

ENGINEER'S CERTIFICATE
 "I certify that this plan for pond construction, erosion and sediment control represents a practical and workable plan based on my personal knowledge of the site conditions. This plan was prepared in accordance with the requirements of the Howard Soil Conservation District. I have notified the developer that he must provide the Howard Soil Conservation District with an "as-built" plan of the pond within 30 days of completion."
Thomas L. Wiley
 THOMAS L. WILEY, MD. REG. NO. 9273
 DATE 3/2/89

DEVELOPER'S CERTIFICATE
 "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 Natural Resources Approved Training Program for the Control of Sediment and Erosion before beginning the project. I will provide the Howard Soil Conservation District with an "as-built" plan of the pond within 30 days of completion. I also authorize periodic on-site inspections by the Howard Soil Conservation District."
Kenneth G. Malm
 KENNETH G. MALM
 DATE 3/22/89

These plans have been reviewed for the Howard Soil Conservation District and meet the technical requirements for erosion and sediment control.
U.S. Soil Conservation Service
 DATE 4/11/89

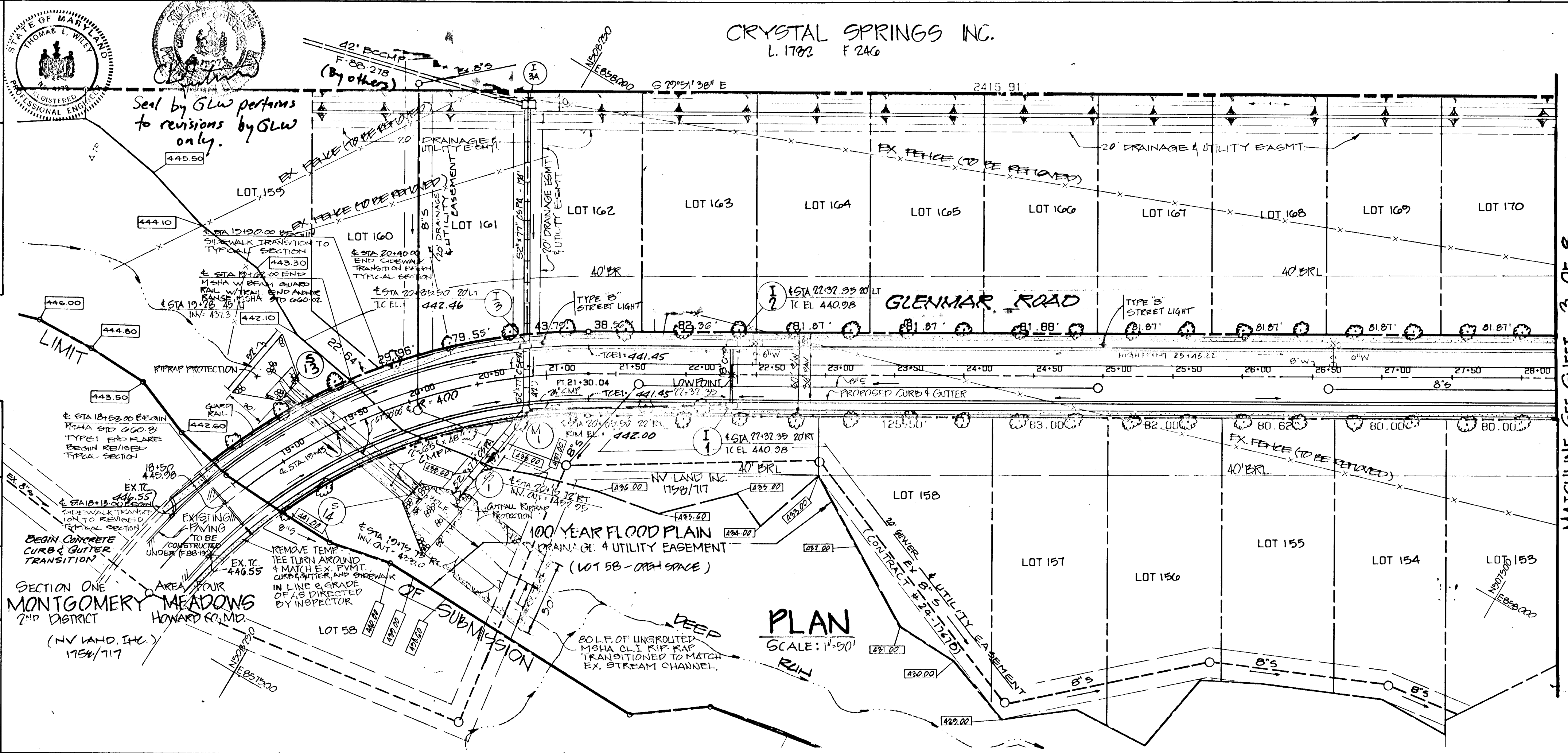
These plans for pond construction, soil erosion and sediment control meet the requirements of the Howard Soil Conservation District.
 APPROVED HOWARD COUNTY OFFICE OF PLANNING AND ZONING
 DATE 4/10/89

APPROVED HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT
 DATE 6/2/89

APPROVED HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 CHIEF, LAND DEVELOPMENT DIVISION
 DATE 6/7/89

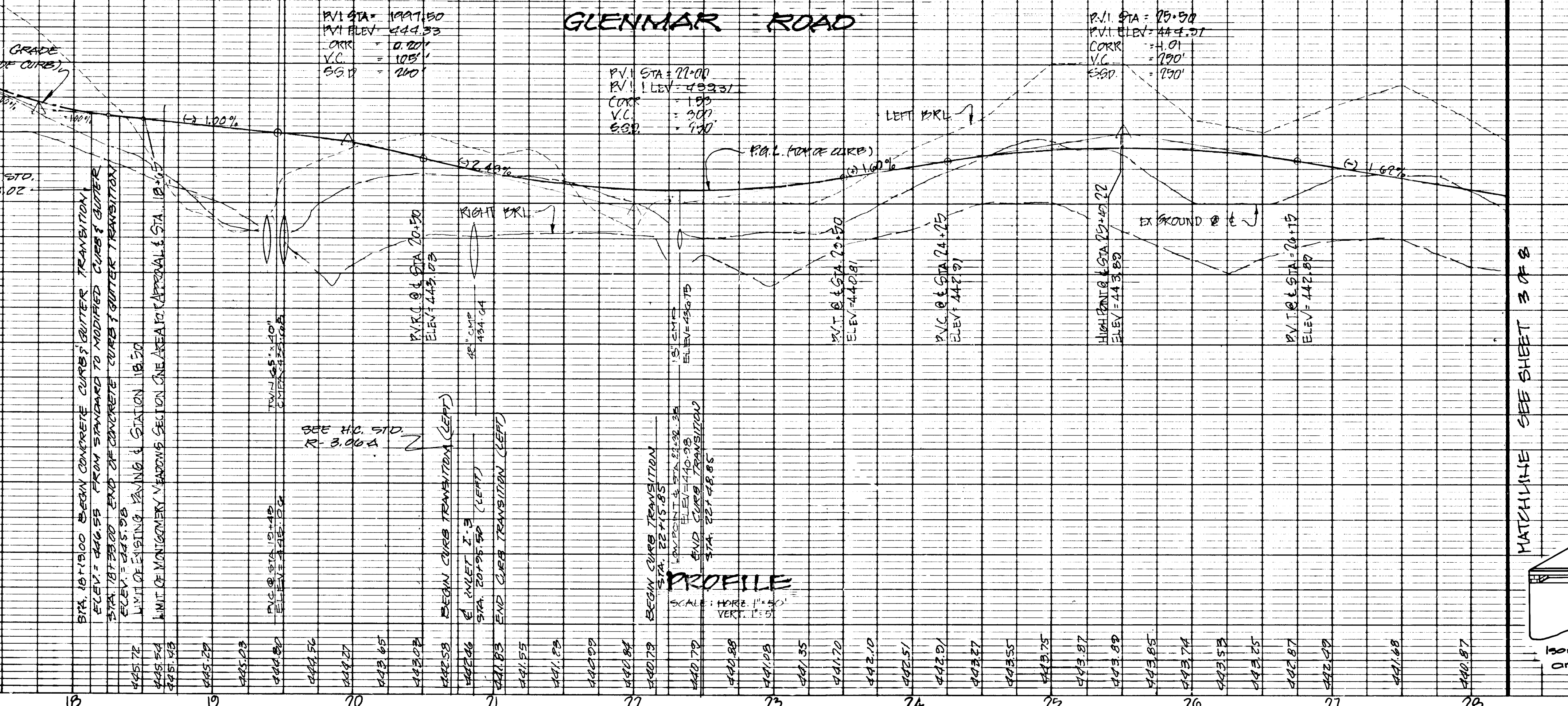
APPROVED HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 CHIEF, BUREAU OF HIGHWAYS
 DATE 6/7/89

APPROVED HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 CHIEF, BUREAU OF ENGINEERING
 DATE 6/8/89



PROFILE
 SCALE: HORIZ. 1"=40'
 VERT. 1"=4'

