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4	PLAN & PROFILE - RISING SUN LANE
5	PLAN & PROFILE - HILLMONT CT. SPURR TERRACE
6	PLAN & PROFILE - NEW PROSPECT CT. FOREST MEADOW CT.
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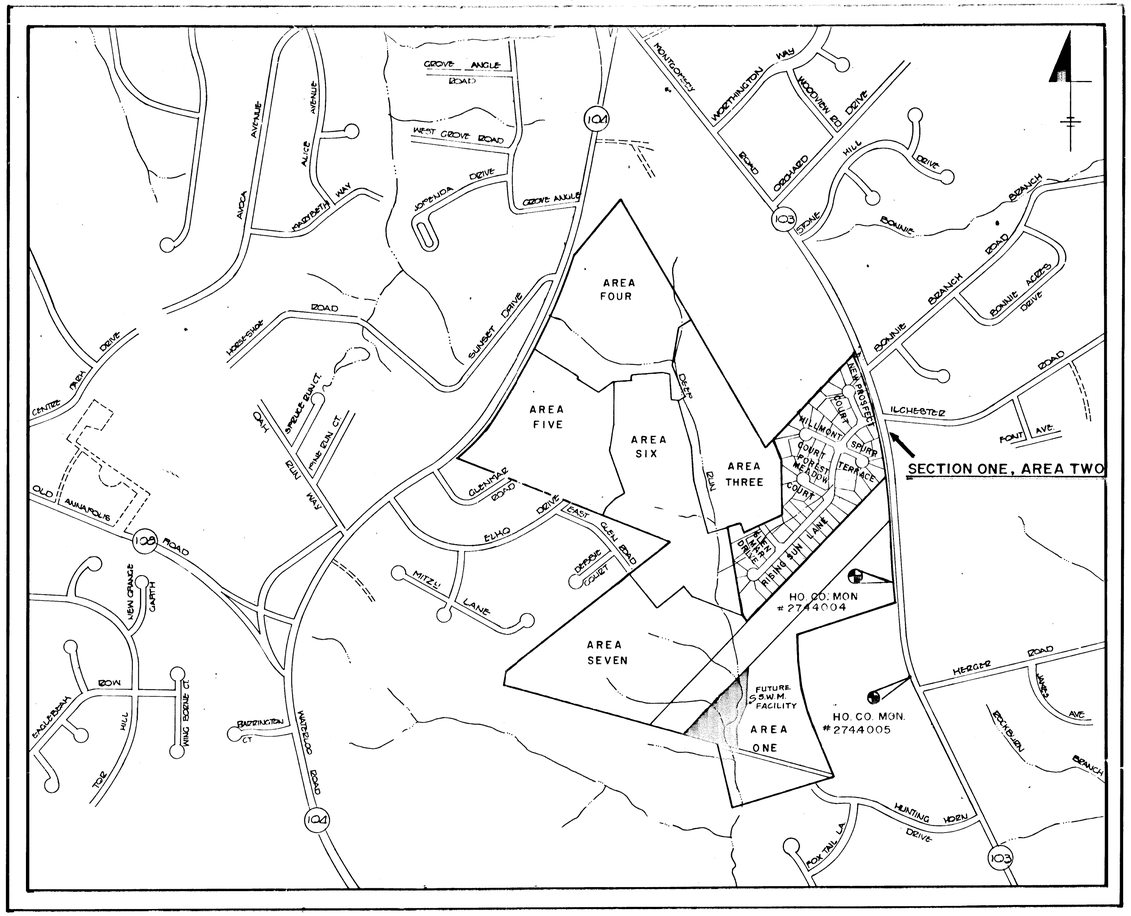
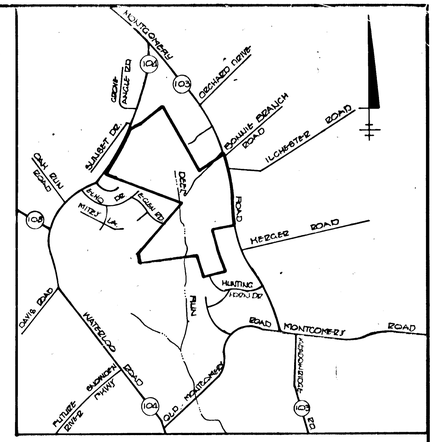
12	GRADING, SEDIMENT CONTROL & DRAINAGE AREA MAP
13	SEDIMENT CONTROL DETAILS & NOTES



LOCATION MAP
SCALE: 1" = 600'



VICINITY MAP
SCALE: 1" = 2000'

GENERAL NOTES

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH HOWARD COUNTY STANDARDS, SPECIFICATIONS AND DETAILS FOR CONSTRUCTION.
2. ALL UTILITY COMPANIES MUST BE NOTIFIED 24HRS. IN ADVANCE OF ANY CONSTRUCTION.
3. STORM DRAINAGE TRENCHES WITHIN ROAD RIGHT-OF-WAYS SHALL BE BACKFILLED AND COMPACTED IN ACCORDANCE WITH HOWARD COUNTY ROAD CODE.
4. ANY DAMAGE TO PUBLIC RIGHT-OF-WAYS PAVING, OR EXISTING UTILITIES WILL BE CORRECTED AT THE CONTRACTORS EXPENSE
5. CONTRACTOR TO NOTIFY THE HOWARD COUNTY INSPECTION AND SURVEY DIVISION AT LEAST 3 DAYS BEFORE STARTING WORK SHOWN ON THESE DRAWINGS. TELEPHONE: 792-7272.
6. APPROXIMATE LOCATION OF EXISTING UTILITIES ARE SHOWN FOR THE CONTRACTOR'S INFORMATION, CONTRACTOR SHALL LOCATE EXISTING UTILITIES WELL IN ADVANCE OF CONSTRUCTION ACTIVITIES AND TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES AND TO MAINTAIN UNINTERRUPTED SERVICE.
7. ALL TRAFFIC CONTROL DEVICES SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, 1984 REVISED EDITION.
8. STREET TREES TO BE PROVIDED AS REQUIRED BY SECTION 16.131 OF THE HOWARD COUNTY SUBDIVISION AND LAND DEVELOPMENT REGULATIONS.
9. CLASS OF BEDDING FOR STORM DRAIN SYSTEMS TO BE CLASS "C" BEDDING.
10. STORMWATER MANAGEMENT FOR THIS PROJECT WILL BE PROVIDED FOR AT THE REGIONAL STORMWATER MANAGEMENT FACILITY UNDER F-89-44

LANDSCAPE TABULATION

SYMBOL	NUMBER	NAME	SIZE	REMARKS
	140	AGER SACCAHARUM (SUGAR MAPLE)	2½" CAL. (MIN.)	BALLED/ BURLAPPED
	40	CRATEAGUS PHAENOPYRUM (WASHINGTON HAWTHORN)	2½" CAL. (MIN.)	BALLED/ BURLAPPED

ENGINEER'S CERTIFICATE

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

Thomas L. Wiley — 3/21/89 DATE

STATE OF MARYLAND THOMAS L. WILEY No. 9273 REGISTERED PROFESSIONAL ENGINEER

DEVELOPER'S CERTIFICATE

I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF NATURAL RESOURSES APPROVED TRAINING PROGRAM FOR THE CONTROL OF EROSION AND SEDIMENT BEFORE BEGINNING THE PROJECT I ALSO AUTHORIZE PERIODIC ONSITE INSPECTION BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS AS ARE DEEMED NECESSARY

Kenneth D. Mohr — 3/22/89 DATE

APPROVED HOWARD COUNTY OFFICE OF PLANNING AND ZONING

Marsha V. McLaughlin — 6/6/89 DATE
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT

APPROVED HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

Ronald C. Lapsm — 6/7/89 DATE
CHIEF, LAND DEVELOPMENT DIVISION

Francis W. Wellcraft — 6/7/89 DATE
CHIEF, BUREAU OF HIGHWAYS

[illegible] — 6/7/89 DATE
CHIEF, BUREAU OF ENGINEERING

MONTGOMERY MEADOWS
SECTION ONE AREA TWO
ROAD CONSTRUCTION DRAWINGS
2ND ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

AS-BUILT

REVISIONS		
DATE	BY	DESCRIPTION
7-21-88	D.D.	REVISED SHEET INDEX
6-1-88	RAG	ADDED SIGNATURE BLOCKS AND LANDSCAPE TABULATION

DESIGNED RAG/JMC 4/88 date
DRAWN DAT/DD 4/88 date
CHECKED RAG/JFN 4/88 date
APPROVED _____ date

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

STATE OF MARYLAND THOMAS L. WILEY No. 9273 REGISTERED PROFESSIONAL ENGINEER

OWNER / DEVELOPER
N.V. LAND, INC.
6820 ELM STREET
McLEAN, VIRGINIA 22101
(703) 734-9730

TITLE SHEET
MONTGOMERY MEADOWS
SECTION ONE AREA TWO
LOTS 62 THRU 137
TAX MAP 31 PARCEL 423
2nd ELECTION DISTRICT HOWARD CO, MARYLAND

SCALE: AS SHOWN | CONTRACT NO. | FILE NO. | SHEET 1 OF 13

1443

F-88-244

ENGINEER'S CERTIFICATE

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.

Kenneth D. Mohn 3/22/89
DATE

STATE OF MARYLAND — THOMAS E. MILLER — No. 9273 — REGISTERED PROFESSIONAL ENGINEER

DEVELOPER'S CERTIFICATE

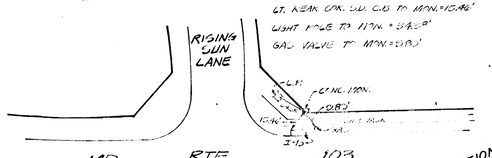
I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF EROSION AND SEDIMENT BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ONSITE INSPECTION BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS AS ARE DEEMED NECESSARY.

Kenneth D. Mohn 3/22/89
DATE

LIGHTING LEGEND

1. + TYPE 'A' 150 WATT HIGH PRESS. SODIUM VAPOR LAMP MOUNTED ON A 30' HIGH GALVANIZED STEEL POLE.
2. + TYPE 'B' 250 WATT MERCURY VAPOR LAMP MOUNTED ON A 26' HIGH GALVANIZED STEEL POLE.

RECOVERY SKETCH-CONC. MONUMENT #3201 (N.F.C.)



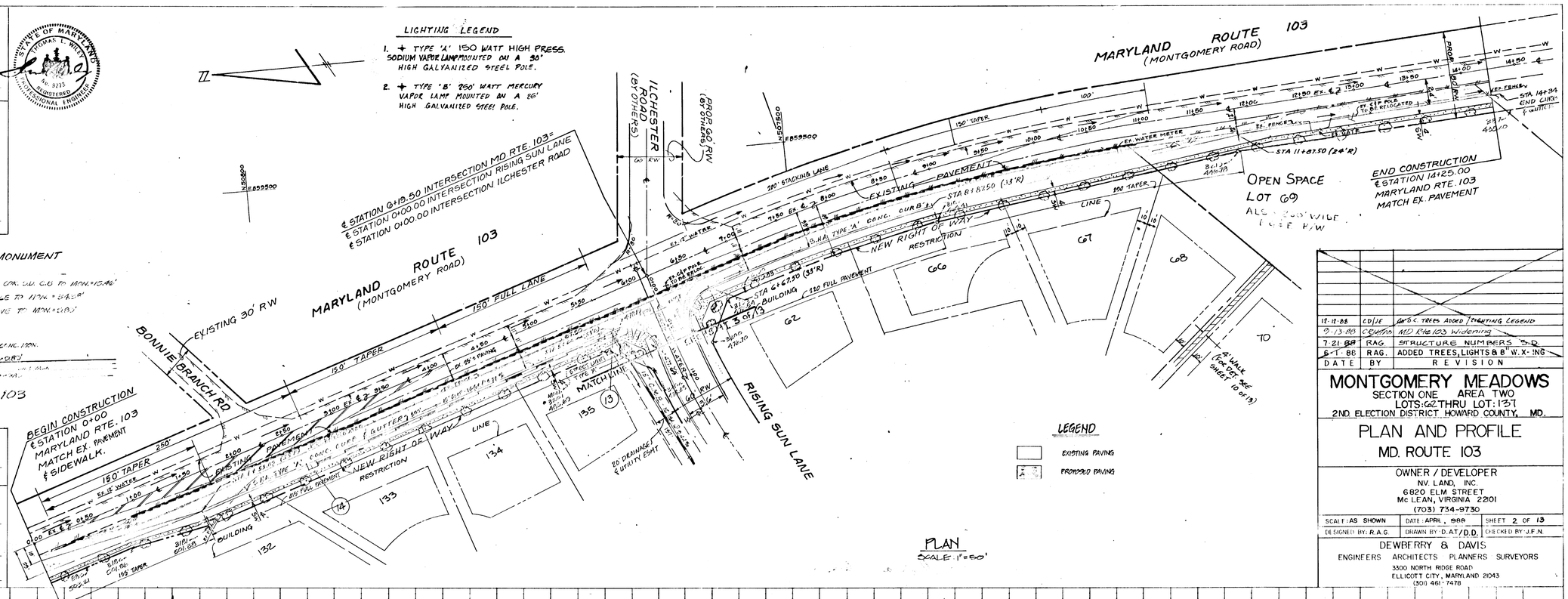
APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING

Marsha S. McLaughlin 4/10/89
DIRECTOR DATE
AND: LAND DEVELOPMENT COORDINATOR JB

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

Donald O. Lepson 6/7/89
DIRECTOR DATE
Granville W. Wellons 6/7/89
CHIEF, BUREAU OF ENGINEERING DATE
Kaufman & Ruby 6/8/89
CHIEF, BUREAU OF HIGHWAYS DATE

PLAN — SURVEYED / PLOTTED / NOTE BOOK / GRADES CHECKED / B.M.'s NOTED / STRUCTURE LOCATIONS CHECKED / No. / BY / DATE / ST. CUT WAY CHECKED / ALIGNMENT CHECKED



PLAN
SCALE 1"=50'

DATE	BY	REVISION
12-12-88	CDJE	60'R.C. TREES ADDED / LIGHTING LEGEND
9-13-88	CDJE/TM	MD RTE 103 Widening
7-21-88	RAG	STRUCTURE NUMBERS S-2
6-1-88	RAG.	ADDED TREES, LIGHTS & 8' W.X-ING

MONTGOMERY MEADOWS

SECTION ONE AREA TWO
LOTS: G2 THRU LOT: 137
2ND ELECTION DISTRICT HOWARD COUNTY, MD.

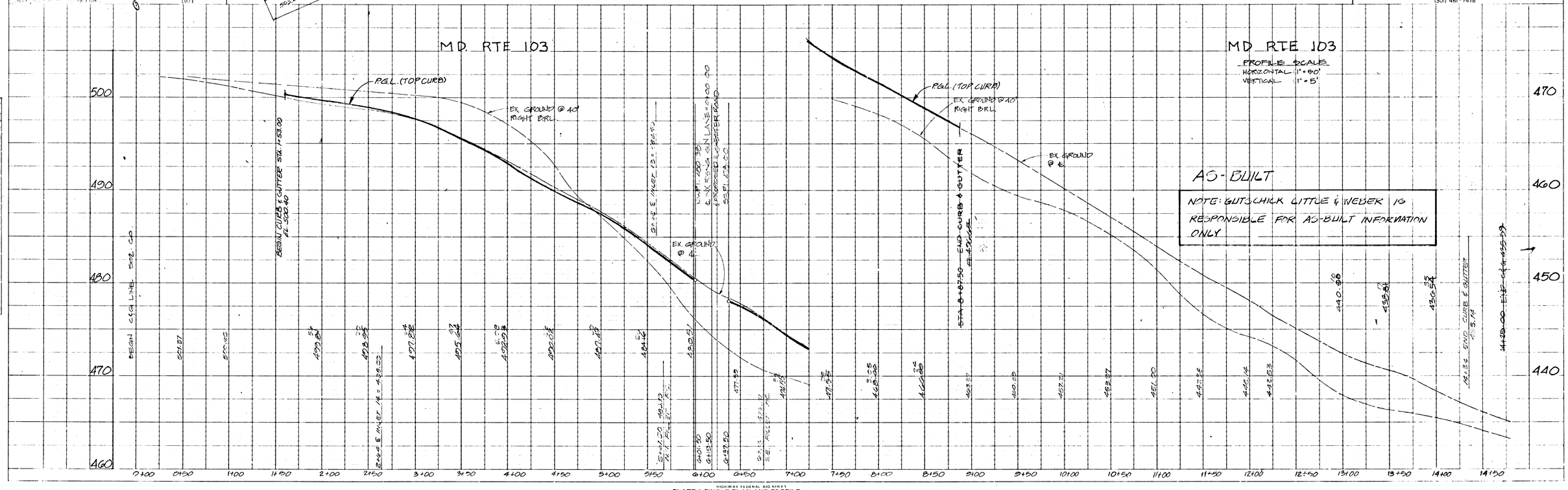
PLAN AND PROFILE
MD. ROUTE 103

OWNER / DEVELOPER
NV. LAND, INC.
6820 ELM STREET
Mc LEAN, VIRGINIA 2201
(703) 734-9730

SCALE: AS SHOWN	DATE: APRIL, 1988	SHEET 2 OF 13
DESIGNED BY: R.A.G.	DRAWN BY: D.A.T./D.D.	CHECKED BY: J.F.N.

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

PROFILE — SURVEYED / PLOTTED / NOTE BOOK / GRADES CHECKED / B.M.'s NOTED / STRUCTURE LOCATIONS CHECKED / No. / BY / DATE



HIGHWAY FEDERAL AID SHEET
PLATE 1-SINGLE PLAN AND PROFILE-FULL LINE
PRINTED IN U.S.A.

1443

F-88-244

ENGINEER'S CERTIFICATE

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.

3/21/89
DATE

STATE OF MARYLAND — THOMAS L. WOLFE — No. 9773 — REGISTERED PROFESSIONAL ENGINEER

DEVELOPER'S CERTIFICATE

I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL AND THAT ALL 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 EROSION AND SEDIMENT BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS AS ARE DEEMED NECESSARY.

Kenneth D. Mahn
3/22/89
DATE

PLAN — SURVEYED — PLOTTED — NOTE BOOK — GRADES CHECKED — R/W's NOTED — No. — REVISIONS/ADDITIONS CHECKED — BY — DATE

RECOVERY SKETCH
CONCRETE MONUMENT #074

RT. FRONT COR. S.U. C.B. I-17 TO MON. = 43.25'
RT. FRONT COR. S.U. C.B. I-16 TO MON. = 12.33'
SIGN 1M TO MON. = 4.44'

FOREST MEADOW CT.
I-17
43.25'
12.33'
4.44'
CONC. MON.
S.M.H.
RISING SUN LANE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING

DIRECTOR OF COMMUNITY PLANNING AND LAND DEVELOPMENT — 6/6/89 DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

DIRECTOR OF PUBLIC WORKS — 6/7/89 DATE

CHIEF, BUREAU OF HIGHWAYS — 6/7/89 DATE

CHIEF, DIVISION OF UTILITIES — 6/8/89 DATE

③ CURVE DATA
R = 320.00'
L = 228.64'
Δ = 40° 56' 17"
T = 119.45'
CHD = S 24° 13' 08" W
223.81'
STA = 7+76.63 - STA 10+04.97

RECOVERY SKETCH
CONCRETE MONUMENT #069
N.T.S.
RT. FRONT COR. S.U. C.B. I-22 TO MON. = 30.40'
RT. FRONT COR. S.U. C.B. I-21 TO MON. = 12.33'
RT. FRONT COR. HOUSE LOT 123 TO MON. = 6.04'

RECOVERY SKETCH
CONCRETE MON. 651
N.T.S.
LT. REAR COR. S.U. C.B. TO MON. = 8.78'
GENERAL 1M TO MON. = 64.12'
LIGHT POLE TO MON. = 24.06'

② CURVE DATA
R = 455.00'
L = 267.05'
Δ = 33° 37' 43"
T = 137.50'
CHD = S 20° 33' 57" W
263.24'
STA 3+80.73 - STA 6+51.78

① CURVE DATA
R = 545.00'
L = 325.73'
Δ = 34° 14' 38"
T = 167.89'
CHD = S 54° 30' 02" W
320.94'
STA 0+68.00 - STA 3+80.73

PLAN
SCALE: 1" = 50'

LIGHTING LEGEND

1. ✦ TYPE 'A' 150 WATT HIGH PRESSURE SODIUM VAPOR LAMP MOUNTED ON A 30' HIGH GALVANIZED STEEL POLE.
2. ✦ TYPE 'B' 250 WATT MERCURY VAPOR LAMP MOUNTED ON A 25' HIGH GALVANIZED STEEL POLE.

DATE	BY	REVISION
SEPT. 90	ERB	CHANGE SIDEWALK TO BE 5' WIDE & CHANGE TO 4% MAX. SLOPE
12-12-88	DJE	LIGHTING LEGEND ADDED
7-8-88	C&H	PROFILE STA 0+00 TO STA 3+50
7-21-88	RAG	REVISED S.D. STR.# & S.D. SYSTEM
6-1-88	RAG.	ADDED TREES, LIGHTS & 8"W. X-ING

MONTGOMERY MEADOWS
SECTION ONE AREA TWO
LOTS 62 THRU LOT 137
2ND ELECTION DISTRICT HOWARD COUNTY, MD.

