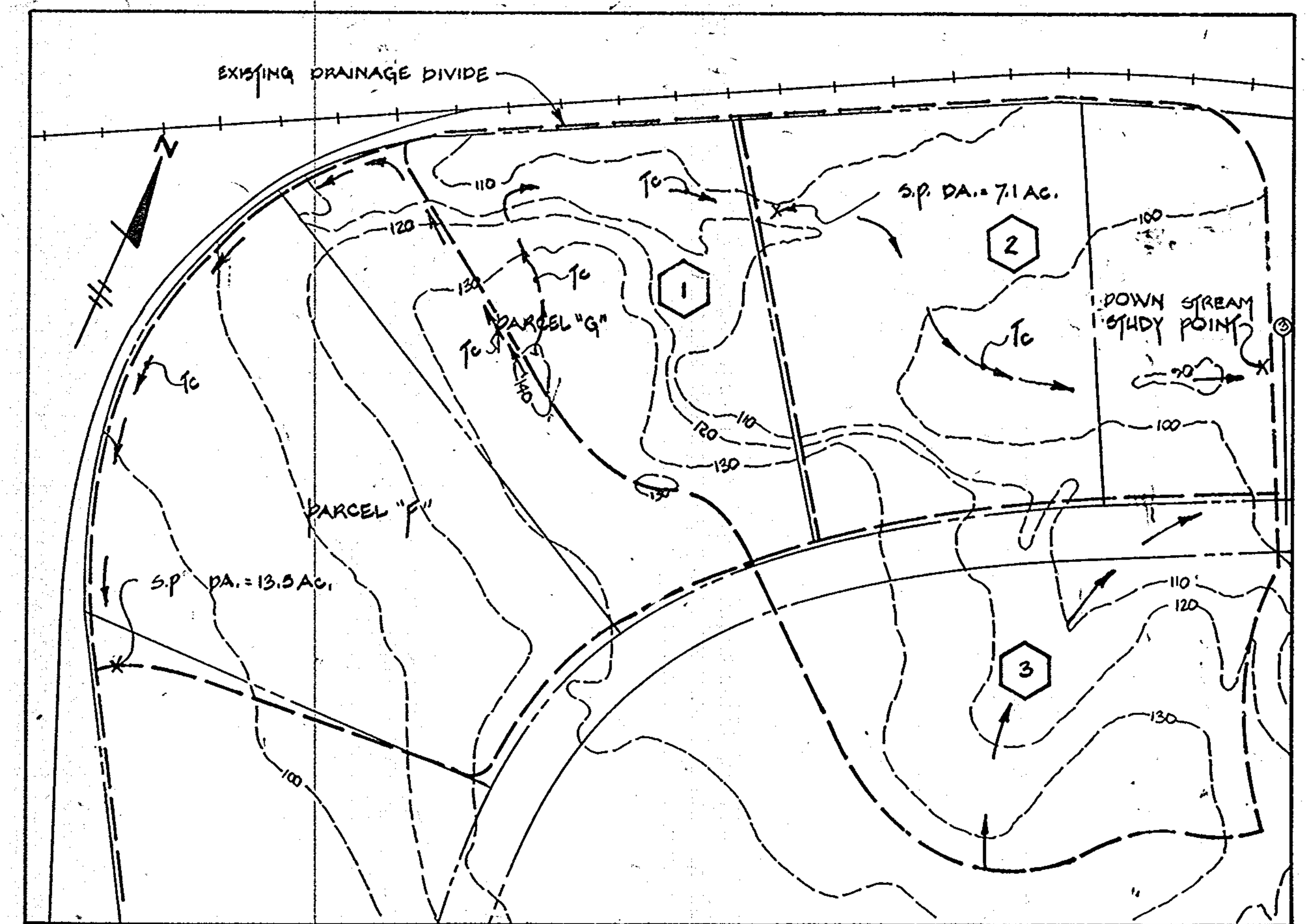
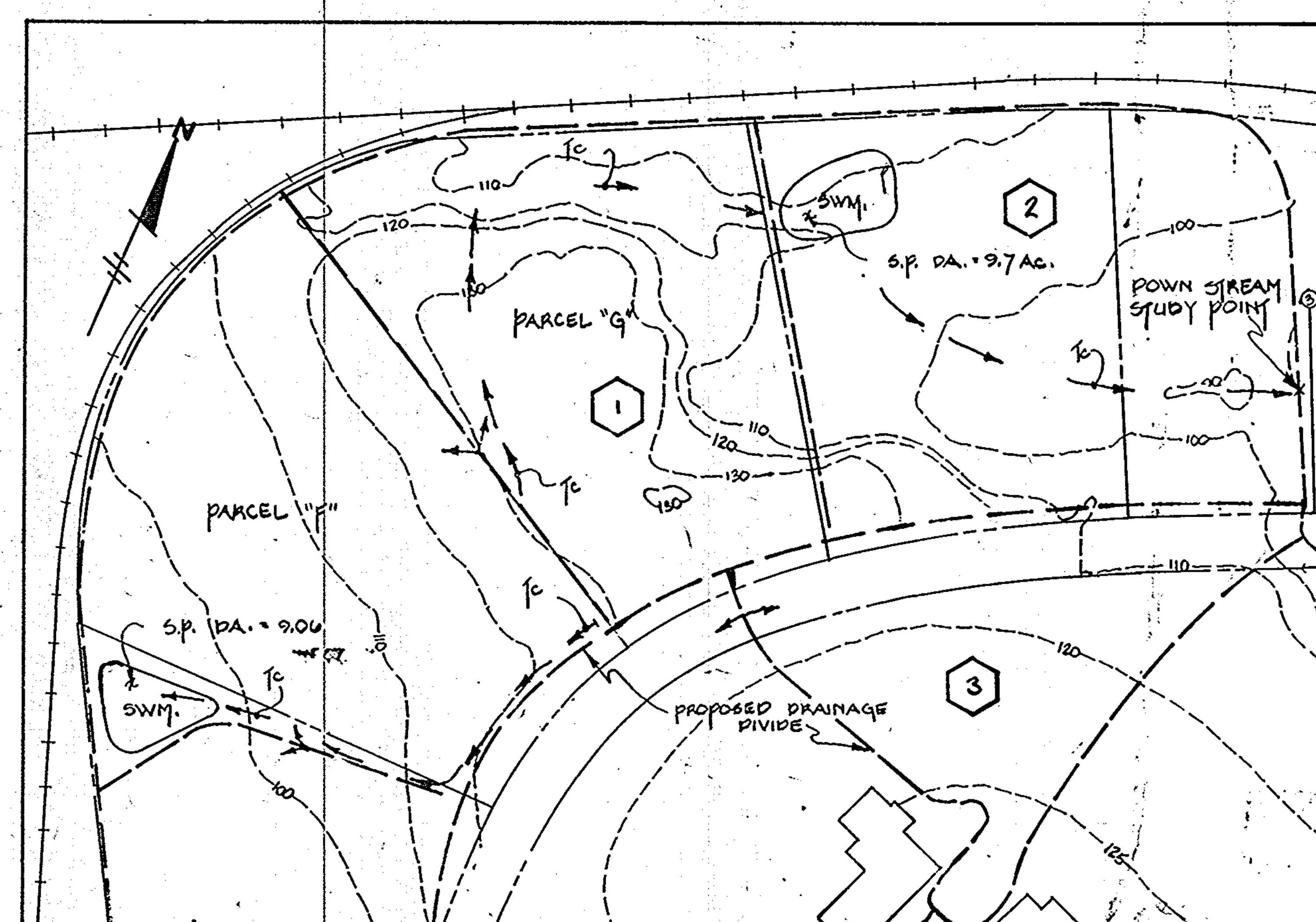
SITE ANALYSIS

AREA OF PARCELS - 17.66±
PRESENT ZONING - M-2
FLOOR SPACE - 0
PARKING REQUIRED - 0
PARKING PROVIDED - 0
OPEN SPACE - N/A
BUILDING COVERAGE - 0

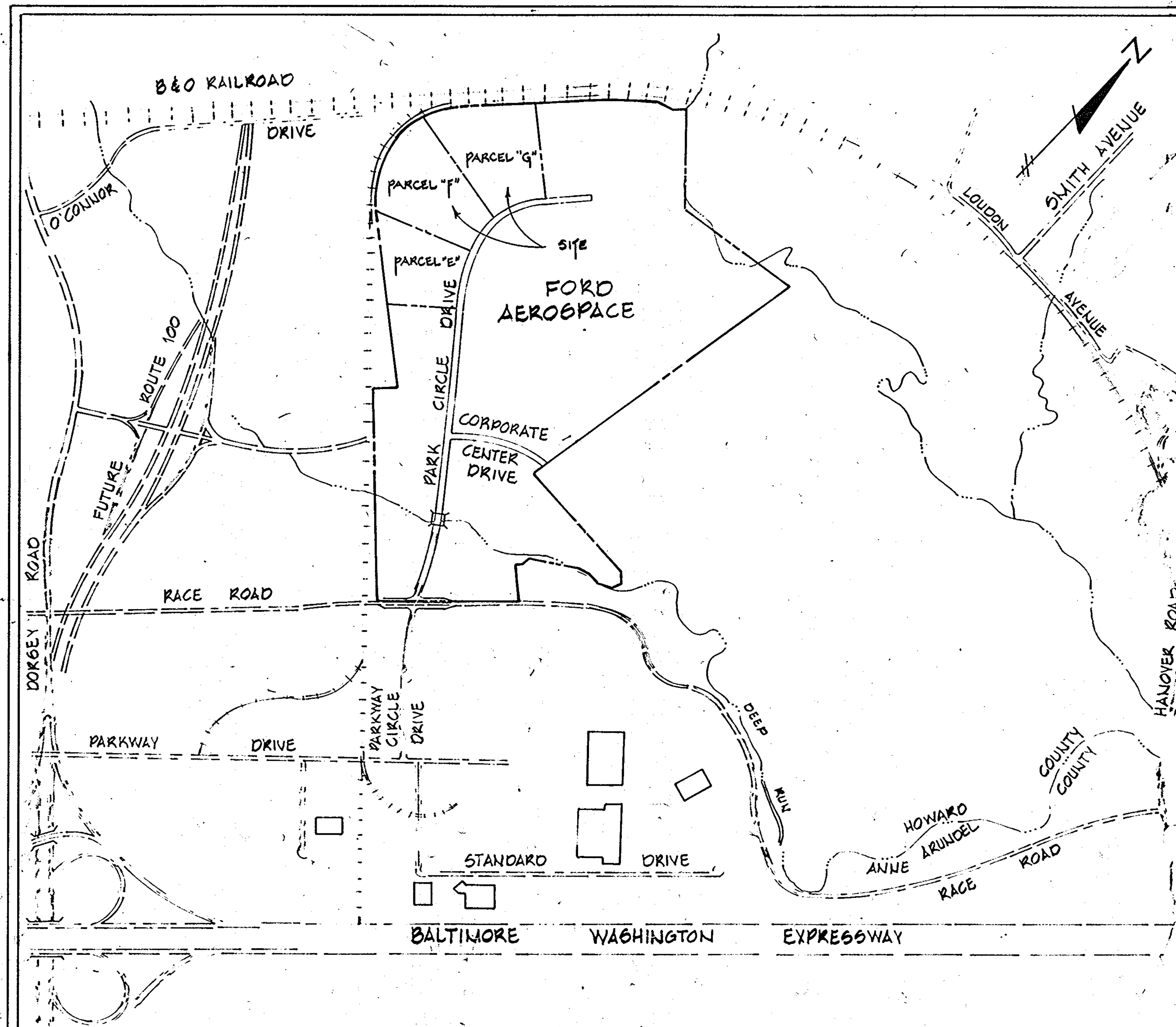
ADDRESS CHART	
LOT NUMBER	STREET ADDRESS
E	6755 PARK CIRCLE DRIVE
F	6735 'A' BLDG. PARK CIRCLE DRIVE 6725 'B' BLDG. PARK CIRCLE DRIVE
G	6705 PARK CIRCLE DRIVE



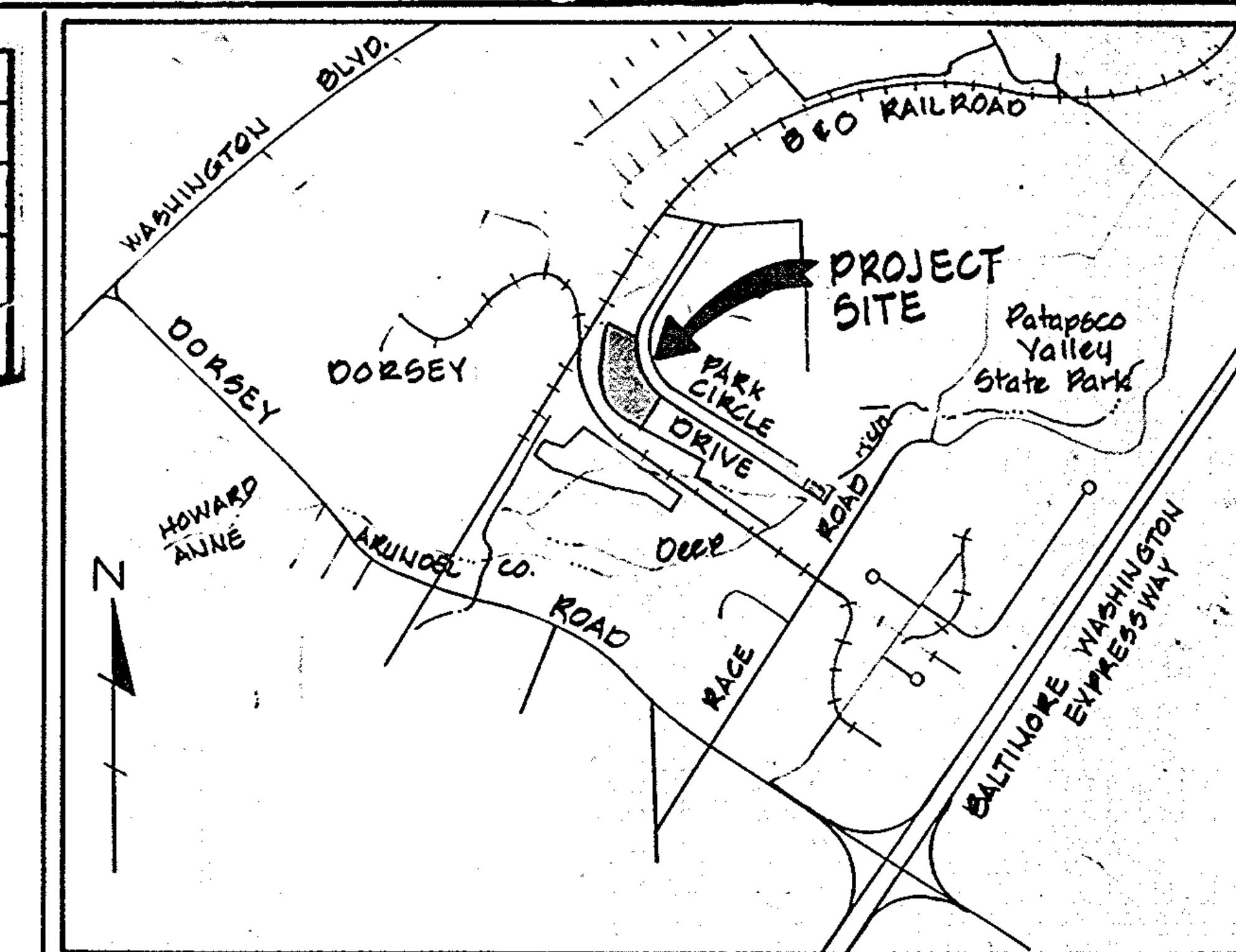
DRAINAGE AREA MAP Existing Conditions
SCALE : 1" = 200'



DRAINAGE AREA MAP Proposed Conditions
SCALE : 1" = 200'



LOCATION MAP
SCALE : 1" = 600'



VICINITY MAP
SCALE : 1" = 2000'

NOTE: THIS PLAN SUBJECT TO WAIVER FROM SECTION 16.116.C.4 AND 16.116.C.6 APPROVED DECEMBER 22, 1982 (WP-90-58) TO ALLOW GRADING AND CLEARING ON SLOPES 25% AND GREATER ADJACENT TO WETLANDS AND ELIMINATION OF 0.31 ACRES OF WETLAND ON PARCEL 'G'.