STATION	ELEVATION	DESCRIPTION
10+00	440.00	EXISTING GRADE
10+50	440.50	EXISTING GRADE
11+00	441.00	EXISTING GRADE
11+50	441.50	EXISTING GRADE
12+00	442.00	EXISTING GRADE
12+50	442.50	EXISTING GRADE
13+00	443.00	EXISTING GRADE
13+50	443.50	EXISTING GRADE
14+00	444.00	EXISTING GRADE
14+50	444.50	EXISTING GRADE
15+00	445.00	EXISTING GRADE
15+50	445.50	EXISTING GRADE
16+00	446.00	EXISTING GRADE
16+50	446.50	EXISTING GRADE
17+00	447.00	EXISTING GRADE
17+50	447.50	EXISTING GRADE
18+00	448.00	EXISTING GRADE
18+50	448.50	EXISTING GRADE
19+00	449.00	EXISTING GRADE
19+50	449.50	EXISTING GRADE
20+00	450.00	EXISTING GRADE
20+50	450.50	EXISTING GRADE
21+00	451.00	EXISTING GRADE
21+50	451.50	EXISTING GRADE
22+00	452.00	EXISTING GRADE
22+50	452.50	EXISTING GRADE
23+00	453.00	EXISTING GRADE
23+50	453.50	EXISTING GRADE
24+00	454.00	EXISTING GRADE
24+50	454.50	EXISTING GRADE
25+00	455.00	EXISTING GRADE
25+50	455.50	EXISTING GRADE
26+00	456.00	EXISTING GRADE
26+50	456.50	EXISTING GRADE
27+00	457.00	EXISTING GRADE
27+50	457.50	EXISTING GRADE
28+00	458.00	EXISTING GRADE
28+50	458.50	EXISTING GRADE
29+00	459.00	EXISTING GRADE
29+50	459.50	EXISTING GRADE
30+00	460.00	EXISTING GRADE
30+50	460.50	EXISTING GRADE
31+00	461.00	EXISTING GRADE
31+50	461.50	EXISTING GRADE
32+00	462.00	EXISTING GRADE
32+50	462.50	EXISTING GRADE
33+00	463.00	EXISTING GRADE
33+50	463.50	EXISTING GRADE
34+00	464.00	EXISTING GRADE
34+50	464.50	EXISTING GRADE
35+00	465.00	EXISTING GRADE
35+50	465.50	EXISTING GRADE
36+00	466.00	EXISTING GRADE
36+50	466.50	EXISTING GRADE
37+00	467.00	EXISTING GRADE
37+50	467.50	EXISTING GRADE
38+00	468.00	EXISTING GRADE
38+50	468.50	EXISTING GRADE
39+00	469.00	EXISTING GRADE
39+50	469.50	EXISTING GRADE
40+00	470.00	EXISTING GRADE
40+50	470.50	EXISTING GRADE
41+00	471.00	EXISTING GRADE
41+50	471.50	EXISTING GRADE
42+00	472.00	EXISTING GRADE
42+50	472.50	EXISTING GRADE
43+00	473.00	EXISTING GRADE
43+50	473.50	EXISTING GRADE
44+00	474.00	EXISTING GRADE
44+50	474.50	EXISTING GRADE
45+00	475.00	EXISTING GRADE
45+50	475.50	EXISTING GRADE
46+00	476.00	EXISTING GRADE
46+50	476.50	EXISTING GRADE
47+00	477.00	EXISTING GRADE
47+50	477.50	EXISTING GRADE
48+00	478.00	EXISTING GRADE
48+50	478.50	EXISTING GRADE
49+00	479.00	EXISTING GRADE
49+50	479.50	EXISTING GRADE
50+00	480.00	EXISTING GRADE
50+50	480.50	EXISTING GRADE
51+00	481.00	EXISTING GRADE
51+50	481.50	EXISTING GRADE
52+00	482.00	EXISTING GRADE
52+50	482.50	EXISTING GRADE
53+00	483.00	EXISTING GRADE
53+50	483.50	EXISTING GRADE
54+00	484.00	EXISTING GRADE
54+50	484.50	EXISTING GRADE
55+00	485.00	EXISTING GRADE
55+50	485.50	EXISTING GRADE
56+00	486.00	EXISTING GRADE
56+50	486.50	EXISTING GRADE
57+00	487.00	EXISTING GRADE
57+50	487.50	EXISTING GRADE
58+00	488.00	EXISTING GRADE
58+50	488.50	EXISTING GRADE
59+00	489.00	EXISTING GRADE
59+50	489.50	EXISTING GRADE
60+00	490.00	EXISTING GRADE
60+50	490.50	EXISTING GRADE
61+00	491.00	EXISTING GRADE
61+50	491.50	EXISTING GRADE
62+00	492.00	EXISTING GRADE
62+50	492.50	EXISTING GRADE
63+00	493.00	EXISTING GRADE
63+50	493.50	EXISTING GRADE
64+00	494.00	EXISTING GRADE
64+50	494.50	EXISTING GRADE
65+00	495.00	EXISTING GRADE
65+50	495.50	EXISTING GRADE
66+00	496.00	EXISTING GRADE
66+50	496.50	EXISTING GRADE
67+00	497.00	EXISTING GRADE
67+50	497.50	EXISTING GRADE
68+00	498.00	EXISTING GRADE
68+50	498.50	EXISTING GRADE
69+00	499.00	EXISTING GRADE
69+50	499.50	EXISTING GRADE
70+00	500.00	EXISTING GRADE
70+50	500.50	EXISTING GRADE
71+00	501.00	EXISTING GRADE
71+50	501.50	EXISTING GRADE
72+00	502.00	EXISTING GRADE
72+50	502.50	EXISTING GRADE
73+00	503.00	EXISTING GRADE
73+50	503.50	EXISTING GRADE
74+00	504.00	EXISTING GRADE
74+50	504.50	EXISTING GRADE
75+00	505.00	EXISTING GRADE
75+50	505.50	EXISTING GRADE
76+00	506.00	EXISTING GRADE
76+50	506.50	EXISTING GRADE
77+00	507.00	EXISTING GRADE
77+50	507.50	EXISTING GRADE
78+00	508.00	EXISTING GRADE
78+50	508.50	EXISTING GRADE
79+00	509.00	EXISTING GRADE
79+50	509.50	EXISTING GRADE
80+00	510.00	EXISTING GRADE
80+50	510.50	EXISTING GRADE
81+00	511.00	EXISTING GRADE
81+50	511.50	EXISTING GRADE
82+00	512.00	EXISTING GRADE
82+50	512.50	EXISTING GRADE
83+00	513.00	EXISTING GRADE
83+50	513.50	EXISTING GRADE
84+00	514.00	EXISTING GRADE
84+50	514.50	EXISTING GRADE
85+00	515.00	EXISTING GRADE
85+50	515.50	EXISTING GRADE
86+00	516.00	EXISTING GRADE
86+50	516.50	EXISTING GRADE
87+00	517.00	EXISTING GRADE
87+50	517.50	EXISTING GRADE
88+00	518.00	EXISTING GRADE
88+50	518.50	EXISTING GRADE
89+00	519.00	EXISTING GRADE
89+50	519.50	EXISTING GRADE
90+00	520.00	EXISTING GRADE
90+50	520.50	EXISTING GRADE
91+00	521.00	EXISTING GRADE
91+50	521.50	EXISTING GRADE
92+00	522.00	EXISTING GRADE
92+50	522.50	EXISTING GRADE
93+00	523.00	EXISTING GRADE
93+50	523.50	EXISTING GRADE
94+00	524.00	EXISTING GRADE
94+50	524.50	EXISTING GRADE
95+00	525.00	EXISTING GRADE
95+50	525.50	EXISTING GRADE
96+00	526.00	EXISTING GRADE
96+50	526.50	EXISTING GRADE
97+00	527.00	EXISTING GRADE
97+50	527.50	EXISTING GRADE
98+00	528.00	EXISTING GRADE
98+50	528.50	EXISTING GRADE
99+00	529.00	EXISTING GRADE
99+50	529.50	EXISTING GRADE
100+00	530.00	EXISTING GRADE
100+50	530.50	EXISTING GRADE



MARYLAND STATE GRID SYSTEM

NOTE: STREET TREES 2 1/2" MIN. CALIPER PLANTED @ 40'
 OR SEE PLANTING DETAIL SHEET 5 OF 8

LANDSCAPE TABULATION

SYMBOL	NO.	NAME	SIZE	REMARKS
☉	93	ACER SACCHARUM (SUGAR MAPLE)	2 1/2" CAL. (MIN)	B + B

LIGHTING LEGEND
 ● TYPE 'B' 250 WATT MERCURY VAPOR LAMP PENDANT MOUNTED FIXTURES ON 25 FOOT GALVANIZED STEEL POLE

REVISIONS

DATE	BY	DESCRIPTION
5/27/93	MCF	REV. 1712 I-3A BY GLW
SEPT 20 1989	ERB	CHANGE STANDARD CURB & GUTTER TO MODIFIED CURB & GUTTER
7-25-89	KA	171161 S.E. (H.W. 2) CONTROL

MONTGOMERY MEADOWS
 SECTION ONE AREA THREE
 LOT 153 THRU LOT 187
 2ND ELECTION DISTRICT HOWARD COUNTY, MARYLAND

PLAN AND PROFILE
 GLENMAR ROAD

OWNER / DEVELOPER
 NV LAND, INC.
 6820 ELM STREET
 MCLEAN, VIRGINIA 22101

SCALE AS SHOWN DATE APRIL 98 SHEET 2 OF 8
 DESIGNED BY MJP DRAWN BY KDH CHECKED BY DAD/E

DEWBERRY & DAVIS
 ENGINEERS ARCHITECTS PLANNERS SURVEYORS
 3300 NORTH RIDGE ROAD
 ELLICOTT CITY, MARYLAND 21043
 (301) 461-7478

MATCHLINE SEE SHEET 3 OF 8

MATCHLINE SEE SHEET 3 OF 8

1443

ENGINEER'S CERTIFICATE
 "I certify that this plan, showing the location, erosion and sediment control represents a practical and workable plan based on my personal knowledge of the site conditions. This plan was prepared in accordance with the requirements of the Howard Soil Conservation District. I have notified the developer that he must provide the Howard Soil Conservation District with an "as-built" plan of the pond within 30 days of completion."
Thomas H. Wiley 3/21/89
 THOMAS H. WILEY, MD. REG. NO. 9273 DATE