PLAN AND PROFILE
RISING SUN LANE

OWNER / DEVELOPER
NV LAND, INC.
6820 ELM STREET
Mc LEAN, VIRGINIA 22101
(703) 734-9730

SCALE: AS SHOWN	DATE: APRIL, 1988	SHEET 3 OF 13
DESIGNED BY: R.A.G.	DRAWN BY: D.A.T.	CHECKED BY: J.F.N.

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

PROFILE — SURVEYED — PLOTTED — NOTE BOOK — GRADES CHECKED — R/W's NOTED — No. — REVISIONS/ADDITIONS CHECKED — BY — DATE

RISING SUN LANE

P.V.I. STA. 9+75.00
ELEV. = 429.85'
CORR. = 1.53'
L.V.C. = 250'
SSD = 270'

P.V.I. STA. 2+75.00
ELEV. = 370.85'
CORR. = .037'
L.V.C. = 100'
SSD = 270'

P.G.L. (TOP CURB)
EX. GROUND @ 40' RIGHT B.R.L.
EX. GROUND @ 40' LEFT B.R.L.
EX. GROUND @ ℄
-1.10%
-.90%
-10.00%
-3.00%
REFER TO H.A. STANDARD DETAIL R 3.02
REFER TO H.C.D. STANDARD DETAIL R-3.06

AS-BUILT

NOTE: GUTSHALL LITTLE & WEBER IS RESPONSIBLE FOR AS-BUILT INFORMATION ONLY

PROFILE SCALE
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 5'

1443

F-88-214

ENGINEER'S CERTIFICATE

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.

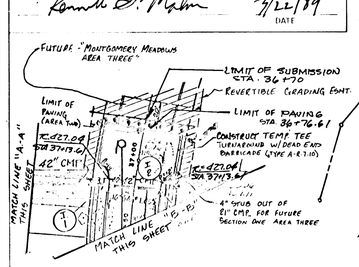
Thomas T. Willey — 3/21/89 DATE

STATE OF MARYLAND — THOMAS T. WILLEY — No. 9273 — REGISTERED PROFESSIONAL ENGINEER

DEVELOPER'S CERTIFICATE

I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF NATURAL RESOURSES APPROVED TRAINING PROGRAM FOR THE CONTROL OF EROSION AND SEDIMENT BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ONSITE INSPECTION BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS AS ARE DEEMED NECESSARY.

Kenneth D. Mahan — 3/22/89 DATE



APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING

Marsha S. McLaughlin — 6/6/89
COMMUNITY PLANNING & LAND DEVELOPMENT — DATE

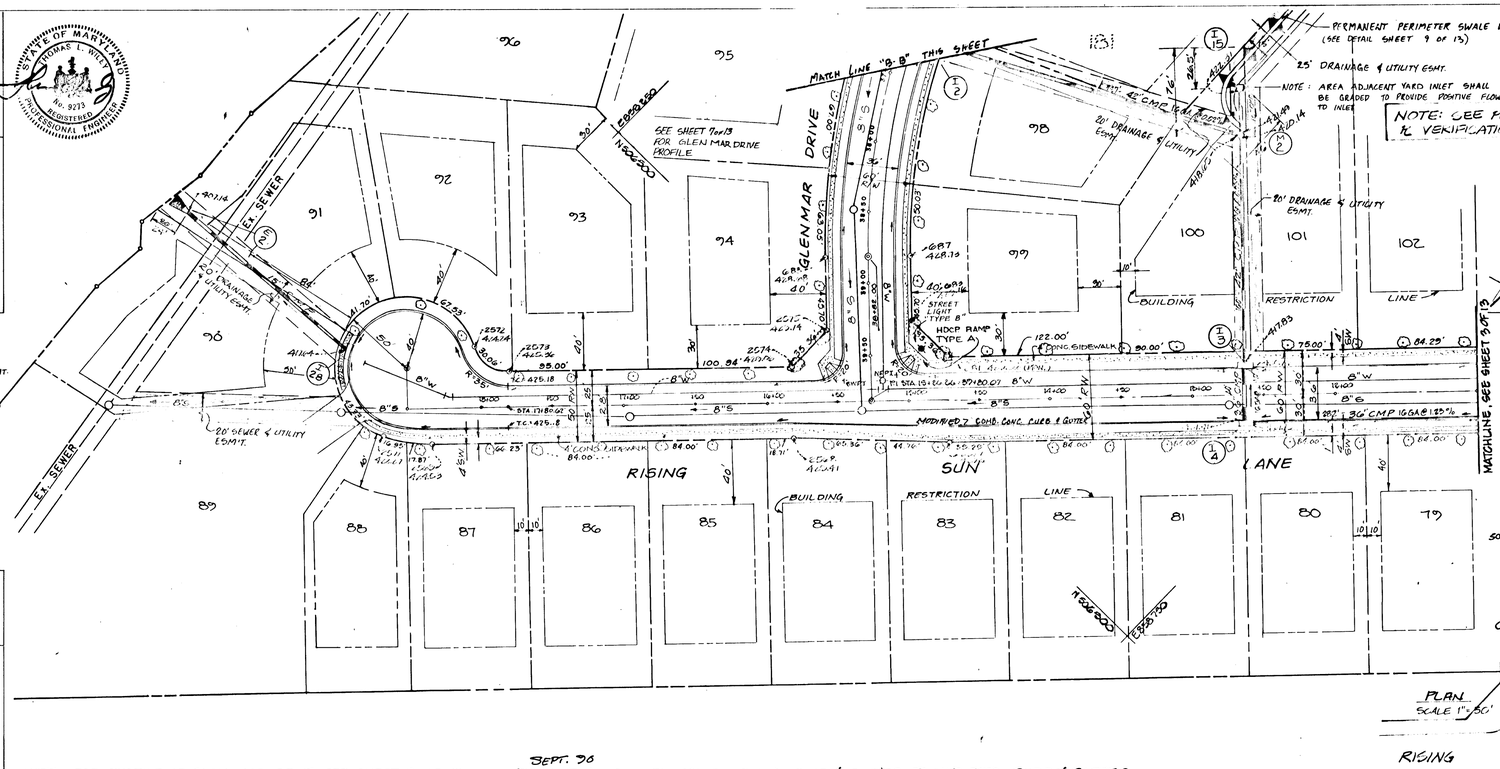
APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

Ronald G. Lapsom — 6/7/89
DIRECTOR — DATE

Granville W. Wellman — 6/7/89
CHIEF, BUREAU OF ENGINEERING — DATE

J. Redinger & Riley — 6/8/89
CHIEF, BUREAU OF HIGHWAYS — DATE

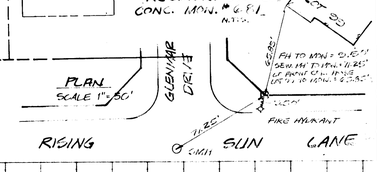
PLAN — SURVEYED / PLOTTED / NOTE BOOK / No. — BY / DATE / FIELD CHECKED / R/W'S CHECKED / STREET NOMENCLATURE CHECKED



LIGHTING LEGEND

1. ✦ TYPE 'A' 150 WATT HIGH PRESS. SODIUM VAPOR LAMP MOUNTED ON A 30' HIGH GALVANIZED STEEL POLE.
2. ✦ TYPE 'B' 250 WATT MERCURY VAPOR LAMP MOUNTED ON A 25' HIGH GALVANIZED STEEL POLE.

RECOVERY WITH CONC. MON. # G.B.I.



MONTGOMERY MEADOWS
SECTION ONE AREA TWO
LOTS 62 THRU LOT 137
2ND. ELECTION DISTRICT HOWARD COUNTY, MD.

PLAN AND PROFILE
GLENMAR DR. & RISING SUN LN.

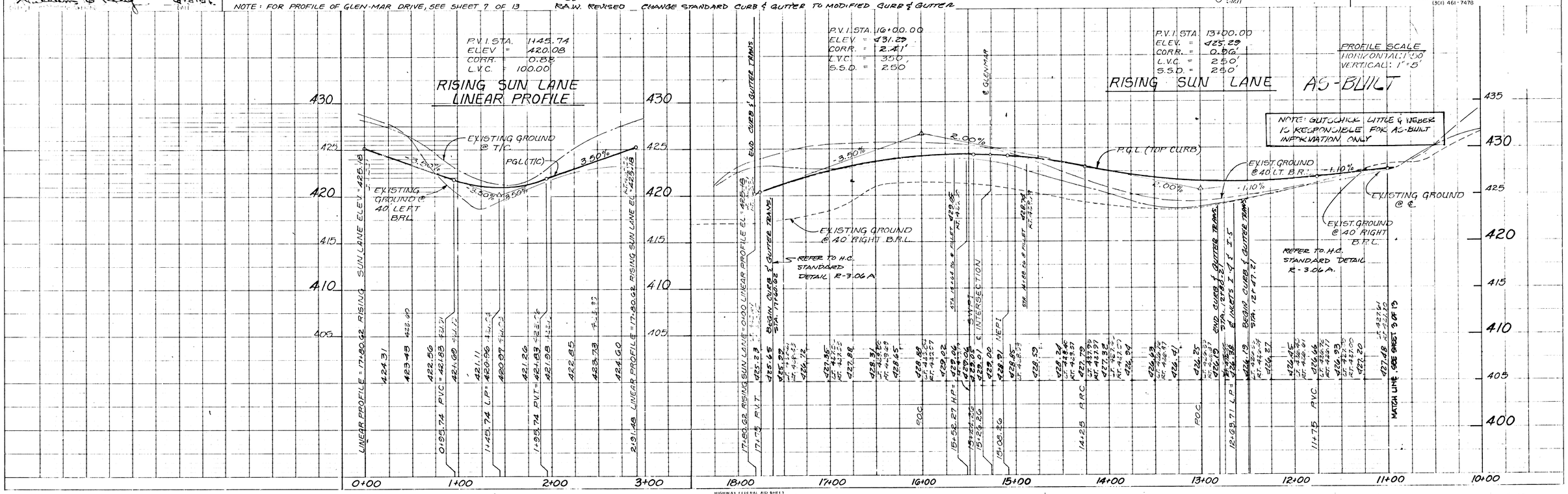
OWNER / DEVELOPER
NV LAND, INC.
6820 ELM STREET
Mc LEAN, VIRGINIA 22101
(703)734-9730

SCALE AS SHOWN	DATE APRIL, 1988	SHEET 4 OF 13
DESIGNED BY R.A.G.	DRAWN BY D.A.T.	CHECKED BY J.F.N.

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

NOTE: FOR PROFILE OF GLEN-MAR DRIVE, SEE SHEET 7 OF 13

SEPT. 30
R.A.W. REVISED — CHANGE STANDARD CURB & GUTTER TO MODIFIED CURB & GUTTER



PROFILE — SURVEYED / PLOTTED / NOTE BOOK / No. — BY / DATE / R/W'S CHECKED / STREET NOMENCLATURE CHECKED

1443

HIGHWAY FEDERAL AID SHEETS
PLATE 1-SINGLE PLAN AND PROFILE-FULL LINE
PRINTED IN U.S.A.

F-88-244

ENGINEER'S CERTIFICATE

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.

Thomas L. Wiley — 3/21/89
DATE

THOMAS L. WILEY — No. 9273 — REGISTERED PROFESSIONAL ENGINEER

DEVELOPERS CERTIFICATE

I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL AND THAT ALL 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 EROSION AND SEDIMENT BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS AS ARE DEEMED NECESSARY.

Kenneth D. Mohn — 3/22/89
DATE

RECOVERY SKETCH
CONCRETE MON. #666
N.F.C.

PLAN — SURVEYED — NOTE BOOK — ACCURACY CHECKED — GRADES CHECKED — R. & L.'s NOTED — STREET-RE-MONUMENTS CHECKED — No. — DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING

Marsha S. McLaughlin — 6/6/89
COMMUNITY PLANNING — DATE
LAND DEVELOPMENT — JB

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

Ronald Lapson — 6/7/89
DATE

Granville W. Wellman — 6/7/89
DATE

D.R. Sellman — 6/8/89
DATE

PROFILE — SURVEYED — NOTE BOOK — GRADES CHECKED — No. — DATE

1443

NOTE: FOR STORM DRAIN PROFILE SEE SHEET 7 OF 13

LIGHTING LEGEND

1. + TYPE 'A' 150 WATT HIGH PRESS. SODIUM VAPOR LAMP MOUNTED ON A 30' HIGH GALVANIZED STEEL POLE.
2. + TYPE 'B' 250 WATT MERCURY VAPOR LAMP MOUNTED ON A 25' HIGH GALVANIZED STEEL POLE.

DATE	BY	REVISION
SEPT 90	ERD	CHANGE STANDARD CURB TO MODIFIED GUTTER
12-12-88	COJE	LIGHTING LEGEND & NOTE ADDED
7-21-88	RAG	REVISED S.D. STA NO. & SD SYSTEM
6-1-88	RAG	ADDED TREES, LIGHTS & B.W. ZONING

MONTGOMERY MEADOWS

SECTION ONE AREA TWO
LOTS 62 THRU LOT 137
2ND. ELECTION DISTRICT HOWARD COUNTY, MD.

PLAN AND PROFILE
HILLMONT CT. & SPURR TERR.

OWNER / DEVELOPER
NV LAND, INC
6820 ELM STREET
Mc LEAN, VIRGINIA 22101
(703) 734-9730

SCALE AS SHOWN | DATE: APRIL, 1988 | SHEET 5 OF 13
DESIGNED BY: R.A.G. | DRAWN BY: D.A.T. | CHECKED BY: J.F.N.

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

AS-BUILT

NOTE: GUTSCHICK LITTLE & WEBER IS RESPONSIBLE FOR AS-BUILT INFORMATION ONLY

HILLMONT COURT
℄ CURVE DATA
STA. 2+41.12 TO STA. 3+10.13
R = 109.62'
L = 69.01'
Δ = 36°04'15"
T = 35.69'
CHD = 67.88'

SPURR TERRACE
℄ CURVE DATA
STA. 1+54.45 TO STA 2+24.37
R = 106.37'
L = 69.92'
Δ = 37°39'45"
T = 36.28'
CHD = 68.67'

NOTE: AREA ADJACENT TO YARD INLET SHALL BE GRADED TO PROVIDE POSITIVE FLOW TO INLET.

NOTE: AREA ADJACENT TO YARD INLET SHALL BE GRADED TO PROVIDE POSITIVE FLOW TO INLET.

PLAN SCALE 1"=50'

PLAN SCALE 1"=50'

LINEAR PROFILE HILLMONT COURT

P.V.I. STATION = 1+45.7
ELEVATION = 462.54
L.C. = 100.00'
CORR = 0.25

EX. GROUND @ 40' LEFT
EX. GROUND @ T/C
P.G.L. (TOP CURB)
1.00% 1.00% +1.00% -1.00%

HILLMONT COURT STA 0+00.00 = SPURR TERRACE STA 1+54.45 = 460.82
LINEAR PROFILE = 2+41.12
HILLMONT COURT = 460.82

0+00 0+25.00 0+50.00 0+75.74 1+00.00 1+25.74 1+45.74 1+50.00 1+75.00 2+00.00 2+25.00 2+41.12 2+50.00 2+75.00 3+00.00

460.72 460.87 461.02 461.17 461.32 461.47 462.07 462.54 461.98 461.83 461.68 461.53 461.38 461.23 461.08 460.82

480 470 460 450

HILLMONT COURT

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

EX. GROUND @ 40' RIGHT
EX. GROUND @ 40' LEFT
P.G.L. (TOP CURB)
END CURB & GUTTER TRANSITION
℄ INTERS. ℄ CURB & GUTTER
REFER TO H.C. STANDARD DETAIL R-3.06 A
EX. GROUND
EX. GROUND @ 40' LEFT (R.I.P.)

HILLMONT COURT STA 0+00.00 = SPURR TERRACE STA 1+54.45
LINEAR PROFILE = 2+41.12
HILLMONT COURT = 460.82

0+00 0+25.00 0+50.00 0+75.74 1+00.00 1+25.74 1+45.74 1+50.00 1+75.00 2+00.00 2+25.00 2+41.12 2+50.00 2+75.00 3+00.00

460.72 460.87 461.02 461.17 461.32 461.47 462.07 462.54 461.98 461.83 461.68 461.53 461.38 461.23 461.08 460.82

480 470 460 450

SPURR TERRACE

EX. GROUND @ 40' LEFT
EX. GROUND @ 40' RIGHT
P.G.L. (TOP CURB)
EX. GRD. P.G.L.
REFER TO H.C. STANDARD DETAIL R-3.02

460 450 440 430

LINEAR PROFILE SPURR TERRACE

P.V.I. STA = 0+50.00
ELEV. = 451.38'
L.C. = 100'
CORR. = 0.13'

P.V.I. STA. = 1+75.00
ELEV. = 445.14'
L.C. = 100.00
CORR. = 1.50'

P.V.I. STA. = 2+52.35
ELEV. = 462.35
L.C. = 50.00
CORR. = 0.22'

-4.00% -3.00% 2.45% 2.45% 4.00%
P.G.L. TOP CURB
EX. GROUND @ T/C
EX. GROUND @ 40' LEFT

LINEAR PROFILE 1+54.45 SPURR TERRACE P.G.L. = 453.36
P.V.I. 0+50.00 ELEV. 451.38 P.O.C. 451.62
P.V.I. 1+75.00 ELEV. 445.14 P.O.C. 445.77
P.V.I. 2+52.35 ELEV. 462.35 P.O.C. 462.79
LINEAR PROFILE 2+41.12 = HILLMONT COURT = 460.82

0+00 0+18.00 0+50.00 1+00.00 1+05.16 1+75.00 2+00.00 2+25.00 2+46.88 2+50.00 2+71.81 3+00.00

453.36 452.76 451.62 450.79 449.64 448.67 447.64 446.16 445.14 446.19 447.38 450.79 452.35 453.44 454.81 456.19

460 450 440 430 420

HIGHWAY FEDERAL AID SHEET
PLATE 1-SINGLE PLAN AND PROFILE-FULL LINE
PRINTED IN U.S.A.

F-88-244

ENGINEER'S CERTIFICATE

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

[signature] 3/21/89
DATE

DEVELOPER'S CERTIFICATE

I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF NATURAL RESOURSES APPROVED TRAINING PROGRAM FOR THE CONTROL OF EROSION AND SEDIMENT BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ONSITE INSPECTION BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS AS ARE DEEMED NECESSARY

[signature] 3/22/89
DATE

STATE OF MARYLAND — THOMAS L. WILEY — No. 9273 — REGISTERED PROFESSIONAL ENGINEER

REVISIONS		
DATE	BY	DESCRIPTION
7-21-88	D.D.	REVISE S.D. STR. NO'S & S.D. SYSTEMS.
12-12-88	CD/JE	LIGHTING LEGEND ADDED
SEPT 90	EEB	CHANGE STANDARD CURB & GUTTER TO MODIFIED CURB & GUTTER.

