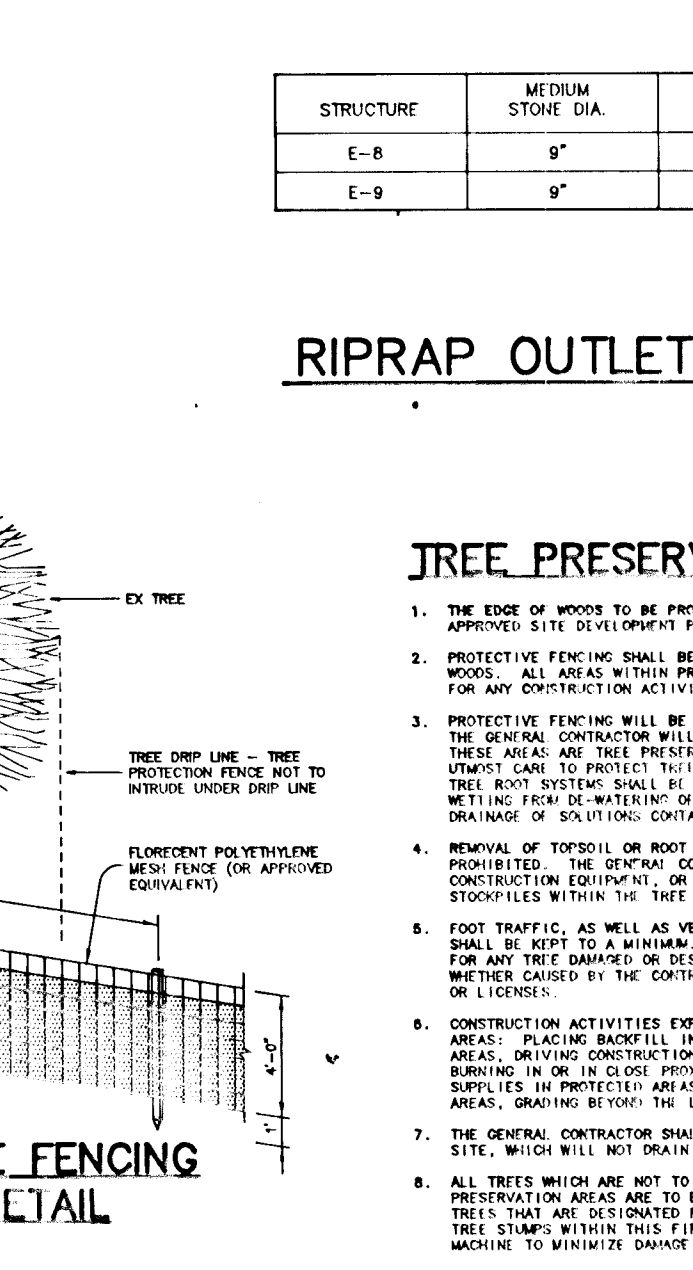
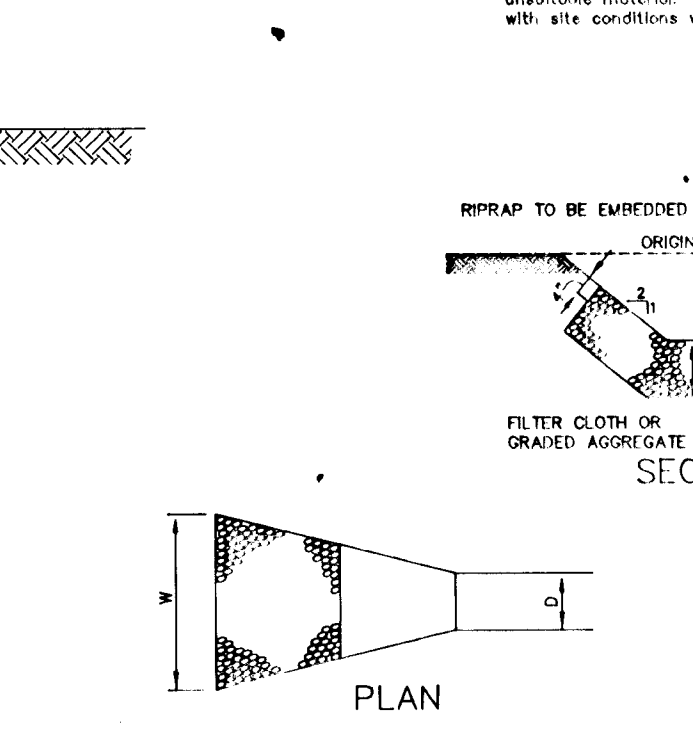
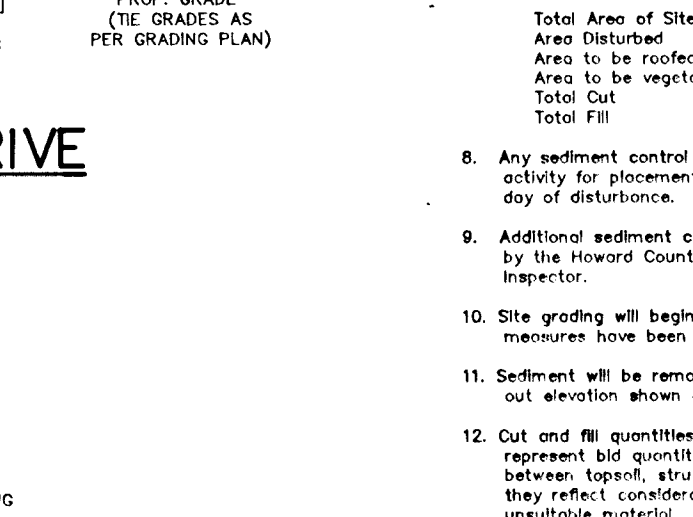
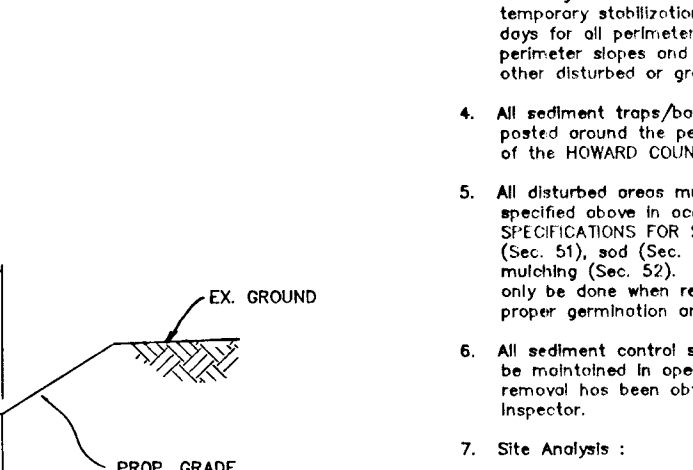
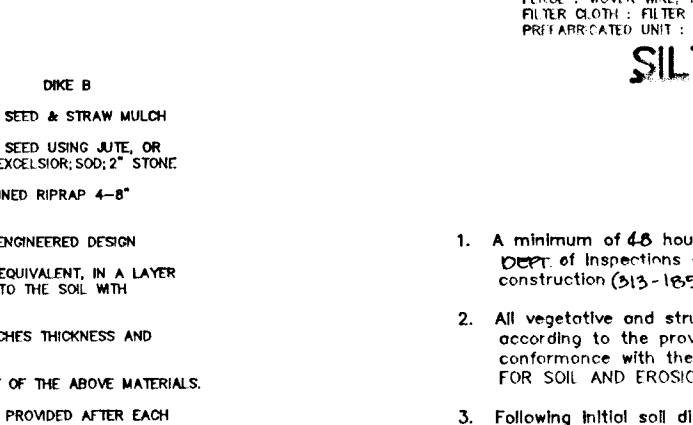
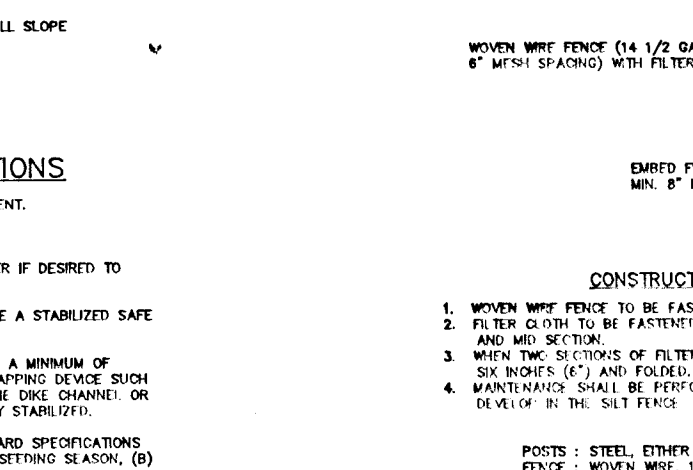
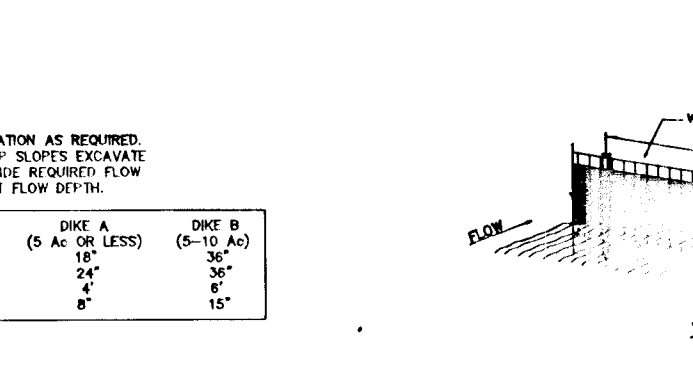
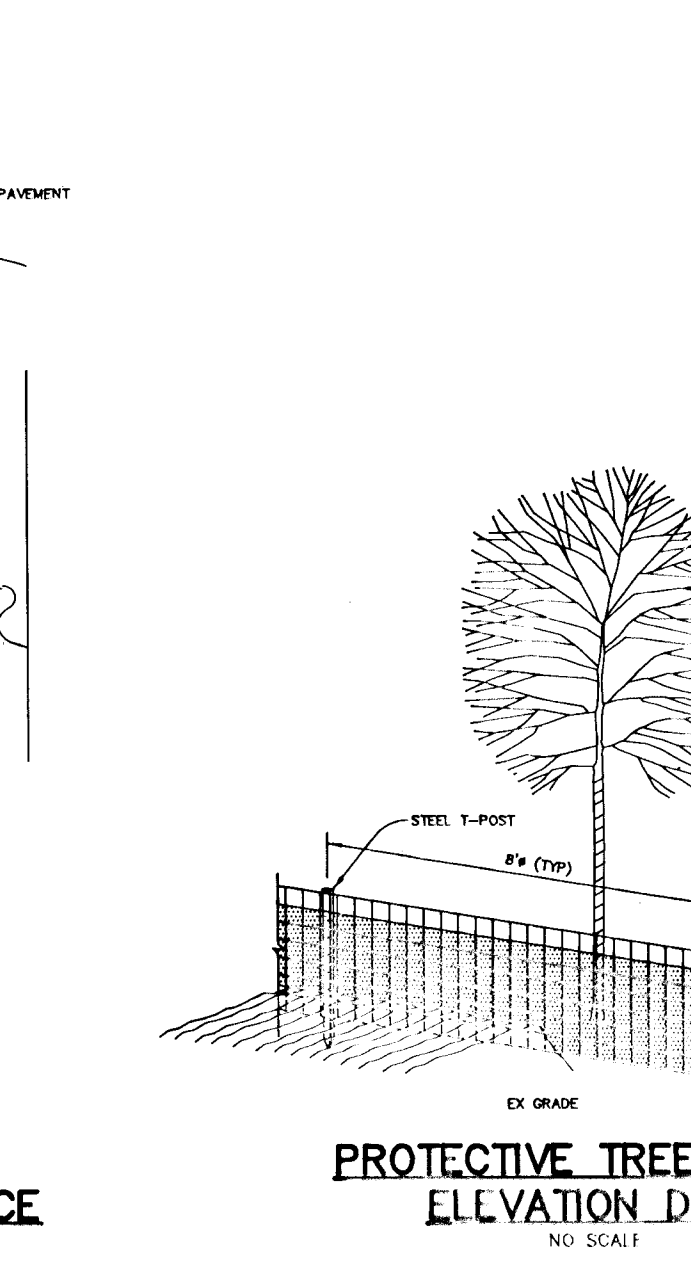