DRAWING INDEX	
SHEET NO.	TITLE OF DRAWING
1	COVER SHEET
2	PARCEL "F" GRADING PLAN
3	PARCEL "G" GRADING PLAN
4	PARCEL "F" INTERIM POND NO. 1 DETAILS
5	PARCEL "G" INTERIM POND NO. 2 DETAILS
6	STANDARD NOTES AND DETAILS

Howard County Signature Block

APPROVED
DIVISION of COMMUNITY PLANNING & LAND DEVELOPMENT
HOWARD COUNTY, MARYLAND
DATE ________

SEDIMENT CONTROL & POND CONSTRUCTION

( ) By the Developer:

"I/We certify that all development and/or construction will be done according to these plans, and that any responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of 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."

Signature of Developer Date
Print name below signature

( ) By the Engineer:

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

Signature of Engineer 2/1/90 Date
Print name below signature
DVIR KATHURIA

( ) 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 2/13/90 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 2/13/90 Date

PARKWAY ~~CORPORATE~~ CENTER

PARCEL 'E', 'F,' AND 'G'

SITE DEVELOPMENT PLAN FOR GRADING AND STORMWATER MANAGEMENT

"PLAN SUBJECT to": S-8766, P-87-70 AND F-88-55, WP90-58, F-90-125

ENGINEER'S CERTIFICATE
I HEREBY 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 OF ENGINEER DATE 2/1/90

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 SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY."

SIGNATURE OF DEVELOPER DATE 1/23/90

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT
COUNTY HEALTH OFFICER 3-21-90 DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
DIRECTOR 4.2.90 DATE
CHIEF DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT 3/26/90 DATE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DIRECTOR 3/20/90 DATE
CHIEF BUREAU OF ENGINEERING 3.2.90 DATE

REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.

U.S. Soil Conservation Service 2-13-90 Date

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

Howard Soil Conservation District 2/13/90 Date

SUBDIVISION NAME				SECT./AREA	LOT/PARCEL #
PARKWAY ~~CORPORATE~~ CENTER				SECT. 1	E, F, G
PLAT # OR L/F 9272-9276 PLAT 7284	BLOCK # 19&1	ZONE M-2	TAX/ZONE MAP TM 38&44	ELEC. DIST. 1	CENSUS TR. 6012
WATER CODE A-04			SEWER CODE 2150000 & 2150500		

		REVISIONS		
DESIGNED JAB	5/89 DATE	DATE	BY	DESCRIPTION
DRAWN SGP	5/89 DATE			
CHECKED	DATE			
APPROVED	DATE			

ENGINEERING TECHNOLOGIES ASSOCIATES, INC.
ENGINEERS, PLANNERS, SURVEYORS
3458 ELLICOTT CENTER DRIVE SUITE 101
ELLICOTT CITY, MD. 21043
(301) 461-9920

STATE OF MARYLAND — REGISTERED PROFESSIONAL ENGINEER

OWNER / DEVELOPER
HI-TECH VENTURE LIMITED PARTNERSHIP
7223 PARKWAY DRIVE
HANOVER, MARYLAND 21076
(301) 796-4446

COVER SHEET
PARKWAY CENTER SECTION I
PARCELS 'E', 'F', and 'G'
AND OUT PARCEL (1565/469)
1st ELECTION DISTRICT TM-38&44 HOWARD COUNTY, MARYLAND

SCALE: AS SHOWN	CONTRACT NO. 89100.40	DATE: 5/89	SHEET 1 OF 8

SDP-89-275

PARCEL "G"
Parkway Center, Section 1
PAT 7584
ZONED M-2

INTERIM POND No. 1
ELEVATIONS
BOTTOM ELEV. = 92.75
VOLUME REQUIRED = 607 CY
VOLUME PROVIDED = 1,390 CY
CLEANOUT ELEV. = 95.00

MATCH LINE — S 83° 31' 00" W 814.48' — SHEET 3 OF 6

PARCEL "K"
Parkway Center, Section-1
PAT 7584 & 7585
ZONED M-2

N

Ex. B&O Railroad
444/403 & 442/673
ZONED M-2

PARCEL "F"
(Formerly Parcel "G")

Ex. 8" Plug and 8" Stub
Ex. 8" Sewer MH Inv. 92.41

Prop. Earth Dike

LIMIT OF DISTURBANCE

EXISTING EARTH DIKE

PROP. SWALE
(SEE DETAIL BELOW)

Ex. 8" Sewer Contr. No 14-1701-D

Ex. Sewer MH Inv. 90.54 In, Inv. 90.34 Out

Existing Drainage, Sewer & Utility Easement

Ex. B&O Railroad

Ex. Sewer MH Inv. 88.54 In Inv. 88.34 Out

Existing Sediment Trap (To be filled)

Ex. Inlet

Ex. 15" D

LIMIT OF DISTURBANCE

Ex. W.H.

Prop. Silt Fence

Limit of Disturbance

Stabilized Construction Entrance (SCE)

Ex. 12" WATER

Ex. 8" D

Existing Earth Dike To Remain In Place

INV. 101.58

TEMP RIP-RAP CHANNEL

PROP. WATER QUALITY POND/ SEDIMENT BASIN

8' Top Width
LIMIT OF DISTURBANCE
PROP. SILT FENCE

PARCEL "E"
Parkway Center
Section-1
PAT 7585
ZONED M-2

POND NO. 1

SOD LINED
1.0'
3:1
3:1
3'

D.A. = 6.4 Ac.
Q_{design} = 19.0 CFS Q_{PAT} = 8.9 cfs
V = 3.16 FPS V_{PAT} = 1.5 fps
S = 1.33 %
n = 0.09
a = 6.9
LENGTH SWALE: 990 L.F.

Howard County Signature Block

APPROVED
DIVISION of
COMMUNITY PLANNING
& LAND DEVELOPMENT
HOWARD COUNTY,
MARYLAND
DATE.....

Sediment Basin Design Data

1.	DRAINAGE AREA	=	9.06 Ac
2.	DISTURBED AREA	=	9.06 Ac
3.	VOL. REQUIRED	=	607 C.Y.
4.	VOL. PROVIDED	=	1,390 C.Y.
5.	BOTTOM ELEV.	=	92.75
6.	TOP OF EMBANKMENT	=	100.00
7.	CLEANOUT ELEV.	=	95.00
8.	RISER CREST ELEV.	=	97.25

SECTION "A-A"
SCALE: 1" = 30' HORZ.
1" = 3' VERT.

EX. GROUND
PROP. GRADE
1.25'
SHA. CL-1 RIP-RAP
FILTER FABRIC
VARIES

POND CERTIFICATION
This As-Built is Accurate and Complete, and the Pond as Constructed meets the Requirements of the Standards and Specifications for Ponds

D.V. KATHURIA — DATE

PLAN
Scale = 1" = 50'

ENGINEER'S CERTIFICATE
I HEREBY 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 OF ENGINEER — DATE 2/1/90

DEVELOPER'S CERTIFICATION
"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 SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY."
SIGNATURE OF DEVELOPER — DATE 1/23/90

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS. HOWARD COUNTY HEALTH DEPARTMENT
COUNTY HEALTH OFFICER — DATE 3-21-90

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
DIRECTOR — DATE 4.2.90
CHIEF DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT — DATE 4/23/90

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DIRECTOR — DATE 3/26/90
CHIEF BUREAU OF ENGINEERING — DATE 3.2.90

REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.
U.S. Soil Conservation Service — Date 2-13-90

THIS DEVELOPMENT IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT
Howard Soil Conservation District — Date 2/13/90

SEDIMENT CONTROL & POND CONSTRUCTION

( ) By the Developer:

"I/We certify that all development and/or construction will be done according to these plans, and that any responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of 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."
Signature of Developer — Date 1/23/90
Print name below signature

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"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."
Signature of Engineer — Date 2/1/90
Print name below signature
D.V. KATHURIA

( ) 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 2/3/90

( ) 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 2/13/90

SITE DEVELOPMENT PLAN
FOR GRADING AND STORMWATER MANAGEMENT

DESIGNED	DATE
DRAWN	DATE
CHECKED	DATE
APPROVED	DATE

REVISIONS

DATE	BY	DESCRIPTION
8-24-91	MCR	As-Built

ENGINEERING TECHNOLOGIES ASSOCIATES, INC.
ENGINEERS, PLANNERS, SURVEYORS
3458 ELLICOTT CENTER DRIVE SUITE 101
ELLICOTT CITY, MD. 21043
(301) 461-9920

STATE OF MARYLAND — DIPAK V. KATHURIA — NO. 6810 — REGISTERED PROFESSIONAL ENGINEER

OWNER / DEVELOPER
HI TECH VENTURE LIMITED PARTNERSHIP
7223 PARKWAY DRIVE
HANOVER, MARYLAND 21076
(301) 796-4446

SITE, GRADING AND SEDIMENT CONTROL PLAN

PARKWAY CENTER SECTION 1
PARCELS 'E', 'F', and 'G'
AND OUT PARCEL (1565/469)

1st. ELECTION DISTRICT — TM 38 & 44 — HOWARD COUNTY, MARYLAND
SCALE: AS SHOWN — CONTRACT NO. — DATE: 5/89 — SHEET: 2 OF 8
SDP-89-275

SEDIMENT CONTROL & POND CONSTRUCTION

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Siganture of Developer — Date 1/22/90
Print name below signature

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Signature of Engineer — Date 2/1/90
Print name below signature
DHARAM V. KATHURIA

( ) 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 2/13/90

( ) 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 2/13/90

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT

COUNTY HEALTH OFFICER — DATE 3-21-90

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

DIRECTOR — 4.2.90

CHIEF DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT — DATE 4/26/90

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

DIRECTOR — DATE 3/21/90

CHIEF BUREAU OF ENGINEERING — DATE 3.2.90

REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.

U.S. Soil Conservation Service — Date 2/13/90

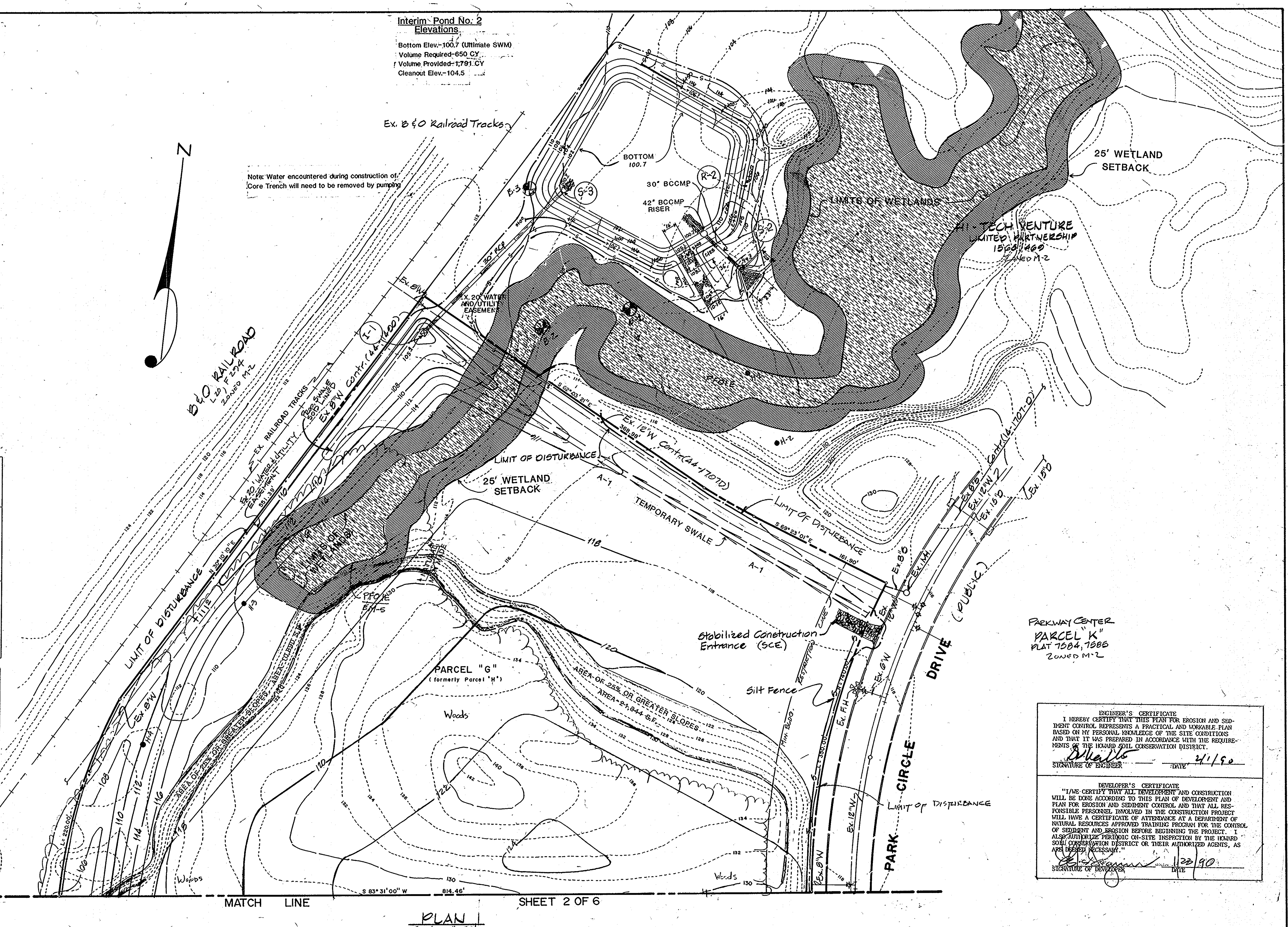
THIS DEVELOPMENT IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.

Howard Soil Conservation District — Date 2/13/90

Howard County Signature Block

APPROVED
DIVISION of
COMMUNITY PLANNING
& LAND DEVELOPMENT
HOWARD COUNTY, MARYLAND

DATE ______



ENGINEER'S CERTIFICATE

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SIGNATURE OF ENGINEER — DATE 2/1/90

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 SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY."

SIGNATURE OF DEVELOPER — DATE 1/22/90

SITE DEVELOPMENT PLAN
FOR GRADING AND STORMWATER MANAGEMENT

DESIGNED		DATE
DRAWN	S.G.P.	5/89 DATE
CHECKED		DATE
APPROVED		DATE

REVISIONS

DATE	BY	DESCRIPTION

ENGINEERING TECHNOLOGIES ASSOCIATES, INC.