APPROVED HOWARD COUNTY OFFICE OF PLANNING AND ZONING

[signature] 6/20/89
COMMUNITY PLANNING
LAND DEVELOPMENT
DATE

APPROVED HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

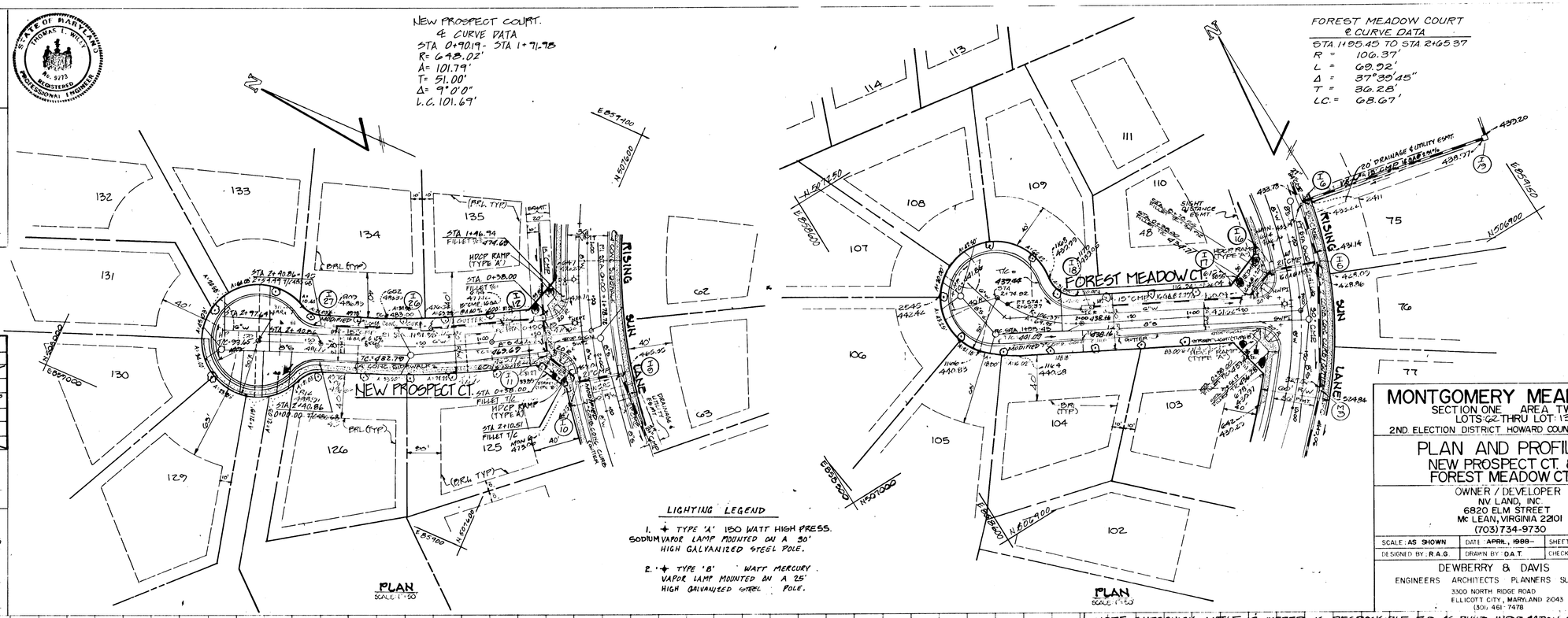
[signature] 6/7/89
DATE

[signature] 6/7/89
DATE

[signature] 6/8/89
DATE

PLAN — SURVEYED / PLOTTED / ALIGNMENT CHECKED / RT. OF WAY CHECKED — NOTE BOOK No. ____ — BY ____ DATE ____

PROFILE — SURVEYED / PLOTTED / GRADES CHECKED / B.M.'s NOTED / STRUCTURE NOTATIONS CHECKED — NOTE BOOK No. ____ — BY ____ DATE ____



LIGHTING LEGEND

1. ✦ TYPE 'A' 150 WATT HIGH PRESS. SODIUM VAPOR LAMP MOUNTED ON A 30' HIGH GALVANIZED STEEL POLE.

2. ✦ TYPE 'B' WATT MERCURY VAPOR LAMP MOUNTED ON A 25' HIGH GALVANIZED STEEL POLE.

MONTGOMERY MEADOWS

SECTION ONE AREA TWO
LOTS 62 THRU LOT 137
2ND ELECTION DISTRICT HOWARD COUNTY, MD.

PLAN AND PROFILE
NEW PROSPECT CT. & FOREST MEADOW CT.

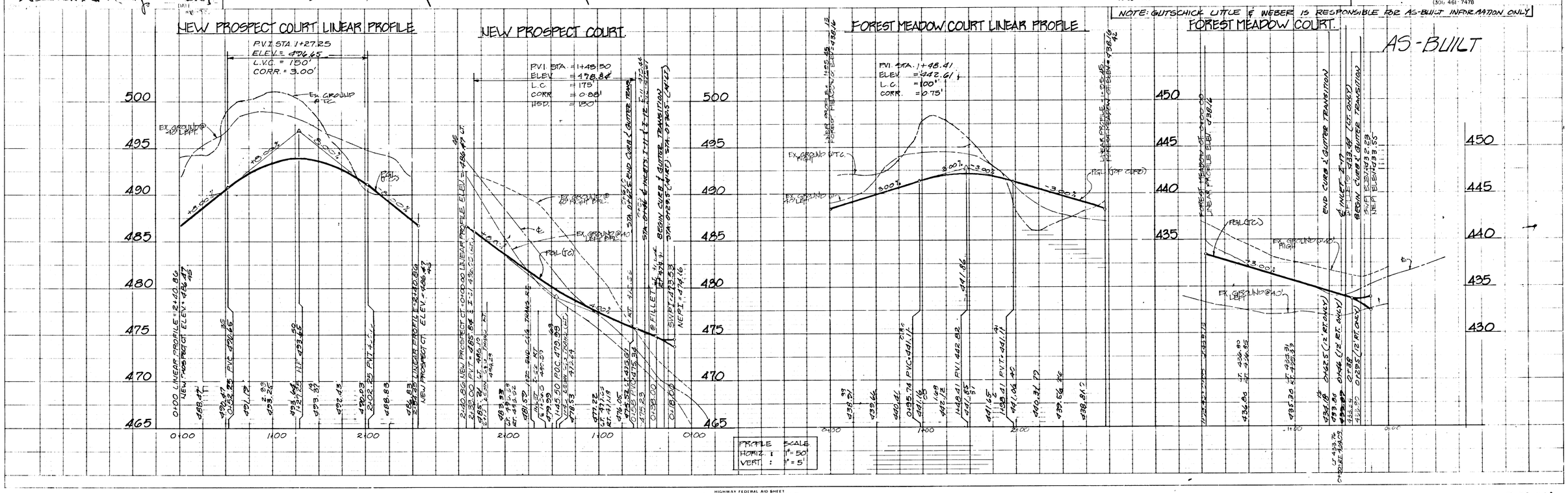
OWNER / DEVELOPER
NV LAND, INC.
6820 ELM STREET
Mc LEAN, VIRGINIA 22101
(703) 734-9730

SCALE: AS SHOWN	DATE: APRIL, 1988	SHEET 6 OF 13
DESIGNED BY: R.A.G.	DRAWN BY: D.A.T.	CHECKED BY: J.F.N.

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

NOTE: GUTSCHICK LITTLE & WEBER IS RESPONSIBLE FOR AS-BUILT INFORMATION ONLY

AS-BUILT



1443

HIGHWAY FEDERAL AID SHEET
PLATE 1-SINGLE PLAN AND PROFILE-FULL LINE
PRINTED IN U.S.A.

F-88-244

ENGINEER'S CERTIFICATE

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.

Thomas L. Wiley — 3/21/89
DATE

DEVELOPER'S CERTIFICATE

I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF NATURAL RESOURSES APPROVED TRAINING PROGRAM FOR THE CONTROL OF EROSION AND SEDIMENT BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS AS ARE DEEMED NECESSARY.

Kenneth E. Myler — 3/21/89
DATE

THOMAS L. WILEY — No. 9273 — REGISTERED PROFESSIONAL ENGINEER — STATE OF MARYLAND

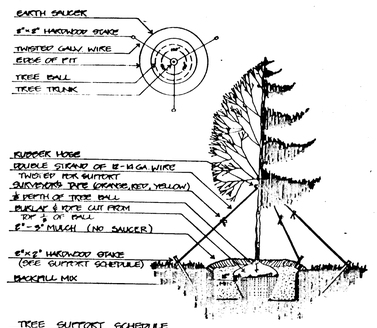
APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING

Marsha S. McLaughlin — 6/20/89
DIRECTOR OF LAND DEVELOPMENT — COMMUNITY PLANNER — DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

Donald W. Lyon — 6/7/89 — DATE
Granville W. Woodland — 6/7/89 — DATE
Wm. Robert Riley — 6/6/89 — DATE

PROFILE	SURVEYED	DATE
	PLOTTED	BY
NOTE BOOK	GRADES CHECKED	
	* M-L VOTED	
No.	* DENOTES REVISION/ADDITION/DELETION CHECKED	



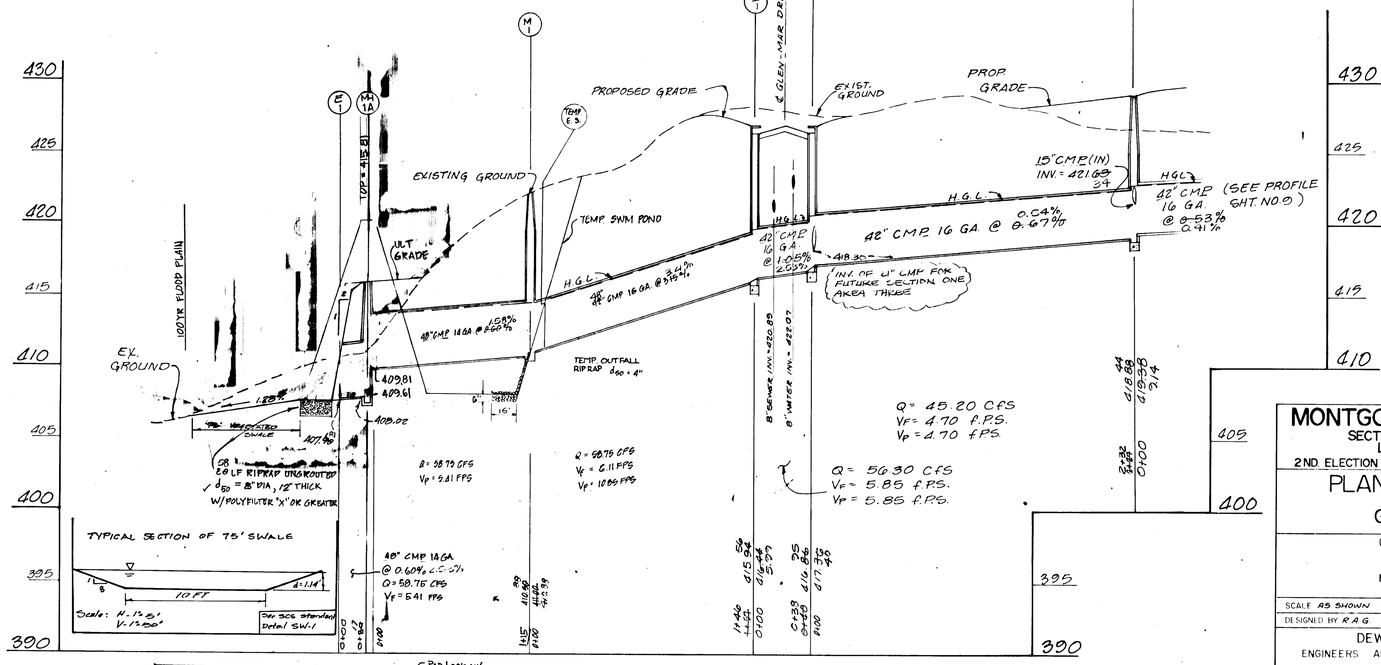
TREE SUPPORT SCHEDULE

TREE SIZE	SUPPORT
15'-18'	2 @ 8' STAKE, 8 RECOVERED, 12 GA. WIRE
18'-14'	3 @ 8' CAL. 8' STAKE, 8 RECOVERED, 12 GA. WIRE
14'-20'	4 @ 6'-0" CAL. 2 @ 8' STAKE, 8 RECOVERED, 12 GA. WIRE
20'+	6" + CAL. TURNBUCKLE, 8 RECOVERED, 2 @ 3/16" CABLE, 2 @ 3/16" TURNBUCKLE

NOTE: WIRE MESH ON ROOT BALL TO BE REMOVED BEFORE BACKFILLING AROUND TREE.

TREE STAKING DETAIL
EVERGREENS & TREES OVER 2-1/2" CAL. N.T.S.

NOTE: PRIOR TO REGRADING AND BACKFILLING OF POND, REMOVE TEMPORARY CMP SECTION, INSTALL MANHOLE M-1, SECTION OF 48" CMP TO E-1 AND STRUCTURE E-1.



RAW 11-8-90 REVISED GRADING

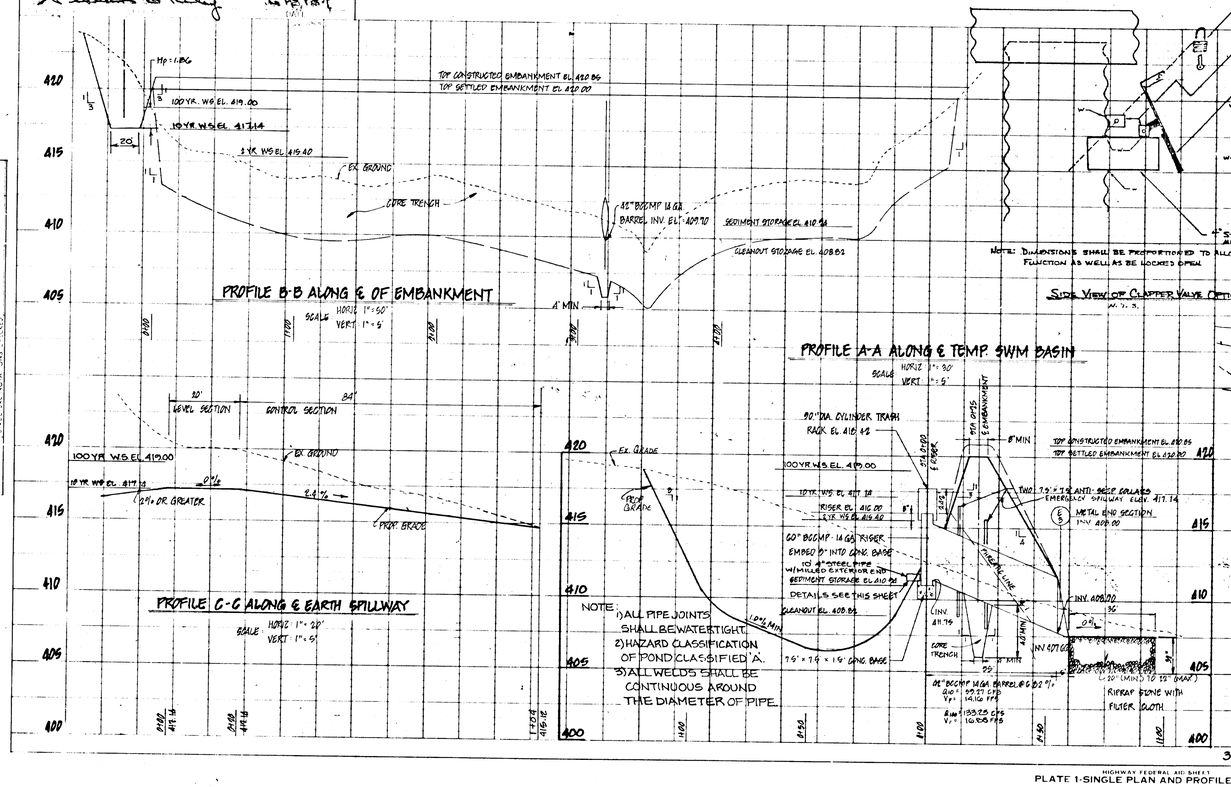
MONTGOMERY MEADOWS
SECTION ONE AREA TWO
LOTS 62 THRU LOT 137
2ND ELECTION DISTRICT HOWARD COUNTY, MD.

PLAN AND PROFILE
GLEN-MAR DRIVE

OWNER / DEVELOPER
NV LAND, INC.
6820 ELM STREET
Mc. LEAN, VIRGINIA 22101
(703) 734-9730

SCALE AS SHOWN	DATE APRIL 1988	SHEET 7 OF 13
DESIGNED BY R.A.G.	DRAWN BY R.J.L.	CHECKED BY J.F.N.

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



GLEN-MAR DRIVE
FOR PLAN OF GLEMAR SEE SHEET 4 OF 13

PROFILE SCALE
HORIZONTAL: 1"=50'
VERTICAL: 1"=5'

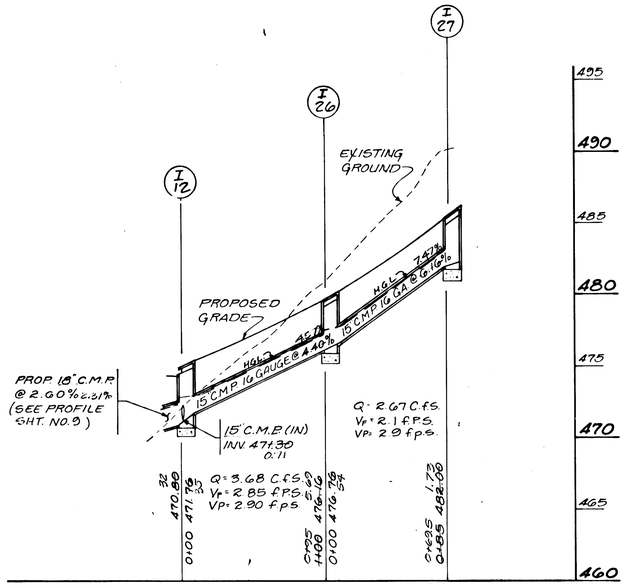
AS-BUILT

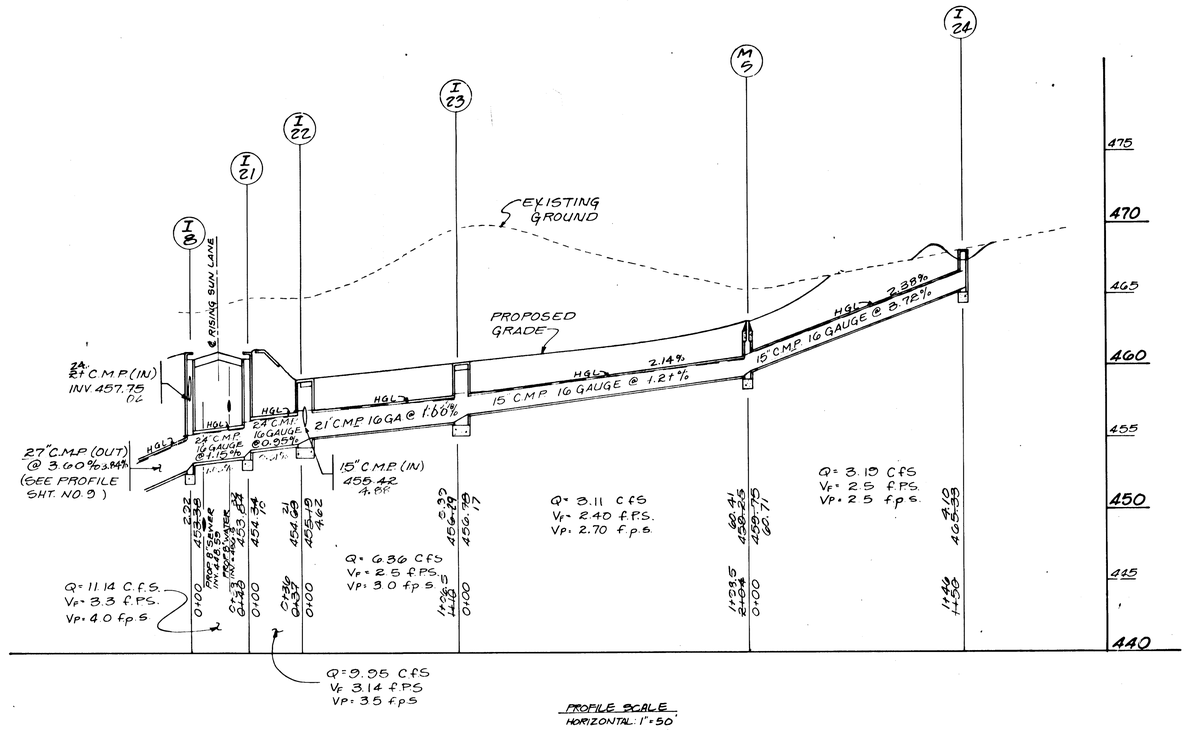
NOTE: GUTSCHICK LITTLE & WEBER IS RESPONSIBLE FOR AS-BUILT INFORMATION ONLY

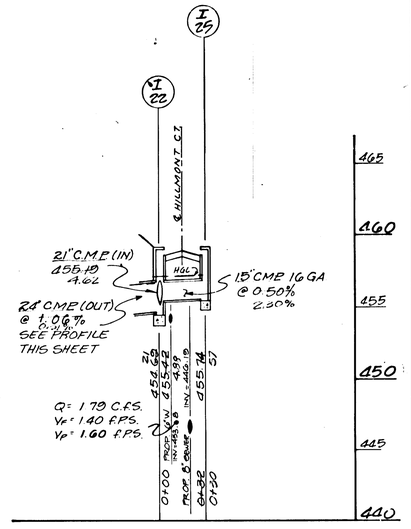
1743

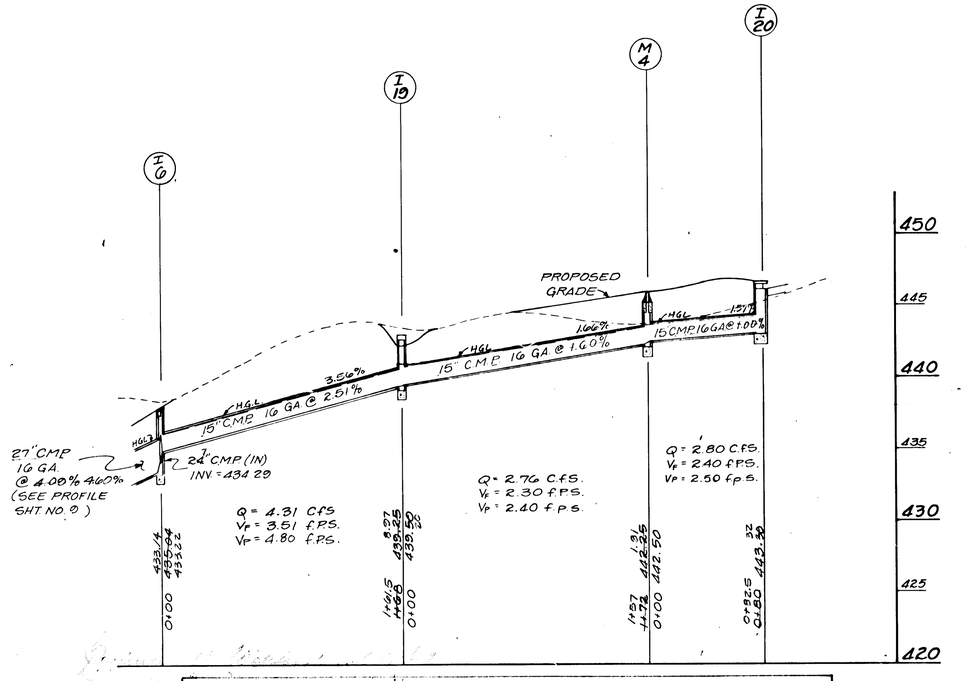
HIGHWAY FEDERAL AID SHEET
PLATE 1-SINGLE PLAN AND PROFILE-FULL LINE
PRINTED IN U.S.A.