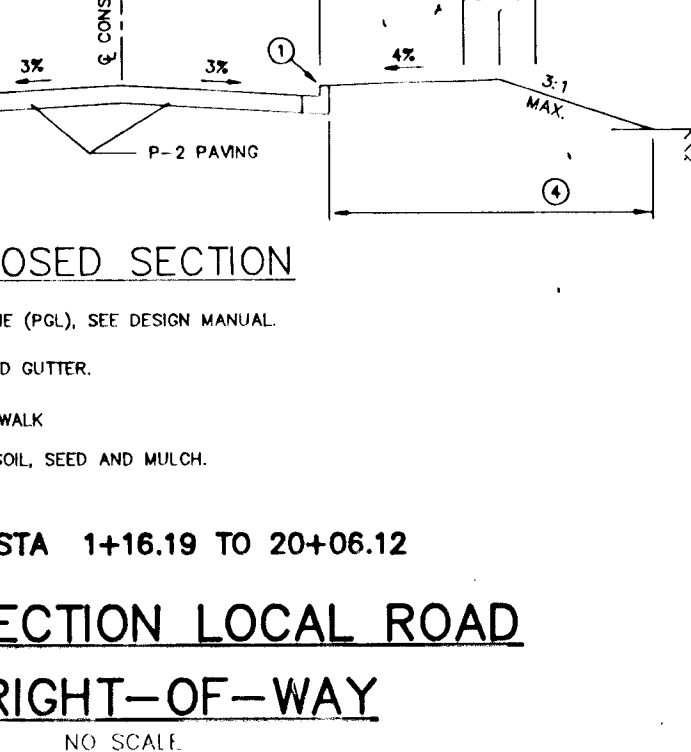
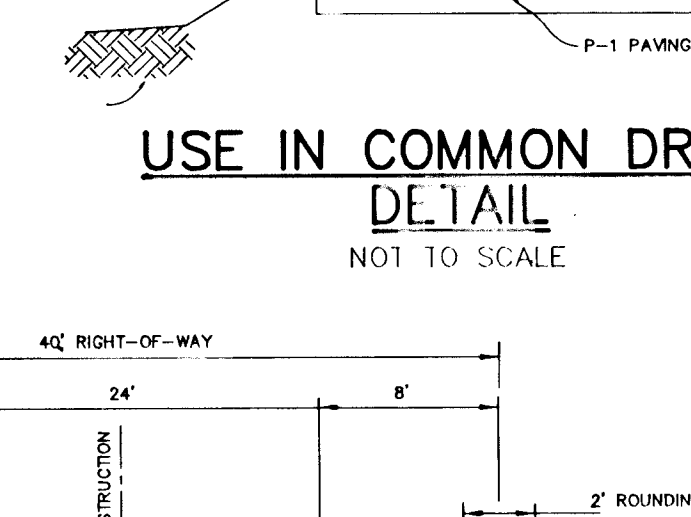
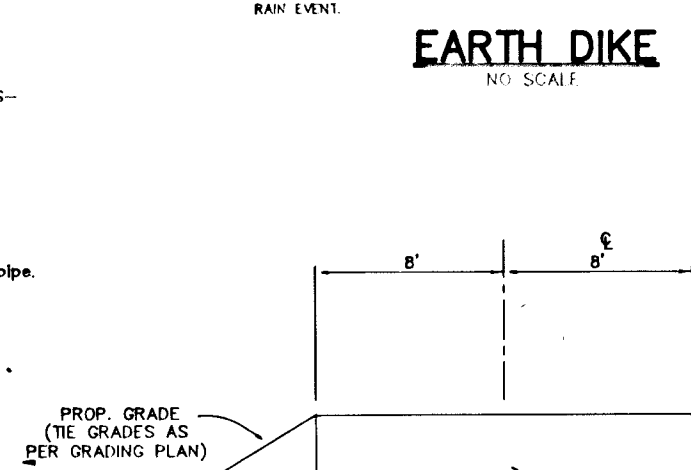
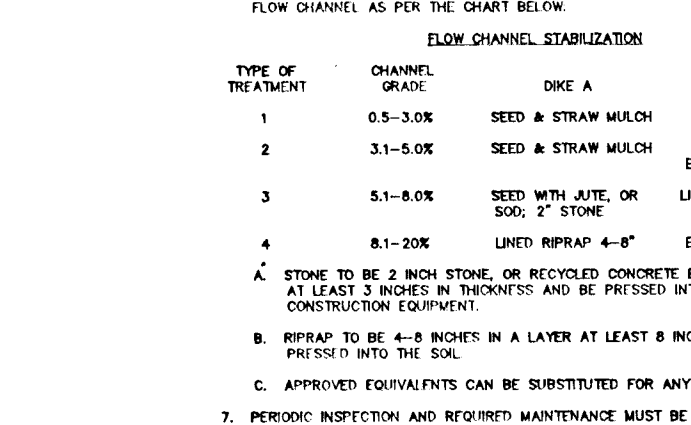
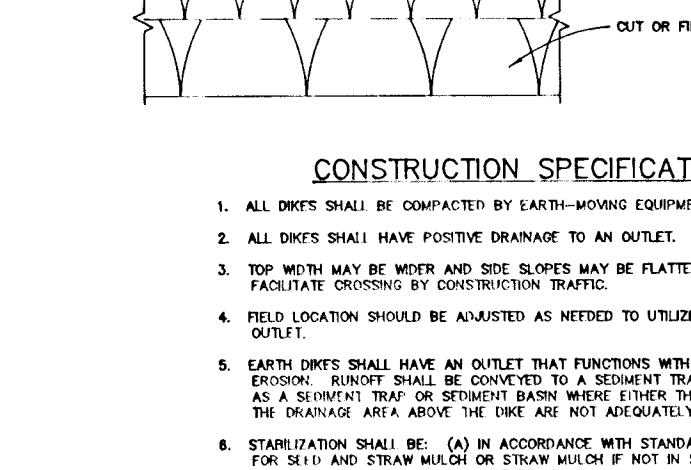
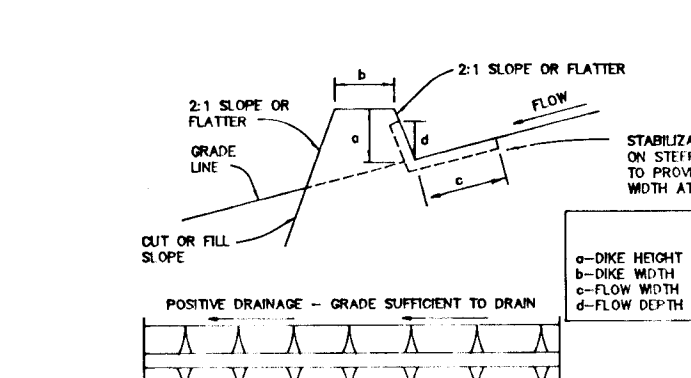
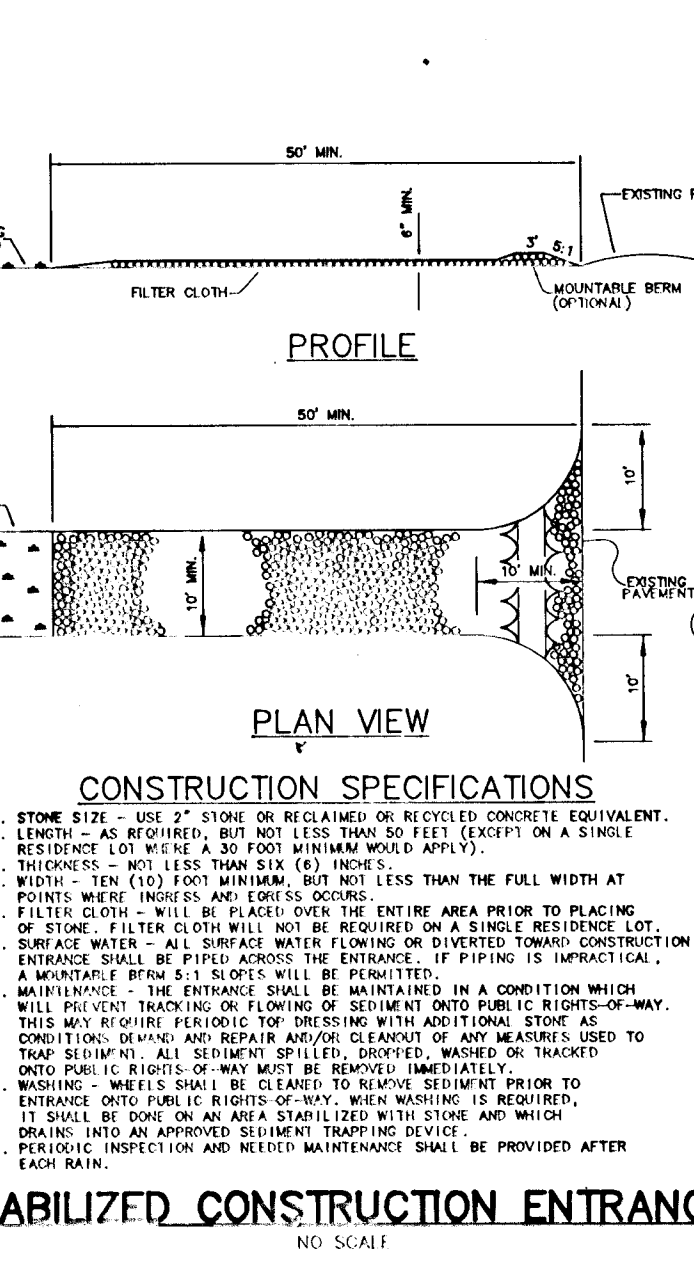
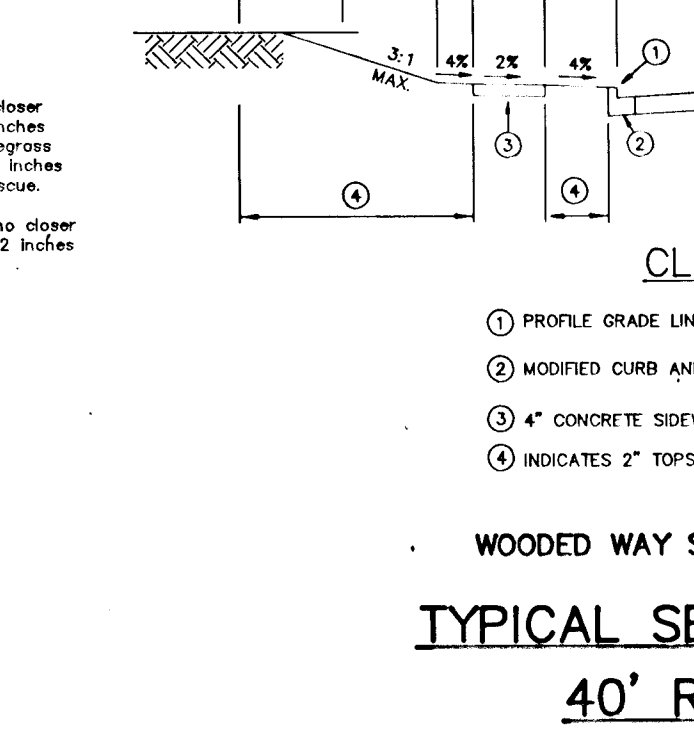