ENGINEERS, PLANNERS, SURVEYORS
3458 ELLICOTT CENTER DRIVE SUITE 101
ELLICOTT CITY, MD. 21043
(301) 461 - 9920

STATE OF MARYLAND — DHARAM V. KATHURIA — REGISTERED PROFESSIONAL ENGINEER

OWNER / DEVELOPER

HI-TECH VENTURE LIMITED PARTNERSHIP
7223 PARKWAY DRIVE
HANOVER, MARYLAND 21076
(301) 796-4446

SITE, GRADING AND SEDIMENT CONTROL PLAN

PARKWAY CENTER SECTION I

PARCELS 'E', 'F', and 'G'
AND OUT PARCEL (1565/469)

1st ELECTION DISTRICT TM 38144 — HOWARD COUNTY, MARYLAND

SCALE: AS SHOWN | CONTRACT NO. | DATE: 5/89 | SHEET: 3 OF 8

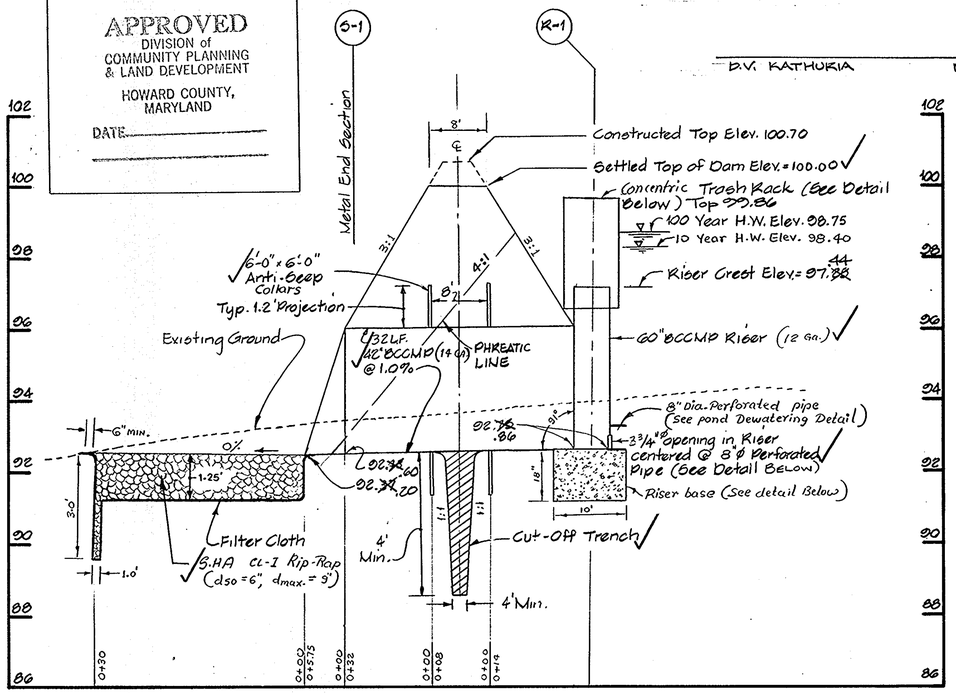
SDP-89-275

Howard County Signature Block

APPROVED
DIVISION of
COMMUNITY PLANNING
& LAND DEVELOPMENT
HOWARD COUNTY,
MARYLAND
DATE

POND CERTIFICATION
This As-Built is Accurate and Complete and the Pond as Constructed meets the Requirements of the Standards and Specifications for Ponds

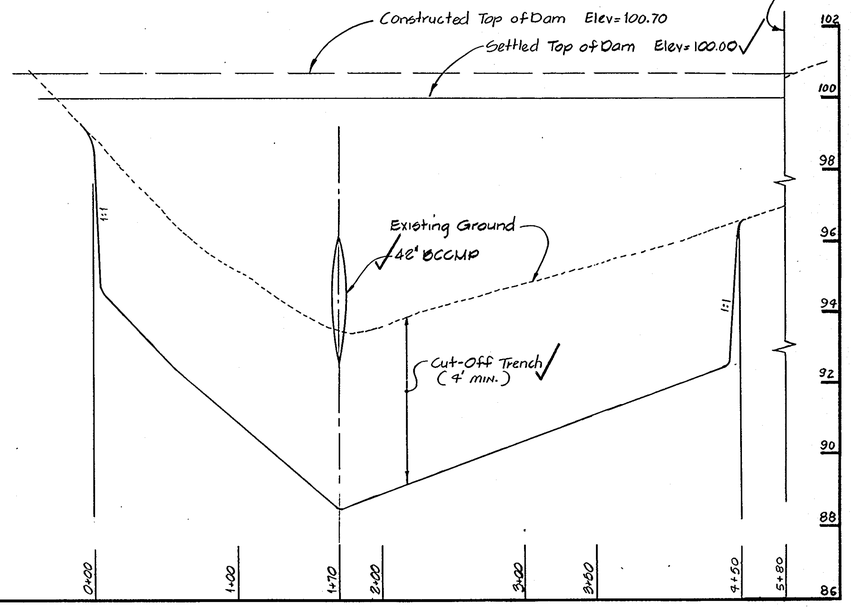
B.V. KATHURIA DATE



CROSS-SECTION THRU DAM

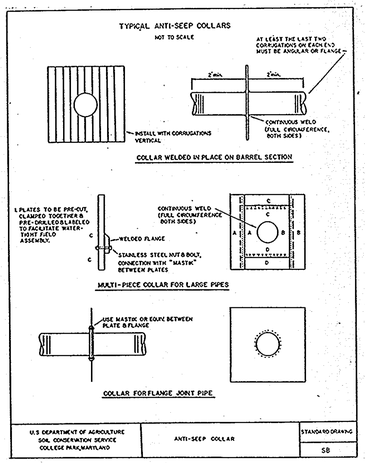
Scale: Horizontal: 1"=10'
Vertical : 1"=2'

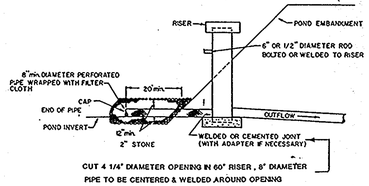
Note: At station 5+80 the existing Ground meets the top of Dam



PROFILE ALONG DAM

Scale: Horizontal = 1"=50'
Vertical = 1"=2'

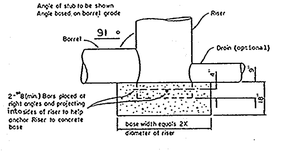




CUT 4 1/4" DIAMETER OPENING IN 60" RISER, 8" DIAMETER PIPE TO BE CENTERED & WELDED AROUND OPENING

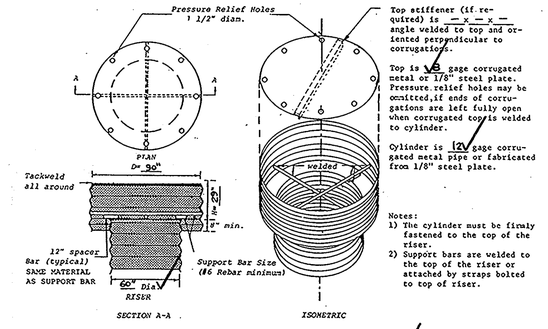
POND DEWATERING DETAIL

NO SCALE



RISER BASE DETAIL

NOTES:
1. The concrete base shall be poured in such a manner to insure that the concrete fills the bottom of the riser to the invert of the outlet pipe to prevent the riser from breaking away from the base.
2. With aluminum or aluminized pipe, the embedded section must be painted with zinc chromate or equivalent.
3. Riser base may be sized as computed using flotation with a factor of safety of 1.2.



Top stiffener (if required) is — x — x — angle welded to top and oriented perpendicular to corrugations.

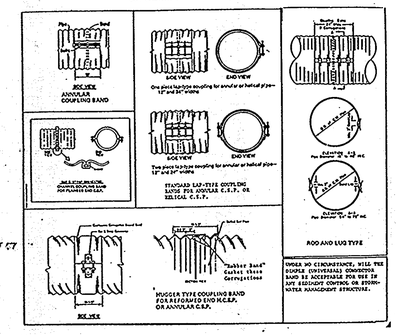
Top is 1/2 gage corrugated metal or 1/8" steel plate. Pressure relief holes may be omitted if ends of corrugations are left fully open when corrugated cone is welded to cylinder.

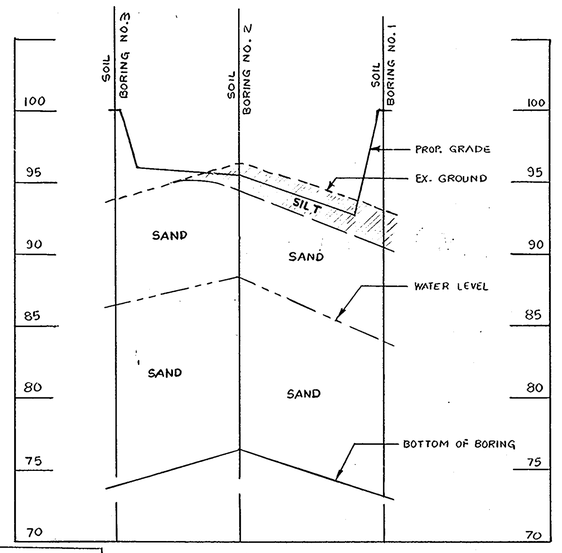
Cylinder is 12 gage corrugated metal pipe or fabricated from 1/8" steel plate.

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)

TYPES OF COUPLERS FOR CORRUGATED STEEL PIPE
(All connector bands require neoprene gaskets)





SOIL BORING PROFILE

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

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 SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY."

SIGNATURE OF DEVELOPER — DATE 1/22/90

ENGINEER'S CERTIFICATE

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SIGNATURE OF ENGINEER — DATE 4/1/90

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT
COUNTY HEALTH OFFICER — DATE 3-21-90

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
DIRECTOR — DATE 4.2.90
CHIEF DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT — DATE 6/26/90

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DIRECTOR — DATE 3/20/90
CHIEF BUREAU OF ENGINEERING — DATE 3-2-90

REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.
U.S. Soil Conservation Service — Date 2-13-90

THIS DEVELOPMENT IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT
Howard Soil Conservation District — Date 2-13-90

SEDIMENT CONTROL & POND CONSTRUCTION

( ) By the Developer:

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Signature of Developer — Date 1/22/90
Print name below signature

( ) By the Engineer:

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

Signature of Engineer — Date 2/13/90
Print name below signature
DHARAM V. KATHURIA

( ) 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 2-13-90

( ) 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 2/13/90

SITE DEVELOPMENT PLAN
FOR GRADING AND STORMWATER MANAGEMENT

PARCEL 'F' INTERIM POND NO.1 DETAILS

PARKWAY CENTER SECTION 1

PARCELS 'E', 'F', and 'G'
AND OUT PARCEL (1565/469)

1st ELECTION DISTRICT — TM 36 44 — HOWARD COUNTY, MARYLAND
SCALE: AS SHOWN — CONTRACT NO. — DATE: 5/89 — SHEET: 4 OF 8
SDP-89-275

REVISIONS		
DATE	BY	DESCRIPTION
8-24-91	MCR	As-Built

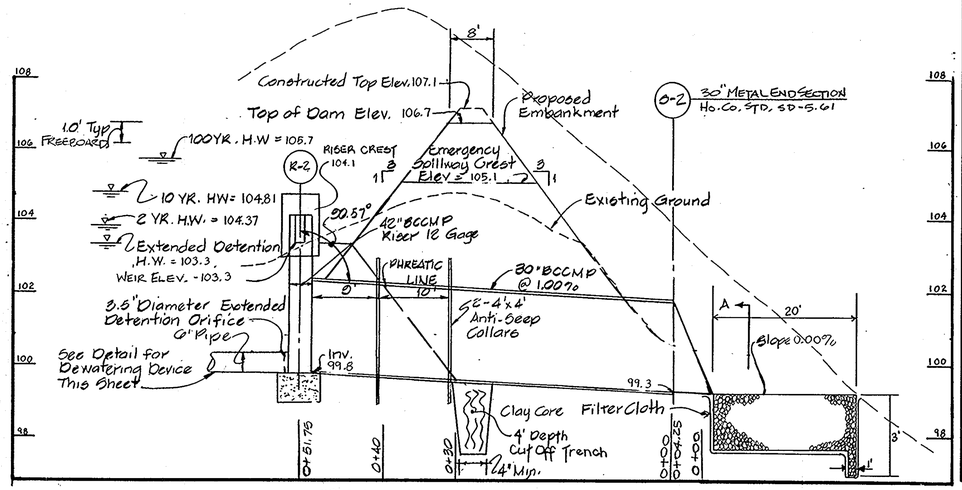
DESIGNED — DATE
DRAWN SGP 5/89 DATE
CHECKED — DATE
APPROVED — DATE

ENGINEERING TECHNOLOGIES ASSOCIATES, INC.
ENGINEERS, PLANNERS, SURVEYORS
3458 ELLICOTT CENTER DRIVE SUITE 101
ELLICOTT CITY, MD. 21043
(301) 461-9920

STATE OF MARYLAND — DHARAM V. KATHURIA — NO. 16819 — REGISTERED PROFESSIONAL ENGINEER

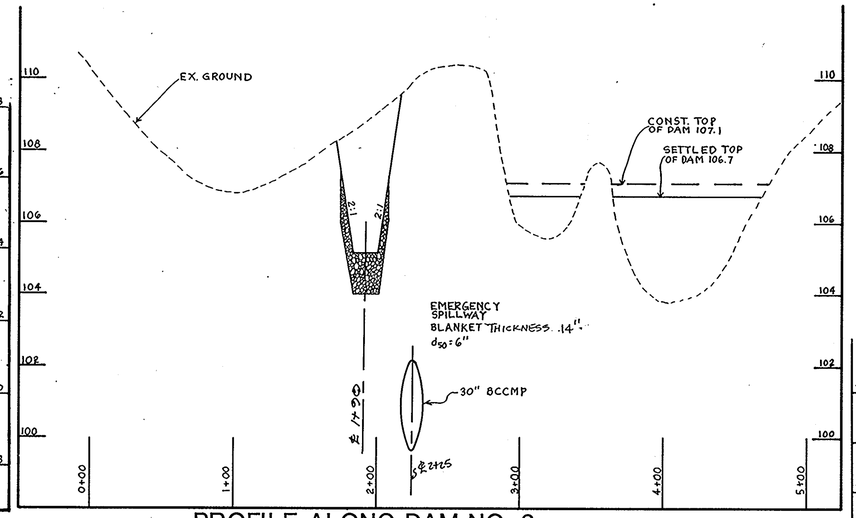
OWNER / DEVELOPER
HI-TECH VENTURE LIMITED PARTNERSHIP
7223 PARKWAY DRIVE
HANOVER, MARYLAND 21076
(301) 796-4446

13439
JBJ COLUMBIA, MD.



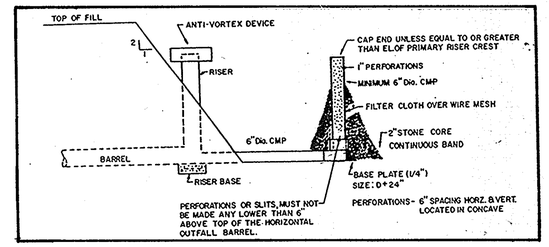
CROSS-SECTION THRU DAM NO 2

Scale: Horizontal = 1"= 10'
Vertical = 1"= 2'



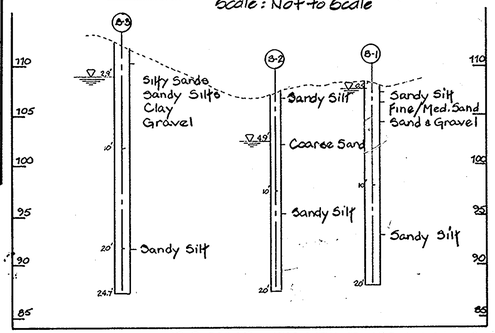
PROFILE ALONG DAM NO. 2

SCALE: HOR. 1"=50'
VER. 1"=2'



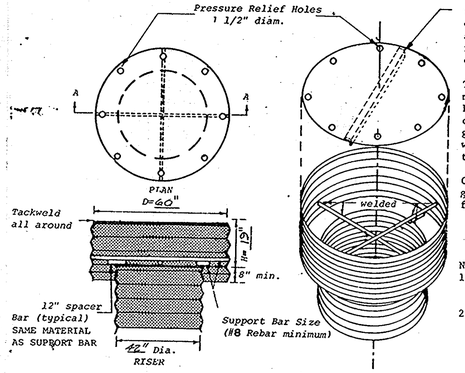
SEDIMENT BASIN DEWATERING DEVICE WITH 6" PERFORATED RISER POND NO. 2

Scale: Not to Scale



BORING PROFILE POND NO. 2

NOT TO SCALE



Top stiffener (if required) is — x — x — angle welded to top and oriented perpendicular to corrugations.

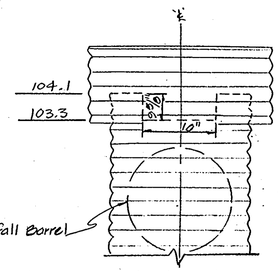
Top is 12 gage corrugated metal or 1/8" steel plate. Pressure relief holes may be ommitted, if ends of corrugations are left fully open when corrugated top is welded to cylinder.

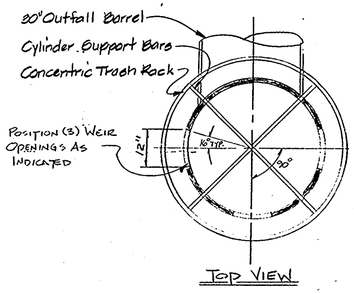
Cylinder is 12 gage corrugated metal pipe or fabricated from 1/8" steel plate.

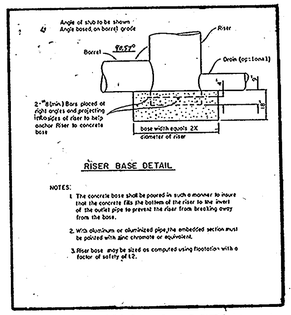
Notes:
1) The cylinder must be firmly fastened to the top of the riser.
2) Support bars are welded to the top of the riser or attached by straps bolted to top of riser.