F-88-244









PROFILE SCALE
HORIZONTAL: 1" = 50'
VERTICAL : 1" = 5'

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

CHIEF, LAND DEVELOPMENT DIVISION — DATE 6/7/89

CHIEF, BUREAU OF HIGHWAY — DATE 6/7/89

CHIEF, BUREAU OF ENGINEERING — DATE 6/8/89

APPROVED HOWARD COUNTY OFFICE OF PLANNING AND ZONING

CHIEF, DIVISION OF COMMUNITY AND LAND DEVELOPMENT — DATE 6/20/89

NOTE: GLITSCHICK LITTLE & WEBER IS RESPONSIBLE FOR AS-BUILT INFORMATION ONLY

NOTE. ALL DISTANCES ARE REFERENCED FROM CENTER OF STRUCTURE

DESIGNED	date	REVISIONS	
DRAWN	date	DATE / BY / DESCRIPTION	
CHECKED	date		
APPROVED	date		

Dewberry & Davis

ENGINEERS — ARCHITECTS — PLANNERS — SURVEYORS

2594 Riva Road, Annapolis, Maryland 21401
8411 Arlington Boulevard, Fairfax, Virginia 22030
19201 Montgomery Village Ave., Gaithersburg, Md. 20760

STATE OF MARYLAND — THOMAS L. WEBER — No. 9775 — REGISTERED PROFESSIONAL ENGINEER — 6/21/89

OWNER / DEVELOPER

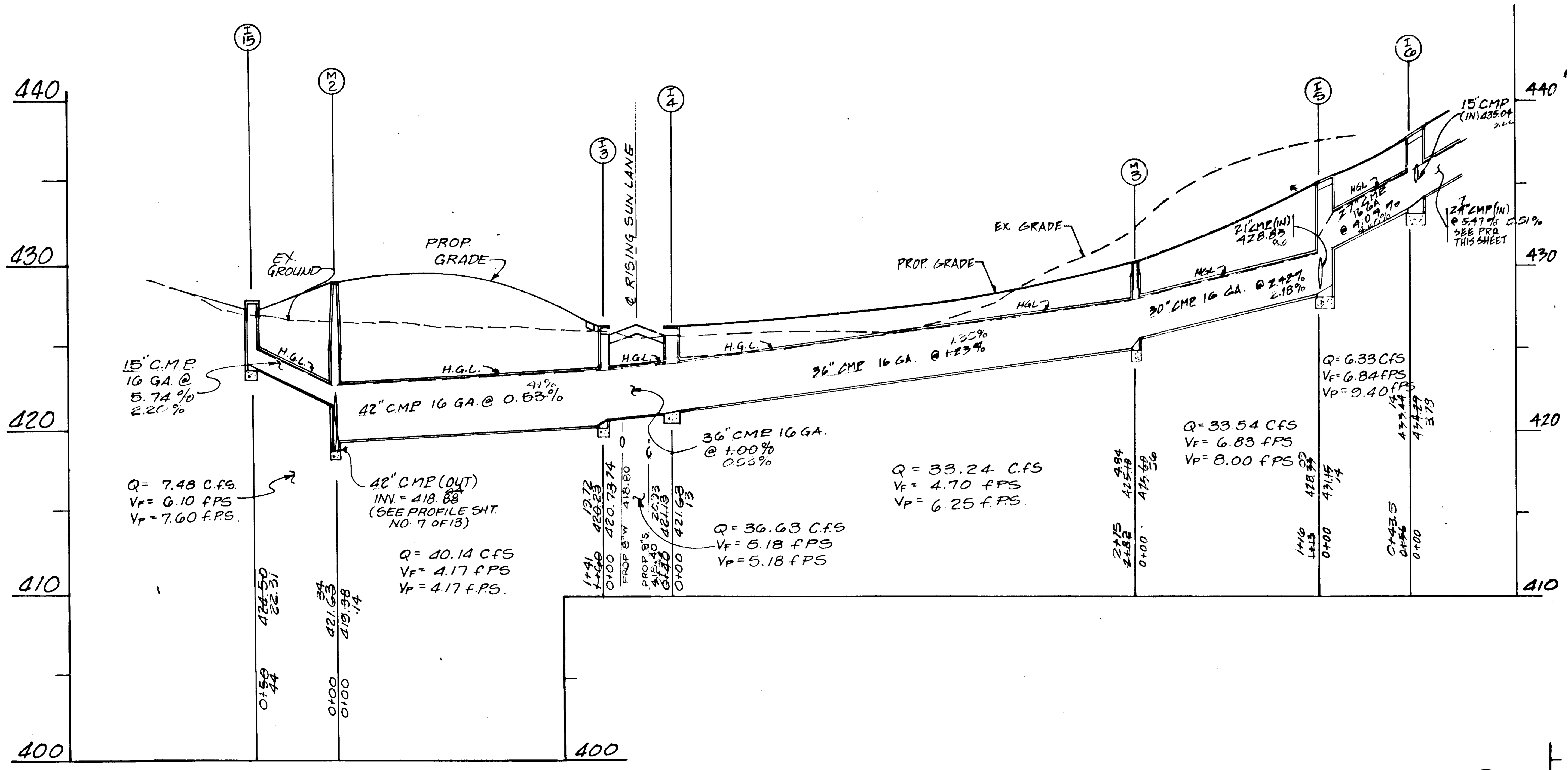
NV LAND INC.
6820 ELM STREET
McLEAN, VA. 22101
(703)734-9730

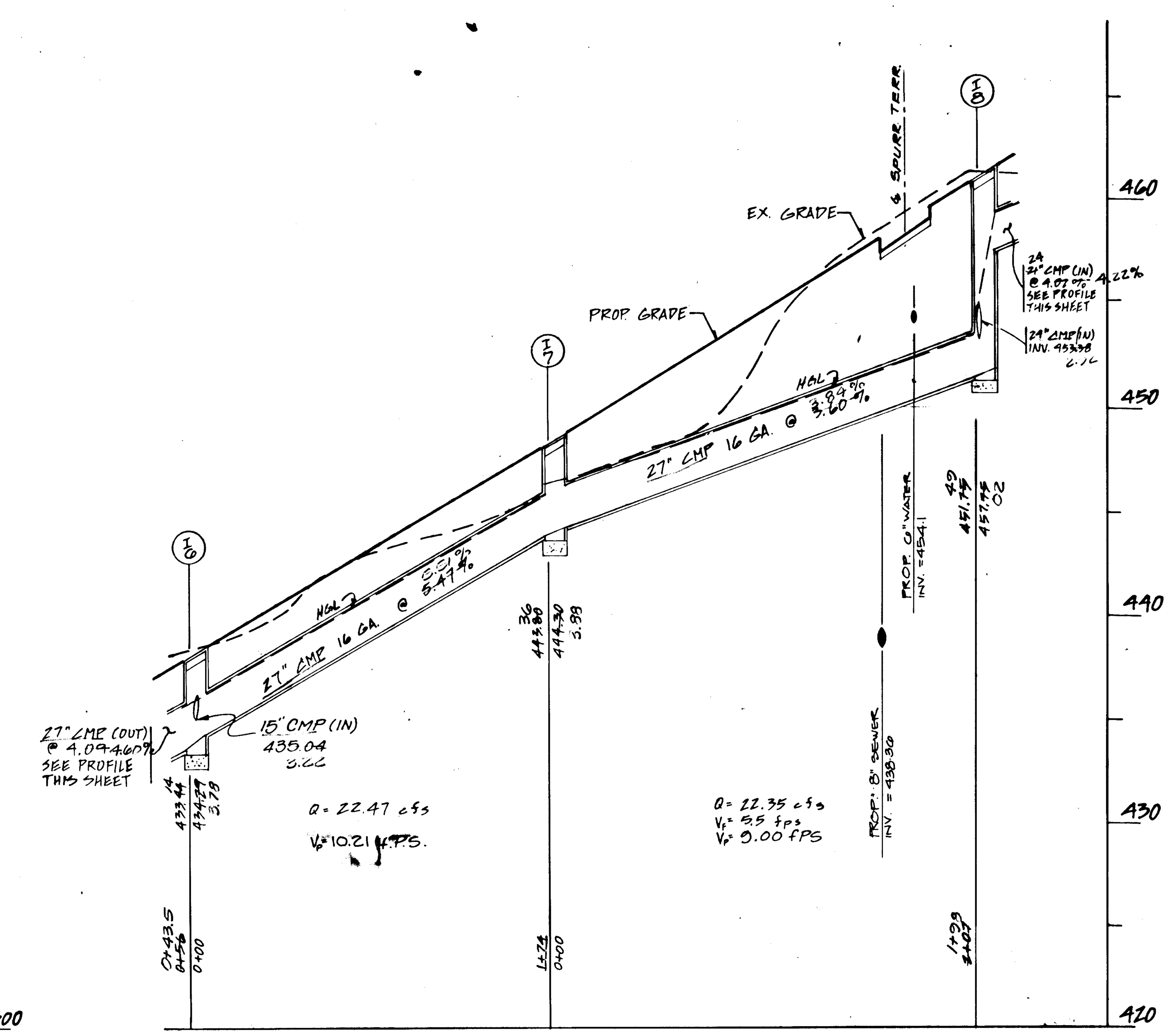
AS-BUILT STORM DRAIN PROFILES
MONTGOMERY MEADOWS
SECTION ONE AREA TWO
LOT 62 TO LOT 131
TAX MAP: PARCEL: BLOCKS
2ND ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SCALE: 1" = 50' APRIL 28, 1988

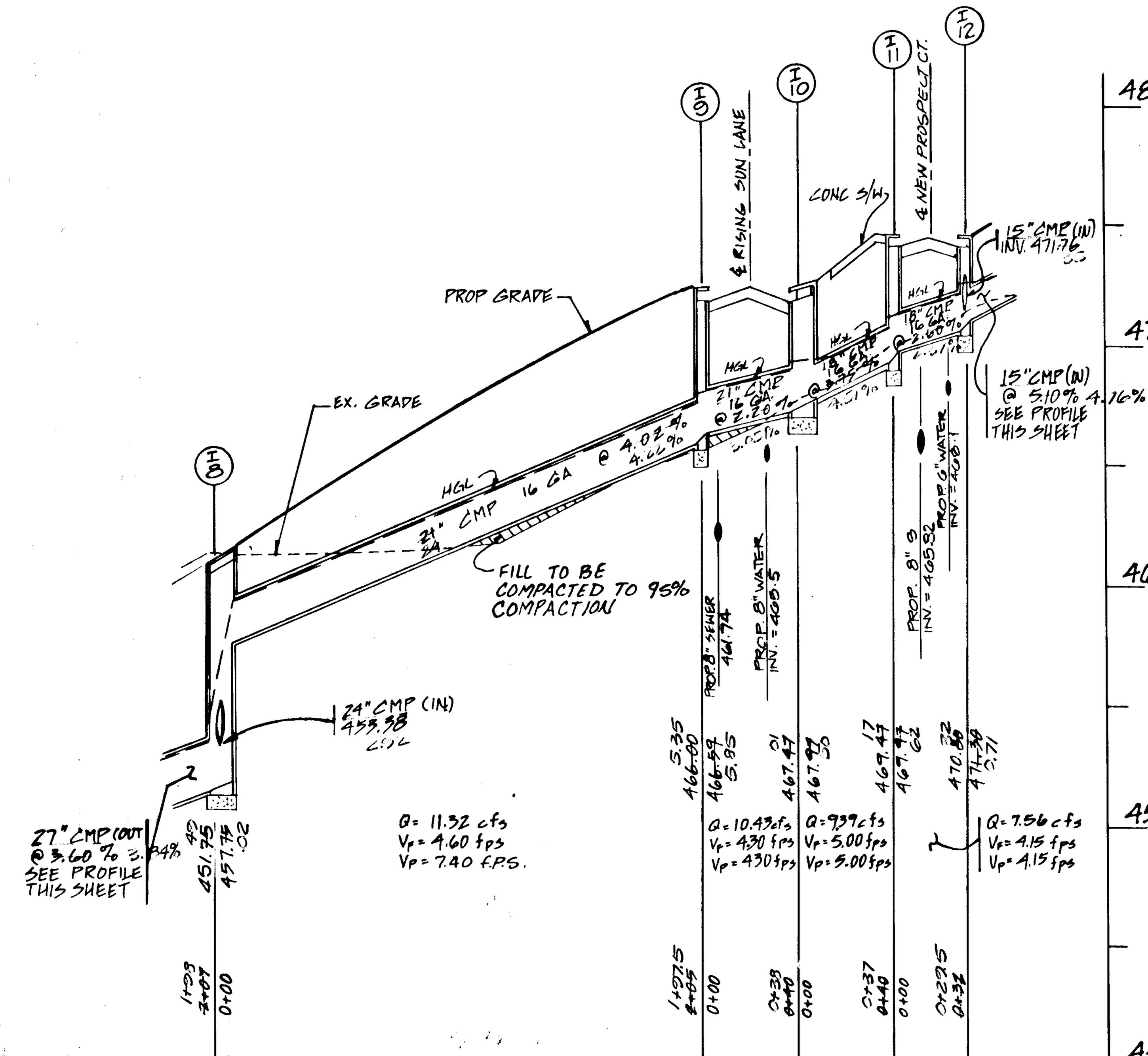
SCALE: AS SHOWN | CONTRACT NO. | FILE NO. | SHEET 3 OF 13

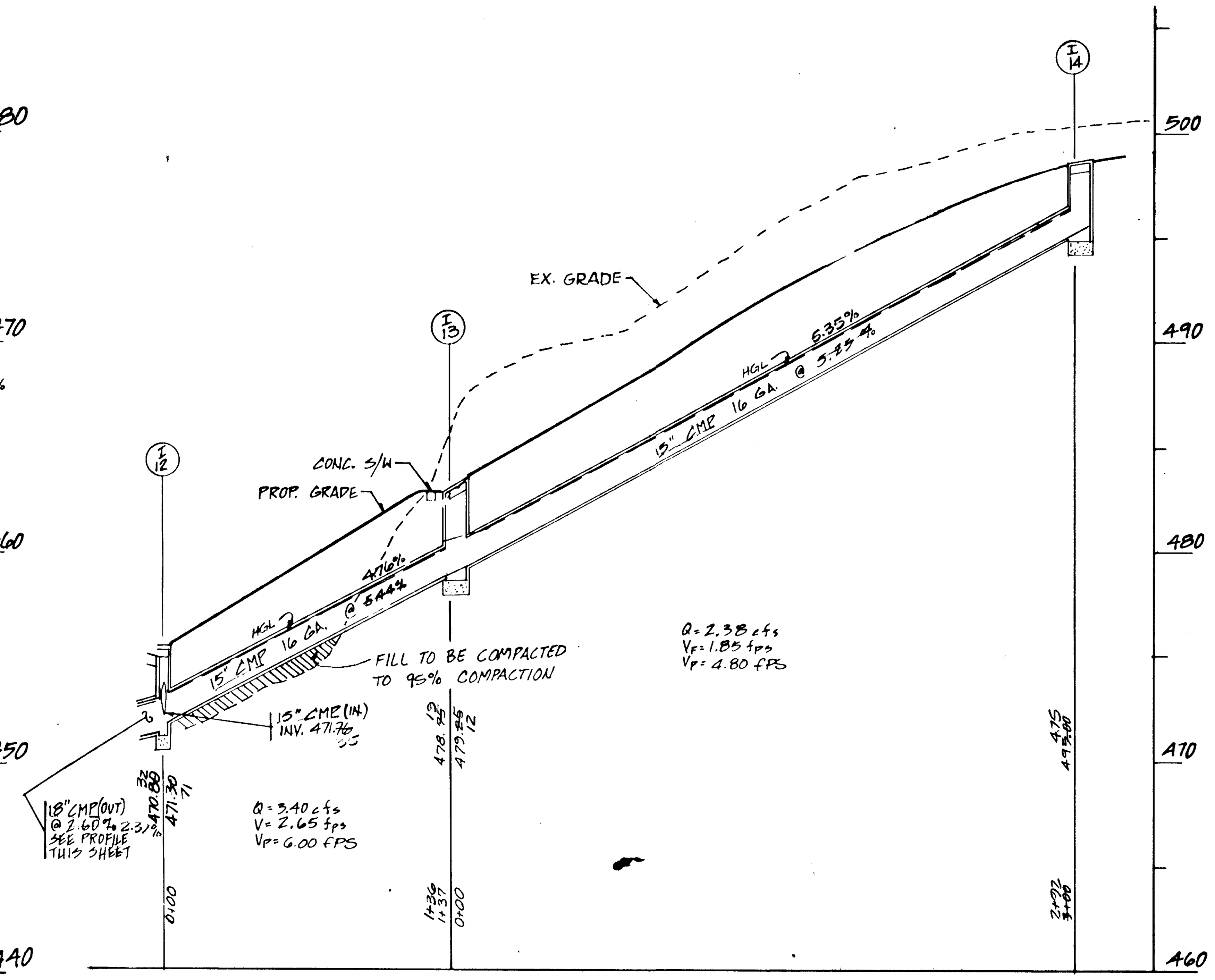
1443

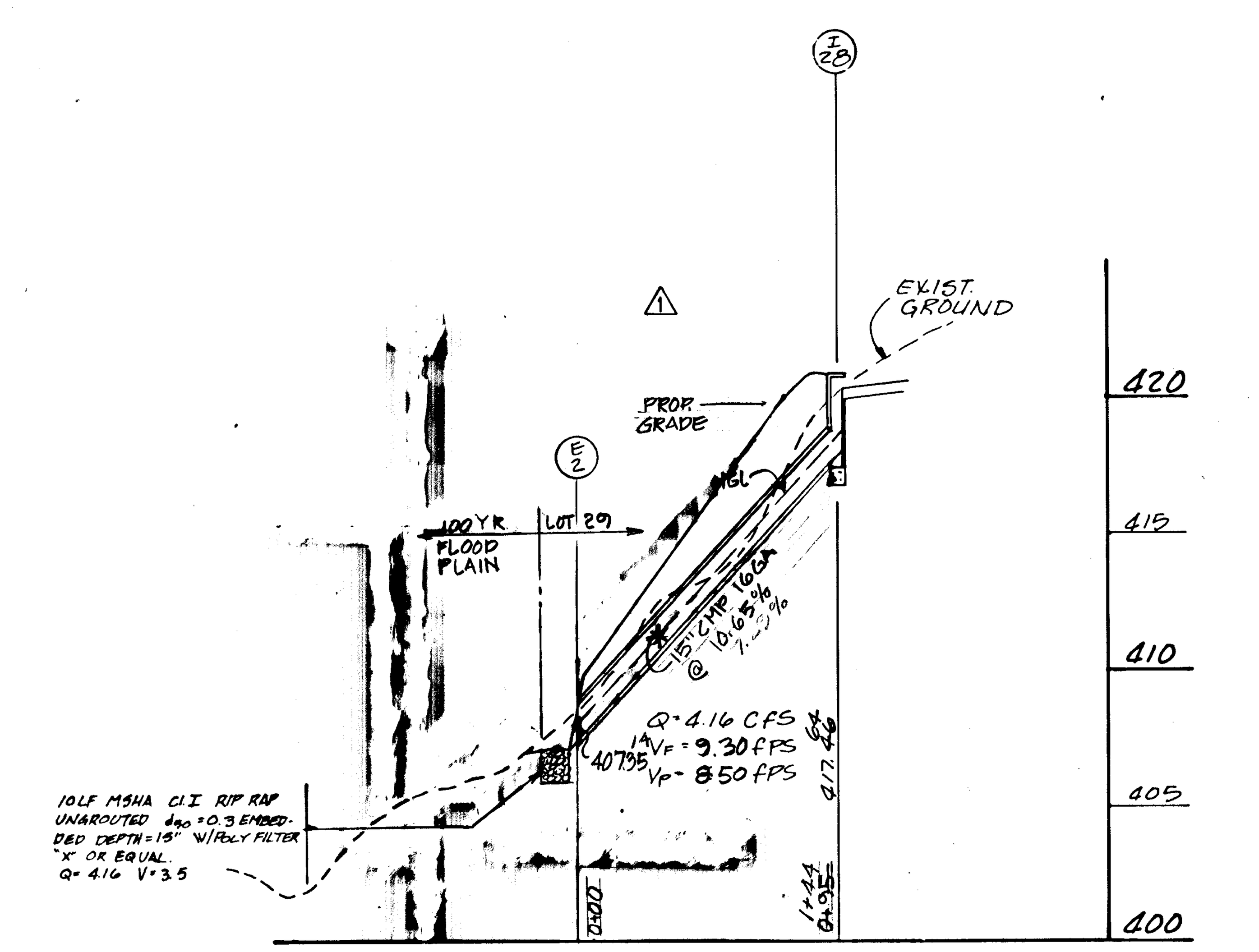
F-88-244











PROFILE SCALE
HORIZONTAL : 1"=50'
VERTICAL : 1"=5'