DEVELOPER'S CERTIFICATE
 "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 Natural Resources Approved Training Program for the Control of Sediment and Erosion before beginning the project. I will provide the Howard Soil Conservation District with an "as-built" plan of the pond within 30 days of completion. I also authorize periodic on-site inspections by the Howard Soil Conservation District."
Kenneth G. Malm 3/22/89
 KENNETH G. MALM DATE

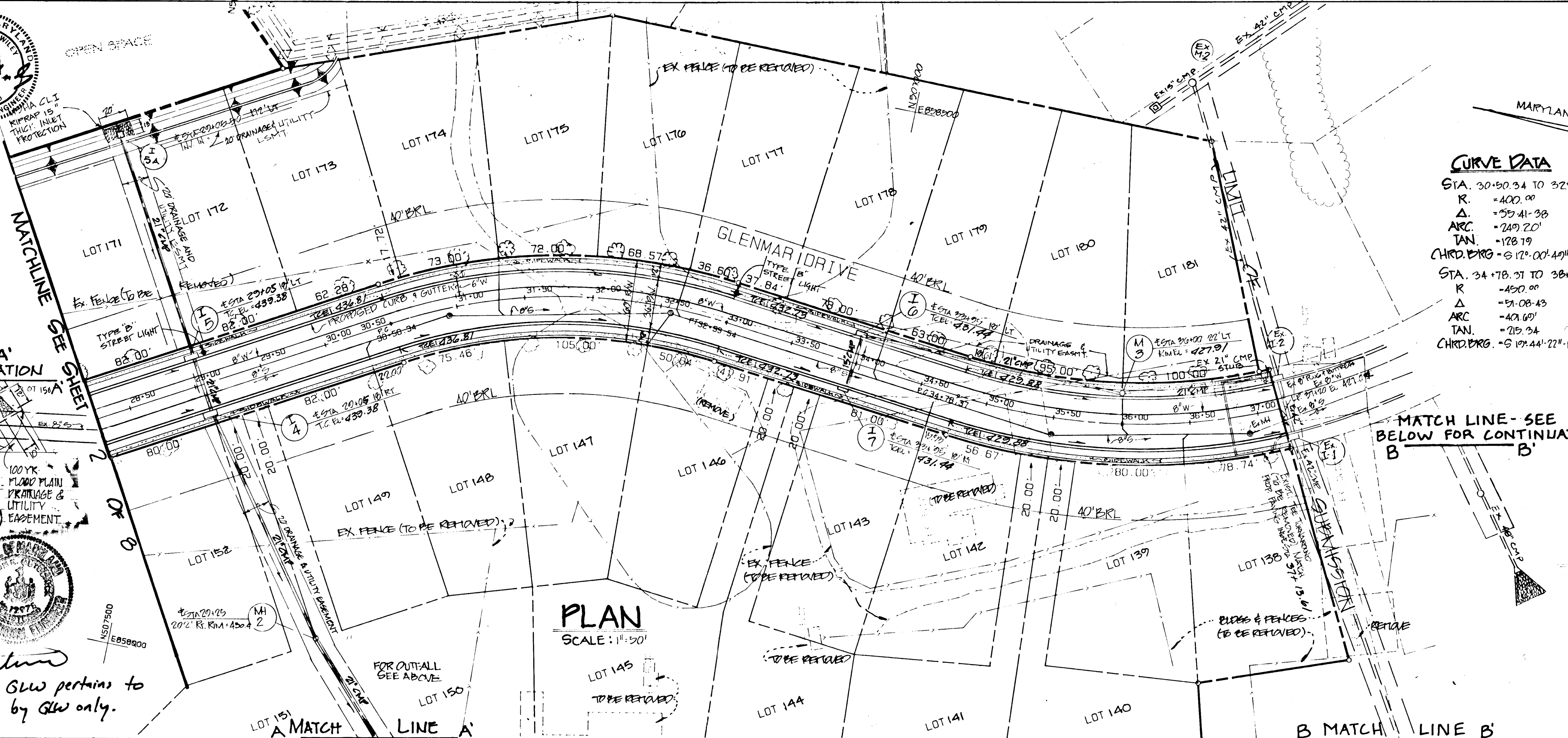


APPROVED HOWARD COUNTY OFFICE OF PLANNING AND ZONING
John S. J. Campbell 4/24/89
 CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT

APPROVED HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
Donald J. Seaman 6/7/89
 CHIEF, LAND DEVELOPMENT DIVISION

APPROVED HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
William W. Westland 6/7/89
 CHIEF, BUREAU OF HIGHWAYS

APPROVED HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
William W. Westland 6/8/89
 CHIEF, BUREAU OF ENGINEERING



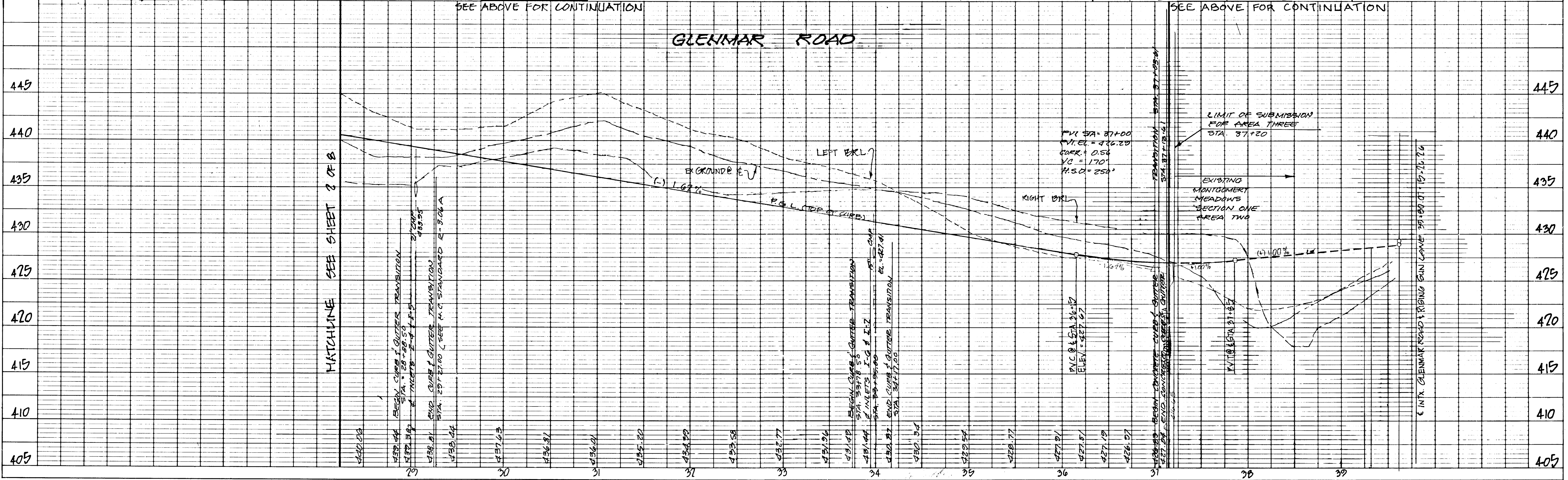
CURVE DATA
 STA. 30+50.34 TO 32+00.54
 R. = 400.00
 Δ. = 55°41'38"
 ARC. = 74°20'
 TAN. = 128.19
 CHRD. B'RG. = S 12° 00' 49" E 245.18'
 STA. 34+78.31 TO 38+80.00
 R. = 450.00
 Δ. = 51°08'43"
 ARC. = 40.60'
 TAN. = 205.24
 CHRD. B'RG. = S 12° 44' 22" E 268.40'

STREET TREES 2 1/2" MIN. CALIBER PLANTED @ 40' O.C. SEE PLANTING DETAIL SHEET 208B

date	by	description
3/21/89	MCF	change 3-4 to I-5A by GLW

PLAN	NO. 1
NOTE BOOK	NO. 1
BY	DATE
BY	DATE

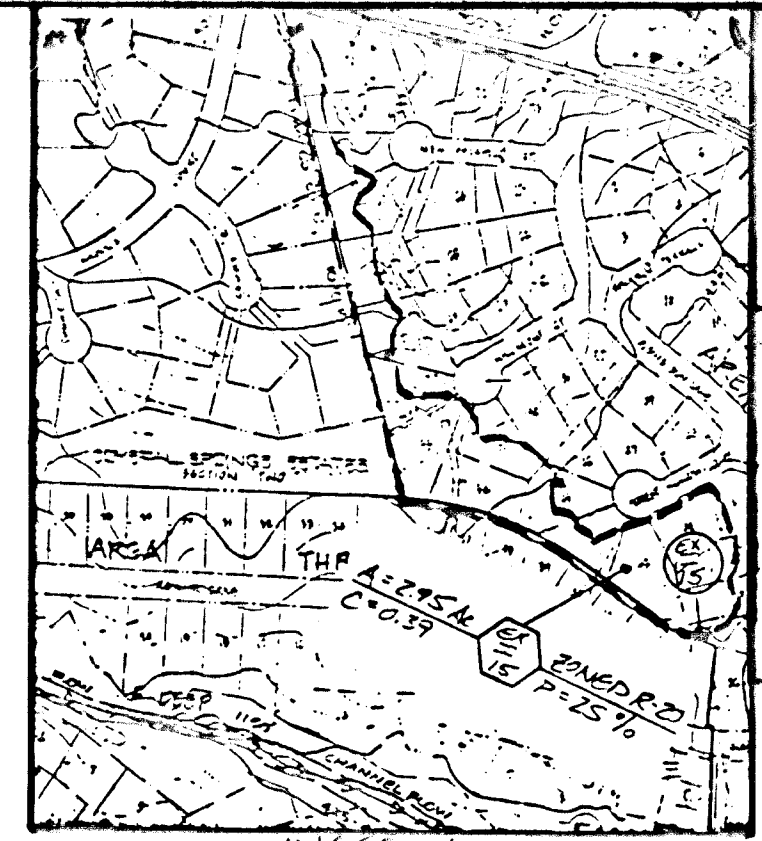
PROFILE	NO. 1
NOTE BOOK	NO. 1
BY	DATE
BY	DATE



