

DRAINAGE AREA MAP
SCALE 1"=200'

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

Name: *Leslie Legum*
Signature of Developer: *Leslie Legum*
Date: *6/10/90*

SPECIFICATIONS AND STAPLING INSTRUCTIONS FOR HIGH VELOCITY CURLEX BLANKETS

Typical Stapling Pattern for High-Velocity Ditches and Slopes

Use 4 staples across at the start of each roll and continue to staple throughout the length of the roll at 2 ft. intervals.

INSTALLATION INSTRUCTIONS
This blanket is designed to withstand high-velocity water movements in ditches and slopes. On ditches, unroll blanket in direction of water flow. When using two blankets side by side in a ditch, do not put the gaps in the center of the ditch - offset by 6 inches or 1 foot. On slopes, start blanket three feet over crest of slope or dig another ditch if specified. May be installed horizontally or vertically, whichever is easier.

STAPLING INSTRUCTIONS
Use 4 staples across at the start of each roll and continue to staple throughout the length of the roll at 2 ft. intervals. In addition to stapling the edges of the blanket at the appropriate interval (see drawing), place staples in the center of the blanket halfway between the color stripes.

PERMANENT SEEDING NOTES

1) **Preparation:** Loosen upper 3 inches of soil by raking, disking or other means immediately after construction of pond.

2) **Seeding:** Apply 2 tons per acre of slow release fertilizer (21 lbs./1000 square ft.) and 2 lbs. per acre of 10-10-10 fertilizer (14 lbs./1000 square ft.) to the soil surface. Disc or disk harrow three times of soil. At time of seeding, apply 2 lbs. per acre of 10-10-10 fertilizer (14 lbs./1000 square ft.) to the soil surface.

3) **Seeding:** Apply 2 tons per acre of slow release fertilizer (21 lbs./1000 square ft.) and 2 lbs. per acre of 10-10-10 fertilizer (14 lbs./1000 square ft.) to the soil surface. Disc or disk harrow three times of soil.

4) **Seeding:** Apply 2 tons per acre of slow release fertilizer (21 lbs./1000 square ft.) and 2 lbs. per acre of 10-10-10 fertilizer (14 lbs./1000 square ft.) to the soil surface. Disc or disk harrow three times of soil.

5) **Seeding:** Apply 2 tons per acre of slow release fertilizer (21 lbs./1000 square ft.) and 2 lbs. per acre of 10-10-10 fertilizer (14 lbs./1000 square ft.) to the soil surface. Disc or disk harrow three times of soil.

6) **Seeding:** Apply 2 tons per acre of slow release fertilizer (21 lbs./1000 square ft.) and 2 lbs. per acre of 10-10-10 fertilizer (14 lbs./1000 square ft.) to the soil surface. Disc or disk harrow three times of soil.

7) **Seeding:** Apply 2 tons per acre of slow release fertilizer (21 lbs./1000 square ft.) and 2 lbs. per acre of 10-10-10 fertilizer (14 lbs./1000 square ft.) to the soil surface. Disc or disk harrow three times of soil.

8) **Seeding:** Apply 2 tons per acre of slow release fertilizer (21 lbs./1000 square ft.) and 2 lbs. per acre of 10-10-10 fertilizer (14 lbs./1000 square ft.) to the soil surface. Disc or disk harrow three times of soil.

9) **Seeding:** Apply 2 tons per acre of slow release fertilizer (21 lbs./1000 square ft.) and 2 lbs. per acre of 10-10-10 fertilizer (14 lbs./1000 square ft.) to the soil surface. Disc or disk harrow three times of soil.

10) **Seeding:** Apply 2 tons per acre of slow release fertilizer (21 lbs./1000 square ft.) and 2 lbs. per acre of 10-10-10 fertilizer (14 lbs./1000 square ft.) to the soil surface. Disc or disk harrow three times of soil.

SEDIMENT CONTROL NOTES

1) A minimum of 24 hours notice must be given to the Howard County Office of Inspection and Permitting 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 STABILIZED CONSTRUCTION ENTRANCE FOR SOIL EROSION AND SEDIMENT CONTROL.