APPROVED HOWARD COUNTY OFFICE OF PLANNING AND ZONING

CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT — 6/22/89 DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

CHIEF, LAND DEVELOPMENT DIVISION — 6/7/89 DATE

CHIEF, BUREAU OF HIGHWAY — 6/7/89 DATE

CHIEF, BUREAU OF ENGINEERING — 6/8/89 DATE

NOTE: GUTSCHICK LITTLE & WEBER IS RESPONSIBLE FOR AS-BUILT INFORMATION ONLY

DESIGNED	RAG	1/20/88 date
DRAWN		date
CHECKED		date
APPROVED		date

REVISIONS

DATE	BY	DESCRIPTION
9-14-88	CRH/RB	Inlet 13, Moved.
1-25-90	WAJ	REDUCED LENGTH OF PIPE TO 95' FROM STRUCTURE I-28 TO E-2 AS PER HOWARD CO. COMMENTS ⚠1

Dewberry & Davis

ENGINEERS — ARCHITECTS — PLANNERS — SURVEYORS

2594 Riva Road, Annapolis, Maryland 21401
8411 Arlington Boulevard, Fairfax, Virginia 22030
19201 Montgomery Village Ave., Gaithersburg, Md. 20760

STATE OF MARYLAND — THOMAS L. WILEY — No. 9273 — REGISTERED PROFESSIONAL ENGINEER
3/8/1987

OWNER / DEVELOPER

NV LAND INC.
6820 ELM STREET
McLEAN, VA. 22101
(703)734-9730

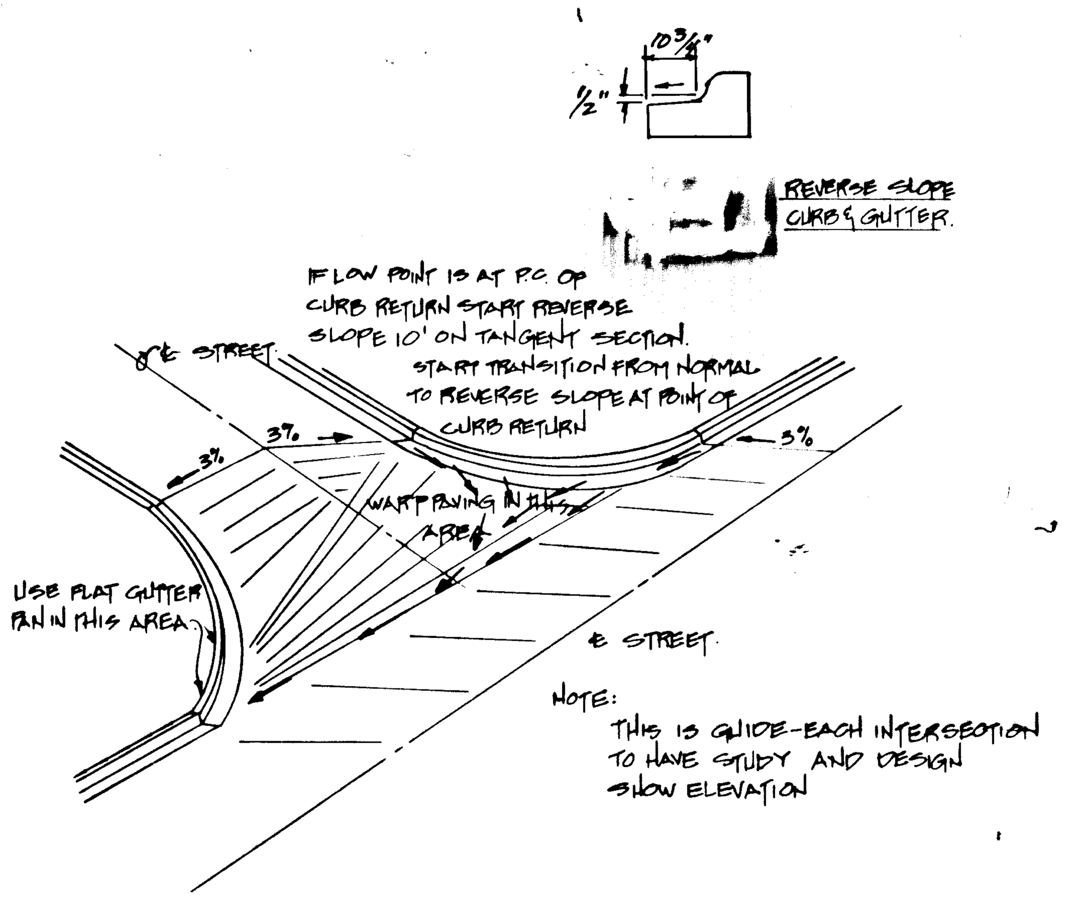
AS-BUILT STORM DRAIN PROFILES
MONTGOMERY MEADOWS
SECTION ONE AREA TWO
LOT 62 TO LOT 137
TAX MAP PARCEL BLOCKS
2ND ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SCALE 1" = 50' APRIL 28, 1988

SCALE: AS SHOWN | CONTRACT NO. | FILE NO. | SHEET 9 OF 13

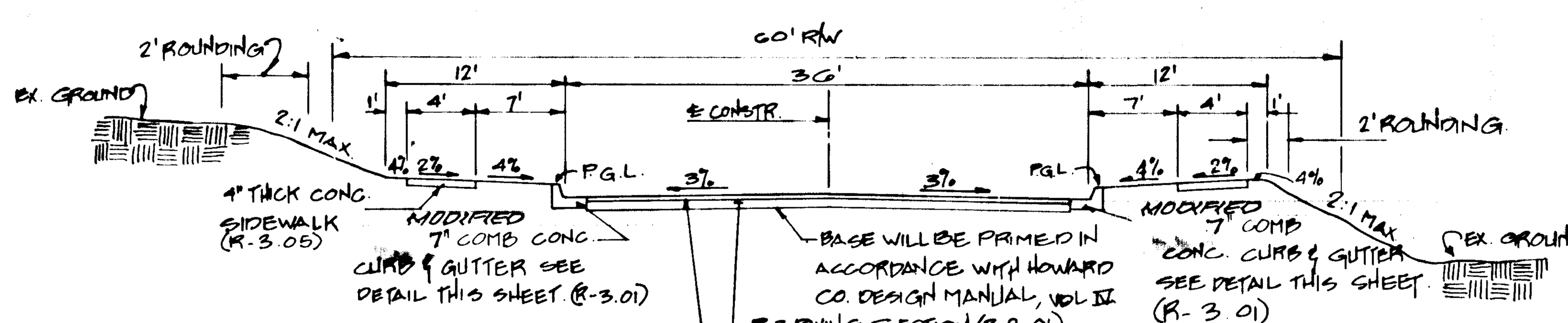
F-88-244

1443

TCA



TYPICAL INTERSECTION GRADING DETAIL
NOT TO SCALE



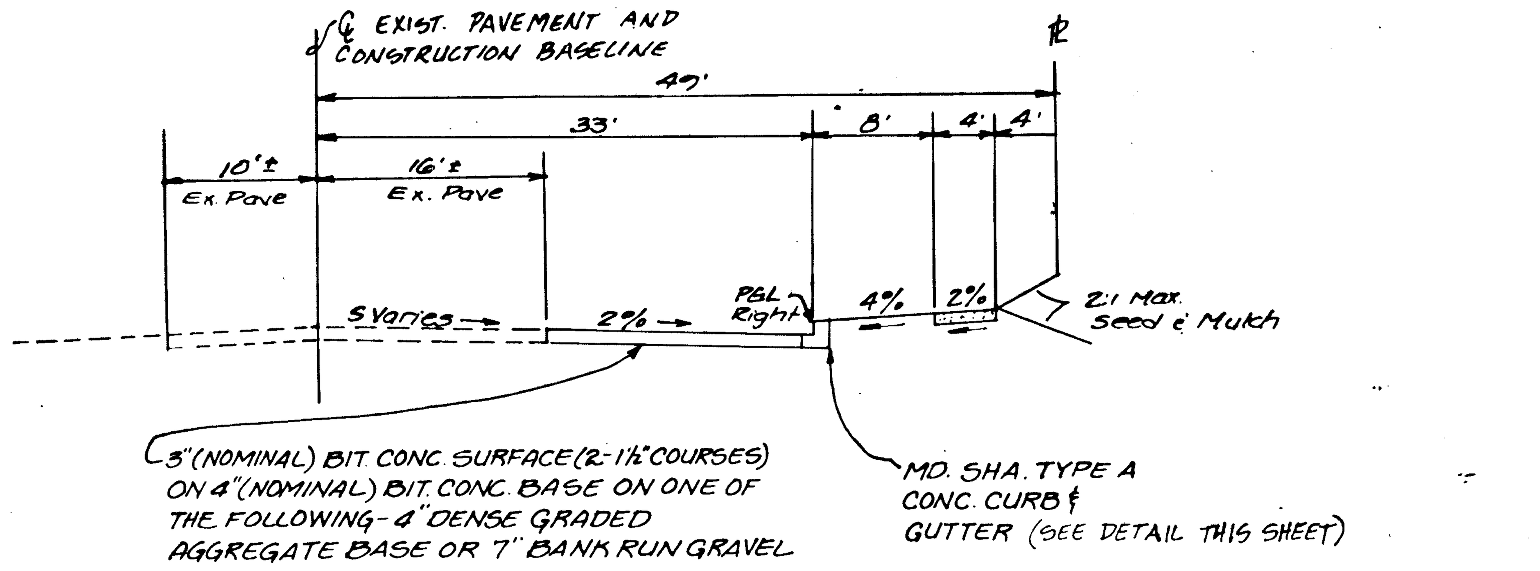
DESIGN SPEED 35 M.P.H. ZONED: R-20

MINOR COLLECTOR STREETS
TYPICAL SECTION
NOT TO SCALE

GLEN MAR DRIVE	STA. 39+63	TO	STA. 37+20 (LIMIT OF PAVING)
RISING SUN LANE	STA. 0+16	TO	STA. 15+46

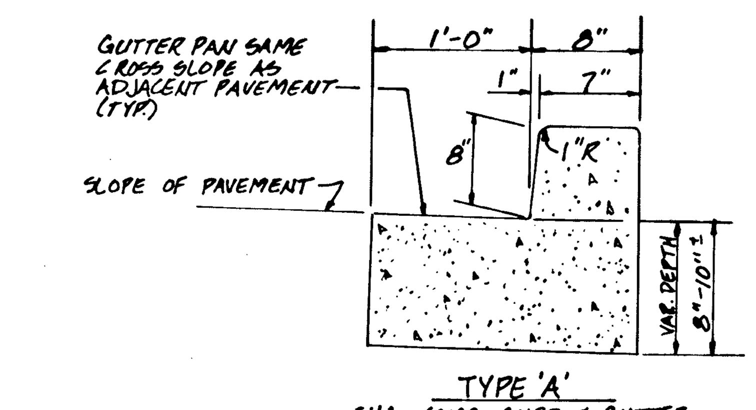
TYPICAL SECTION NOTES:

1. ALL MATERIALS & CONSTRUCTION SHALL BE IN ACCORDANCE WITH HOWARD COUNTY DESIGN MANUAL, VOLUME IV STANDARD SPECIFICATION AND DETAILS FOR CONSTRUCTION.
2. ALL DISTURBED AREAS TO BE STABILIZED WITH 2" TOP SOIL SEED AND MULCH



TYPICAL SECTION
NOT TO SCALE

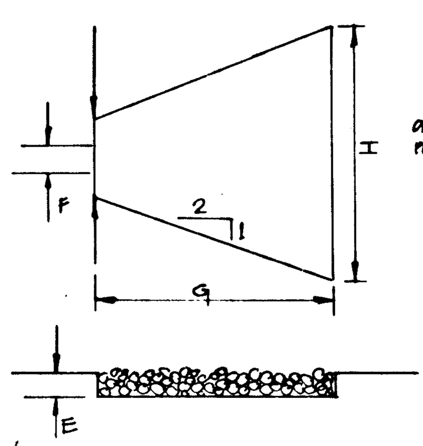
MARYLAND ROUTE 103 @ RISING SUN LANE
STA. 6+18 @ STA. 0+00



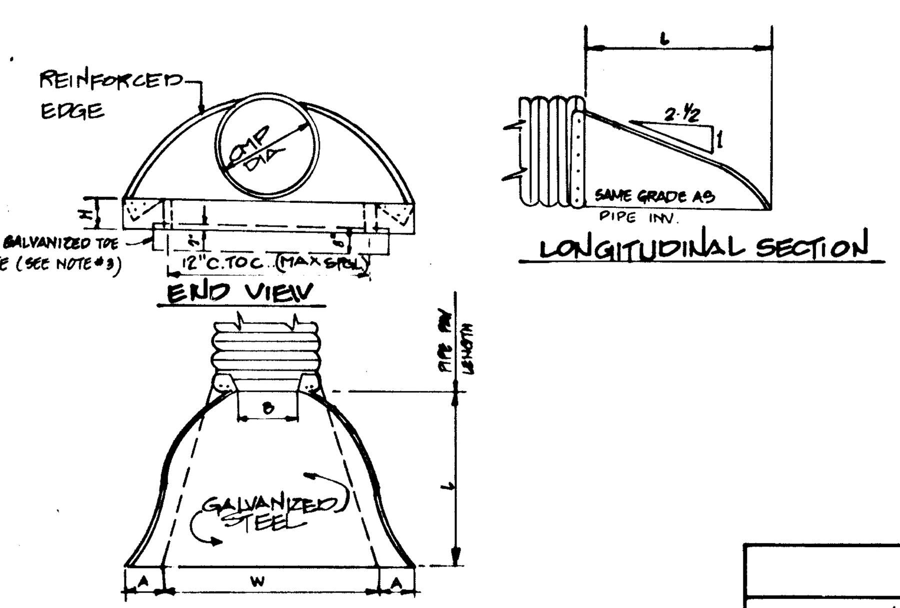
TYPE 'A'
SHA. COMB. CURB & GUTTER

METAL END SECTION DATA

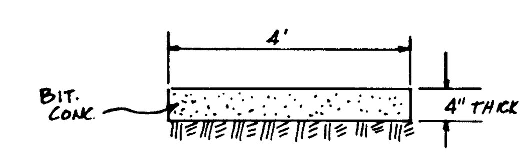
LOCATION	D	GA	A	B	H	L	W
AREA 2	42"	12	16"	22"	11"	69"	84"



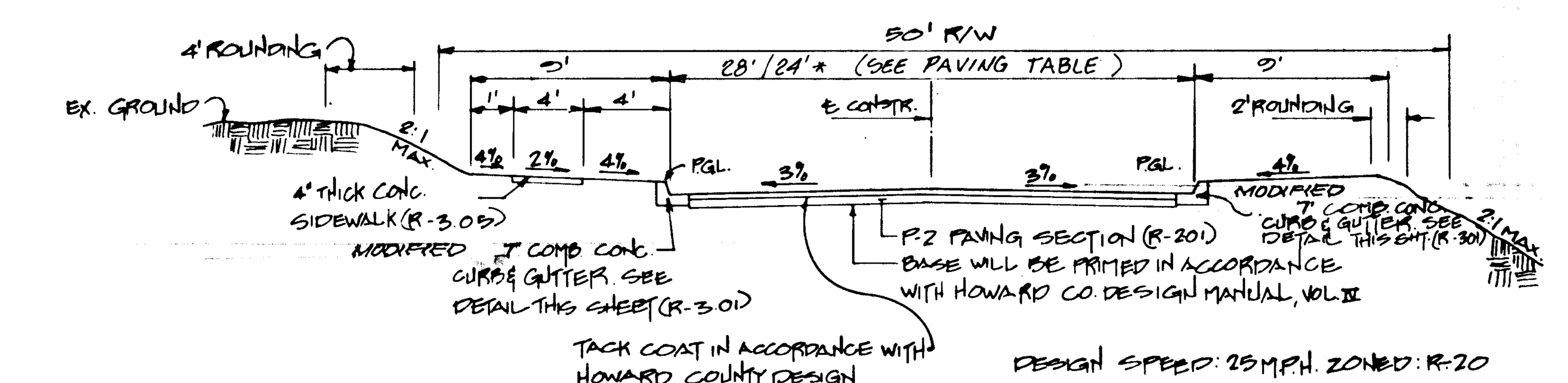
TYPICAL RIP-RAP OUTFALL PROTECTION E1,E2.
NOT TO SCALE



TYPICAL METAL END SECTION
NOT TO SCALE



PAVED WALK DETAIL
NOT TO SCALE



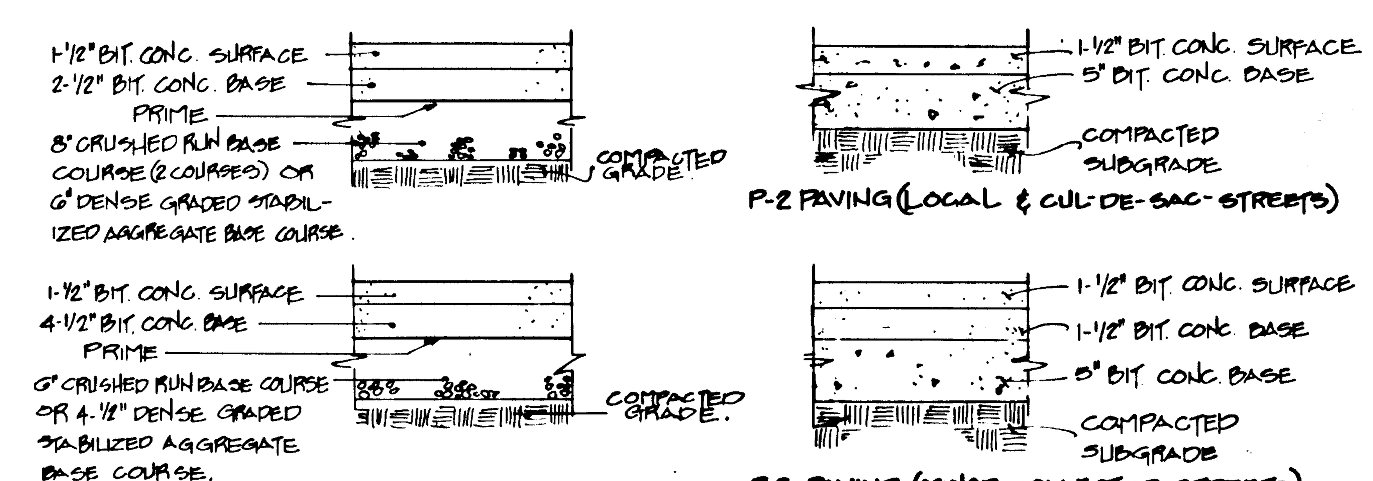
DESIGN SPEED: 25 M.P.H. ZONED: R-20

CUL-DE-SAC STREETS - TYPICAL SECTION
NOT TO SCALE

NEW PROSPECT COURT	STA. 0+18	TO	STA. 2+98
HILLMONT COURT	STA. 0+18	TO	STA. 3+18
SPURR TERRACE	STA. 0+18	TO	STA. 2+32
FOREST MEADOW COURT	STA. 0+18	TO	STA. 2+76
RISING SUN LANE	STA. 15+46	TO	STA. 18+59