CONCENTRIC TRASH RACK AND ANTI-VORTEX DEVICE POND NO. 2

Not to Scale







RISER DETAIL

Not to Scale

Howard County Signature Block

APPROVED
DIVISION of COMMUNITY PLANNING & LAND DEVELOPMENT
HOWARD COUNTY, MARYLAND
DATE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT
COUNTY HEALTH OFFICER — DATE 12-21-90

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
DIRECTOR — DATE 4.3.90
CHIEF DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT — DATE 1/26/90

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DIRECTOR — DATE 3/20/90
CHIEF BUREAU OF ENGINEERING — DATE 3.2.90

REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.
Soil Conservation Service — Date 2-13-90
THIS DEVELOPMENT IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT
Howard Soil Conservation District — Date 2-13-90

SEDIMENT CONTROL & POND CONSTRUCTION

( ) By the Developer:

"I/We certify that all development and/or construction will be done according to these plans, and that any responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of 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."

Signature of Developer — Date 4/20/90
Print name below signature

( ) By the Engineer:

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

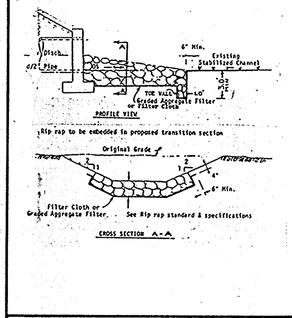
Signature of Engineer — Date 2/1/90
Print name below signature
DHARAM V. KAPAHERA

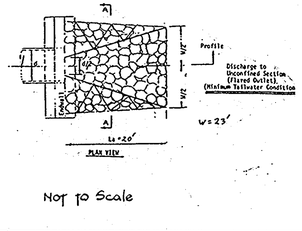
( ) These plans have been reviewed for the Howard Soil Conservation District and meet the technical requirements for small pond construction, soil erosion and sediment control.

Soil Conservation Service — Date 2-13-90

( ) 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 2-13-90





Not to Scale

dso = 8"
Blanket thickness = 20"
Vmax. = 5.0 fps
Q_{100} = 27.7 cfs
b = 3.5'
n = 0.050
Channel slope = 5.7%

MODIFIED RISER DETAIL POND NO. 2

NTS

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 SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY."

SIGNATURE OF DEVELOPER — DATE 1/23/90

ENGINEER'S CERTIFICATE

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SIGNATURE OF ENGINEER — DATE 2/1/90

SITE DEVELOPMENT PLAN FOR GRADING AND STORMWATER MANAGEMENT

PARCEL "G" INTERIM POND NO. 2 DETAILS

PARKWAY CENTER SECTION I

PARCELS 'E', 'F', and 'G'
AND OUT PARCEL (1565/469)

1st. ELECTION DISTRICT — TM 38 & 44 — HOWARD COUNTY, MARYLAND

SCALE: AS SHOWN | CONTRACT NO. | DATE: 4/89 | SHEET: 5 OF 8

SDP-89-275

DESIGNED _____ DATE
DRAWN RNC/SGP 5/89 DATE
CHECKED _____ DATE
APPROVED _____ DATE

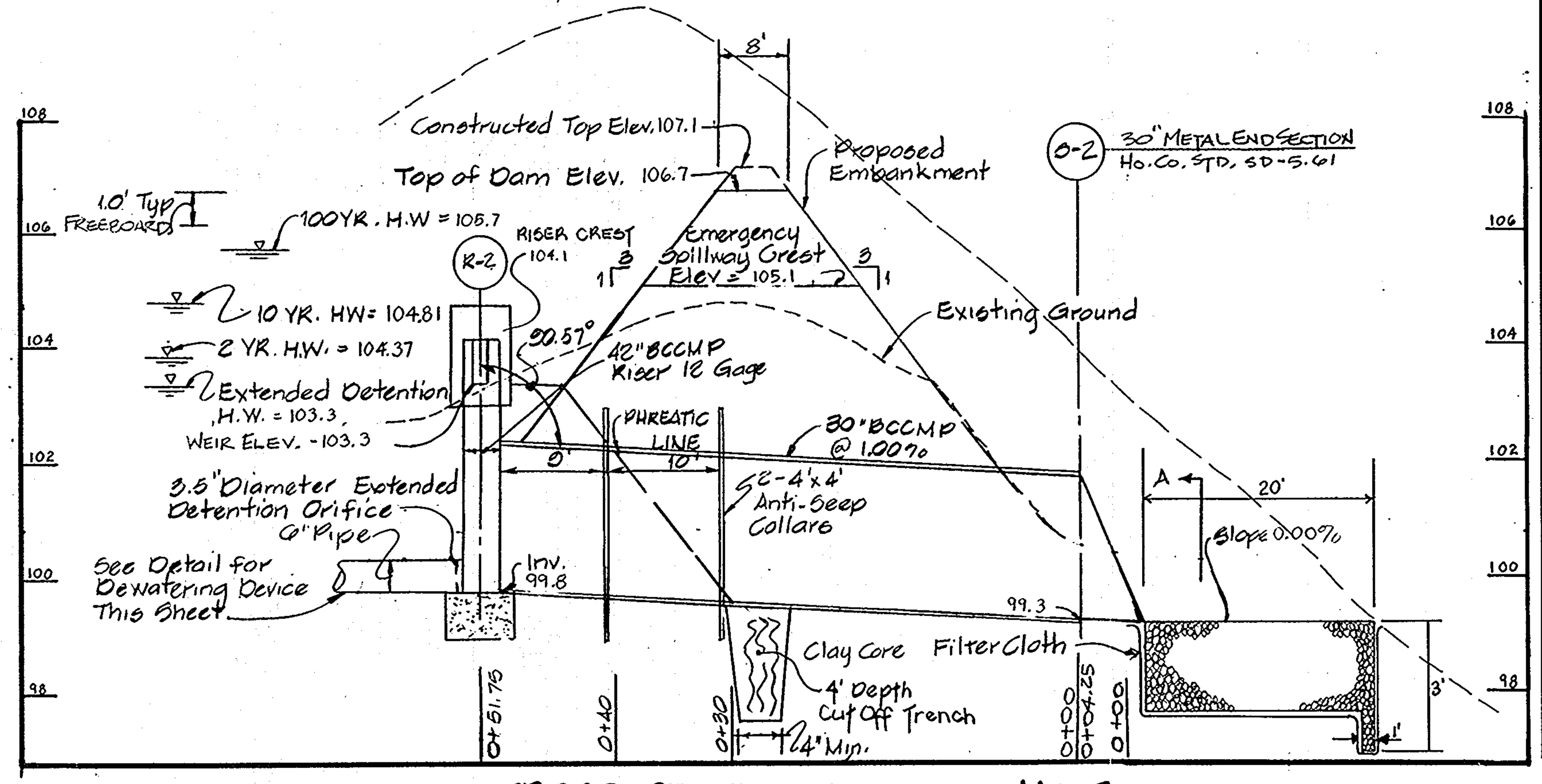
REVISIONS

DATE	BY	DESCRIPTION
	D	

ENGINEERING TECHNOLOGIES ASSOCIATES, INC.
ENGINEERS, PLANNERS, SURVEYORS
3458 ELLICOTT CENTER DRIVE SUITE 101
ELLICOTT CITY, MD. 21043
(301) 461 - 9920

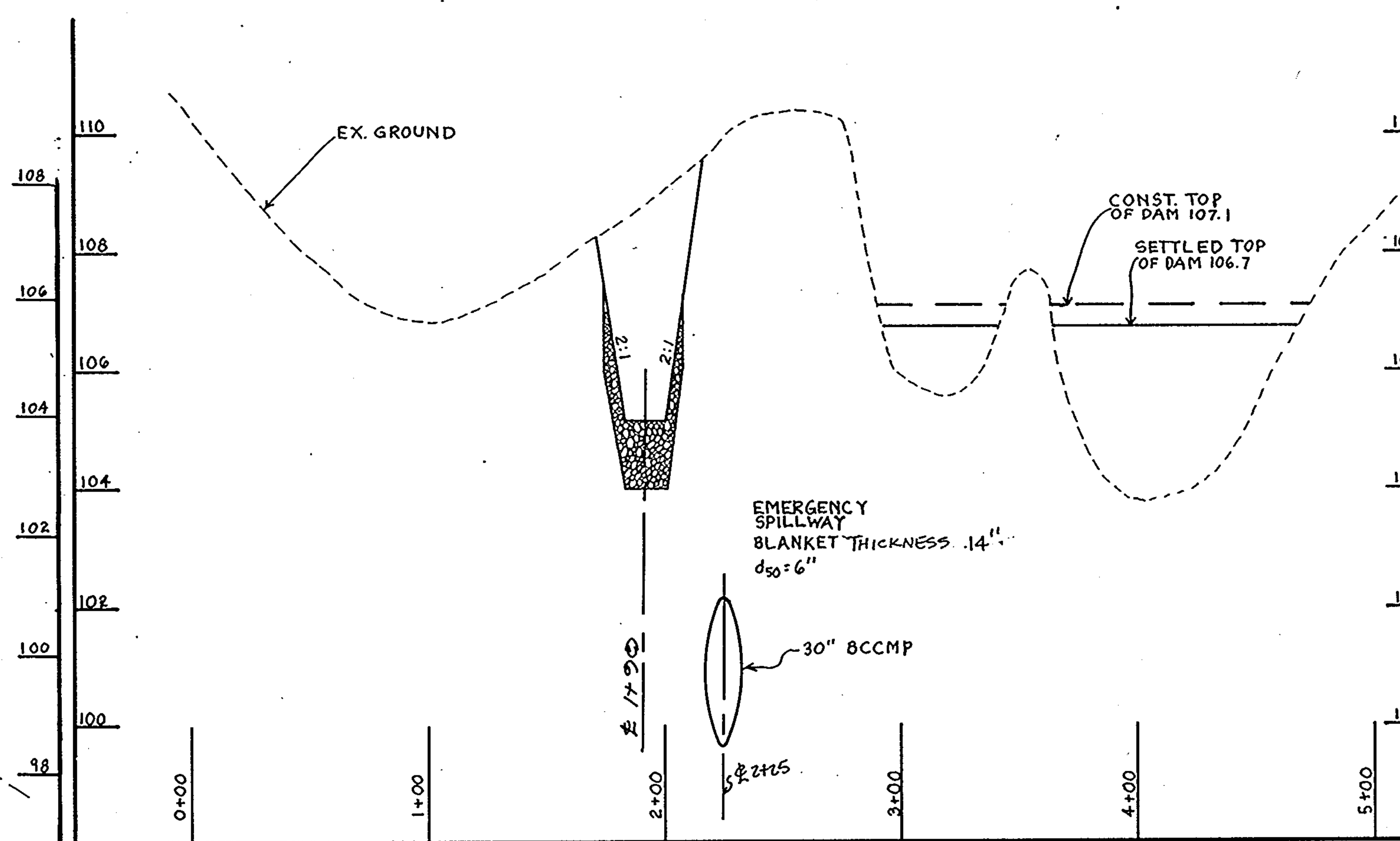
STATE OF MARYLAND — DHARAM V. KAPAHERA — NO. 8813 — REGISTERED PROFESSIONAL ENGINEER

OWNER / DEVELOPER
HI-TECH VENTURE LIMITED PARTNERSHIP
7223 PARKWAY DRIVE
HANOVER, MARYLAND 21076
(301) 796 - 4446



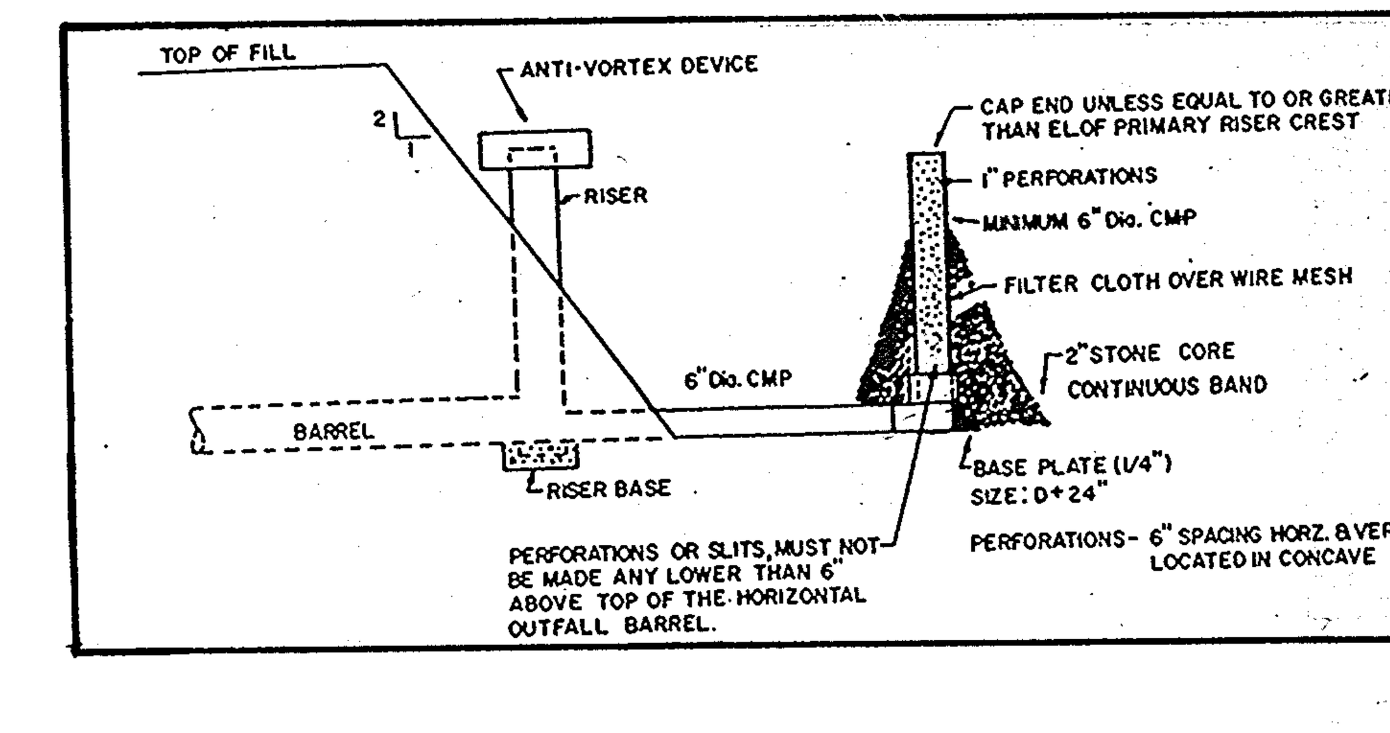
CROSS-SECTION THRU DAM NO. 2

Scale: Horizontal = 1" = 10'
Vertical = 1" = 2'