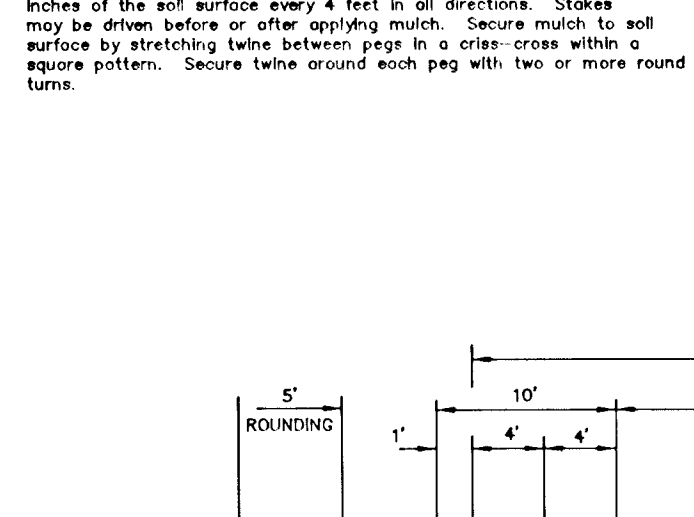
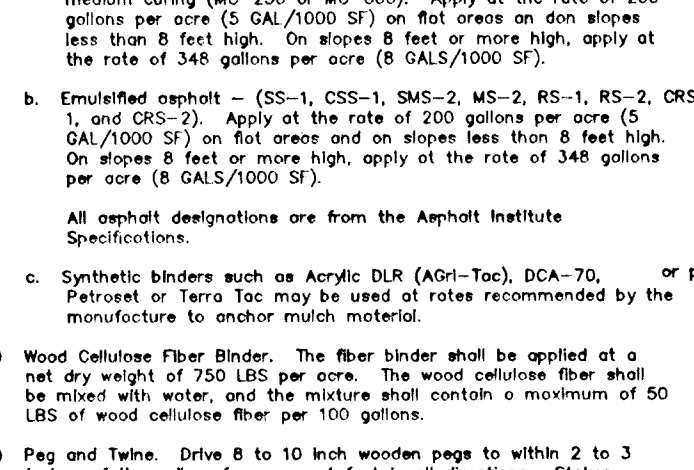
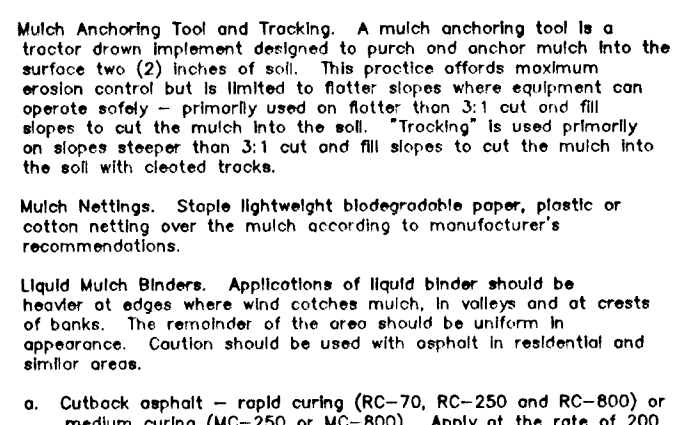
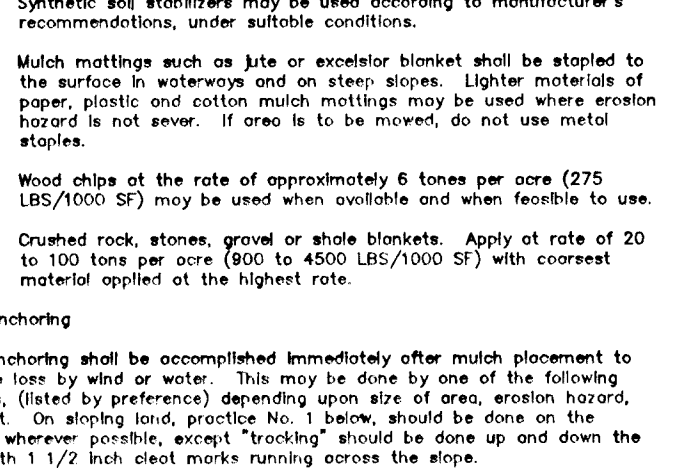
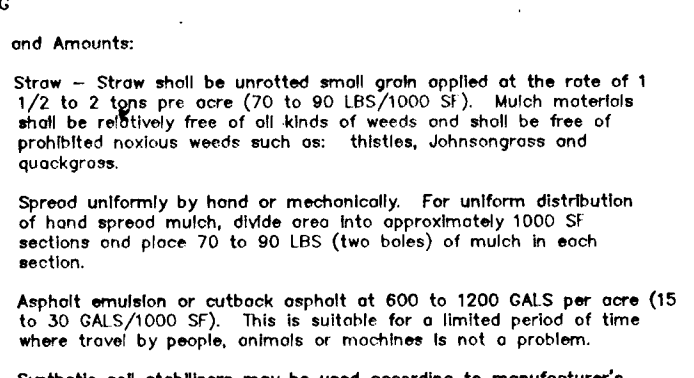
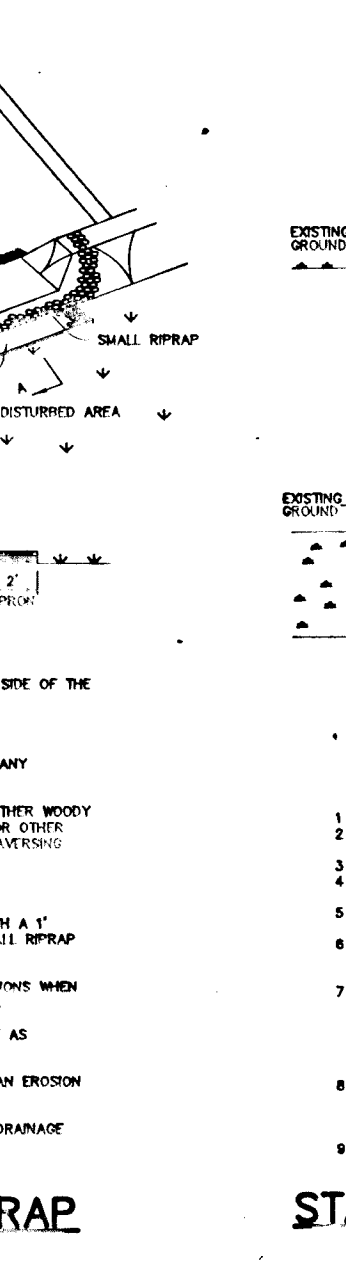
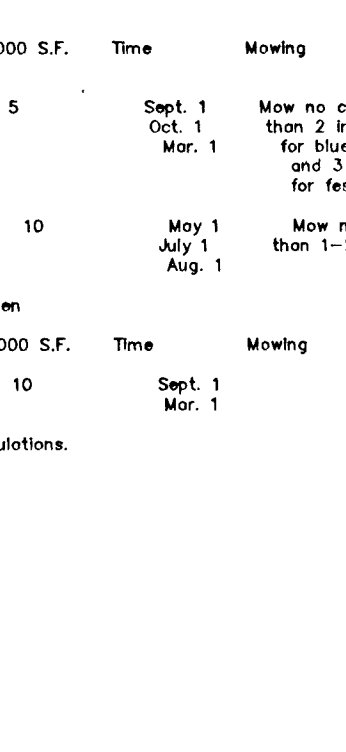
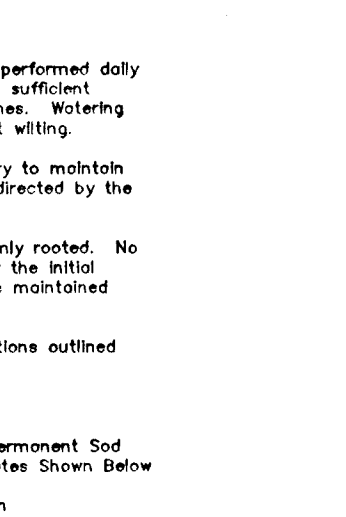
TYPE OF CHANNEL	TYPE A	TYPE B	TYPE C
1	0.5-3.0% SLOPE S&M STRAW MULCH	SEED & STRAW MULCH	
2	3.1-5.0% SLOPE S&M STRAW MULCH	SEED USING ATE, ON EXISTING 500-7" STONE	
3	5.1-8.0% SLOPE S&M STRAW MULCH	LANDING RAMP 4" x 4"	
4	8.1-20% SLOPE S&M STRAW MULCH	LANDING RAMP 4" x 8"	ENGINEER'S DESIGN