1443

DESIGN DATA TRAP #1

1. DRAINAGE AREA TO TRAP: 2.16 AC
2. TYPE OF TRAP: 5" DIA. RIFLED OUTLET SEDIMENT TRAP
3. VOLUME REQUIRED: 140 CY
4. VOLUME PROVIDED: 156 CY
5. TRAP SIZE (EXTENT DIMENSION): 30" x 70"
6. TRAP DEPTH: 2.0'
7. BOTTOM ELEVATION: 418.00'
8. CREST ELEVATION: 411.00'
9. QUANTITY ELEVATION: 411.00'
10. OUTLET WIDTH: 6.0'
11. SIDE SLOPE: 2:1



These plans have been reviewed for the Howard Soil Conservation District and meet the technical requirements for...
 Approved: *Paul L. Wiley* 4/12/89
 THOMAS L. WILEY, M.D. REG. NO. 8273 DATE
 Approved: *Robert J. Malm* 3/22/89
 ROBERT J. MALM DATE

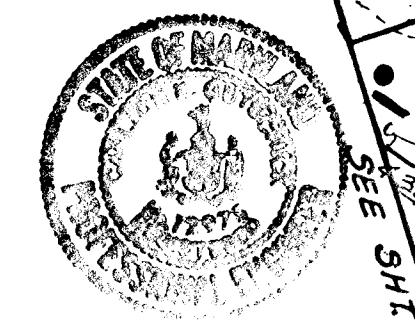
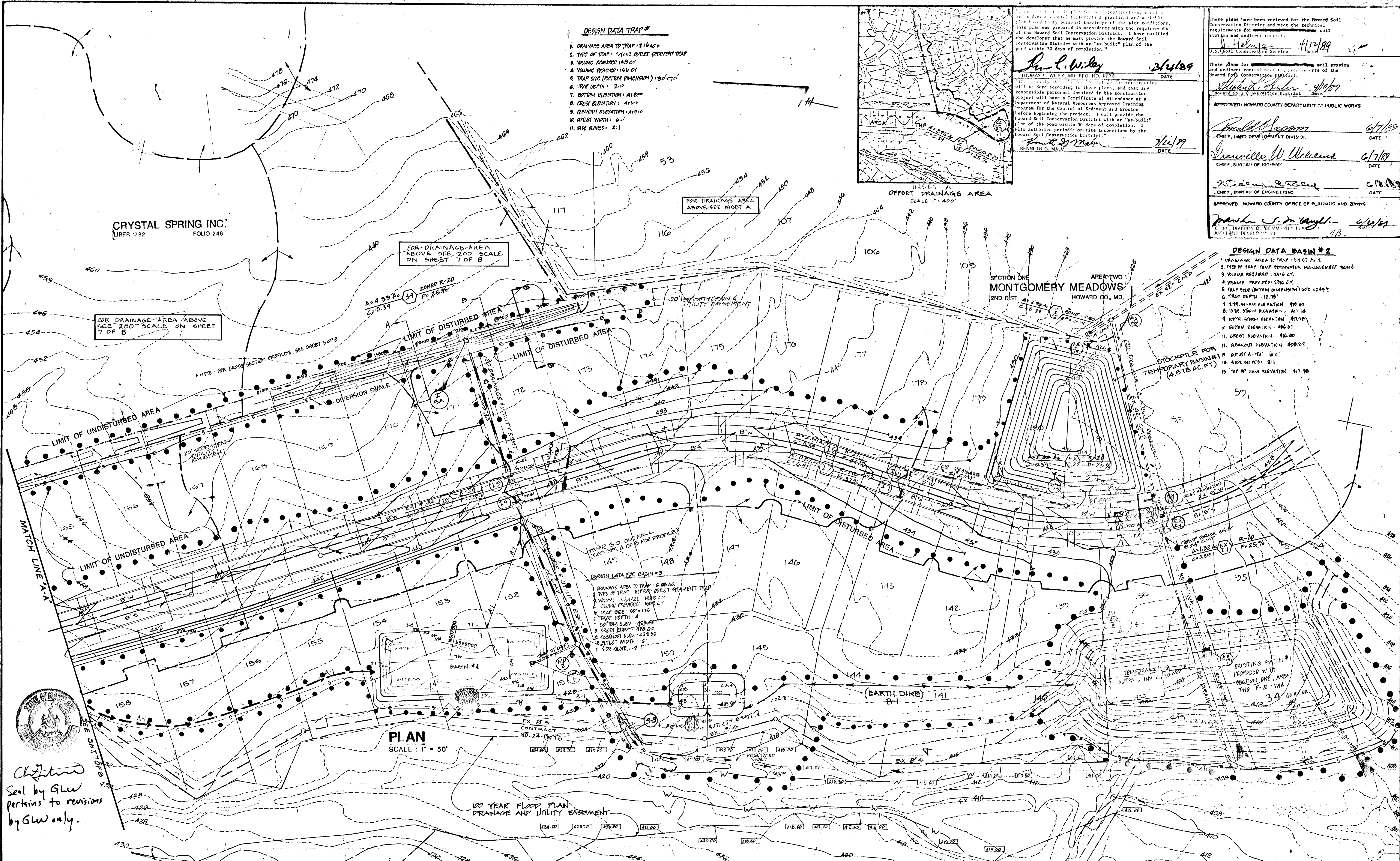
These plans for...
 Approved: *Paul C. O'Connell* 6/7/89
 PAUL C. O'CONNELL DATE
 Approved: *Granville W. Williams* 6/7/89
 GRANVILLE W. WILLIAMS DATE
 Approved: *James S. O'Connell* 6/8/89
 JAMES S. O'CONNELL DATE
 Approved: *James S. O'Connell* 6/10/89
 JAMES S. O'CONNELL DATE

CRYSTAL SPRING INC.
 LIBER 1782 FOLIO 246

SECTION ONE
MONTGOMERY MEADOWS
 2ND DIST. HOWARD CO. MD.

DESIGN DATA BASIN #2

1. DRAINAGE AREA TO TRAP: 34.57 AC
2. TYPE OF TRAP: 18" DIA. RIFLED OUTLET SEDIMENT TRAP
3. VOLUME REQUIRED: 2316 CY
4. VOLUME PROVIDED: 2316 CY
5. TRAP SIZE (EXTENT DIMENSION): 60" x 454"
6. TRAP DEPTH: 12.78'
7. 2" R. BOTTOM ELEVATION: 419.40'
8. 10" R. CREST ELEVATION: 411.10'
9. 10" R. QUANTITY ELEVATION: 411.70'
10. BOTTOM ELEVATION: 408.00'
11. CREST ELEVATION: 416.00'
12. QUANTITY ELEVATION: 408.00'
13. OUTLET WIDTH: 16.0'
14. SIDE SLOPE: 2:1
15. TOP OF DAM ELEVATION: 417.70'



Seal by GLW
 pertains to revisions
 by GLW only.