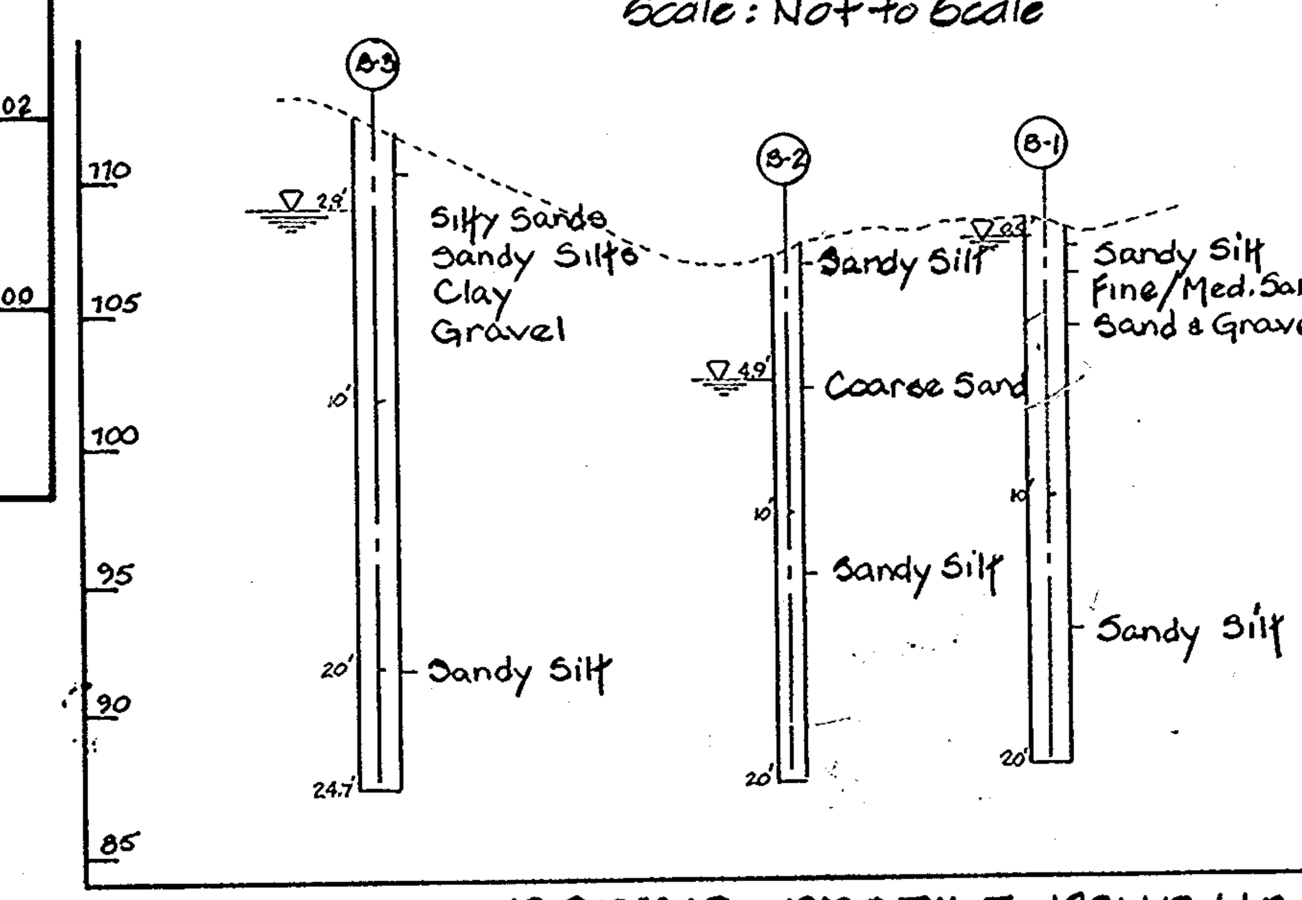
PROFILE ALONG DAM NO. 2

SCALE: HOR. 1"-50'
VER. 1"-2'



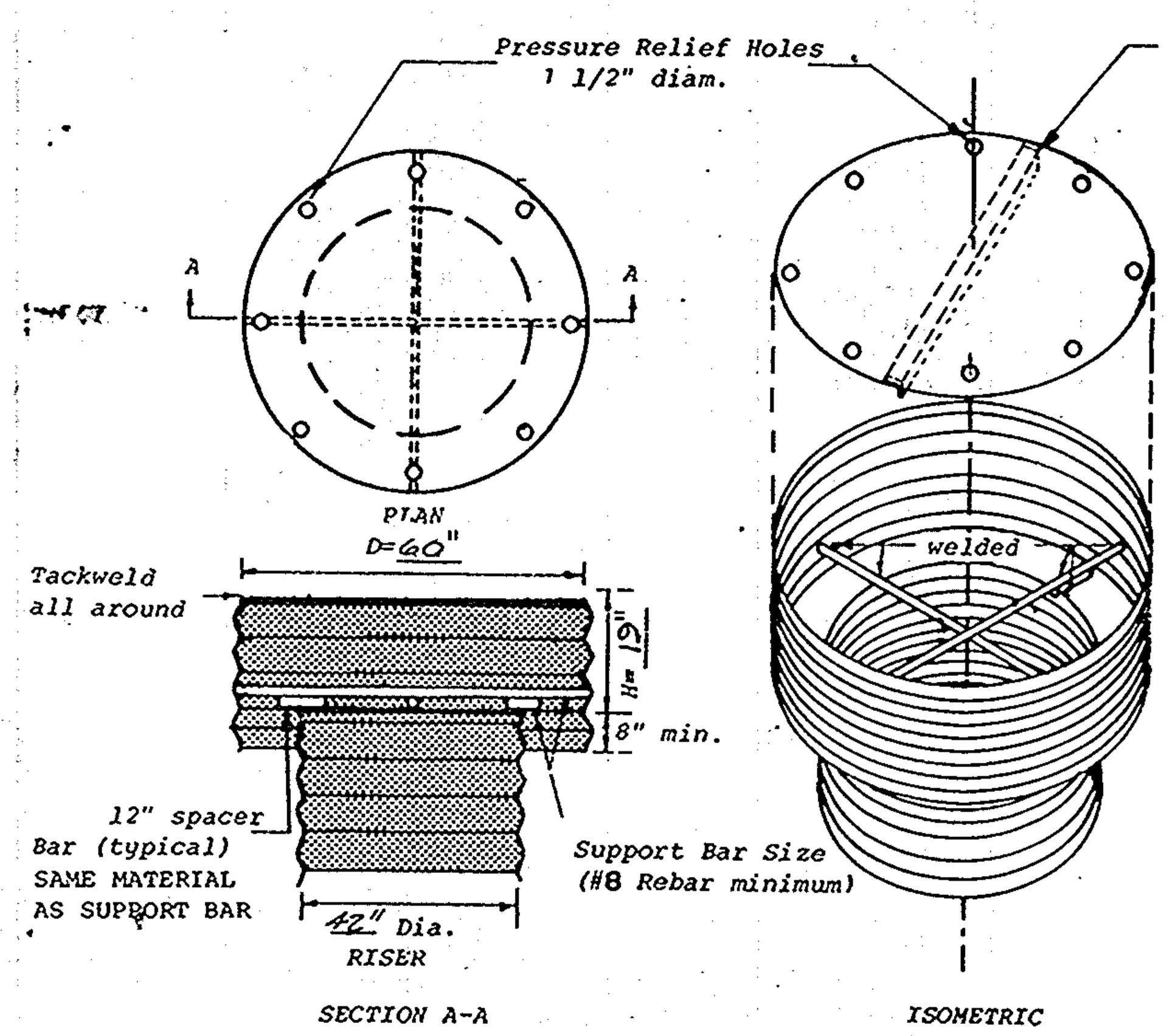
SEDIMENT BASIN DEWATERING DEVICE WITH 6" PERFORATED RISER POND NO. 2

Scale: Not to Scale



BORING PROFILE POND NO. 2

NOT TO SCALE



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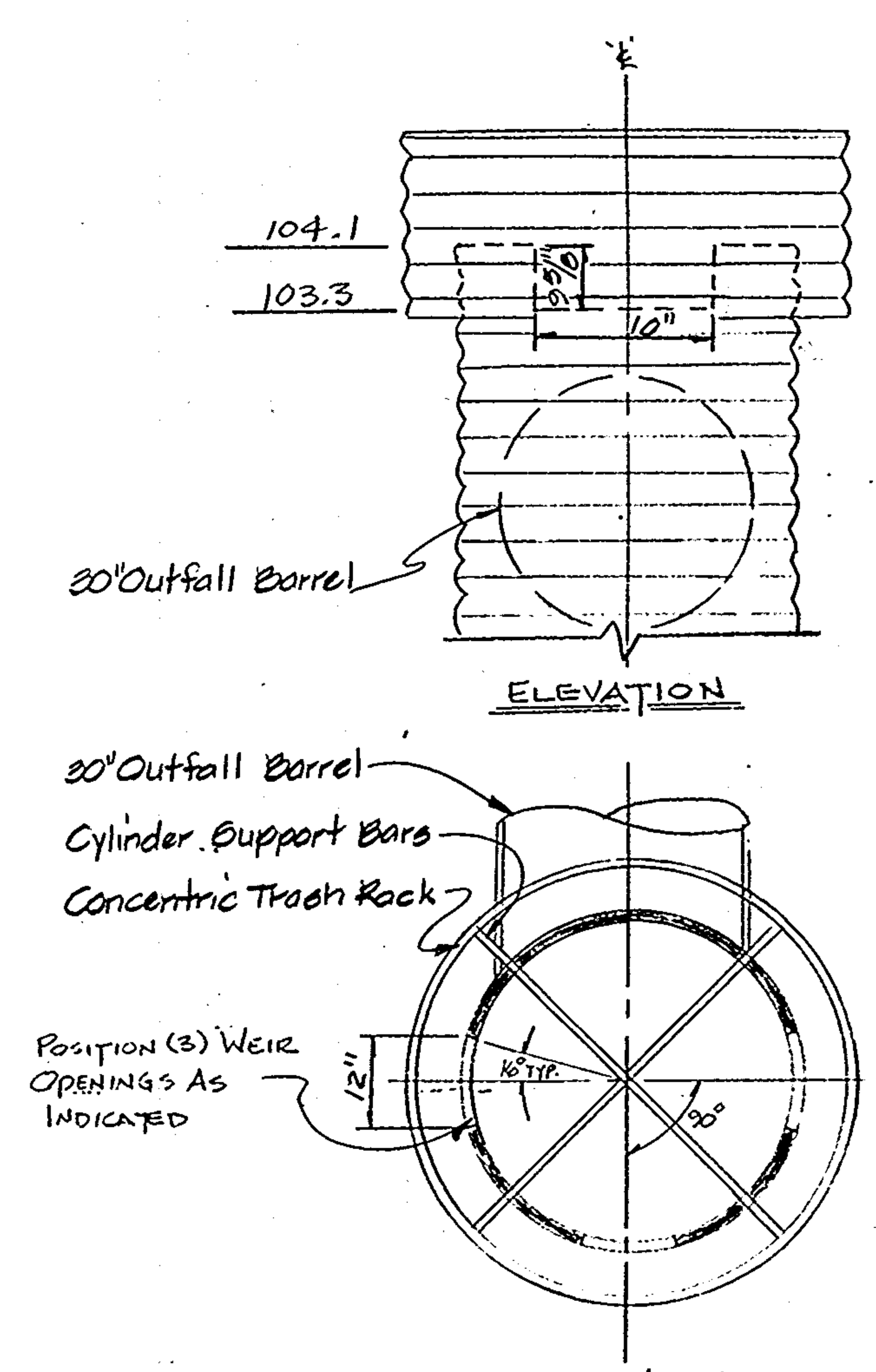
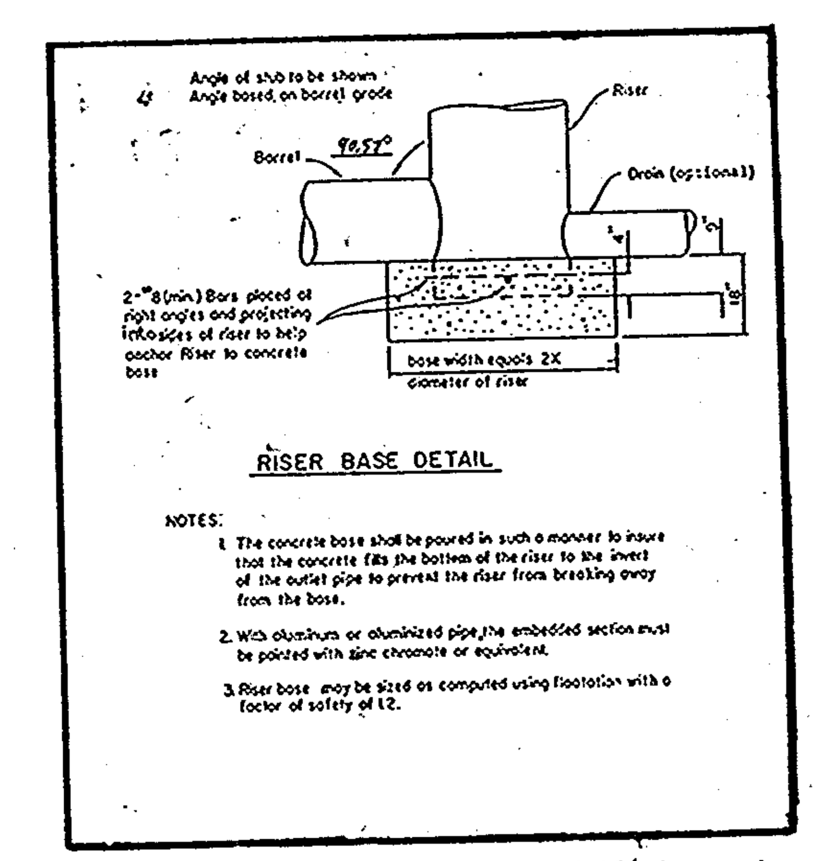
CONCENTRIC TRASH RACK AND ANTI-VORTEX DEVICE POND NO. 2

Not to Scale



MODIFIED RISER DETAIL POND NO. 2

NTS



RISER DETAIL

Not to Scale

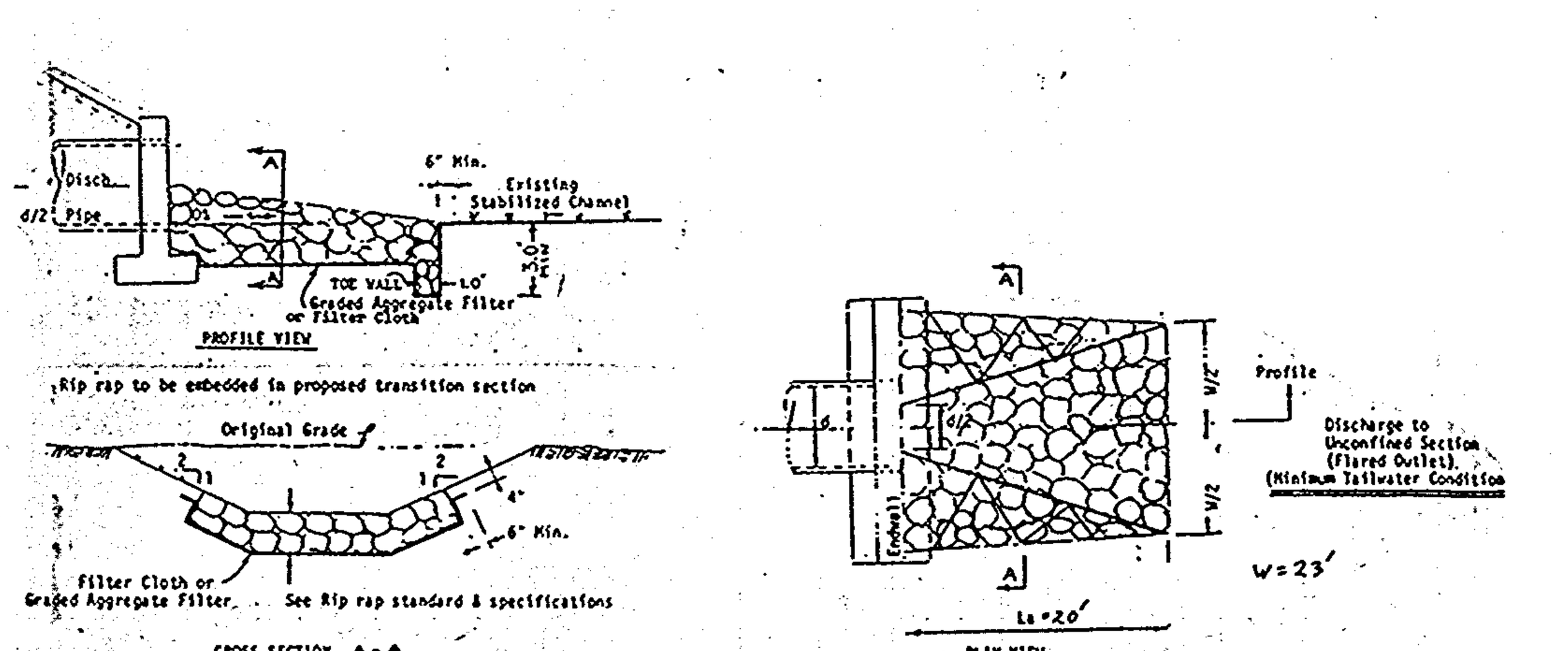
Howard County Signiture Block

APPROVED
DIVISION of COMMUNITY PLANNING & LAND DEVELOPMENT
HOWARD COUNTY, MARYLAND
DATE ____________

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS. HOWARD COUNTY HEALTH DEPARTMENT
COUNTY HEALTH OFFICER — DATE 3-21-90

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
DIRECTOR — DATE 4.2.90
CHIEF DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT — DATE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DIRECTOR — DATE 3/20/90
CHIEF BUREAU OF ENGINEERING — DATE 3.2.90



d_{50} = 8"
Blanket thickness = 20"
Vmax. = 5.0 fps
Q_{100} = 27.7 cfs
b = 3.5'
n = 0.039
Channel slope = 5.7%

Not to Scale

REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.