**REPAIR TO BE EMBEDDED IN PROPOSED TRANSITION SECTION**

**WOODWAY STA 1+16.19 TO 20+06.12**

**TYPICAL SECTION LOCAL ROAD**  
40' RIGHT-OF-WAY

**NO SCALE**



**AS BUILT CERTIFICATE**

J. Farrell  
1-15-97

JAYKANT D. PAREKH #19140

**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 THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT.

2/1/94

**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.

J. Farrell  
2-2-94

**ENGINEER:** DATE

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

Patricia Engler 2/16/94

**U.S. SOIL CONSERVATION SERVICE** DATE

**APPROVED:** HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

John Robinson 2/16/94

**HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING** DATE

Gina Strimman 4/10/94

**CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH** DATE

**APPROVED:** HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.

3/25/94

**CHIEF, LAND DEVELOPMENT DIVISION** DATE

3-2-94

**CHIEF, BUREAU OF HIGHWAYS** DATE

3/25/94

**CHIEF, BUREAU OF ENGINEERING** DATE

**REVISIONS:**

DATE	NO.	REVISION
1-15-97	1	REVISED STRUCTURE SCHEDULE TO MEET "AS-BUILT"
3/5/99	1	REV. STA. LOC. FOR I-35 & I-240; TOP B'L'S FOR I-35, I-240, I-38, I-34 & I-40; INVERTS FOR I-35 & I-34

**OWNER / DEVELOPER**

JOHN LEE CARROLL, ATTORNEY IN FACT  
515 MADISON AVENUE  
32ND FLOOR  
NEW YORK, N.Y. 10022

WOODLOT ENTERPRISES, INC.  
c/o THOMAS SCRIVENER  
5026 DORSEY HALL DRIVE  
SUITE 204  
COLUMBIA, MD. 21042

**PROJECT:** WOODLOT SECTION II LOTS 93-136

**TITLE:** SEDIMENT CONTROL NOTES AND DETAILS

**RIEMER MUEGGE & ASSOCIATES, INC.**  
Planners & Engineers  
8818 Centre Park Drive, Suite 200 • Columbia, Md 21045  
410-987-8900 FAX: 410-987-9283

2-2-94

7B: 933M SP: 93-13  
WP-93-66 PB: 278 F-93-125

DESIGNED BY: J.T.D.

DRAWN BY: J.C.O.