1443

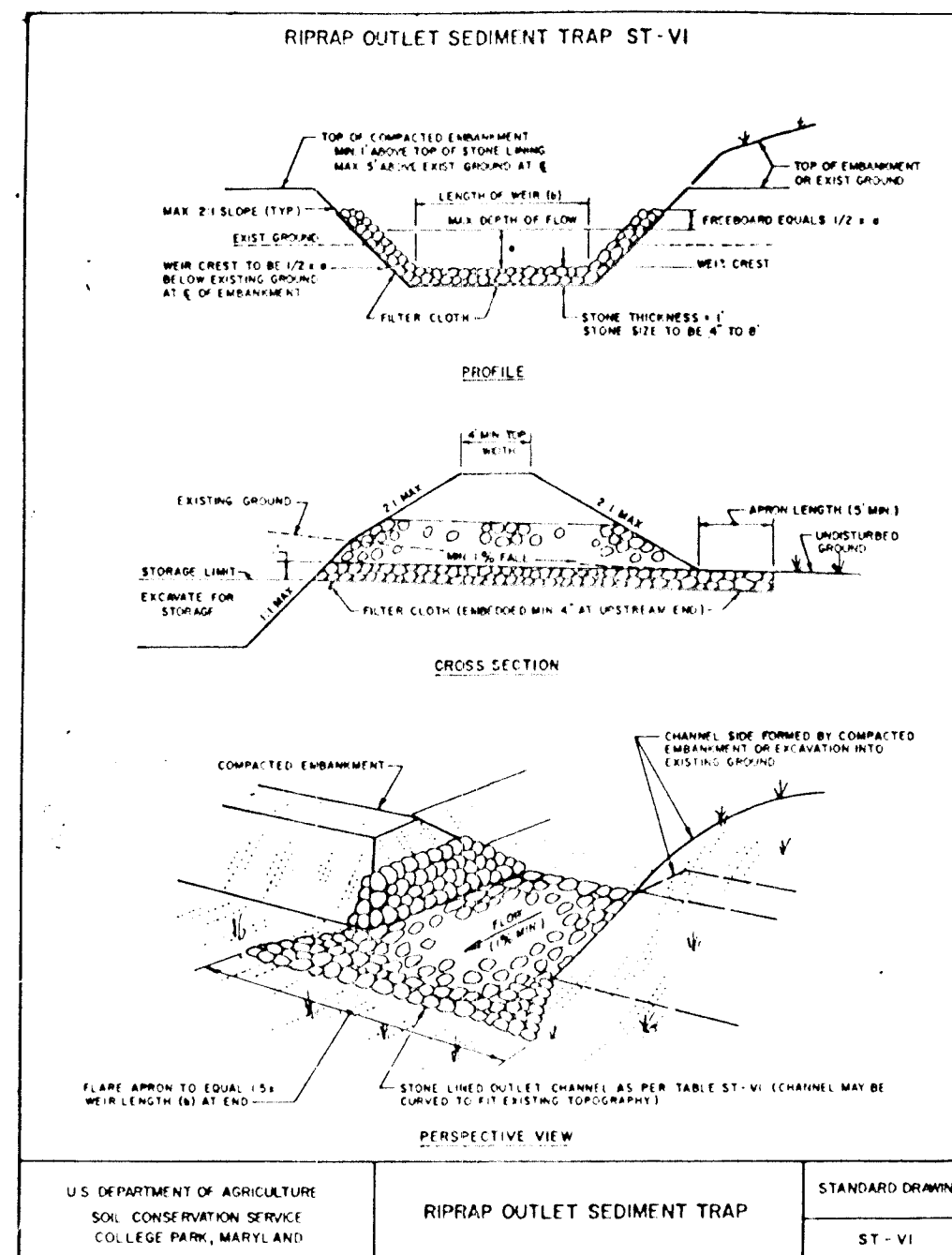
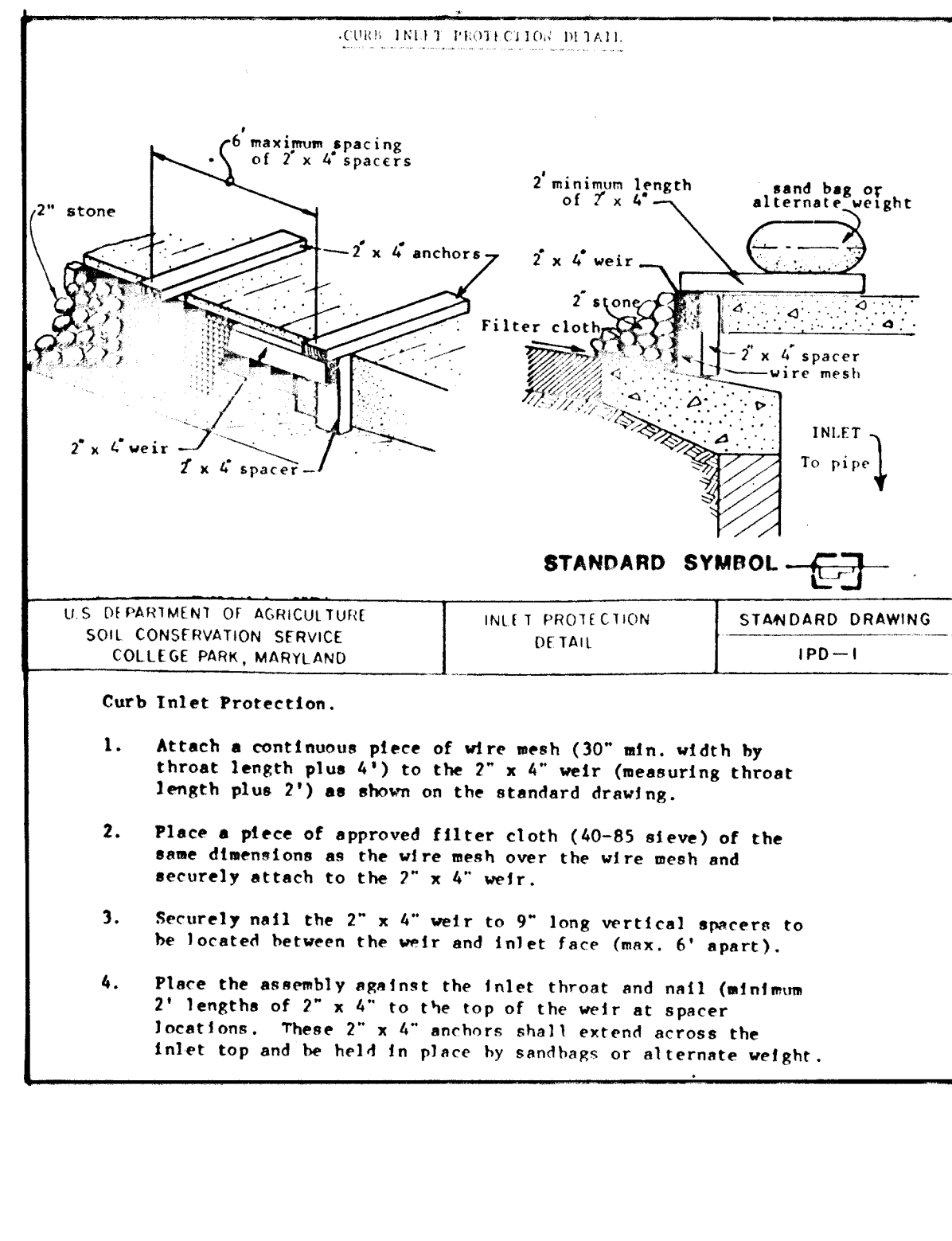
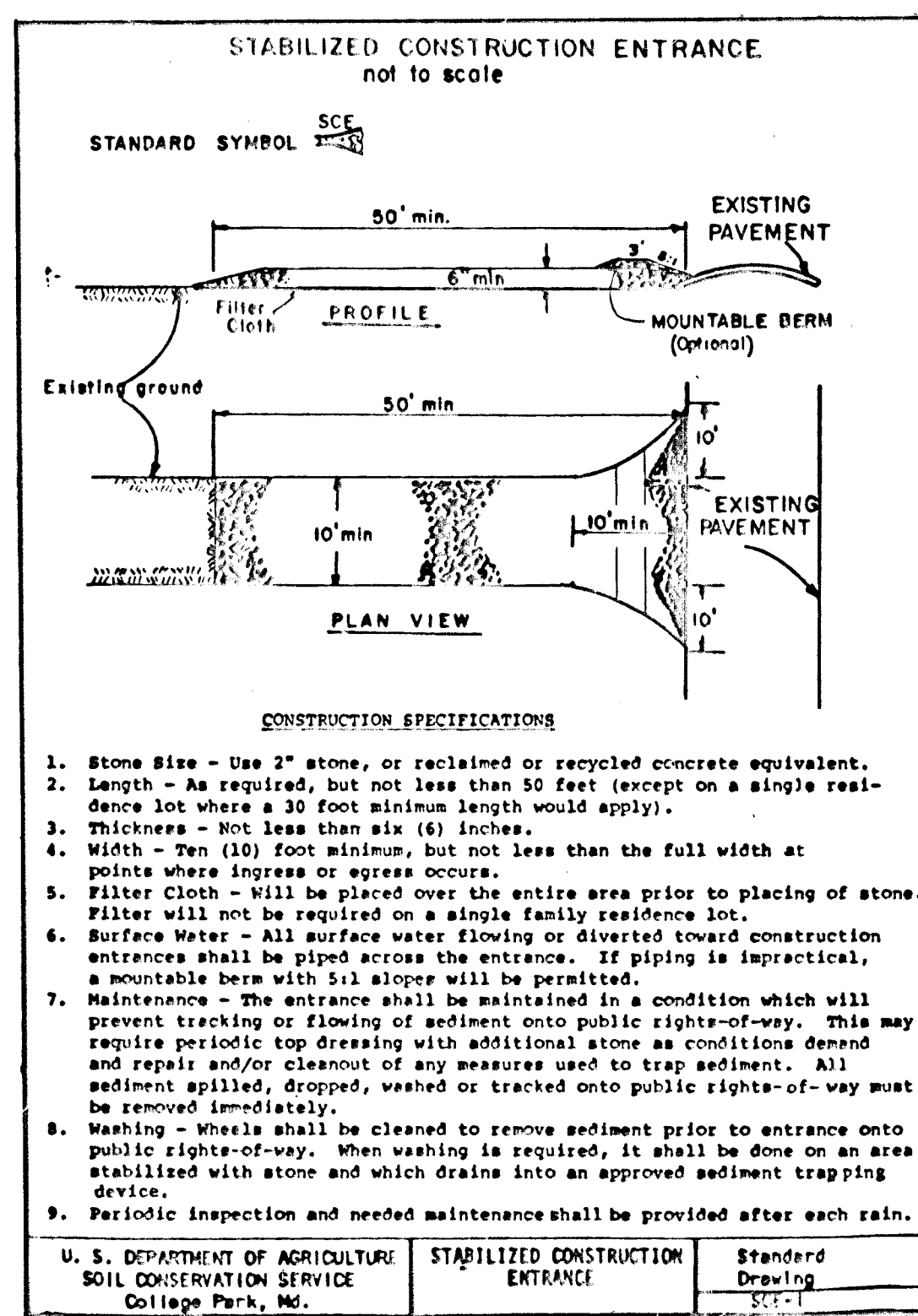
DESIGNED		DATE		BY		DESCRIPTION	
SA	6/27/88	2-16-90	WAJ	PER HOWARD CO. COMMENTS DATED 12-14-89			
M.J.III	6/27/88	7-19-90	WAJ	PER HOWARD CO. COMMENTS DATED 7-16-90			
JEN, RAG	7-28-88	10-21-92	GAH	Revise location of 4" S.C. to MH			
		7/1/75	MCF	Revise S.D. to I.S.A. by GLW			
		7-25-88	RAG	REVISE SEDIMENT CONTROL			