STRUCTURE SCHEDULE

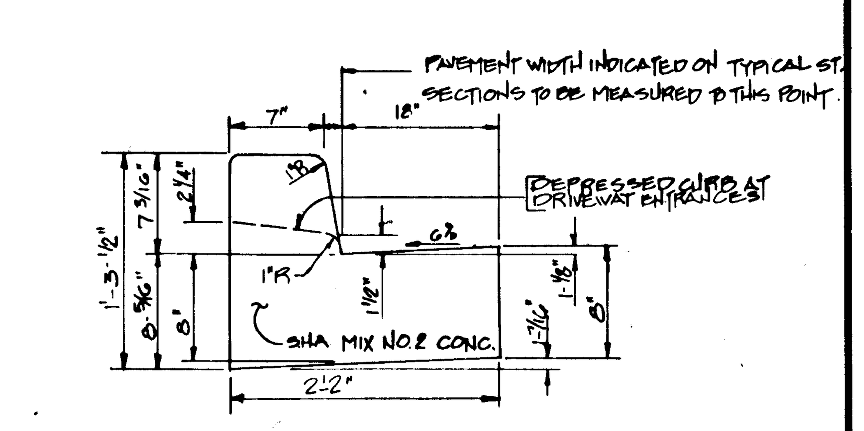
STRUCTURE No.	℄ LOCATION	TOP ELEV.	INV. IN	INV. OUT	STRUCTURE TYPE	REMARKS
I1	GLENMAR DR. 37+28 RT. 20	427.83	417.57	417.07	A-10	STD. 4.02
I2	GLENMAR DR. 37+22 LT. 18.5	427.63	418.63	418.13	A-10	STD. 4.02
I3	RISING SUN LN. 12+63.71 RT. 18	426.38	422.38	422.06	A-10	STD. 4.02
I4	RISING SUN LN. 12+63.71 LT. 18.5	423.38	421.63	420.63	A-10	STD. 4.02
I5	RISING SUN LN. 8+65.55 LT. 18	433.37	431.15	430.33	A-5 W/DEFL.	STD. 4.01, SD-4.83
I6	RISING SUN LN. 8+22.60 LT. 18	438.24	434.30	433.44	A-5 W/DEFL.	STD. 4.01, SD.-4.83
I7	RISING SUN LN. 6+54.60 LT. 18	448.48	444.38	443.80	A-5 W/DEFL	STD. 4.01, SD-4.83
I8	RISING SUN LN. 4+36.58 LT. 18	461.43	457.75	452.88	A-5 W/DEFL	STD. 4.01, SD.-4.83
I9	RISING SUN LN. 2+18.51 LT. 18	472.75	466.38	466.05	A-5 W/DEFL.	STD. 4.01, SD-4.83
I10	RISING SUN LN. 2+18.51 RT. 18	472.75	467.97	467.47	A-5 W/DEFL	STD. 4.01, SD-4.83
I11	NEW PROSPECT CT. 0+46.00 LT. 14	475.35	469.99	469.49	A-5 W/DEFL.	STD. 4.01, SD-4.83
I12	NEW PROSPECT CT. 0+46.00 RT. 14.5	475.64	471.30	470.80	A-5 W/DEFL.	STD. 4.01, SD-4.83
I13	MD RTE 103 5+66.50 RT. 24	482.75	479.25	478.75	COG, L=10	MD.-374.31
I14	MD. RTE. 103 2+66.50 RT. 24	498.00	—	495.00	COG, L=15	MD.-374.31
I15	LOT 38 100	428.08	—	424.50	D	STD. 4.11
I16	RISING SUN LN. 8+70.55 RT. 18	435.37	429.63	429.13	A-5 W/DEFL	STD. 4.01, SD.-4.83
I17	FOREST MEADOW CT. 0+46.00 RT. 12.5	433.85	430.54	429.99	A-5 W/DEFL.	STD. 4.01, SD-4.83
I18	FOREST MEADOW CT. 1+88.00 RT. 12.5	438.15	—	434.50	A-5 W/DEFL	STD. 4.01, SD.-4.83
I19	LOT 13 70	443.00	430.50	430.25	D	STD. 4.11
I20	SPURR TERR. CDS	446.64	—	443.14	A-5	STD 4.01
I21	RISING SUN LN. 4+35.52 RT. 18	461.45	454.34	453.84	A-5 W/DEFL.	STD. 4.01, SD.-4.83
I22	HILLMOUNT CT. 0+46.00 RT. 12	459.18	[illegible]	454.67	A-5	STD. 4.01
I23	HILLMOUNT CT. 1+56.00 RT. 12	460.23	456.16	456.12	A-5	STD. 4.01
I24	LOT 58 119/120	468.00	—	465.33	D	STD. 4.11
I25	HILLMOUNT CT. 0+46.00 LT. 14	459.13		455.38	A-5	STD. 4.01
I26	NEW PROSPECT CT. 0+46.00 RT. 14.5	479.95	476.16	476.16	A-5 W/DEFL	STD. 4.01, SD.-4.83
I27	NEW PROSPECT CT. 2+35.00 RT. 14.5	486.88	—	482.00	A-5 W/DEFL	STD. 4.01, SD-4.83
I28	RISING SUN LN. CDS	420.96	10.88	417.48	A-5 W/DEFL	STD. 4.01, SD-4.83
M1	LOT 34 31	412.35	408.14	407.64	MH	STD. G 5.05
M2	LOT 38-100	429.08	419.38	418.88	MH	STD G 5.03
M3	RISING SUN LN 9+82.00 LT. 21	430.14	425.62	425.12	MH	STD. G5.05
M4	LOT 9 70	446.00	442.50	442.25	MH	STD G 5.05
M5	LOT 58 119/120	463.20	450.75	450.25	MH	STD 5.05
E1	FLOOD PLAIN	—	—	407.90	END SECT.	STD. 5.61
E2	LOT 28 & 29 90&91	—	—	407.35	END SECT.	STD. 5.61
M1-A	FLOOD PLAIN	413.84	407.84	408.02	MH	STD. 5.05



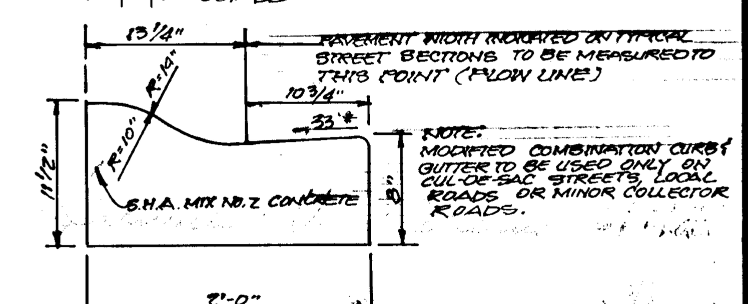
PAVING SECTIONS
NOT TO SCALE

* PAVING TABLE

STREET	R/W WIDTH	PVMT. WIDTH	REMARKS
RISING SUN LANE	60'	36'	STA 0+00 - STA. 14+72
RISING SUN LANE	60'	28'	STA. 15+80 - STA. 17+80.62
FOREST MEADOW CT.	50'	24'	
GLENMAR DRIVE	60	36'	STA. 39+80.07 - TEMP. TEE STA. 37+15
NEW PROSPECT CT.	50'	28	
HILLMONT CT.	50'	28	
SPURR TERRACE	50'	24'	
MD RTE 103	VARIES	VARIES	



STANDARD 7" COMBINATION CURB & GUTTER
NOT TO SCALE



MODIFIED COMBINATION CURB & GUTTER

GUTTER PAN AT THE MEDIAN EDGE OF INTERMEDIATE ARTERIALS OR THE HIGH SIDE OF SUPERELEVATED SECTIONS SHALL BE SLOPED AT THE SAME RATE AND IN THE SAME DIRECTION OF THE PAVEMENT. MATCH PAVEMENT CROSS SLOPE WHEN CURB IS LOCATED ON THE LOW SIDE OF SUPERELEVATED SECTION AND THE RATE OF SUPERELEVATION IS GREATER THAN 3% FOR MODIFIED CURB & GUTTER.

NOTE: GUTSCHICK LITTLE & WEBER IS RESPONSIBLE FOR AS BUILT INFORMATION ONLY

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

CHIEF, LAND DEVELOPMENT DIVISION	6/7/89 DATE
CHIEF, BUREAU OF HIGHWAY	6/7/89 DATE
CHIEF, BUREAU OF ENGINEERING	6/8/89 DATE

APPROVED HOWARD COUNTY OFFICE OF PLANNING AND ZONING

CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT	6/20/89 DATE

DESIGNED	date
DRAWN	date
CHECKED	date
APPROVED	date

REVISIONS

DATE	BY	DESCRIPTION
7-27-90	WEO	Revised Structure Schedule
11-8-90	RAW	REVISED STRUCTURE SCHEDULE & Curb & Gutter Detail.

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

STATE OF MARYLAND THOMAS L. WILEY No. 9273 REGISTERED PROFESSIONAL ENGINEER 3/21/89

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

~~ROAD SECTIONS~~, STRUCTURE SCHEDULE ~~& DETAILS~~
AS-BUILT
MONTGOMERY MEADOWS
SECTION ONE AREA TWO
LOTS 62 THRU LOT 137
2ND. ELECTION DISTRICT HOWARD COUNTY MD.

SCALE: NO SCALE | CONTRACT NO. | FILE NO. | SHEET 10 OF 13

F-88-244

1443

134350

FOR PROFILE SEE SHEET 12 OF 13

LOT 118 (OPEN SPACE TO BE DEDICATED BY HOWARD COUNTY)

AREA ADJACENT TO INLET SHALL BE GRADED TO PROVIDE POSITIVE FLOW TO INLET

NOTE: CONSTR. ENTRANCE SHALL BE PART OF SEDIMENT CONTROL SCHEDULE AS SHOWN ON EARTH DISTURBED AREA SHEET 13 OF 13

EX. GROUND / PROPOSED GRADE — INV. 483.5 — d = 0.19 — B-B 482

EX. GROUND / PROP. GRADE — INV. 451.3 — 0.15 — D-D 448

EX. GROUND / PROP. GRADE — d = 0.20 — INV. 468.8 — C-C 466

EX. GROUND / PROP. GRADE — INV. 444.8 — 0.32 — E-E 242

EX. GROUND / PROP GRADE — INV. 425.7 — d = 0.41 — F-F 424

SCALE
VERT.: 1"=5'
HORIZ.: 1"=10'

EX. GROUND / PROP. GRADE — INV. 497.3 — 0.12 — A-A 496

SCALE: VERT. 1"=5' HOR. 1"=10'

LIMIT OF DISTURBED AREA

PROPOSED SECTION 1 EARTH DISTURBED AREA

NEW PROSPECT COURT

HILLMONT CT.

FOREST MEADOW COURT

HUNTSMAN LANE

SPURR TERRACE

MARYLAND ROUTE 103 MONTGOMERY ROAD

MARYLAND STATE GRID SYSTEM

EXISTING PAVING

LOT 101 LOT 102 LOT 103 LOT 104 LOT 105 LOT 106 LOT 107 LOT 108 LOT 109 LOT 110 LOT 111 LOT 112 LOT 113 LOT 114 LOT 115 LOT 116 LOT 117 LOT 118 LOT 119 LOT 120 LOT 121 LOT 122 LOT 123 LOT 124 LOT 125 LOT 126 LOT 127 LOT 128 LOT 129 LOT 130 LOT 131 LOT 132 LOT 133 LOT 134 LOT 135

LOT 71 LOT 72 LOT 73 LOT 74 LOT 75 LOT 76 LOT 77 LOT 78 LOT 79 LOT 80 LOT 81 LOT G1 LOT G2 LOT G3 LOT G4 LOT G5 LOT G6 LOT G7

DRAINAGE & UTILITY EASEMENT

7.5' DRAINAGE & UTILITY EASEMENT

INLET PROTECTION

MATCH LINE SEE SHEET 12 OF 13

MATCH LINE SEE SHEET 13

AREA ADJACENT TO INLET SHALL BE GRADED TO PROVIDE POSITIVE FLOW TO INLET

BALTIMORE GAS & ELECTRIC

NOTE: GUTSCHICK, LITTLE & WEBER IS RESPONSIBLE FOR AS-BUILT INFORMATION ONLY

AS-BUILT
PLAN
SCALE: 1"=50'

NOTE: E SWALE BOTT. INFORMATION SHOWN ON THIS SHEET

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, MD. REG. NO. 9273 — DATE 3/21/89

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 THE BEGINNING OF PROJECT. I WILL PROVIDE THE HOWARD COUNTY 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 L. WALM, N.V. LAND, INC. — DATE 3/22/89

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.

U.S. SOIL CONSERVATION SERVICE — DATE 5/9/89

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

HOWARD SOIL CONSERVATION DISTRICT — DATE 5/9/89

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

CHIEF, LAND DEVELOPMENT DIVISION — DATE 6/7/89

CHIEF, BUREAU OF HIGHWAY — DATE 6/7/89

CHIEF, BUREAU OF ENGINEERING — DATE 6/8/89

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING

CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT — DATE 6/10/89

REVISIONS		
DATE	BY	DESCRIPTION
9-14-88	CHK/MS	R/D #16.103 WIDENING
6-1-88	JMC	ADDED MATCH LINE, TEMP. SWALES & SIDE SLOPE TO TRAP DATA

DESIGNED JMC, RAG IV 4-26-88 date
DRAWN MJH, K.K. 4-26-88 date
CHECKED ____ date
APPROVED ____ date

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

STATE OF MARYLAND — No. 9273 — REGISTERED PROFESSIONAL ENGINEER — 3/21/89

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

DRAINAGE AREA, GRADING & SEDIMENT CONTROL PLAN
MONTGOMERY MEADOWS
SECTION ONE AREA TWO
LOT 62 TO LOT 137
TAX MAP: 31 PARCEL: BLOCKS:
2ND ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SCALE: 1"=50' APRIL 28, 1988

SCALE AS SHOWN | CONTRACT NO | FILE NO | SHEET 11 OF 13

1443

F88-244

134350

MARYLAND STATE GRID SYSTEM

SWM Area 5

SW-5

420
415
410
405
400

SW-03

7	Topsoil	
16	Brown moist mf SAND, some silt, tr fine rock fragments (SM) (Sandy Loam)	
5.0 / 6.0	Multicolored moist mf SAND and SILT, tr fine rock fragments (SM) (Sandy Loam)	
10	Multicolored very moist mf SAND, some silt, tr rock fragments (Decomposed Rock) (SM) (Sandy Loam)	
8.5	Multicolored very moist micaceous SILT, some mf sand, tr rock fragments (Decomposed Rock) (ML) (Silt Loam)	
10.5		
18		

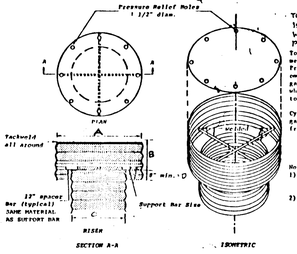
At completion of boring, water at 7.0', hole caved at 8.5'

* 24 hrs after completion, water at 4.5', hole caved at 7.7'

BORING PROFILE

NOT TO SCALE

TRASH RACK DATA					
LOCATION	A	B	C	D	E
AREA 2	70.1	2.92	60	8	12



- TOP REINFORCING BEAM (AREA 2) 16 1½" PIPE OR 1½" x 1½" x ¼" ANGLE WELDED TO TOP AND ORIENTED PERPENDICULAR TO CORRUGATIONS.
- Top to D, gage corrugated metal or ¼" steel plate. Pressure relief holes may be omitted, if ends of corrugations are left fully open when corrugated top is welded to cylinder.
- Cylinder to E gage corrugated metal pipe or fabricated from 3/8" steel plate.

Notes:
1) The cylinder must be firmly fastened to the top of the riser.
2) Support bars are welded to the top of the riser or attached by straps bolted to top of riser.

CONCENTRIC TRASH RACK AND ANTI-VORTEX DEVICE

NOT TO SCALE

DESIGN DATA TRAP #1

1. DRAINAGE AREA TO TRAP: 7.34 Ac
2. TYPE OF TRAP: RIP RAP OUTLET SEDIMENT
3. VOLUME REQUIRED: 490 CY
4. VOLUME PROVIDED: 549 CY
5. TRAP SIZE (BTM. DIMENSION) 90'X 50'
6. TRAP DEPTH: 3.0'
7. BOTTOM ELEVATION: 395.00
8. CREST ELEVATION: 399.00
9. CLEANOUT ELEVATION: 396.50
10. OUTLET WIDTH: 10.00'
11. SIDE SLOPE: 2:1
12. DEPTH OF CHANNEL: 2.0'
13. TOP OF EMBANKMENT: 403.00
14. TOP OF STONE LINING: 402.00

PROPOSED MONTGOMERY MEADOWS SECTION 1 AREA 3

NOTE: STOCKPILE FOR TEMP. SWM BASIN. SEE SHEET 6 OF 13 OF MONTGOMERY MEADOWS SECTION 1 AREA 2, F-88-244.

TEMP SWM BASIN #1

TEMP S.D. OUT FALL INV. 411.00 SEE PROFILE SHT 7 of 13

20' DRAINAGE & UTILITY EASEMENT

20' DRAINAGE & UTILITY EASEMENT

LOT 98

LOT 97

LOT 96

LOT 95

LOT 94

LOT 93

LOT 92

LOT 91

LOT 90

LOT 89

LOT 88

LOT 87

LOT 86

LOT 85

LOT 84

LOT 83

LOT 82

LOT 81

LOT 80

LIMIT OF DISTURBED AREA

GLENMAR DRIVE

RISING SUN LANE

MATCH LINE SEE SHEET 11 OF 13

100 YEAR FLOODPLAIN

FUTURE TRAIL (BY OTHERS)

RIP-RAP SEE DETAIL SHEET 13

PROVIDE TEMP. PLUG FOR 15" CMP @ INLET

20' SEWER AND UTILITY EASEMENT

LOT 89 LOCAL OPEN SPACE (H.O.A.)

TRAP #1

WETLANDS

BALTIMORE GAS & ELECTRIC

EARTH DIKE (A)

SECT. A-A
500.5-412.2)÷138
=0.058T%

SECT. B-B
(497.4-425.7)÷242
=0.048T%

SECT. C-C
(485.6-470.8)÷197
=0.075%

SECT. D-D
(470-452)÷260
=0.0692%

SECT. E-E
(452-444.8)÷250
=0.0288%

SECT. F-F
(444.8-426.5)÷392
=0.0492%

SWALE PROFILE

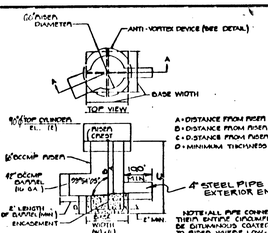
SCALE
VERT.: 1"=10'
HOR.: 1"=100'

NOTE: GUTSCHICK LITTLE & WEBER IS RESPONSIBLE FOR AS BUILT INFORMATION ONLY

AS-BUILT

NOTE: —— AS-BUILT SWALE PROFILE SHOWN ON THIS SHEET

RISER DATA								
LOCATION	RISER CREST	A	B	C	D	W x L	E	
AREA 2	416.00	8.95	0.00	0.78	18"	7'9" x 7'9"	418.69	



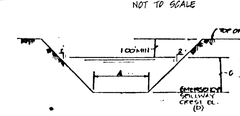
A = DISTANCE FROM RISER CREST TO LOW FLOW PIPE INVERT
B = DISTANCE FROM RISER CREST TO BARREL INVERT
C = DISTANCE FROM RISER CREST TO BOTTOM OF CONCRETE BASE
D = MINIMUM THICKNESS OF CONCRETE BASE

SECTION 'A-A'

NOTE: ALL PIPE CONNECTIONS SHALL BE SECURELY WELDED ABOUT THEIR ENTIRE CIRCUMFERENCE TO RISER. BASE METAL SHALL THEN BE BITUMINOUS COATED. MINIMUM 1' OF BARREL IS TO BE WELDED TO RISER. WHERE LOW-FLOW PIPE OVER 6' W.L LENGTH IS USED, 1' MIN. IS TO BE WELDED TO RISER.

TYPICAL CMP RISER FABRICATION DETAIL

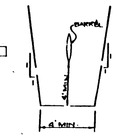
NOT TO SCALE



EMERGENCY SPILLWAY DATA					
LOCATION	A	B	C	TOP EMB.	CREST
AREA 2	12'	16'	2'	403.00	401.00

EMERGENCY SPILLWAY

NOT TO SCALE



CORE TRENCH

NOT TO SCALE

N505400

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, MD REG NO. 9273 — DATE 3/21/89

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 THE BEGINNING OF PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT.

KENNETH G. WALM, NV LAND, INC. — DATE 3/22/89

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.