PROJECT NO: 83017

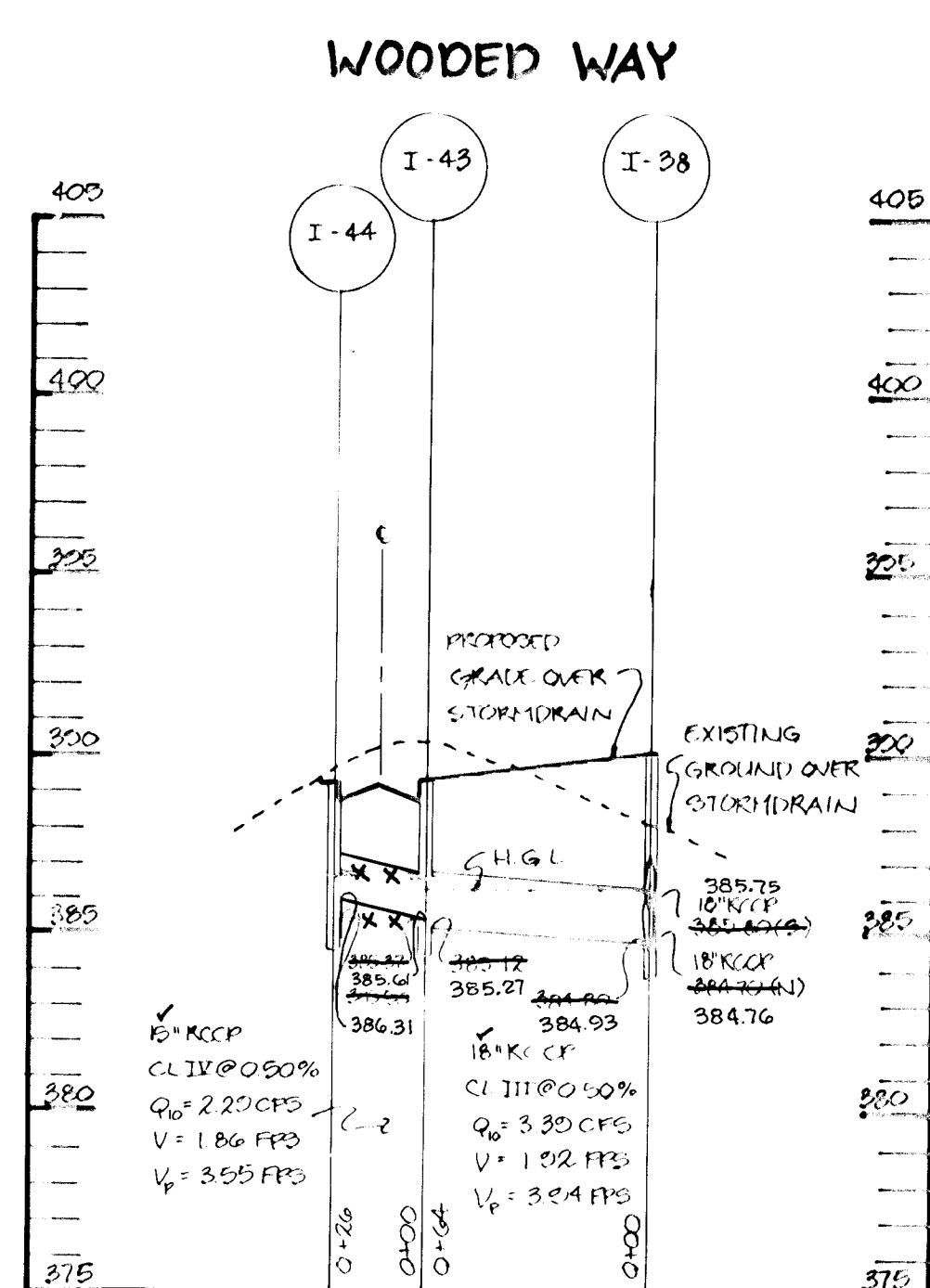
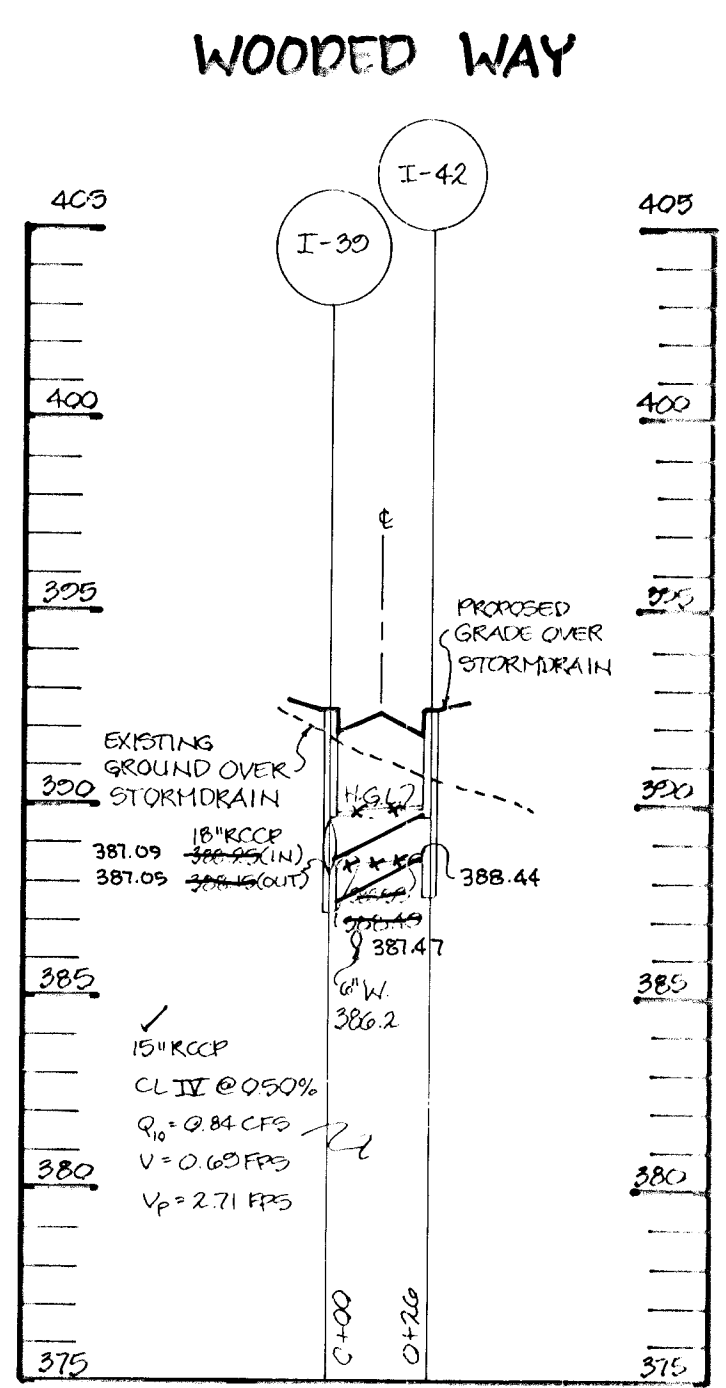
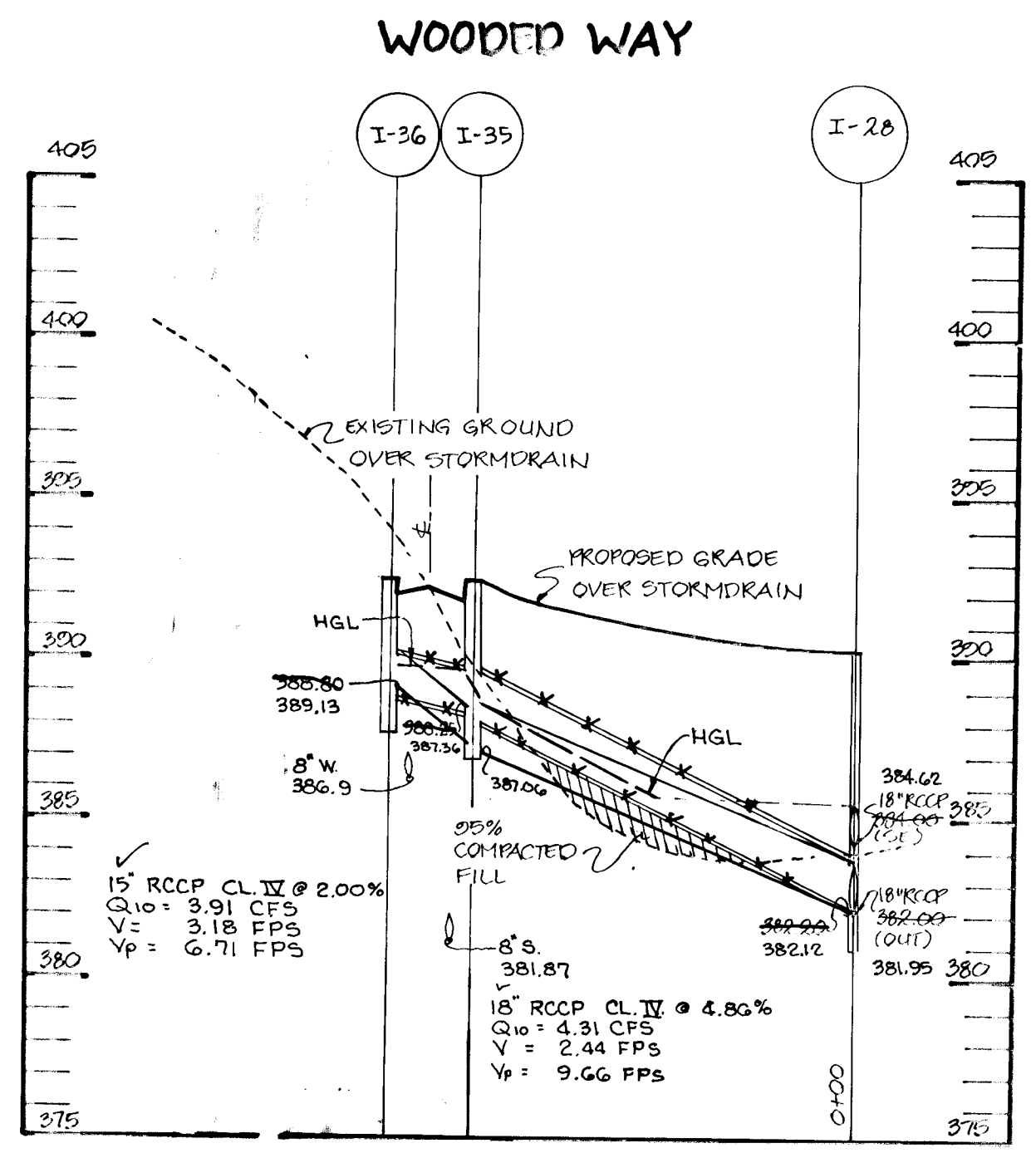