Dewberry & Davis
 ENGINEERS — ARCHITECTS — PLANNERS — SURVEYORS
 3300 N. RIDGE ROAD, SUITE 100
 ELLICOTT CITY, MD. 21043
 (301) 461-7478



OWNER / DEVELOPER
NV LAND INC.
 6820 ELM STREET
 MCLEAN, VA. 22101
 (703) 734-9730

DRAINAGE AREA, GRADING AND SEDIMENT CONTROL PLAN
MONTGOMERY MEADOWS
 SECTION ONE AREA THREE
 LOT 1 THRU LOT 48
 TAX MAP: 31 PARCEL: 423 BLOCKS:
 1ST ELECTION DISTRICT HOWARD COUNTY, MARYLAND
 SCALE: 1" = 50' JUNE 24, 1988



DETAILS AND SPECIFICATIONS FOR VEGETATIVE ESTABLISHMENT

SITE PREPARATION

1. TEMPORARY PERIMETER DIKES AND SILT TRAPS, ETC., ARE TO BE PROVIDED AS PER THIS PLAN PRIOR TO GRADING OPERATIONS WITH LOCATION ADJUSTMENTS TO BE MADE IN THE FIELD AS NECESSARY AND TO BE MAINTAINED AT THE END OF WORKING DAY. THE MINIMUM AREA PRACTICAL SHALL BE DISTURBED FOR THE MINIMUM AMOUNT OF TIME POSSIBLE.

PERMANENT SEEDING:

A. SEEDBED PREPARATION: AREA TO BE SEEDS SHALL BE LOOSE AND FRAGILE TO A DEPTH OF AT LEAST 3". THE TOP LAYER SHALL BE LOOSEENED BY RAKING, DISKING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING OCCURS. IN LIEU OF SOIL TEST RESULTS, APPLY 10 LBS. OF DOLOMITIC LIMESTONE AND 25 LBS. OF 10-10-10 FERTILIZER PER 1,000 SQUARE FEET. HARROW OR DISK LIMES AND FERTILIZER INTO THE SOIL TO A DEPTH OF AT LEAST 3" ON SLOPES FLATTER THAN 3:1. NO ATTEMPT SHOULD BE MADE TO DRAG ANY DISKED AREA TO MAKE THE SOIL SURFACE SMOOTH AFTER DISKING.

B. SEEDING: APPLY 5 - 6 LBS. PER 1,000 SQUARE FEET OF KENTUCKY 31 TALL FESCUE BETWEEN FEBRUARY 1 AND APRIL 30 OR BETWEEN AUGUST 15 AND OCTOBER 31. APPLY SEED UNIFORMLY WITH A CYLINDRICAL SEED DRILL, CULTIPACKER SEEDER OR HYDROSEEDER (SLURRY INCLUDES SEEDS AND FERTILIZER, RECOMMENDED ON STEEP SLOPES ONLY) ON A MOIST, FIRM SEEDBED. MAXIMUM SEED DEPTH SHOULD BE 1/4" IN CLAYEY SOILS AND 1/2" IN SANDY SOILS WHEN USING OTHER THAN THE HYDROSEEDER METHOD. IRRIGATE IF SOIL MOISTURE IS DEFICIENT TO SUPPORT ADEQUATE GROWTH. UNTIL VEGETATION IS FIRMLY ESTABLISHED.

C. MULCHING: MULCH SHALL BE UNCHOPPED, UNMOTTED, SMALL GRAIN STRAW APPLIED AT A RATE OF 70 TO 90 LBS. PER 1,000 SQUARE FEET. MULCH MATERIALS SHALL BE RELATIVELY FREE OF ALL KINDS OF WEEDS AND SHALL BE FREE OF PROHIBITED NOXIOUS WEEDS WHICH ARE: CANADA THISTLE, JOHNSONGRASS AND QUACK GRASS. SPREAD MULCH MECHANICALLY OR UNIFORM BY HAND; MULCH ANCHORING SHALL BE ACCOMPLISHED IMMEDIATELY AFTER MULCH PLACEMENT TO MINIMIZE LOSS BY WIND OR WATER. THIS MULCH ANCHORING SHALL BE ACCOMPLISHED BY THE METHOD OF NETTING OR LIQUID MULCH BINDERS.

TEMPORARY SEEDING:

LIME: 100 LBS. OF DOLOMITIC LIMESTONE PER 1,000 SQUARE FEET OF THE DISTURBED AREA.

FERTILIZER: 18 LBS. OF 10-10-10 PER 1,000 SQUARE FEET.

SEED: PERENNIAL RYE, ITALIAN RYE, 0.82 LBS. PER 1,000 SQUARE FEET (FEB. 1 THROUGH APRIL 30 OR AUG. 15 THROUGH NOV. 1).

MILLET - 0.82 LBS. PER 1,000 SQUARE FEET (MAY 1 - AUGUST 15).

MULCH: SAME AS ABOVE (NOV. 2 THROUGH JAN. 31. USE MULCH ONLY).

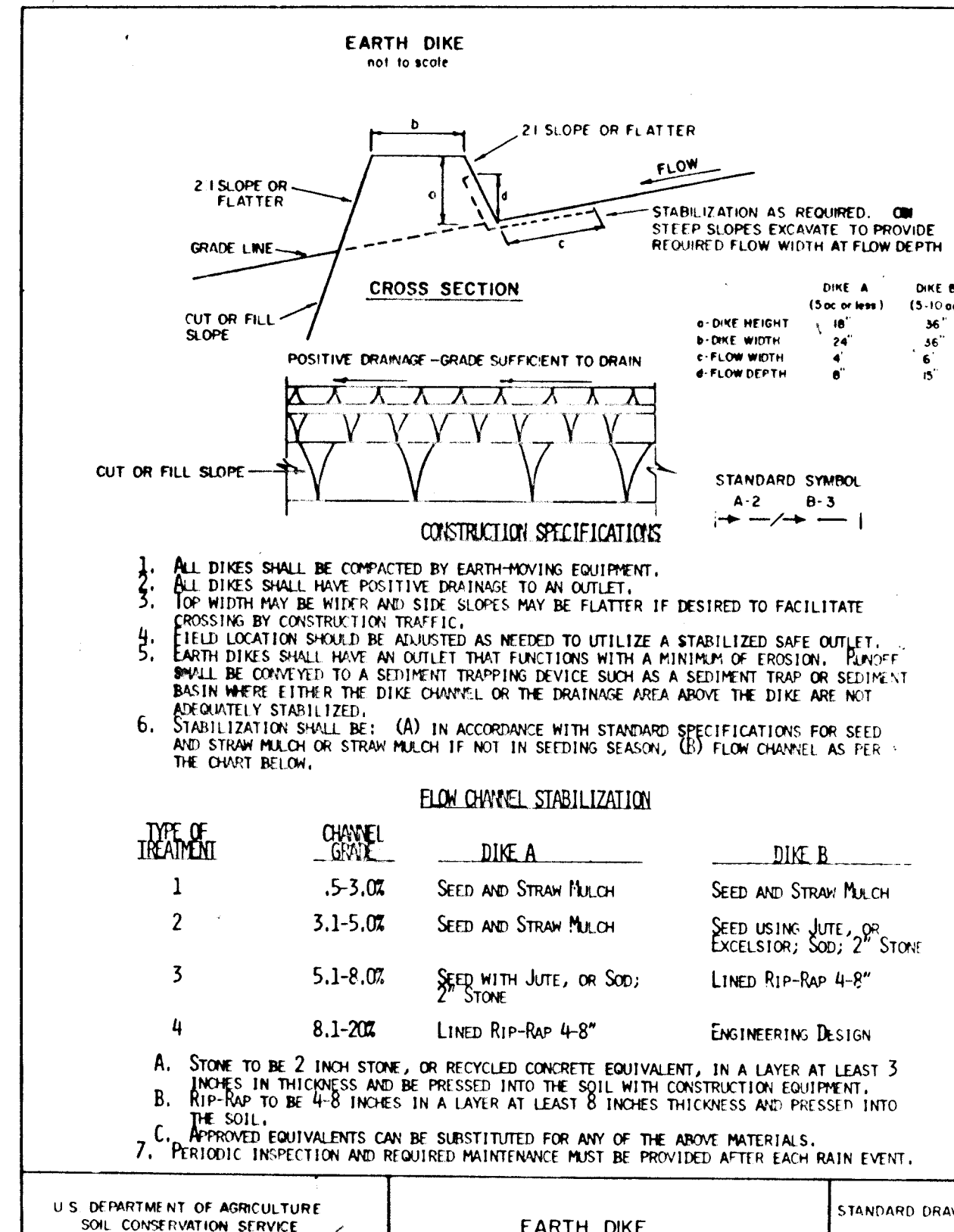
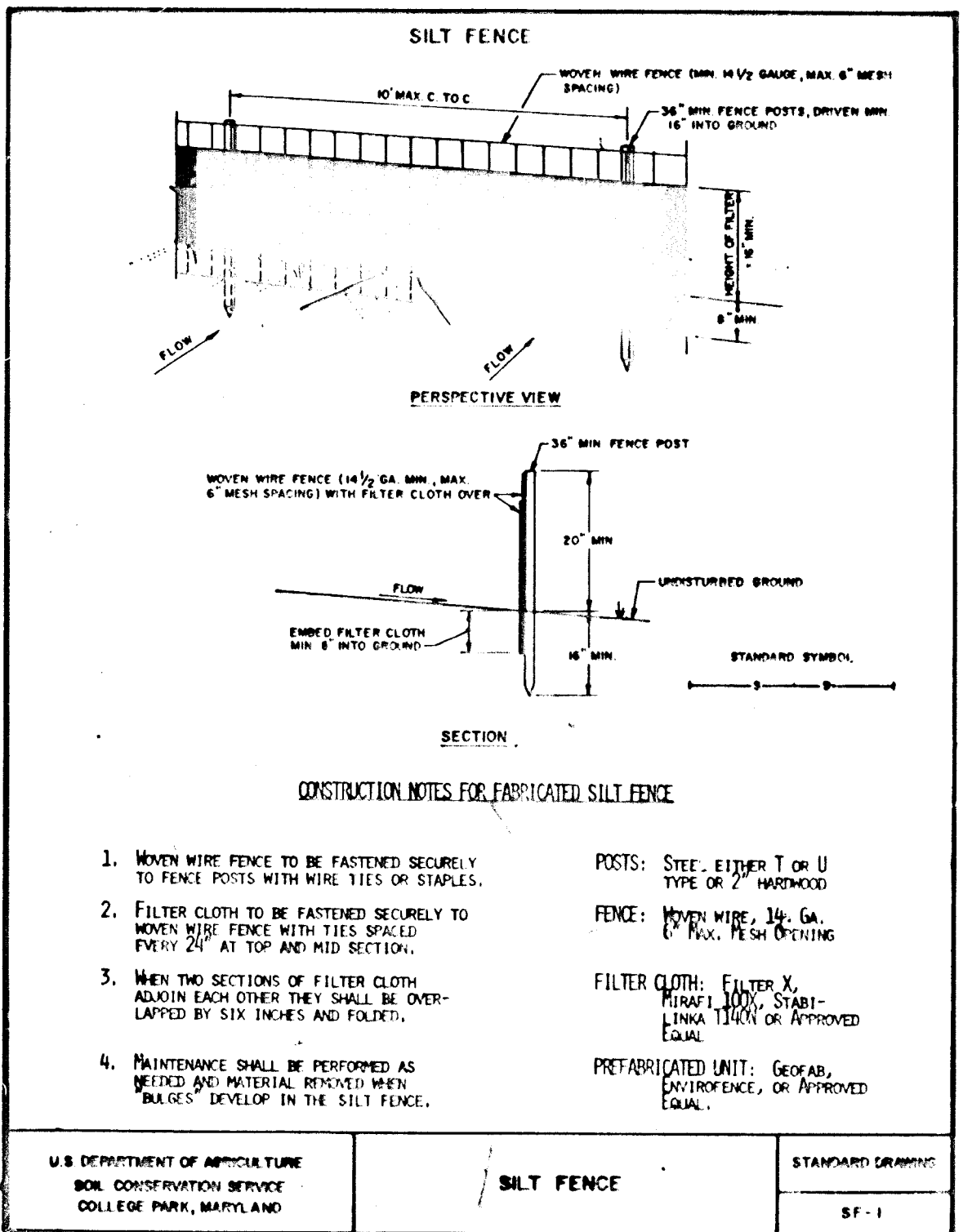
NO FILLS MAY BE PLACED ON FROZEN GROUND. ALL FILL TO BE PLACED IN APPROXIMATELY HORIZONTAL LAYERS, EACH LAYER HAVING A LOOSE THICKNESS OF NOT MORE THAN 8". ALL FILL IN ROADS AND PARKING AREAS IS TO BE CLASSIFIED TYPE 3 AS PER ANNE ARUNDEL COUNTY GRADING ORDINANCE, SECTION 12-2077, AND COMPACTED TO 90% DENSITY; COMPACTION TO BE DETERMINED BY ASTM D-1557 (MODIFIED PROCTOR). ANY FILL WITHIN BUILDING AREAS TO BE COMPACTED TO A MINIMUM OF 90% AS DETERMINED BY METHOD DETERMINED BY AUTHORITY. ALL FILLS SHALL BE COMPACTED SUFFICIENTLY SO AS TO BE STABLE AND PREVENT EROSION AND SLIPPAPE.