FOR CONSERVATION DISTRICT — DATE 5/9/89

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

HOWARD SOIL CONSERVATION DISTRICT — DATE 5/9/89

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

CHIEF, LAND DEVELOPMENT DIVISION — DATE 6/7/89

CHIEF, BUREAU OF HIGHWAY — DATE 6/7/89

CHIEF, BUREAU OF ENGINEERING — DATE 6/8/89

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING

CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT — DATE 6/20/89

DESIGNED	J.M.C., RAG IV	4-26-88 date
DRAWN	MJH, K.K	4-26-88 date
CHECKED		date
APPROVED		date

REVISIONS			
DATE	BY	DESCRIPTION	
1-25-90	WAJ	AS PER MD. STATE DEPARTMENT OF ENVIRONMENT MI 1A WAS PROVIDED @ 5:1	1
1-25-90	WAJ	REDUCED LENGTH OF PIPE TO 98' FROM STRUCTURE E-28 TO S-C AS PER HOWARD COUNTY COMMENTS	2
3-27-90	WED	Revised Grading around E1	

Dewberry & Davis

ENGINEERS — ARCHITECTS — PLANNERS — SURVEYORS

3300 N. RIDGE ROAD, SUITE 100
ELLICOTT CITY, MD. 21043
(301) 461-7478

STATE OF MARYLAND — THOMAS L. WILEY — No. 9273 — REGISTERED PROFESSIONAL ENGINEER — 3/21/89

OWNER / DEVELOPER

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

DRAINAGE AREA, GRADING & SEDIMENT CONTROL PLAN

MONTGOMERY MEADOWS

SECTION ONE AREA TWO
LOT 62 TO LOT 137

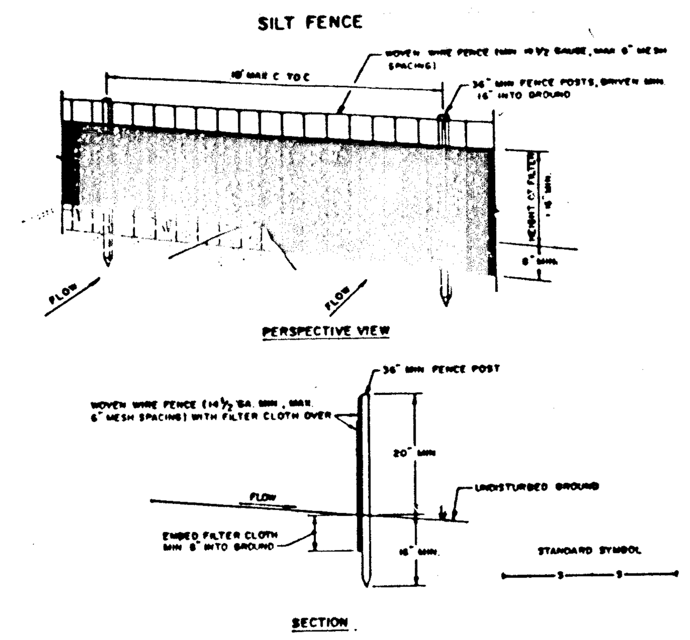
TAX MAP — PARCEL — BLOCKS:
2ND ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SCALE: 1" = 50' APRIL 28, 1988

SCALE AS SHOWN | CONTRACT NO. | FILE NO. | SHEET 12 OF 13

1443

F-88-244

SILT FENCE



CONSTRUCTION NOTES FOR FABRICATED SILT FENCE

1. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES.
2. FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION.
3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVER-LAPPED BY SIX INCHES AND FOLDED.
4. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.

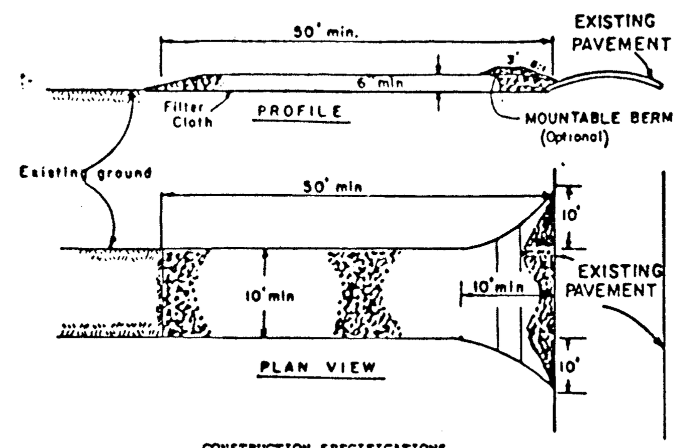
POSTS: STEEL EITHER T OR U TYPE OR 2" HARDWOOD

FENCE: WOVEN WIRE, 14 GA. 6" MAX. MESH OPENING

FILTER CLOTH: FILTER X, MIRAFI 100X, STABILINKA T140N OR APPROVED EQUAL

PREFABRICATED UNIT: GEOFAB, ENVIROFENCE, OR APPROVED EQUAL.

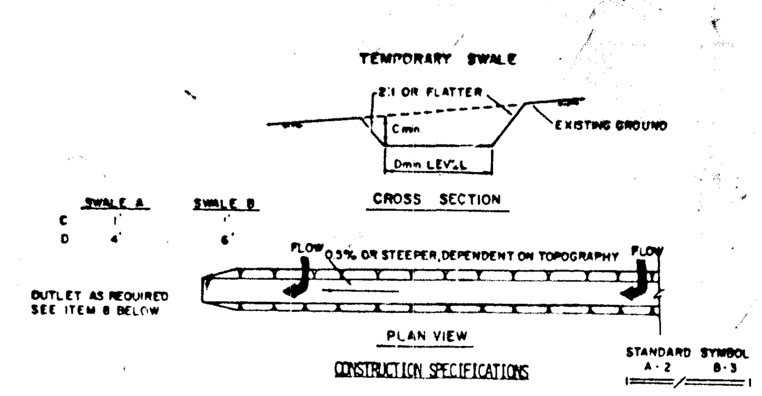
SILT FENCE
NOT TO SCALE



CONSTRUCTION SPECIFICATIONS

1. Stone Size - Use 2" stone, or reclaimed or recycled concrete equivalent.
2. Length - As required, but not less than 50 feet (except on a single residence lot where a 30 foot minimum length would apply).
3. Thickness - Not less than six (6) inches.
4. Width - Ten (10) foot minimum, but not less than the full width at points where ingress or egress occurs.
5. Filter Cloth - Will be placed over the entire area prior to placing of stone. Filter will not be required on a single family residence lot.
6. Surface Water - All surface water flowing or diverted toward construction entrances shall be piped across the entrance. If piping is impractical, a mountable berm with 5:1 slopes will be permitted.
7. Maintenance - The entrance shall be maintained in a condition which will prevent tracking or flowing of sediment onto public rights-of-way. This may require periodic top dressing with additional stone as conditions demand and repair and/or cleanout of any measures used to trap sediment. All sediment spilled, dropped, washed or tracked onto public rights-of-way must be removed immediately.
8. Washing - Wheels shall be cleaned to remove sediment prior to entrance onto public rights-of-way. When washing is required, it shall be done on an area stabilized with stone and which drains into an approved sediment trapping device.
9. Periodic inspection and needed maintenance shall be provided after each rain.

STABILIZED CONSTRUCTION ENTRANCE
NOT TO SCALE



CONSTRUCTION SPECIFICATIONS

1. ALL TEMPORARY SWALES SHALL HAVE UNINTERRUPTED POSITIVE GRADE TO AN OUTLET.
2. DIVERTED RUNOFF FROM A DISTURBED AREA SHALL BE CONVEYED TO A SEDIMENT TRAPPING DEVICE.
3. DIVERTED RUNOFF FROM AN UNDISTURBED AREA SHALL OUTLET DIRECTLY INTO AN UNDISTURBED STABILIZED AREA AT NON-EROSIVE VELOCITY.
4. ALL TREES, BRUSH, STUMPS, OBSTRUCTIONS, AND OTHER OBJECTIONABLE MATERIAL SHALL BE REMOVED AND DISPOSED OF SO AS NOT TO INTERFERE WITH THE PROPER FUNCTIONING OF THE SWALE.
5. THE SWALE SHALL BE EXCAVATED OR SHAPED TO LINE, GRADE, AND CROSS SECTION AS REQUIRED TO MEET THE CRITERIA SPECIFIED HEREIN AND BE FREE OF BANK PROJECTIONS OR OTHER IRREGULARITIES WHICH WILL IMPEDE NORMAL FLOW.
6. FILLS SHALL BE COMPACTED BY EARTH MOVING EQUIPMENT.
7. ALL EARTH REMOVED AND NOT NEEDED ON CONSTRUCTION SHALL BE PLACED SO THAT IT WILL NOT INTERFERE WITH THE FUNCTIONING OF THE SWALE.
8. STABILIZATION SHALL BE AS PER THE CHART BELOW:

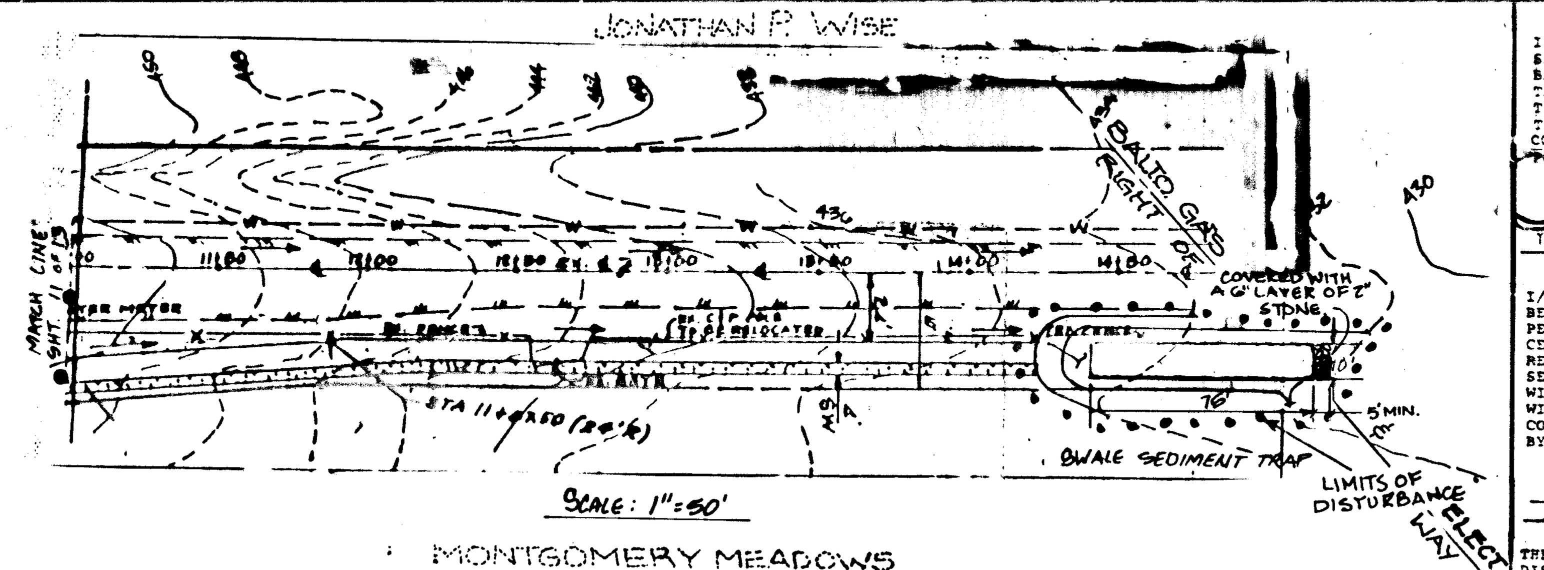
FLOW CHANNEL STABILIZATION

TYPE OF TREATMENT	CHANNEL GRADE	A (5 AC OR LESS)	B (5 AC - 10 AC)
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 EXCELSIOR
3	5.1-8.0%	SEED WITH JUTE OR EXCELSIOR; SOD	LINED RIP-RAP 4-8" RECYCLED CONCRETE EQUIVALENT
4	8.1-20%	LINED 4-8" RIP-RAP	ENGINEERED DESIGN

9. PERIODIC INSPECTION AND REQUIRED MAINTENANCE MUST BE PROVIDED AFTER EACH RAIN EVENT.

TEMPORARY SWALE
NOT TO SCALE

JONATHAN P. WISE

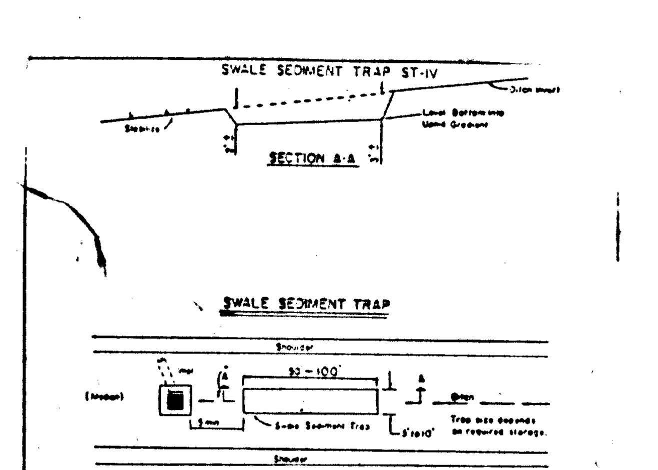


SCALE: 1"=50'

MONTGOMERY MEADOWS
SECTION 1, AREA 1

SWALE SEDIMENT TRAP

DRAINAGE AREA	=	0.81 Ac±
VOLUME REQUIRED	=	55 CY
VOLUME PROVIDED	=	56 CY
TRAP SIZE	=	75' x 10'
TRAP DEPTH	=	2.0'
BOTTOM ELEV.	=	430.00
CREST ELEV.	=	432.50
CLEANOUT ELEV.	=	431.50

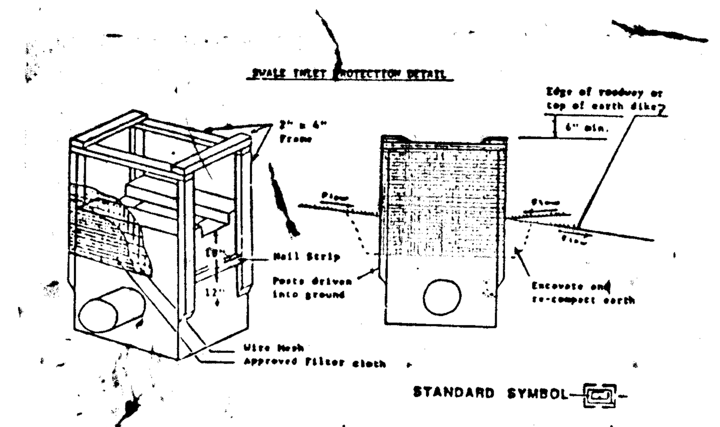


CONSTRUCTION SPECIFICATION FOR ST-IV

1. The swale sediment trap shall be constructed in accordance with the dimensions provided on the design drawings or sized to provide the minimum storage necessary 1800 cubic feet of storage for each acre of drainage area.
2. Sediment shall be removed and trap restored to its original dimensions when the sediment has accumulated to ½ the design depth of the trap. Removed sediment shall be deposited in a suitable area and in such a manner that it will not erode.
3. The structure shall be inspected after each rain and repairs made as needed.
4. Construction operations shall be carried out in such a manner that erosion and water pollution shall be minimized.
5. The sediment trap shall be removed and area stabilized when the contributory drainage area has been properly stabilized.
6. The swale sediment trap will be properly backfilled and the swale or ditch reconstructed.

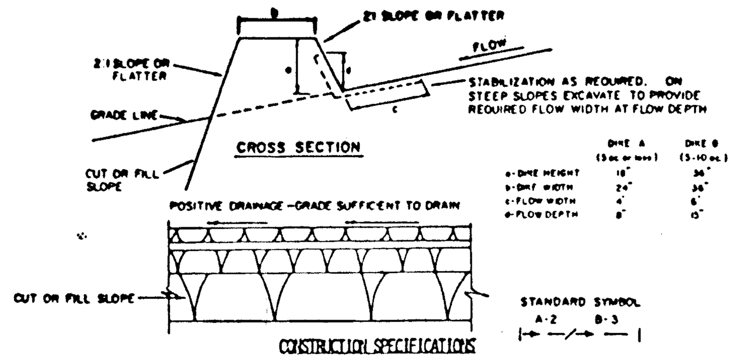
Drainage Area: 0.81 Ac±

SWALE SEDIMENT TRAP
NOT TO SCALE



SWALE INLET PROTECTION
NOT TO SCALE

EARTH DIKE
not to scale



	DIKE A (5 ac or less)	DIKE B (5-10 ac)
a-DIKE HEIGHT	18"	36"
b-DIKE WIDTH	24"	36"
c-FLOW WIDTH	4'	6'
d-FLOW DEPTH	8"	15"

CONSTRUCTION SPECIFICATIONS

1. ALL DIKES SHALL BE COMPACTED BY EARTH-MOVING EQUIPMENT.
2. ALL DIKES SHALL HAVE POSITIVE DRAINAGE TO AN OUTLET.
3. TOP WIDTH MAY BE WIDER AND SIDE SLOPES MAY BE FLATTER IF DESIRED TO FACILITATE CROSSING BY CONSTRUCTION TRAFFIC.
4. FIELD LOCATION SHOULD BE ADJUSTED AS NEEDED TO UTILIZE A STABILIZED SAFE OUTLET.
5. EARTH DIKES SHALL HAVE AN OUTLET THAT FUNCTIONS WITH A MINIMUM OF EROSION. RUNOFF SHALL BE CONVEYED TO A SEDIMENT TRAPPING DEVICE SUCH AS A SEDIMENT TRAP OR SEDIMENT BASIN WHERE EITHER THE DIKE CHANNEL OR THE DRAINAGE AREA ABOVE THE DIKE ARE NOT ADEQUATELY STABILIZED.
6. STABILIZATION SHALL BE: (A) IN ACCORDANCE WITH STANDARD SPECIFICATIONS FOR SEED AND STRAW MULCH OR STRAW MULCH IF NOT IN SEEDING SEASON, (B) FLOW CHANNEL AS PER THE CHART BELOW.

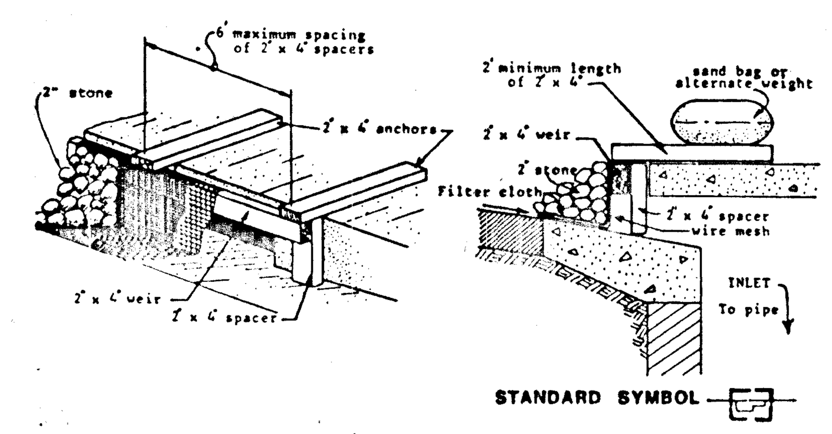
FLOW CHANNEL STABILIZATION

TYPE OF TREATMENT	CHANNEL GRADE	DIKE A	DIKE B
1	.5-3.0%	SEED AND STRAW MULCH	SEED AND STRAW MULCH
2	3.1-5.0%	SEED AND STRAW MULCH	SEED USING JUTE, OR EXCELSIOR; SOD; 2" STONE
3	5.1-8.0%	SEED WITH JUTE, OR SOD; 2" STONE	LINED RIP-RAP 4-8"
4	8.1-20%	LINED RIP-RAP 4-8"	ENGINEERING DESIGN

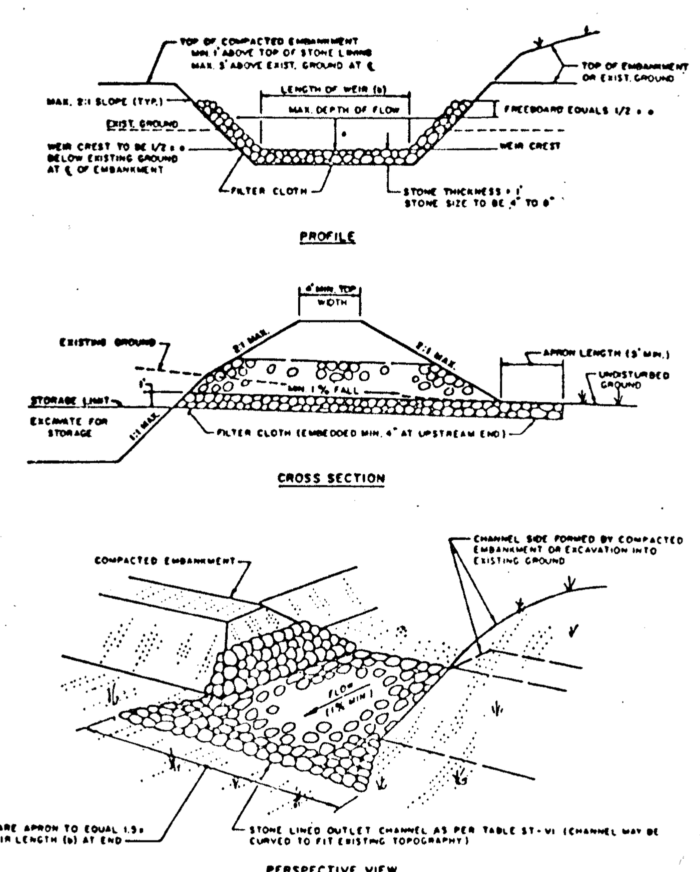
A. STONE TO BE 2 INCH STONE, OR RECYCLED CONCRETE EQUIVALENT, IN A LAYER AT LEAST 3 INCHES IN THICKNESS AND BE PRESSED INTO THE SOIL WITH CONSTRUCTION EQUIPMENT.
B. RIP-RAP TO BE 4-8 INCHES IN A LAYER AT LEAST 8 INCHES THICKNESS AND PRESSED INTO THE SOIL.
C. APPROVED EQUIVALENTS CAN BE SUBSTITUTED FOR ANY OF THE ABOVE MATERIALS.
7. PERIODIC INSPECTION AND REQUIRED MAINTENANCE MUST BE PROVIDED AFTER EACH RAIN EVENT.