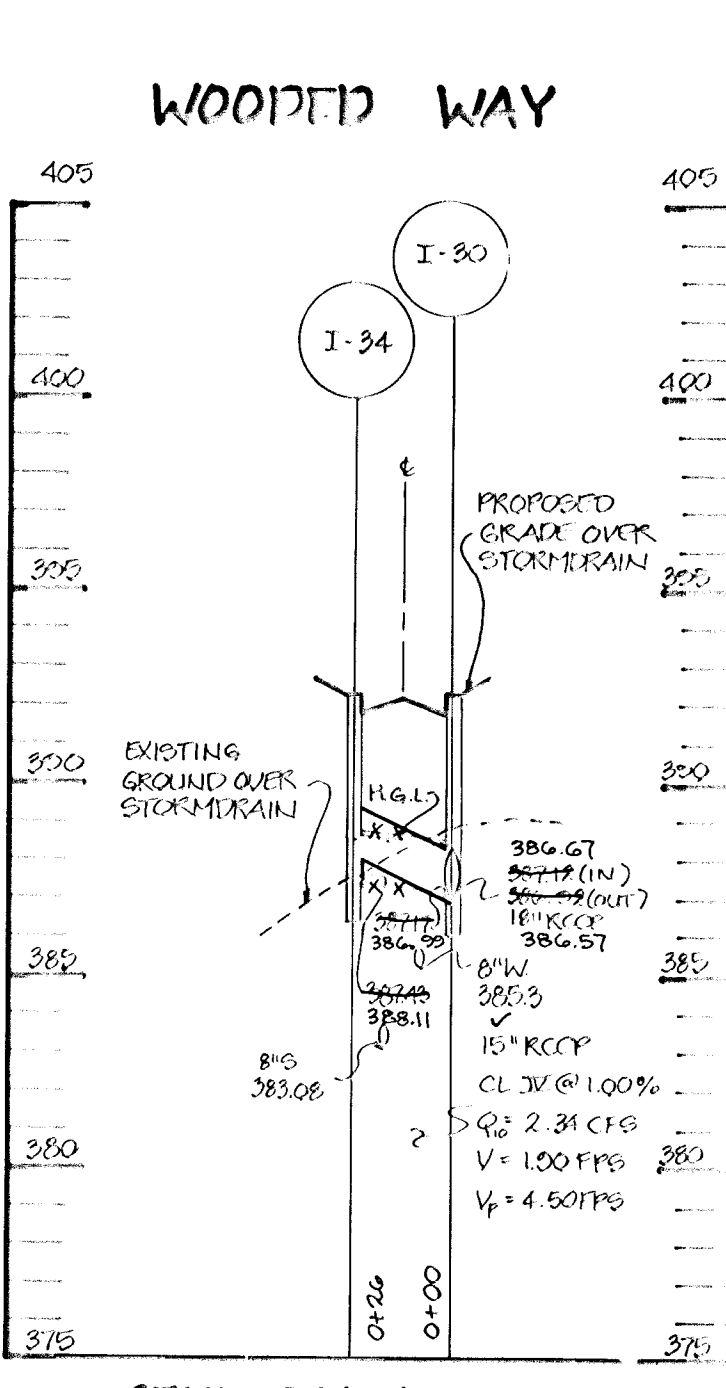
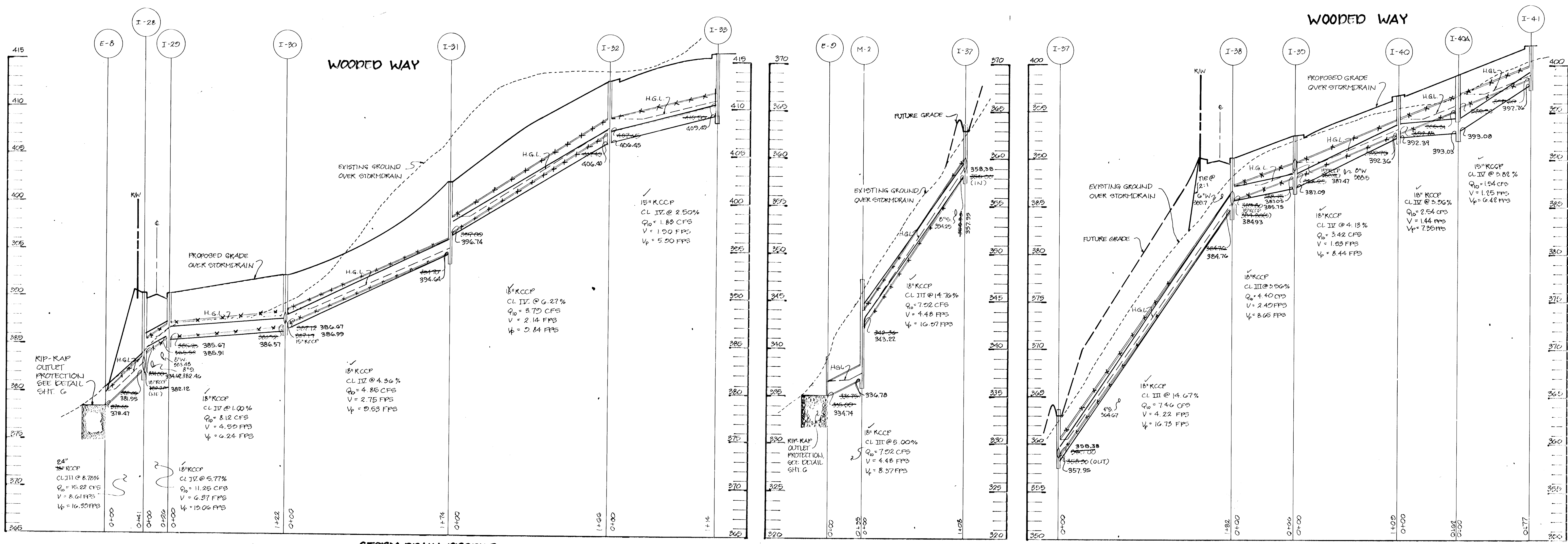
DATE: JANUARY 27, 2004