U.S. Soil Conservation Service — Date 2-13-90

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

Howard Soil Conservation District — Date 2-13-90

SEDIMENT CONTROL & POND CONSTRUCTION

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Signature of Developer — Date 1/23/90
Print name below signature

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Signature of Engineer — Date 2/1/90
Print name below signature
DHARAM V. KATHURIA

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U.S. Soil Conservation Service — Date 2-13-90

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Howard Soil Conservation District — Date 2-13-90

DEVELOPER'S CERTIFICATE.

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SIGNATURE OF DEVELOPER — DATE 1/23/90

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SIGNATURE OF ENGINEER — DATE 2/1/90

SITE DEVELOPMENT PLAN FOR GRADING AND STORMWATER MANAGEMENT

DESIGNED ______ DATE				
DRAWN RMC/SGP DATE 5/89				
CHECKED ______ DATE				
APPROVED ______ DATE				

REVISIONS

DATE	BY	DESCRIPTION

ENGINEERING TECHNOLOGIES ASSOCIATES, INC.

ENGINEERS, PLANNERS, SURVEYORS
3458 ELLICOTT CENTER DRIVE SUITE 101
ELLICOTT CITY, MD. 21043
(301) 461 - 9920

STATE OF MARYLAND — DHARAM V. KATHURIA — REGISTERED PROFESSIONAL ENGINEER

OWNER / DEVELOPER

HI-TECH VENTURE LIMITED PARTNERSHIP
7223 PARKWAY DRIVE
HANOVER, MARYLAND 21076
(301) 796-4446

PARCEL "G" INTERIM POND NO. 2 DETAILS

PARKWAY CENTER SECTION I

PARCELS 'E', 'F', and 'G' AND OUT PARCEL (1565/469)

1st. ELECTION DISTRICT — TM 38 & 44 — HOWARD COUNTY, MARYLAND

SCALE: AS SHOWN — CONTRACT NO. — DATE: 5/89 — SHEET: 6 OF 8

SDP-89-275

SOIL CONSERVATION SERVICE MARYLAND
CONSTRUCTION SPECIFICATIONS FOR PONDS

These specifications are appropriate to ponds within the scope of the Standard for practice 378.

I. SITE PREPARATION

Areas designated for borrow areas, embankment, and structural works shall be cleared, grubbed and stripped of topsoil. All trees, vegetation, roots and other objectionable material shall be removed. Channel banks and sharp breaks shall be sloped to no steeper than 1:1.

Areas to be covered by the pond or reservoir will be cleared of all trees, brush, logs, fences, rubbish and other objectionable material unless otherwise designated on the plans. Trees, brush and stumps shall be cut approximately level with the ground surface.

All cleared and grubbed material shall be disposed of outside and below the limits of the dam and reservoir as directed by the owner or his representative. When specified, a sufficient quantity of topsoil will be stockpiled in a suitable location for use on the embankment and other designated areas.

II. EARTH FILL

Material

The fill material shall be taken from approved designated borrow area or areas. It shall be free of roots, stumps, wood, rubbish, oversize 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 above the design elevation (including freeboard) as shown on the plans.

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 such that the required degree of compaction can be obtained with the equipment used.

Where a minimum required density is specified, each layer of fill shall be compacted as necessary to obtain that density and is to be certified by the Engineer.

Cutoff Trench

Where specified, a cutoff 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 as shown on the drawings, with the minimum width being four feet. The depth shall be at least four feet or as shown on the plans. The side slopes of the trench shall be 1 to 1 or flatter. The backfill material for the cutoff trench shall be the most impervious material available and shall be compacted with equipment or rollers to assure maximum density and minimum permeability.

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 four 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 four feet, measured horizontally, to any part of a structure. Under no circumstances shall equipment be driven over any part of a concrete structure or pipe unless there is a compacted fill of twenty-four inches or greater over the structure or pipe.

IV. PIPE CONDUITS

All pipes shall be circular in cross section.

A. Corrugated Metal Pipe

1. Materials - (Steel Pipe) - This pipe and its appurtenances shall be galvanized and fully bituminous coated and shall conform to the requirements of AASHTO Specification M-190 Type A with watertight coupling bands. Any bituminous coating damaged or otherwise removed shall be replaced with cold applied bituminous coating compound.

   Steel pipes with polymeric coatings shall have a minimum coating thickness of 0.01 inch (10 mil) on both sides of the pipe. The following coatings are commercially available: Nexon, Plasti-Cote, Blac-Klad, and Beth-Cu-Loy. Coated corrugated steel pipe shall meet the requirements of AASHTO M-245 and M-246.

   Materials - (Aluminized Steel Pipe) - This pipe and its appurtenances shall conform to the requirements of AASHTO Specification M-274-79I with watertight coupling bands or flanges.

   Materials - (Aluminum Pipe) - This pipe and its appurtenances shall conform to the requirements of AASHTO Specification M-196 or M-211 with watertight coupling bands or flanges. Coupling bands, anti-seep collars, end sections, etc. must be composed of the same material as the pipe. Metals must be insulated from dissimilar materials with use of rubber or plastic insulating materials at least 24 mils in thickness. Aluminum surfaces that are to be in contact with concrete shall be painted with one coat of zinc chromate primer. Hot dip galvanized bolts may be used for connections. The pH of the surrounding soils shall be less than 9 and greater than 4.

2. Connections - All connections with pipes must be completely watertight. The drain pipe or barrel connection to the riser shall be welded all around when the pipe and riser are metal. Watertight coupling bands or flanges shall be used at all joints. Anti-seep collars shall be connected to the pipe in such a manner as to the completely watertight. Dimple bands are not considered to be 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.

B. Reinforced Concrete Pipe

1. Materials - Reinforced concrete pipe shall have a rubber gasket joint and shall equal or exceed ASTM Specification C-361. An approved equivalent is AWWA Specification C-301.

2. Bedding - All reinforced concrete pipe conduits shall be laid in a concrete bedding for their entire length. This bedding shall consist of high slump concrete placed under the pipe and up the sides of the pipe at least 10% of its outside diameter with a minimum thickness of 3", or as shown on the drawings.

3. Laying pipe - Bell and spigot pipe shall be placed with the bell end upstream. Joints shall be made in accordance with recommendations of the manufacturer of the material. After the joints are sealed for the entire line, the bedding shall be placed so that all spaces under the pipe are filled. Care shall be exercised to prevent any deviation from the original line and grade of the pipe.

4. Backfilling shall conform to structural backfill as shown above.

5. Other details (anti-seep collars, valves, etc.) shall be as shown on the drawings.

C. For pipes of other materials, specific specifications shall be shown on the drawings.

V. CONCRETE

1. Materials

   a. Cement - Normal Portland cement shall conform to the latest ASTM Specification C-150.

   b. Water - The water used in concrete shall be clean, free from oil, acid, alkali, scales, organic matter or other objectionable substances.

   c. Sand - The sand used in concrete shall be clean, hard, strong and durable, and shall be well graded with 100 percent passing a one-quarter inch sieve. Limestone sand shall not be used.

   d. Coarse Aggregate - The coarse aggregate shall be clean, hard, strong and durable, and free from clay or dirt. It shall be well graded with a maximum size of one and one-half (1-1/2) inches.

   e. Reinforcing Steel - The reinforcing steel shall be deformed bars of intermediate grade billet steel or rail steel conforming to ASTM Specification A-615.

2. Design Mix - The concrete shall be mixed in the following proportions, measured by weight. The water-cement ratio shall be 5-1/2 to 6 U.S. Gallons of water per 94 pound bag of cement. The proportion of materials for the trial mix shall be 1:2:3-1/2. The combination of aggregates may be adjusted to produce a plastic and workable mix that will not produce harshness in placing or honeycombing in the structure.

3. Mixing - The concrete ingredients shall be mixed in batch mixers until the mixture is homogeneous and of uniform consistency. The mixing of each batch shall continue for not less than one and one-half minutes after all the ingredients, except the full amount of water, are in the mixer. The minimum mixing time is predicted on proper control of the speed of rotation of the mixer and of the introduction of the materials, including water, into the mixer. Water shall be added prior to, during, and following the mixer-charging operations. Excessive overmixing requiring the addition of water to preserve the required concrete consistency shall not be permitted. Truck mixing will be allowed provided that the use of this method shall cause no violation of any applicable provisions of the specifications given here.

4. Forms - The forms shall have sufficient strength and rigidity to hold the concrete and to withstand the necessary pressure, tamping, and vibration without deflection from the prescribed lines. They shall be mortar-tight and constructed so that they can be removed without hammering or prying against the concrete.

   The inside of forms shall be oiled with a non-staining mineral oil or thoroughly wetted before concrete is placed.

   Forms may be removed 24 hours after the placement of concrete. All wire ties and other devices used shall be recessed from the surface of the concrete.

5. Reinforcing Steel - All reinforcing material shall be free of dirt, rust, scale, oil, paint or any other coatings. The steel shall be accurately placed and securely tied and blocked into position so that no movement of the steel will occur during placement of concrete.

6. Consolidating - Concrete shall be consolidated with internal type mechanical vibrators. Vibration shall be suplemented by spading and hand tamping as necessary to insure smooth and dense concrete along form surfaces, in corners, and around embedded items.

7. Finishing - Defective concrete, honeycombed areas, voids left by the removal of tie rods, ridges on all concrete surfaces permanently exposed to view or exposed to water on the finished structure, shall be repaired immediately after the removal of forms. All voids shall be reamed and completely filled with dry-patching mortar.

8. Protection and Curing - Exposed surfaces of concrete shall be protected from the direct rays of the sun for at least the first three (3) days. All concrete shall be kept continuously moist for at least ten (10) days after being placed. Moisture may be applied by spraying or sprinkling as necessary to prevent the concrete from drying. Concrete shall not be exposed to freezing during the curing period. Curing compunds may also be used.

9. Placing Temperature - Concrete may not be placed at temperatures below 37° F with the temperature falling, or 34° with the temperature rising.

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, spoil and borrow areas, and berms shall be stabilized by seeding, liming, fertilizing and mulching (if required) in accordance with the vegetative treatment specifications or as shown on the accompanying drawings.

VII. EROSION AND SEDIMENT CONTROL

Construction operations will be carried out in such a manner that erosion will be controlled and water and air pollution minimized. State and local laws concerning pollution abatement will be followed. Construction plans shall detail erosion and sediment control measures to be employed during the construction process.

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 SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY."

SIGNATURE OF DEVELOPER ______ DATE 1/23/90

PERMANENT SEEDING NOTES

Seedbed Preparation: Loosen upper 3 inches of soil by raking, discing or other acceptable means before seeding.

Soil Amendments: Use one of the following schedules:

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 square 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 square ft.)

2) Acceptable - Apply 2 tons per acre dolomitic limestone (92 lbs./1000 square 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 through April 30, and August 1 through October 15, seed with 60 lbs. per acre (1.4 lbs./1000 sq. ft.) of Kentucky 31 Tall Fescue. For the period May 1 through July 31, seed with 60 lbs. Kentucky 31 Tall Fescue per acre and 2 lbs. per acre (.05 lbs./1000 square ft.) of weeping lovegrass. During the period of October 16 through 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

Seedben Preparation: Loosen upper 3 inches of soil by raking, discing or other acceptable means before seeding.

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

Seeding: For periods March 1 through April 30 and from August 15 through November 15, seed with 2½ bu. per acre of annual rye (3.2 lbs./1000 sq. ft.) For the period May 1 through August 14, seed with 3 lbs. per acre of weeping lovegrass (.07 lbs./1000 sq. ft.) For the period November 16 through February 28, protect the 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.

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 disturbed 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, Chaper 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) sod (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: (FOR PARCEL - F)
   - Total Area of Site 9.06 Acres
   - Area Disturbed 9.75 Acres
   - Area to be roofed or paved 0 Acres
   - Area to be vegetatively stabilized 9.75 Acres
   - Total Cut 2,000 Cu. yds
   - Total Fill 85,000 Cu. yds
   - Offsite waste/borrow area location FROM APPROVED SITE BY HSCD

8) Any sediment control practice which is disturbed by grading activity for placement of utilities must be repaired on the same day of disturbance.

9) Additional sediment controls must be provided, if deemed necessary by the Howard County DPW sediment control inspector.

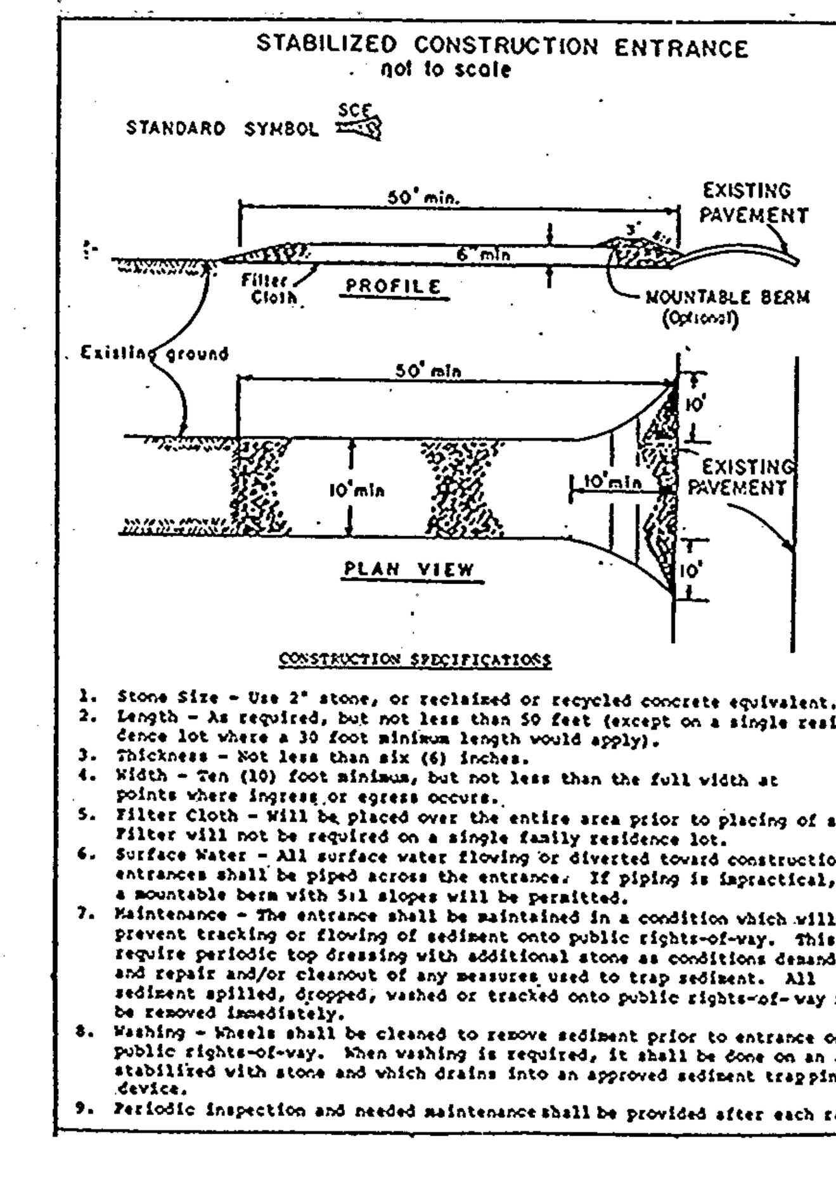
10) On all sites with disturbed areas in excess of 2 acres, approval of the inspection agency shall be requested upon completion of installation of perimeter erosion and sediment controls, but before proceeding with any other earth disturbance or grading. Other building or grading inspection approvals may not be authorized until this initial approval by the inspection agency is made.