EARTH DIKE
NOT TO SCALE

CURB INLET PROTECTION DETAIL



CURB INLET PROTECTION
NOT TO SCALE



CONSTRUCTION SPECIFICATIONS FOR ST-VI

1. The area under embankment shall be cleared, grubbed and stripped of any vegetation and root mat. The pool area shall be cleared.
2. The fill material for the embankment shall be free of roots or other woody vegetation as well as over-sized stones, rocks, organic material or other objectionable material. The embankment shall be compacted by traversing with equipment while it is being constructed. Maximum height of embankment shall be five (5) feet, measured at centerline of embankment.
3. All fill slopes shall be 2:1 or flatter; cut slopes 1:1 or flatter.
4. Elevation of the top of any dike directing water into trap must equal or exceed the height of embankment.
5. Storage area provided shall be figured by computing the volume available behind the outlet channel up to an elevation of one (1) foot below the level weir crest.
6. Filter cloth shall be placed over the bottom and sides of the outlet channel prior to placement of stone. Sections of fabric must overlap at least one (1) foot with section nearest the entrance placed on top. Fabric shall be embedded at least six (6) inches into existing ground at entrance of outlet channel.
7. Stone used in the outlet channel shall be four (4) to eight (8) inches (riprap). To provide a filtering effect, a layer of filter cloth shall be embedded one (1) foot back into the upstream face of the outlet stone or a one (1) foot thick layer of two (2) inch or finer aggregate shall be placed on the upstream face of the outlet.
8. Sediment shall be removed and trap restored to its original dimensions when the sediment has accumulated to 1/2 the design depth of the trap. Removed sediment shall be deposited in a suitable area and in such a manner that it will not erode.
9. The structure shall be inspected after each rain and repaired as needed.
10. Construction operations shall be carried out in such a manner that erosion and water pollution are minimized.
11. The structure shall be removed and the area stabilized when the drainage area has been properly stabilized.
12. Drainage area for this practice is limited to 15 acres or less.

RIP-RAP OUTLET SEDIMENT TRAP
NOT TO SCALE

SEDIMENT CONTROL NOTES:

1. A MINIMUM OF 24 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY OFFICE OF INSPECTION AND PERMITS PRIOR TO THE START OF ANY CONSTRUCTION. (992-2437)
2. ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
3. FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, 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 DISTRUBED OR GRADED AREAS ON THE PROJECT SITE.
4. ALL SEDIMENT TRAPS/BASINS SHOWN MUST BE FENCED AND WARNING SIGNS POSTED AROUND THEIR PERIMETER IN ACCORDANCE WITH VOL. 1, CHAPTER 12, OF THE HOWARD COUNTY DESIGN MANUAL, STORM DRAINAGE.
5. ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE IN ACCORDANCE WITH THE 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR PERMANENT SEEDINGS (SEC. 51) AND (SEC. 54), TEMPORARY SEEDING (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.
6. ALL SEDIMENT CONTROL STRUCTURES ARE TO REMAIN IN PLACE AND ARE TO BE MAINTAINED IN OPERATIVE CONDITION UNTIL PERMISSION FOR THEIR REMOVAL HAS BEEN OBTAINED FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
7. SITE ANALYSIS:
   - TOTAL AREA OF SITE 37.2 ACRES
   - AREA DISTURBED 9.8 ACRES
   - AREA TO BE ROOFED OR PAVED 3.2 ACRES
   - AREA TO BE VEGETATIVELY STABILIZED 6.6 ACRES
   - TOTAL CUT ____ CU.YDS.
   - TOTAL FILL ____ CU.YDS.
   - OFFSITE WASTE/BORROW AREA LOCATION ____
8. ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE.

PERMANENT SEEDING NOTES:

APPLY TO GRADED OR CLEARED AREA NOT SUBJECT TO IMMEDIATE FURTHER DISTURBANCE WHERE A PERMANENT LONG-LIVED VEGETATIVE COVER IS NEEDED.

SEEDBED PREPARATION: LOOSEN UPPER THREE-INCHES OF SOIL BY RAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING, IF NOT PREVIOUSLY LOOSENED.

SOIL AMENDMENTS: IN LIEU OF SOIL TEST RECOMMENDATIONS, USE ONE OF THE FOLLOWING SCHEDULE.

1) PREFERRED - APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 LBS/1000 SQUARE FT) AND 600 LBS PER ACRE 10-10-10 FERTILIZER (14 LBS/1000 SQ.FT.) BEFORE SEEDING. HARROW OR DISC INTO UPPER THREE-INCHES OF SOIL. AT TIME OF SEEDING, APPLY 400 LBS. PER ACRE 30-0-0 UREAFORM FERTILIZER (9 LBS/1000 SQ.FT.).
2) ACCEPTABLE - APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 LBS/1000 SQ.FT.) AND 1000 LBS PER ACRE 10-10-10 FERTILIZER (23 LBS/1000 SQ.FT.) BEFORE SEEDING. HARROW OR DISC INTO UPPER THREE-INCHES OF SOIL.

SEEDING: FOR THE PERIODS MARCH 1 THRU APRIL 30, AND AUGUST 1 THRU OCTOBER 15, SEED WITH 60 LBS PER ACRE (1.4 LBS/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 (.05 LBS/1000 SQ.FT.) OF WEEPING LOVEGRASS. DURING THE PERIOD OF OCTOBER 16 THRU FEBRUARY 28, PROTECT SITE BY: OPTION (1) 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING. OPTION (2) USE SOD. OPTION (3) SEED WITH 60 LBS/ACRE KENTUCKY 31 TALL FESCUE AND MULCH WITH 2 TONS/ACRE WELL ANCHORED STRAW.

MULCHING: APPLY 1½ TO 2 TONS PER ACRE (70 TO 90 LBS/1000 SQ.FT.) OF UNROTTED SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 218 GALLONS PER ACRE (5 GAL/1000 SQ.FT.) OF EMULSIFIED ASPHALT ON FLAT AREAS. ON SLOPES 8 FEET OR HIGHER, USE 348 GALLONS PER ACRE (8 GAL/1000 SQ.FT.) FOR ANCHORING.

MAINTENANCE: INSPECT ALL SEEDED AREAS AND MAKE NEEDED REPAIRS, REPLACEMENTS AND RESEEDINGS.

TEMPORARY SEEDING NOTES:

APPLY TO GRADED OR CLEARED AREAS LIKELY TO BE REDISTURBED WHERE A SHORT-TERM VEGETATIVE COVER IS NEEDED.

SEEDBED PREPARATION: LOOSEN UPPER THREE-INCHES OF SOIL BY RAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING, IF NOT PREVIOUSLY LOOSENED.

SOIL AMENDMENTS: APPLY 600 LBS PER ACRE 10-10-10 FERTILIZER (14 LBS/1000 SQ.FT.)

SEEDING: FOR PERIODS MARCH 1 THRU APRIL 30 AND FROM AUGUST 15 THRU NOVEMBER 15, SEED WITH 2½ BUSHEL PER ACRE OF ANNUAL RYE (3.2 LBS/1000 SQ.FT.). FOR THE PERIOD MAY 1 THRU AUGUST 14, SEED WITH 3 LBS PER ACRE OF WEEPING LOVEGRASS (.07 LBS/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 1½ TO 2 TONS PER ACRE (70 TO 90 LBS/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/1000 SQ.FT.) OF EMULSIFIED ASPHALT ON FLAT AREAS. ON SLOPES, 8 FT. OR HIGHER, USE 348 GAL PER ACRE (8 GAL/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.

I. SITE PREPARATION - STORMWATER MANAGEMENT CONSTRUCTION SPECIFICATIONS

Areas under the embankment and structural works shall be cleared, grubbed and the topsoil stripped to remove all trees, vegetation, roots or other objectionable material. To facilitate clean out and restoration, it is recommended that the permanent pool area be cleared of all brush and trees.

II. EARTH FILL

Material

The fill material shall be taken from approved designated borrow area or areas. It shall be free from roots, stumps, wood, rubbish, over-size stones, frozen or other objectionable materials. The embankment shall be constructed to an elevation which provides for anticipated settlement to the design elevation. The fill height all along the length of the embankment shall be increased at least 10 percent above the design elevation (including freeboard) unless otherwise shown on the plans. All fill material shall be CL or ML, as approved by Soils Engineer.

Placement

Areas on which fill is to be placed shall be scarified prior to placement of fill. Fill materials shall be placed in 8-inch maximum thickness (before compaction) layers which are to be continuous over the entire length of the fill. The most porous borrow material shall be placed in the downstream portions of the embankment.

Compaction

The movement of the hauling and spreading equipment over the fill shall be controlled so that the entire surface of each lift shall be traversed by not less than one tread track of the equipment, or compaction shall be achieved by a minimum of four complete passes of a sheepsfoot, rubber tired or vibratory roller. Fill material shall contain sufficient moisture so that it can be formed into a ball without crumbling. If water can be squeezed out of the ball, it is too wet to compact properly. Compact all fill material to 95% of AASHTO T-99 density.

Core Trench

Where specified, a core trench shall be excavated along or parallel to the centerline of the embankment, as shown on the plans. The bottom width of the trench shall be governed by the equipment used for excavation, with the minimum width being 4-feet. The depth shall be at least 4-feet or as shown on the plans. The side slopes of the trench shall be 1:1 or flatter. The backfill material for the core trench shall be the most impervious material available and shall be compacted with equipment or rollers to assure maximum density and minimum permeability. Compact to 95% of AASHTO T-99 density. Materials shall be CL or ML as approved by Soils Engineer.

III. STRUCTURAL BACKFILL

Backfill material shall be of the type and quality conforming to that specified for the adjoining fill material. The fill shall be placed in horizontal layers not to exceed 4-inches in thickness and compacted by hand tampers or other compaction equipment. The material needs to fill completely all spaces under and adjacent to the pipe. At no time during the backfilling operation shall driven equipment be allowed to operate closer than 4-feet to any part of a structure. Under no circumstances shall the contractor drive equipment over any part of a structure or pipe unless there is a compacted fill of 2-feet or greater over the structure or pipe.

IV. PIPE CONDUITS

A. CORRUGATED METAL PIPE

1. Materials - Metal Pipe - This pipe and its appurtenances shall conform to the requirements of AASHTO Specification M-196 or M-211, with watertight coupling bands.
2. Connections - All connections with pipes must be completely watertight. The drain pipe or barrel connection to the control structure shall be mortared all around. Watertight coupling bands shall be used at all joints. Anti-seep collars shall be connected to the pipe in such a manner as to be completely watertight.
3. Bedding - The pipe shall be firmly and uniformly bedded throughout its entire length. Where rock or soft, spongy or other unstable soil is encountered, all such material shall be removed and replaced with suitable earth compacted to provide adequate support.
4. Laying pipe - The pipe shall be placed with inside circumferential laps pointing downstream and with the longitudinal laps at the sides.
5. Backfilling shall conform to structural backfill as shown above.
6. Other details (anti-seep collars, valves, etc.) shall be as shown on the drawings.

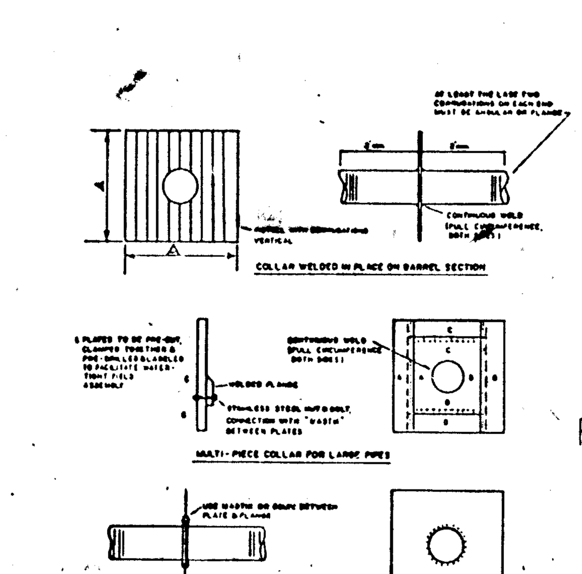
V. CONCRETE

Concrete shall meet minimum requirements set forth in Maryland State Highway Administration Specifications for Materials, Highways, Bridges, and Incidental Structures, Article 20.07 (Portland Cement Concrete Mixtures), Mix No. 3.

VI. STABILIZATION

All borrow areas shall be graded to provide proper drainage and left in a sightly condition. All exposed surfaces of the embankment, spillway and borrow areas shall be stabilized by permanent seeding and applying straw mulch in accordance with "Standards and Specifications for Soil Erosion and Sediment Control in Urbanizing Areas" immediately after finish grading.

Fertilizer:	10-10-10	@ 11.5 lbs./1000 sq. ft.
Seed:	Crownvetch Inoculated	@ 0.5 lbs./1000 sq. ft.
	"KY-31" Tall Fescue	@ 1.5 lbs./1000 sq. ft.
Mulch:	Straw	@ 80 lbs./1000 sq. ft.
Asphalt Tie-down:	Slopes	@ 8 gal./1000 sq. ft.
	Flat areas	@ 5 gal./1000 sq. ft.



TYPICAL ANTI-SEEP COLLAR
NOT TO SCALE

LOCATION	A
AREA 2	7.5'

CONSTRUCTION SEQUENCE *

1. OBTAIN GRADING PERMIT.
2. INSTALL STABILIZED CONSTRUCTION ENTRANCE. EXCAVATE TEMPORARY STORM WATER MANAGEMENT POND #1 AND SEDIMENT TRAP #1 TO REQUIRED DIMENSIONS. CONSTRUCT EARTH DIKES, INSTALL SILT FENCE ACCORDING TO PLANS. CONSTRUCT PERMANENT SWALE ALONG REAR OF LOTS 39 THROUGH 70.
3. START CLEARING AND GRUBBING AFTER ALL SEDIMENT MEASURES ARE IN PLACE.
4. CONSTRUCT STORM DRAIN SYSTEMS WITH INLET PROTECTIONS. TEMPORARILY CONSTRUCT 50' FROM INLET I-12 TO I-13 AND DITCH OUT TO ALLOW NON-DISTURB AREA RUNOFF TO PASS THROUGH.
5. GRADE ROADS TO SUBGRADE, CONSTRUCT CURB AND LAY BASE COURSE.
6. DURING CONSTRUCTION AND AFTER EACH RAINFALL, THE CONTRACTOR SHALL INSPECT AND PROVIDE NECESSARY MAINTENANCE ON THE SEDIMENT AND EROSION CONTROL STRUCTURES. SEDIMENT SHALL BE REMOVED WHEN THE CLEANOUT ELEVATIONS HAVE BEEN REACHED IN THE TEMPORARY SWM POND AND TRAP #1.
7. REMOVE STABILIZED CONSTRUCTION ENTRANCE.
8. CLEAN BASE COURSE, APPLY TACK COAT TO BASE COURSE AND LAY SURFACE. STABILIZE ALL SHOULDERS USING PERMANENT SEEDING.
9. NOTE: ALL SEDIMENT TRAPS & TEMPORARY STORM WATER MANAGEMENT POND SHALL REMAIN INPLACE UNTIL THE PLANS FOR THE REGIONAL STORM WATER MANAGEMENT FACILITY UNDER F-89-44 IS APPROVED AND THE POND CONSTRUCTED. THE POND MAYBE REMOVED ONLY AT THE APPROVAL OF DPW.
10. AFTER PERMISSION TO REMOVE POND HAS BEEN OBTAINED (IN #9 ABOVE) BEGIN REMOVAL OF POND AND SEDIMENT TRAPS. ALL DISTURB AREAS DRAINING TO TRAPS AND POND SHALL BE STABILIZED PRIOR TO BACKFILLING. INSTALL SILT FENCE AT DOWNSTREAM TOE OF TRAPS AND POND.
11. REMOVE RISER ASSEMBLY FOR TEMPORARY SWM POND AND TEMPORARY 12" CMP. BACKFILL POND AND TRAPS TO FINISHED GRADE. STABILIZED WITH PERMANENT SEEDING.
12. ALL DISTURBED AREAS DUE TO REMOVAL OF SEDIMENT CONTROL MEASURES SHALL BE GRADED AND STABILIZED BY PERMANENT SEEDING.
13. FOLLOWING INITIAL SOIL DISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN: A) SEVEN (7) CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES, DIKES, SWALES, DITCH PERIMETER SLOPES AND ALL SLOPES GREATER THEN 3:1; B) FOURTEEN (14) DAYS FOR ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.

* PRIOR TO ANY DISTURBANCE, INSTALL SNOW FENCE ALONG WETLAND LIMITS.

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, MD. REG. NO. 9273 — 3/21/89 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 THE BEGINNING OF PROJECT. I WILL PROVIDE THE HOWARD COUNTY 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 N.V. LAND, INC. — 3/22/89 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.

U.S. SOIL CONSERVATION SERVICE — 5/9/89 DATE

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

HOWARD SOIL CONSERVATION DISTRICT — 5/9/89 DATE

APPROVED, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

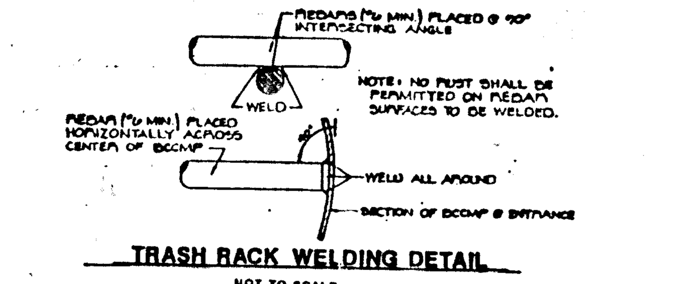
CHIEF, LAND DEVELOPMENT DIVISION — 6/7/89 DATE

CHIEF, BUREAU OF HIGHWAY — 6/7/89 DATE

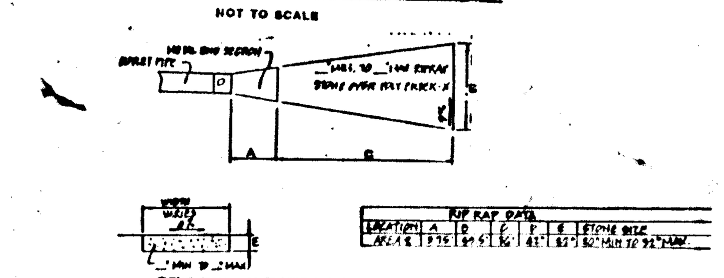
CHIEF, BUREAU OF ENGINEERING — 6/8/89 DATE

APPROVED HOWARD COUNTY OFFICE OF PLANNING AND ZONING

CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT — 6/20/89 DATE



TRASH RACK WELDING DETAIL
NOT TO SCALE



RIP RAP DATA

LOCATION	A	D	C	F	E	STONE SIZE
AREA 2	3.75	9.5	5'	4.1'	4.1'	10" MIN TO 32" MAX.

RIPRAP CHANNEL DETAIL
NOT TO SCALE

NOTE: GUTSCHICK LITTLE & WEBER IS RESPONSIBLE FOR AS-BUILT INFORMATION ONLY

AS-BUILT

LEGEND

- Earth Dike A-2 / B-3
- Silt Fence —S—S—
- Stabilized Construction Entrance SCE
- Temporary Swale A-2 / B-3
- Inlet Protection
- RipRap Outlet Sediment Trap
- LIMIT OF DISTURBED AREA o o o o
- DRAINAGE DIVIDE

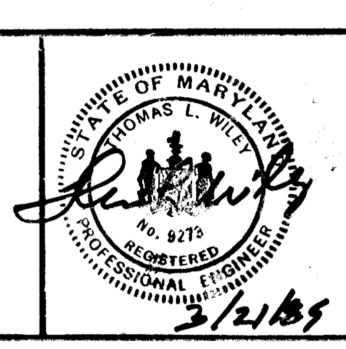
NOTE: NO AS-BUILT INFORMATION SHOWN ON THIS PLAN

		REVISIONS		
DESIGNED ____ date		DATE	BY	DESCRIPTION
DRAWN ____ date		9-14-88	CRH/FAB	Rte103 Widening
CHECKED ____ date				
APPROVED ____ date				

TCA

1443

Dewberry & Davis
ENGINEERS — ARCHITECTS — PLANNERS — SURVEYORS



OWNER / DEVELOPER

NV LAND INC.
6820 ELM STREET
McLEAN, VA. 22101
(703)734-9730

MONTGOMERY MEADOWS
SECTION ONE AREA TWO
LOTS 62 THRU LOT 137
2ND ELECTION DISTRICT HOWARD COUNTY, MD.
SEDIMENT CONTROL DETAILS & NOTES

SCALE: NO SCALE | CONTRACT NO. | FILE NO. | SHEET 13 OF 13

F-88-244