SCALE: AS SHOWN

DRAWING NO. 6 OF 8

F-04-12

1677



AS BUILT CERTIFICATE

1/15/97

J. Lank

JAYKANT D. PAREKH #19148

1/15/97 LATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

*Gino Drumm* 4/1/94

CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

*Chris Danner* 3/25/94

CHIEF, DIVISION OF GREAT DIVISIONS MK.

*Richard M. Cough* 3-2-94

CHIEF, BUREAU OF HIGHWAYS

*Charles J. Roman* 3/25/94

CHIEF, BUREAU OF ENGINEERING

1-15-97 REV. ALL SD PROFILES FOR "AS-BUILT" SURVEY

3-15-95 REV. SD PROFILE @ WOODED WAY, I-35 & I-36

DATE NO. REVISION

OWNER/DEVELOPER: JOHN LEE CARROLL

ATTORNEY IN FACT: 515 MADISON AVENUE, SUITE 204, NEW YORK, N.Y. 10022

PAV. LAYER: WOODLOT ENTERPRISES, INC., 5020 DORSEY HALL DRIVE, SUITE 204, COLUMBIA, MD. 21045

PROJECT: WOODLOT SECTION II, LOTS 88-186

AREA: TAX MAP 20, PARCEL 2045, 5TH ELECTION DISTRICT, HOWARD COUNTY, MARYLAND

TITLE: STORM DRAIN PROFILES & DETAILS

RIEMER MUEGGE & ASSOCIATES, INC. Planners • Engineers • Surveyors, 8818 Centre Park Drive • Suite 200 • Columbia, Md. 21045, 410-897-8800, FAX: 410-897-8282

2-2-94 DATE

DESIGNED BY: J.T.D.

DRAWN BY: J.C.O.

PROJECT NO: 88017

DATE: JANUARY 27, 1994

SCALE: AS SHOWN

DRAWING NO. 7 OF 8

JAYKANT D. PAREKH #19148

1677



INLET NO.	AREA (ACRES)	'C'	% IMPERVIOUS	ZONING
I-28	0.14	0.67	71	R-12\R-SC
I-29	1.83	0.31	13	R-12\R-SC
I-30	0.87	0.36	23	R\12
I-31	0.56	0.37	25	R-12
I-32	1.05	0.30	13	R-12
I-33	0.70	0.38	26	R-12
I-34	0.54	0.51	46	R-12
I-35	0.70	0.38	26	R-SC
I-36	0.85	0.39	27	R-SC
I-37	0.35	0.28	11	R-SC
I-38	0.13	0.31	15	R-SC
I-39	0.10	0.60	60	R-SC
I-40	0.24	0.40	28	R-SC
I-41	0.43	0.42	33	R-SC
I-42	0.16	0.62	63	R-SC
I-43	0.34	0.40	29	R-SC
I-44	0.52	0.43	44	R-SC
I-45	0.52	0.43	44	R-SC

NOTE: DRAINAGE AREAS SHOWN REPRESENT ULTIMATE GRADING.

INDICATES DRAINAGE DIVIDE

APPROVED : HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.  
*Gina Drumary* 4/6/94  
 CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH

APPROVED : HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.  
*John P. ...* 3/25/94  
 CHIEF, LAND DEVELOPMENT DIVISION

*Robert M. ...* 3-2-94  
 CHIEF, BUREAU OF HIGHWAYS

*Paul ...* 3/25/94  
 CHIEF, BUREAU OF ENGINEERING

3-15-95 | 1 | RELOC. SD INLETS I-35 & I-36

NO.	REVISION
OWNER / DEVELOPER	DEVELOPER
JOHN LEE CARROLL, ATTORNEY IN FACT 515 MADISON AVENUE 32nd FLOOR NEW YORK, N.Y. 10022	WOODLOT ENTERPRISES, INC C/O THOMAS SCRIVENER 5026 DORSEY HALL DRIVE SUITE 204 COLUMBIA, MD. 21042

PROJECT: WOODLOT SECTION II LOTS 93 - 126

AREA: TAX MAP 29 PARCEL 365 5th ELECTION DISTRICT HOWARD COUNTY, MARYLAND

TITLE: DRAINAGE AREA MAP

RIEMER MUEGGE & ASSOCIATES, INC.  
 Planners Engineers Surveyors  
 8818 Centre Park Drive Suite 200 Columbia, MD 21045  
 410-997-8800 FAX: 410-997-9282

2-2-94  
 DATE

DESIGNED BY: J.T.D.

DRAWN BY: J.C.O.

PROJECT NO: 83017

DATE: JANUARY 27, 1994

SCALE: 1"=100'

DRAWING NO. 8 OF 8

JAYKANT D. PAREKH #19148

1677