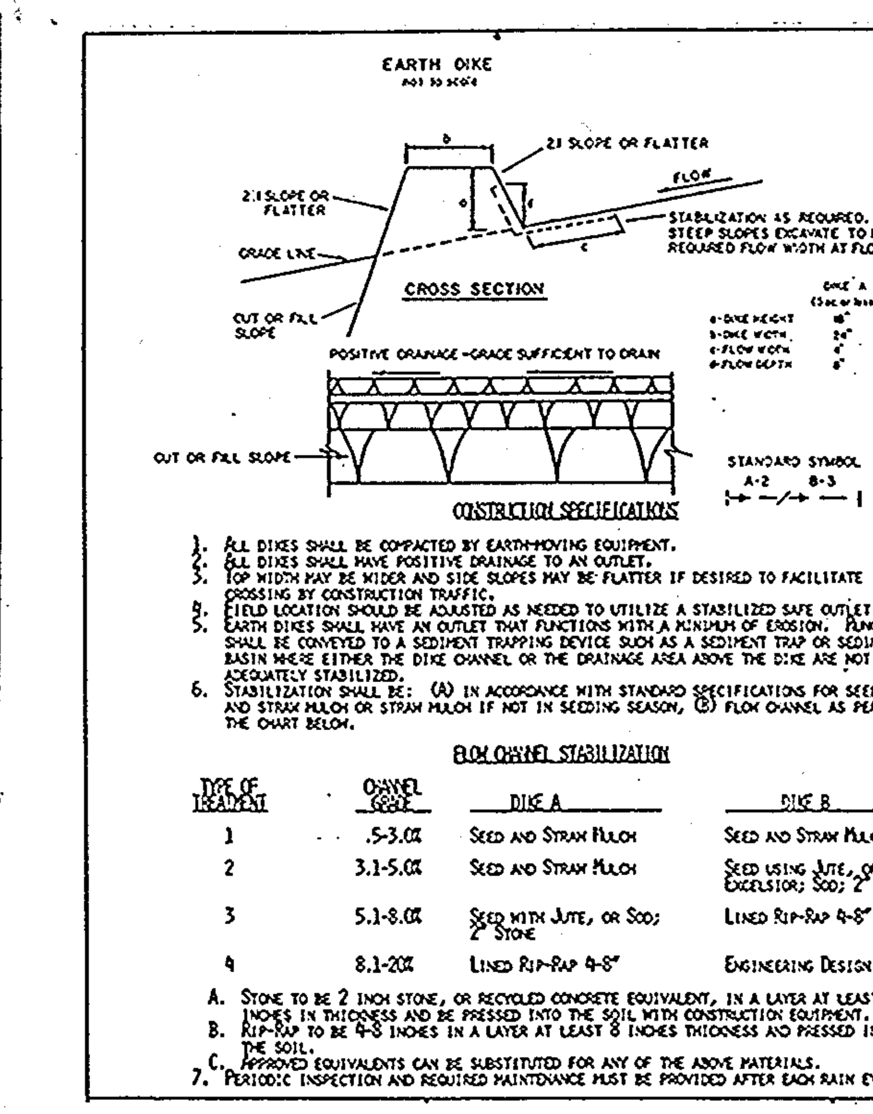
* 7) Site Analysis: (FOR PARCEL - G)
   - Total Area of Site 8.603 Acres
   - Area Disturbed 9.8 Acres
   - Area to be roofed or paved — Acres
   - Area to be vegetatively stabilized 9.8 Acres
   - Total Cut 70,000 Cu. yds
   - Total Fill 18,000 Cu. yds
   - Offsite waste/borrow area location FROM APPROVED SITE BY HSCD

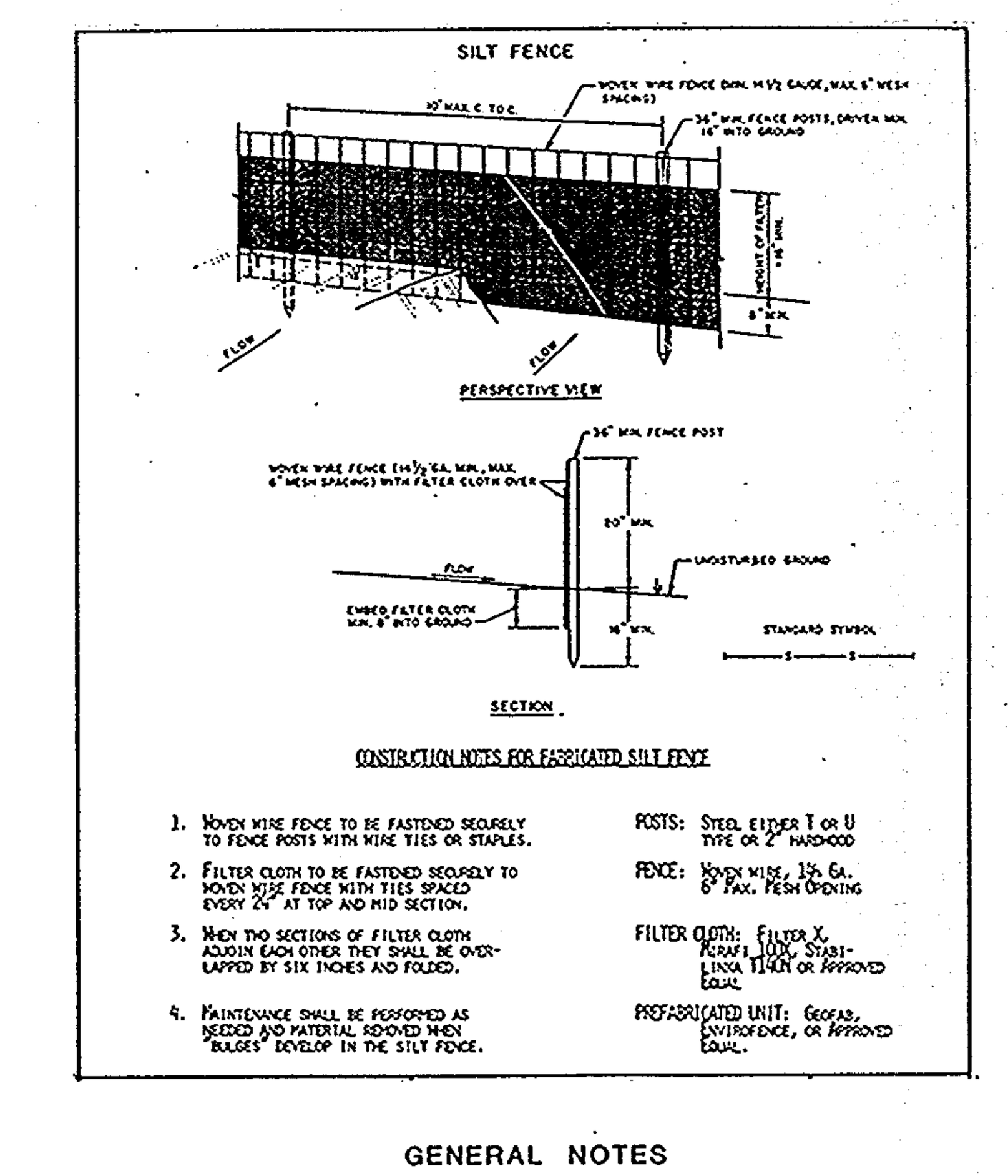
ENGINEER'S CERTIFICATE

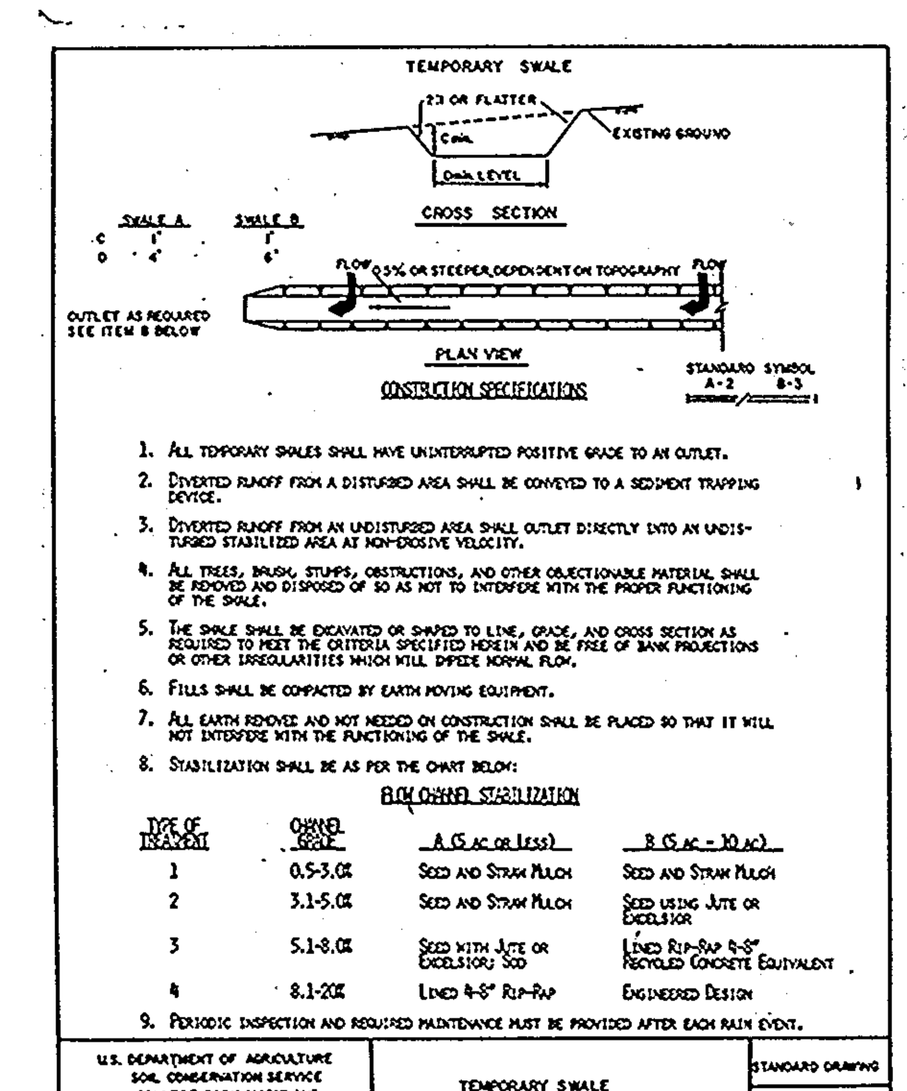
I HEREBY CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

SIGNATURE OF ENGINEER ______ DATE 2/1/90









Howard County Signature Block

APPROVED
DIVISION of
COMMUNITY PLANNING
& LAND DEVELOPMENT
HOWARD COUNTY,
MARYLAND
DATE ______

GENERAL NOTES

(1) ALL WORK SHALL BE DONE IN ACCORDANCE WITH HOWARD COUNTY STANDARDS, SPECIFICATIONS AND DETAILS FOR CONSTRUCTION.

(2) ANY DAMAGE TO PUBLIC RIGHT-OF-WAY, PAVING OR EXISTING UTILITIES WILL BE CORRECTED AT THE EXPENSE OF CONTRACTOR.

(3) ALL UTILITY COMPANIES MUST BE NOTIFIED 24 HOURS IN ADVANCE OF ANY CONSTRUCTION.

(4) THE LAND INCLUDED IN THIS PLAN IS ZONED 'M-2'

(5) THE AREA SHOWN IN THIS SUBMISSION IS LOCATED ON ZONE MAP NO. 38 & 44

(6) TYPE OF SOIL: FALLSINGTON LOAM, SANDY CLAYEY LAND, GRAVEL BORROW PIT

(7) "THE CONTRACTOR OR DEVELOPER SHALL CONTACT THE CONSTRUCTION INSPECTION/SURVEY DIVISION, 24 HOURS IN ADVANCE OF COMMENCEMENT OF WORK, AT 792-7272".

(8) THE LOCATION OF EXISTING UTILITIES IS BASED ON BEST AVAILABLE INFORMATION. THE CONTRACTOR MUST CHECK ALL UTILITIES BY TEST PIT BEFORE START OF CONSTRUCTION.

SEQUENCE OF CONSTRUCTION

1) INSTALL STABILIZED CONSTRUCTION ENTRANCE AS SHOWN.
2) CLEAR MINIMUM AREA REQUIRED TO INSTALL SEDIMENT CONTROL MEASURES.
3) INSTALL ALL SEDIMENT CONTROL DEVICES AND STABILIZE.
4) CONSTRUCT POND 1 & POND 2 FOR SEDIMENT CONTROL PHASE AND STABILIZE.
5 IF ACCEPTABLE MATERIAL CANNOT BE FOUND FOR CONSTRUCTION OF CORE TRENCH, IT WILL NEED TO BE BROUGHT TO SITE.
6 CLEAR AND GRUB REMAINDER OF SITE.
7 GRADE ENTIRE SITE.
8 STABILIZE ALL DISTURBED AREAS.
9) SEDIMENT CONTROLS SHALL REMAIN IN PLACE AND BE ROUTINELY INSPECTED AND REPAIRED AS NECESSARY.

SEDIMENT CONTROL & POND CONSTRUCTION

( ) By the Developer:

"I/We certify that all development and/or construction will be done according to these plans, and that any responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of 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."

Siganture of Developer ______ Date 1/23/90
Print name below signature

( ) By the Engineer:

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

Signature of Engineer ______ Date 2/1/90
Print name below signature
DHARAM V. KATHURIA

( ) 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 2-13-90

( ) 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 2-13-90

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT
COUNTY HEALTH OFFICER ______ DATE 3-21-90

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
DIRECTOR ______ DATE 4.2.90
CHIEF DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT ______ DATE 3/26/90

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DIRECTOR ______ DATE 3/20/90
CHIEF BUREAU OF ENGINEERING ______ DATE 3-2-90

REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.
U.S. Soil Conservation Service ______ Date 2-13-90
THIS DEVELOPMENT IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT
Howard Soil Conservation District ______ Date 2-13-90

DESIGNED	DATE
DRAWN	DATE
CHECKED	DATE
APPROVED	DATE

REVISIONS

DATE	BY	DESCRIPTION

ENGINEERING TECHNOLOGIES ASSOCIATES, INC.