PERMANENT SOIL IS TO BE KENTUCKY 31 TALL FESCUE STATE APPROVED SOIL. LIME AND FERTILIZER PERMANENT SEEDING SPECIFICATIONS AND LIGHTLY IRRIGATE SOIL PRIOR TO LAYING SOIL. SOIL IS TO BE LAID ON THE CONTOUR WITH ALL ENDS TIGHTLY AMBITING WATER AND ROLL OR TAMP SOIL TO INSURE POSITIVE ROOT CONTACT WITH THE SOIL. ALL SLOPES GREATER THAN 3 TO 1 AS SHOWN ARE TO BE PERMANENTLY SLOOED. ADDITIONAL WATERING FOR ESTABLISHMENT MAY BE REQUIRED. SOIL IS NOT TO BE APPLIED ON FROZEN GROUND.

NOTE: USE OF THIS INFORMATION DOES NOT PRECLUDE MEETING ALL OF THE REQUIREMENTS OF THE STATE AND FEDERAL REGULATIONS FOR SOIL EROSION AND SEDIMENT CONTROL IN DEVELOPING AREAS.

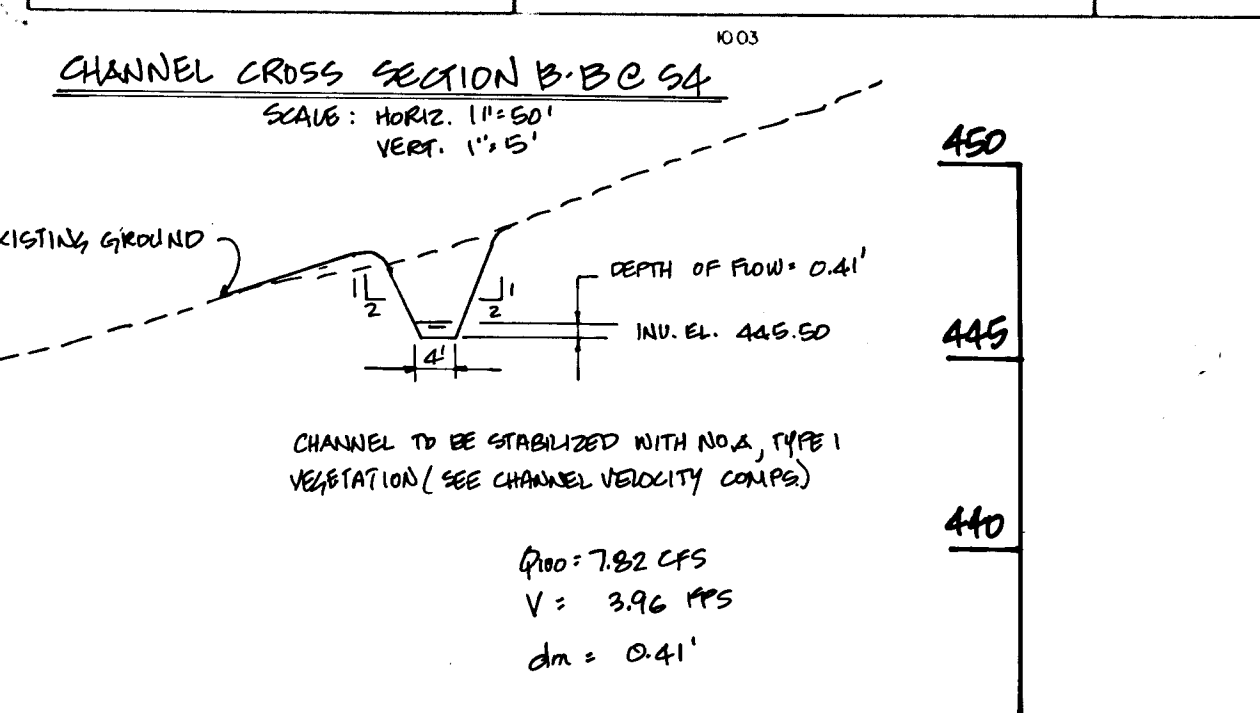
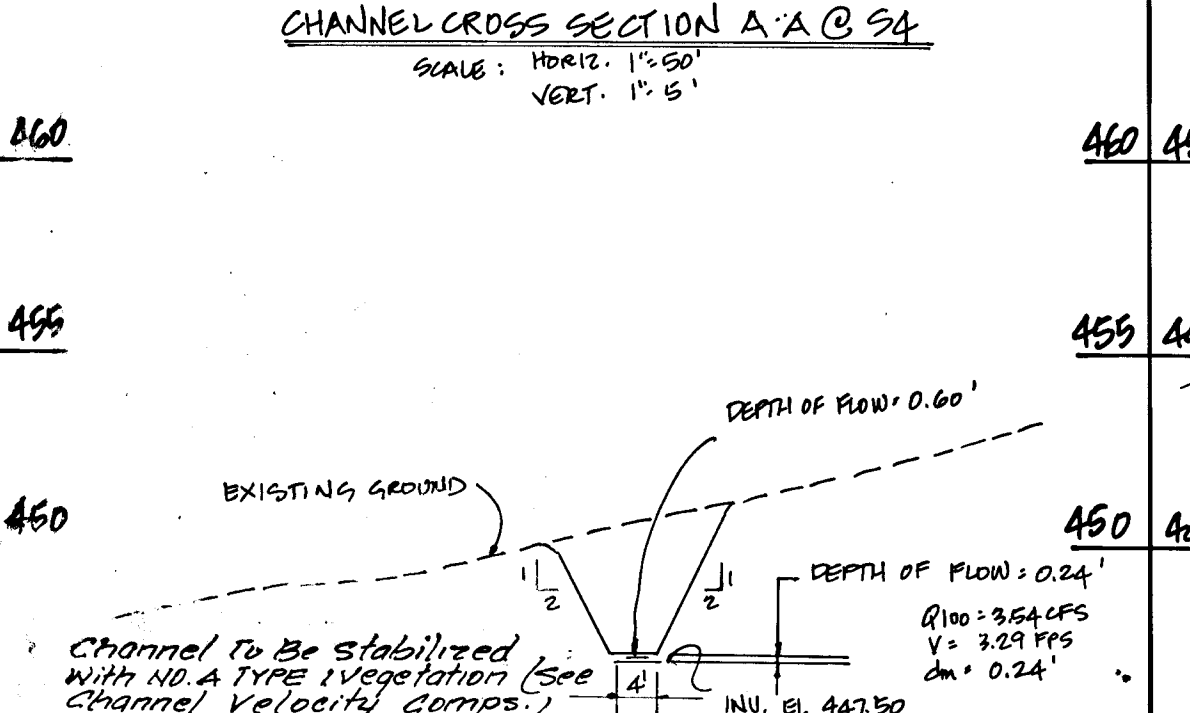
SEDIMENT CONTROL NOTES:

- A minimum of 24 hours notice must be given to the Howard County Office of Inspection and Permit prior to the start of any construction. (992-2437)
- All vegetative and structural practices are to be installed according to the provisions of this plan and are to be in accordance with the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
- Following initial soil disturbance or redistribution, permanent or temporary stabilization shall be completed within: a) 7 calendar days for all perimeter sediment control structures, dikes, perimeter slopes and all slopes greater than 3:1, b) 14 days as to all other disturbed or graded areas on the project site.
- All sediment traps/basins shown must be fenced and warning signs posted around their perimeter in accordance with Vol. 1, Chapter 12, of the HOWARD COUNTY DESIGN MANUAL, Storm Drainage.
- All disturbed areas must be stabilized within the time period specified above in accordance with the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for permanent seedings (Sec. 51) and sod (Sec. 54); temporary seedings (Sec. 50) and mulching (Sec. 52). Temporary stabilization with mulch alone can only be done when recommended seeding dates do not allow for proper germination and establishment of grasses.
- All sediment control structures are to remain in place and are to be maintained in operative condition until permission for their removal has been obtained from the Howard County Sediment Control Inspector.
- Site Analysis:
 - Total Area of Site: 174 Acres
 - Area Disturbed: 67.15 Acres
 - Area to be roofed or paved: 1.55 Acres
 - Area to be vegetatively stabilized: 105.40 Acres
 - Total Cut: 84560 Cu. yds.
 - Total Fill: 180000 Cu. yds.
 - Offsite waste/borrow area location:
- Any sediment control practice which is disturbed by grading activity for placement of utilities must be repaired on the same day of disturbance.
- Additional sediment controls must be provided, if deemed necessary by the Howard County DPW sediment control inspector.
- On all sites with disturbed areas in excess of 2 acres, 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.



CONSTRUCTION SEQUENCE

- OBTAIN A GRADING PERMIT.
- INSTALL STABILIZED CONSTRUCTION ENTRANCE, EARTH DIKES, SILT FENCE, STRAW BALE CAGES, PERIMETER SWALE DIKES, AND SEDIMENT TRAPS IN ACCORDANCE WITH SCS STANDARDS 30E-1, ED-1, SF-1, SOB-1, PSD-1, AND ST-VI, RESPECTIVELY.
- START CLEARING AND GRUBBING.
- CONSTRUCT A TEMPORARY CHANNEL DIVERSION AT THE CULTURE CROSSING LEAVING FIVE (5) FEET UNEXCAVATED AT THE UP STREAM AND DOWNSTREAM ENDS WHERE THE CHANNEL DIVERSION MEETS THE EXISTING STREAM.
- STABILIZE THE CONSTRUCTION PORTION OF THE CHANNEL DIVERSION AS PER SCS STANDARD 30E-3.
- BUILD A DEWATERING BASIN AS NEEDED (NRA DETAIL WPD-2).
- PLACE A SANDBAG DIKE DOWNSTREAM TO PREVENT THE STREAM FROM BACKWASHING INTO CONSTRUCTION AREA.
- EXCAVATE THE REMAINING FIVE (5) FEET OF THE TEMPORARY CHANNEL DIVERSION AT THE DOWNSTREAM END AND STABILIZE.
- CONSTRUCT A SANDBAG DIVERSION UPSTREAM TO DIVERT WATER INTO THE TEMPORARY CHANNEL DIVERSION.
- EXCAVATE THE REMAINING FIVE (5) FEET OF THE CHANNEL DIVERSION AT THE UPSTREAM END OF THE TEMPORARY CHANNEL DIVERSION AND STABILIZE BEFORE ALLOWING WATER TO PASS THROUGH THE CHANNEL DIVERSION.
- BACKFILL TO SUBGRADE AND CONSTRUCT THE NEW ROADWAY.
- INSTALL THE NEW CULVERT DEPRESSING IT ONE (1) FOOT BENEATH THE NATURAL STREAM INVERT TO ALLOW SITUATION FOR IMPROVED FISH PASSAGE.
- INSTALL UTILITIES.
- STABILIZE THE DISTURBED SLOPES AND STREAM BED WITH APPROVED METHODS.
- DEWATER THE AREA, THEN REMOVE THE TEMPORARY STREAM DIVERSION AND SILT FENCE FROM THE DOWNSTREAM DISTURBANCES.
- SEED AND MULCH ANY REMAINING DISTURBANCES.
- RESTORE THE DEWATERING BASIN TO THE ORIGINAL GRADE OF THE SURROUNDING AREA.
- CLEAN UP THE CONSTRUCTION SITE.
- SEED AND MULCH ALL THE DISTURBED AREAS.
- GRADE THE PERMANENT DIVERSION DIKE SWALE ALONG THE ERST PROPERTY LINE.
- ROUGH GRADE THE ROAD TO SUBGRADE AND INSTALL ALL UTILITIES.
- FINE GRADE ROADS, INSTALL CURB & GUTTER, LAY ASPHALT BASE COURSE, AND STABILIZED ALL REMAINING DISTURBED AREAS.
- REMOVE SEDIMENT TRAP/TEMPORARY SMM POND UPON APPROVAL OF INSPECTOR AND CONSTRUCT REMAINING STREAMDEIN.
- LAY SURFACE COURSE PAVEMENT AND STABILIZE THE DISTURBED AREA FROM THE STREAMDEIN CONSTRUCTION.
- AFTER EACH DAY THE SEDIMENT CONTROL DEVICES ARE TO BE REPAIRED OR REPLACED IF THEY ARE DAMAGED DURING CONSTRUCTION OR RAINFALL.



REVISIONS

DESIGNED	DATE	BY	DESCRIPTION
G.P.	6/27/89	R.W.	PER DINK COMMENTS (ADDED CONST. SEQUENCE NOTES)
DRAWN	6/27/89		
CHECKED			
APPROVED			

Dewberry & Davis
ENGINEERS - ARCHITECTS - PLANNERS - SURVEYORS
3300 N. RIDGE RD., SUITE 100, ELLICOTT CITY MD. 21043
8411 Arlington Boulevard, Fairfax, Virginia 22030
19201 Montgomery Village Ave., Gaithersburg, Md. 20878

OWNER / DEVELOPER
N V LAND, INC
6820 ELM STREET
MCLEAN, VA 22101
(703) 734-9730

DETAILS FOR

TYPE OF TREATMENT	CHANNEL GRADE	A (5% OR LESS)	B (5% - 10%)
1	0.5-3.0%	SEED AND STRAW MULCH	SEED AND STRAW MULCH
2	3.1-5.0%	SEED AND STRAW MULCH	SEED USING JUTE OR EXCELISOR
3	5.1-8.0%	SEED WITH JUTE OR EXCELISOR, SOO	LINED RIP-RAP 4-8"
4	8.1-20%	LINED 4-8" RIP-RAP	ENGINEERED DESIGN

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
COLLEGE PARK, MARYLAND

DRAINAGE AREA, GRADING AND SEDIMENT CONTROL PLAN
MONTGOMERY MEADOWS
SECTION ONE AREA THREE
LOT 1 THRU LOT 48
TAX MAP: 31 PARCEL: 423 BLOCKS:
1ST ELECTION DISTRICT HOWARD COUNTY, MARYLAND
JUNE 24, 1988

SCALE: AS SHOWN CONTRACT NO. FILE NO. P006-6C SHEET 8 OF 8

ENGINEERS CERTIFICATE

"I certify that this plan for pond construction, erosion and sediment control represents a practical and workable plan based on my personal knowledge of the site conditions. This plan was prepared in accordance with the requirements of the Howard Soil Conservation District, I have notified the developer that he must provide the Howard Soil Conservation District with an "as-built" plan of the pond within 30 days of completion."

DEVELOPERS CERTIFICATE

"I certify that all development and/or construction will be done according to these plans, and that any responsible personnel involved in the construction project will have a Certificate of Attendance at a program of Natural Resources Approved Training Program for the Control of Sediment and Erosion before beginning the project. I will provide the Howard Soil Conservation District with an "as-built" plan of the pond within 30 days of completion. I also authorize periodic on-site inspections by the Howard Soil Conservation District."

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
CHIEF, LAND DEVELOPMENT DIVISION
DATE: 6/7/89

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT
DATE: 6/18/89

1443