ENGINEERS, PLANNERS, SURVEYORS
3458 ELLICOTT CENTER DRIVE SUITE 101
ELLICOTT CITY, MD. 21043
(301) 461-9920

STATE OF MARYLAND — DHARAM V. KATHURIA — NO. 8818 — REGISTERED PROFESSIONAL ENGINEER

OWNER / DEVELOPER
HI TECH VENTURE LIMITED PARTNERSHIP
7223 PARKWAY DRIVE
HANOVER, MARYLAND 21076
(301) 796-4446

STANDARD NOTES AND DETAILS

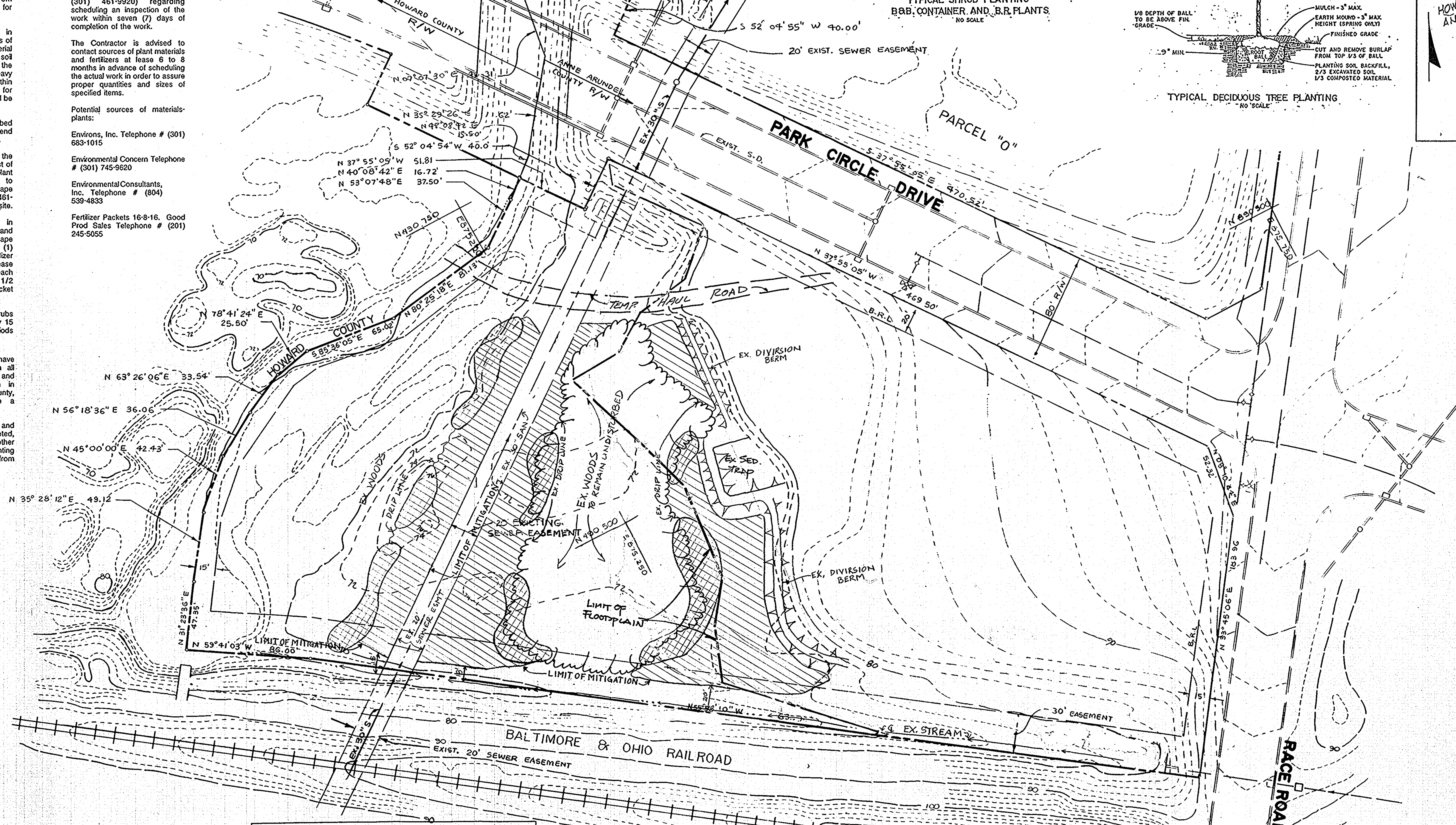
PARKWAY CENTER SECTION I

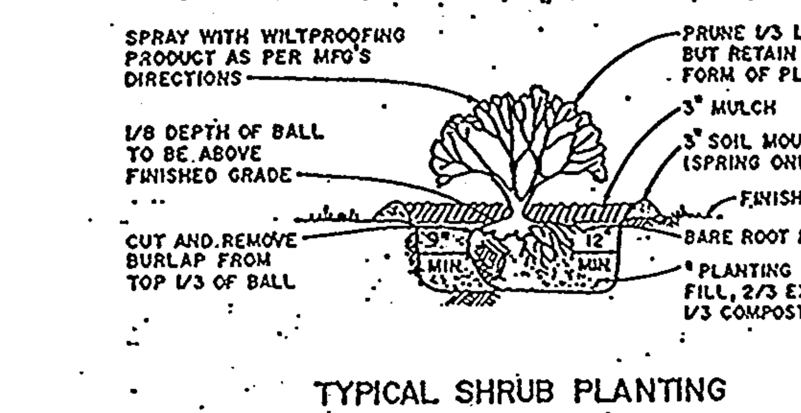
PARCELS 'E','F', and 'G'
AND OUT PARCEL (1565/469)

1st. ELECTION DISTRICT TM 38 & 44 HOWARD COUNTY, MARYLAND

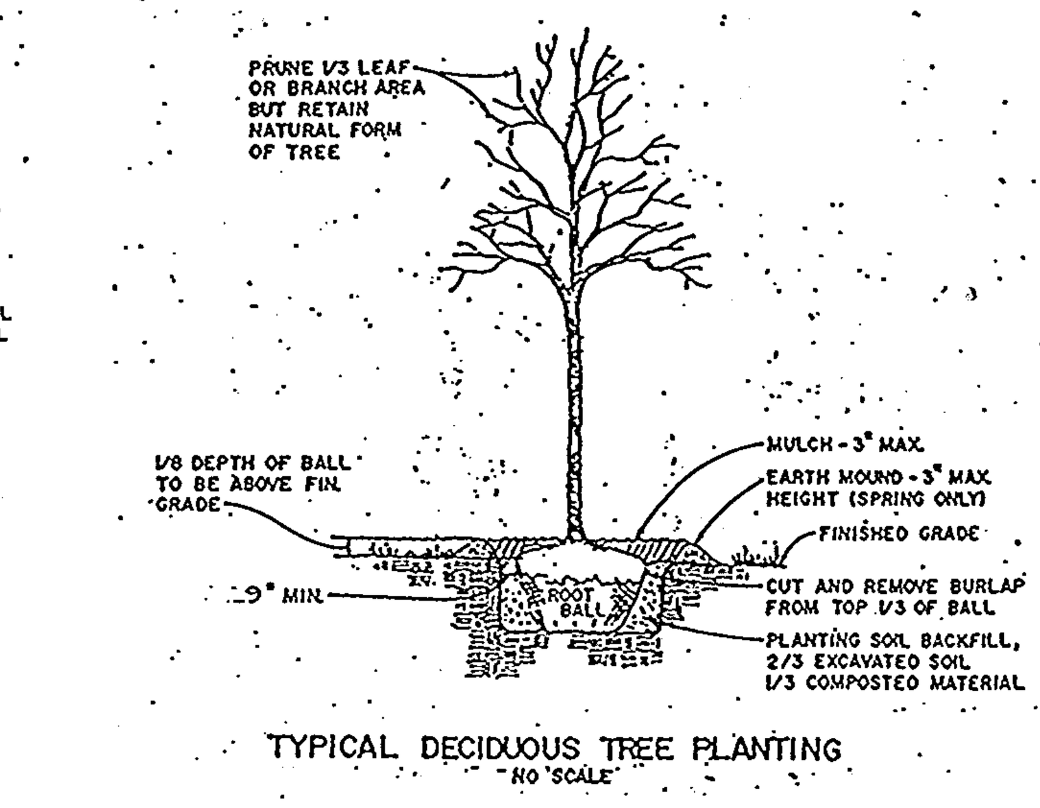
SCALE: AS SHOWN | CONTRACT NO. | DATE: 5/89 | SHEET: 7 OF 8

SDP-89-275

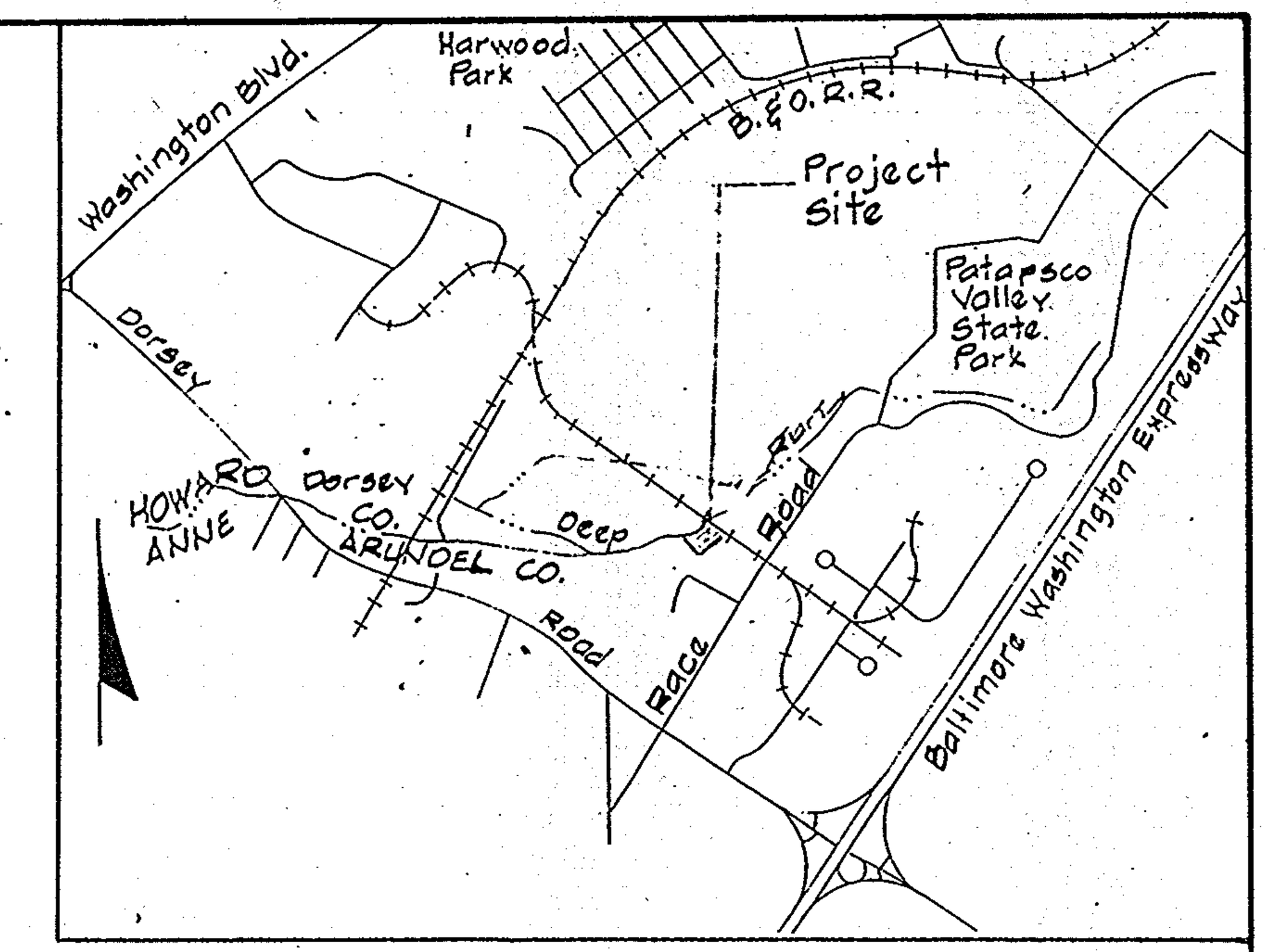




TYPICAL SHRUB PLANTING
B&B, CONTAINER AND B.R. PLANTS
NO SCALE



TYPICAL DECIDUOUS TREE PLANTING
NO SCALE



VICINITY MAP
Scale: 1" = 2,000'

SEQUENCE OF OPERATIONS

1. Remove all concrete and bituminous spoil, timber, metal, wires and/or other miscellaneous debris over six (6) inches from within the areas designated for tree and shrub planting.
2. Areas requiring excavation in order to remove large masses of concrete or bituminous material shall be properly refilled with soil and smoothed to blend with the adjacent surface. No heavy equipment will be permitted within the areas designated for mitigation. All excavation shall be done using hand tools.
3. Lightly compact all disturbed areas and rake smoothly to blend with adjacent ground surface.
4. The Contractor shall provide the Landscape Architect with a list of plant material sources. All plant materials shall be subject to inspection by the landscape Architect (Telephone # (301) 461-9920) prior to delivery to the site.
5. Plant trees and shrubs in accordance with the details and as directed by the Landscape Architect. Provide one (1) "UNIQUE" slow release fertilizer packet 16-8-16 (effective release time 8 years) at the side of each root ball when the pit is 1/2 backfilled. Do not place packet against root ball.
6. Plant all trees and shrubs between October 1 and May 15 only. Do not plant during periods of freezing temperatures.
7. After all trees and shrubs have been planted, rake smooth all areas disturbed by planting and fertilize, seed, and mulch in accordance with Howard County, SCD requirements. Use a cyclone seeder.
8. When all planting, seeding and mulching has been completed, remove all excess plants or other debris resulting from planting and/or seeding operations from the site.
9. Notify the Landscape Architect at Engineering Technologies Associates, Inc. (Telephone # (301) 461-9920) regarding scheduling an inspection of the work within seven (7) days of completion of the work.

The Contractor is advised to contact sources of plant materials and fertilizers at lease 6 to 8 months in advance of scheduling the actual work in order to assure proper quantities and sizes of specified items.

Potential sources of materials-plants:

Environs, Inc. Telephone # (301) 683-1015

Environmental Concern Telephone # (301) 745-9620

Environmental Consultants, Inc. Telephone # (804) 539-4833

Fertilizer Packets 16-8-16. Good Prod Sales Telephone # (201) 245-5055

NOTES:

1. PREDOMINANT EXISTIG DECIDUOUS TREES AND SHRUBS OBSERVED DURING SITE INSPECTION ON 11/6/89

TREES	SHRUBS
RIVER BIRCH	EUROPEAN BLACK ALDER
RED MAPLE	ARROWWOOD
SYCAMORE	SILKY DOGWOOD
PIN OAK	
SWEETGUM	

2. PROPOSED PLANTS FOR MITIGATION HAVE BEEN SELECTED BASED ON COMPATIBILITY WITH EXISTING SOIL MOISTURE CONDITIONS AS WELL AS EXISTING VEGETATION.
3. ALL PROPOSED PLANT MATERIALS SHALL HAVE BEEN GROWN IN WET CULTURED CONDITIONS.
4. PRIOR TO BEGINNING ANY PLANTING OPERATIONS, THE AREAS SHALL BE CLEARED OF ALL CONCRETE, TIMBER AND OTHER DEBRIS.
5. PREDOMINANT SOIL TYPE IS Ha (HATBORO SILT/loam)
6. NO GRADING SHALL BE DONE WITHIN THE AREAS DESIGNATED FOR MITIGATION OTHER THAN THE SMOOTHING OF DISTURBED AREAS BY THE USE OF HANDTOOLS.

LEGEND

DECIDUOUS TREES
(PLANTED RANDOMLY 10' O.C.)

RED MAPLE	5'-6' HT.	35%	(76 REQ'D B&B)
RIVER BIRCH	5'-6' HT.	25%	(54 REQ'D B&B)
SWEETGUM	5'-6' HT.	20%	(44 REQ'D B&B)
SYCAMORE	5'-6' HT.	20%	(43 REQ'D B&B)

DECIDUOUS SHRUBS
(PLANTED IN MIXED GROUPS OF 6-10)

ARROW WOOD	3'-4' HT.	20%	(48 REQ'D B&B)
SILKY DOGWOOD	3'-4' HT.	25%	(60 REQ'D B&B)
HAZEL ALDER	3'-4' HT.	30%	(72 REQ'D B&B)
NANNYBERRY	3'-4' HT.	25%	(60 REQ'D B&B)

±0.69 ACRES FOR MITIGATION

LEGEND

- EXISTING GROUND
- PROPOSED GRADES FOR BERM FOR INSIDE SLOPE
- ULTIMATE FILL GRADES
- SILT FENCE
- EARTH DIKE
- CONSTRUCTION ENTRANCE
- TEMPORARY SWALE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT
COUNTY HEALTH OFFICER — 3-21-90 DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
DIRECTOR — 4.2.90 DATE
CHIEF DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT — 3/20/9. DATE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DIRECTOR — 3/20/90 DATE
CHIEF BUREAU OF ENGINEERING — 3.2.90 DATE

PLAN
SCALE: 1" = 40'

BENCHMARK DESCRIPTION

B.M. "RACE No. 1" ELEV. 91.00
R.R. SPIKE IN BASE OF C & P POLE
91/2, 130' ± S.W. OF R.R TRACK
CROSSING RACE ROAD.

REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.
U.S. Soil Conservation Service — 2-13-90 Date

THIS DEVELOPMENT IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT
Howard Soil Conservation District — 2-13-90 Date

HOWARD COUNTY SIGNATURE BLOCK

APPROVED
DIVISION of COMMUNITY PLANNING & LAND DEVELOPMENT
HOWARD COUNTY, MARYLAND
DATE

DESIGNED K.E.Mc. 12/89 DATE (WETLAND MITIGATION)
DRAWN S.G.P 2/88 DATE (BASE PLAN)
CHECKED K.E.Mc. DATE
APPROVED DATE

REVISIONS

DATE	BY	DESCRIPTION
12-13-89	K.E.Mc	ADDED PLANTING DETAILS, SEQUENCE OF OPERATIONS AND PLANT QUANTITIES

ENGINEERING TECHNOLOGIES ASSOCIATES, INC.
ENGINEERS, SURVEYORS, CONSTRUCTION MANAGERS.
9051 BALTIMORE NATIONAL PIKE
ELLICOTT CITY, MD. 21043
(301) 461-9920

STATE OF MARYLAND — DHARAM V. KATHURIA — NO. 8818 — REGISTERED PROFESSIONAL ENGINEER

HI-TECH VENTURE LIMITED PARTNERSHIP
OWNER AND DEVELOPER
7223 PARKWAY DRIVE
HANOVER, MARYLAND 21076
(301) 796 4446

MITIGATION PLAN
PARKWAY CENTER SECTION 1
1st ELECTION DISTRICT
ANNE ARUNDEL COUNTY, MARYLAND
TAX MAP 8

SCALE: 1"-40' | CONTRACT NO. | DATE: 11/10/87 | SHEET: 8 OF 8

SDP-89-275

J&J COLUMBIA, MD.