3) Following initial soil disturbance or redistribution, permanent or temporary stabilization shall be completed within 7 calendar days for all permanent stabilization structures, dikes, perimeter slopes and all slopes greater than 3:1, 1:4 degree or 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 Part 1, Chapter 17, 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 STABILIZED CONSTRUCTION ENTRANCE FOR SOIL EROSION AND SEDIMENT CONTROL for permanent seedings (Sec. 31) and (Sec. 34), temporary seedings (Sec. 30) and mulch alone may be used when recommended seeding rates do not allow for proper germination and establishment of grasses.

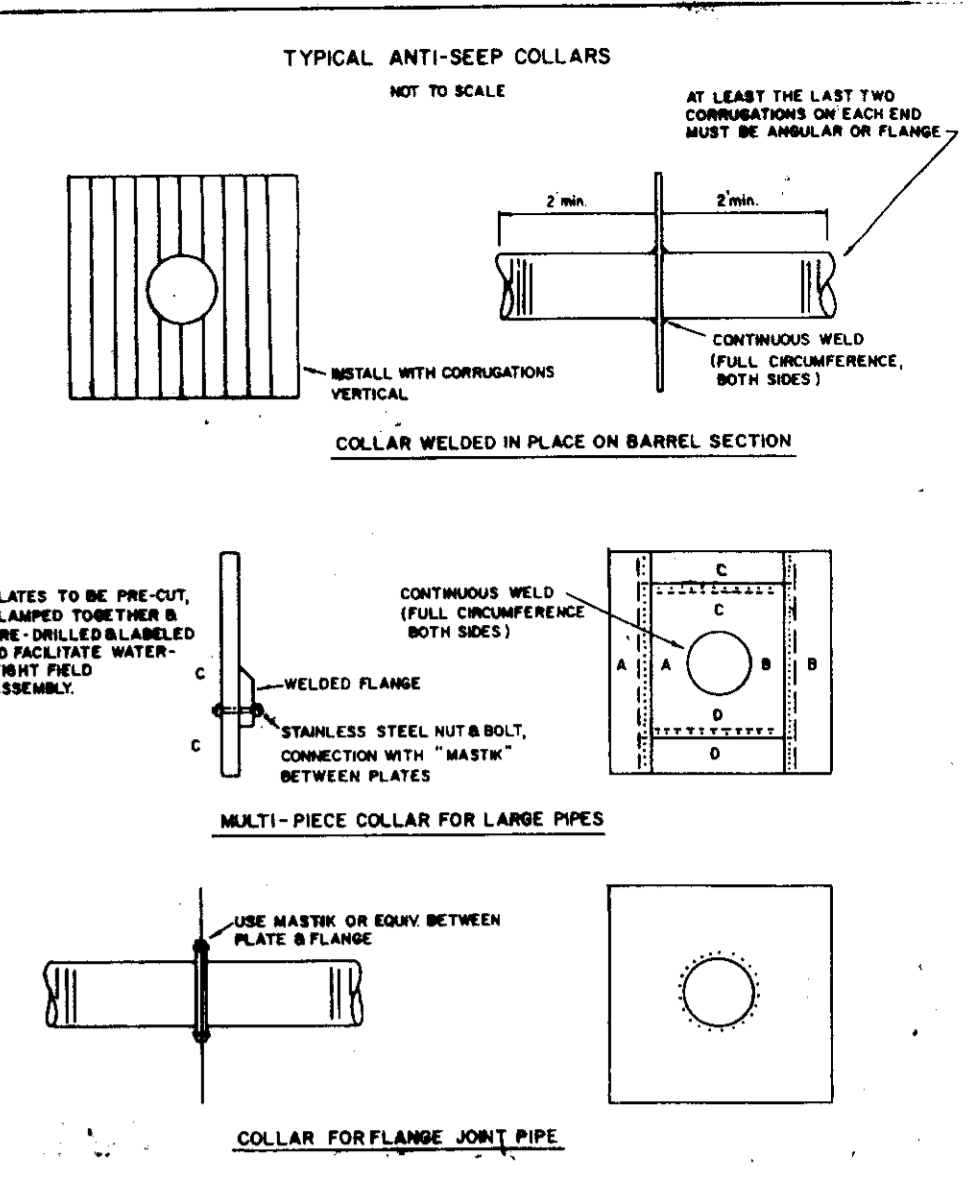
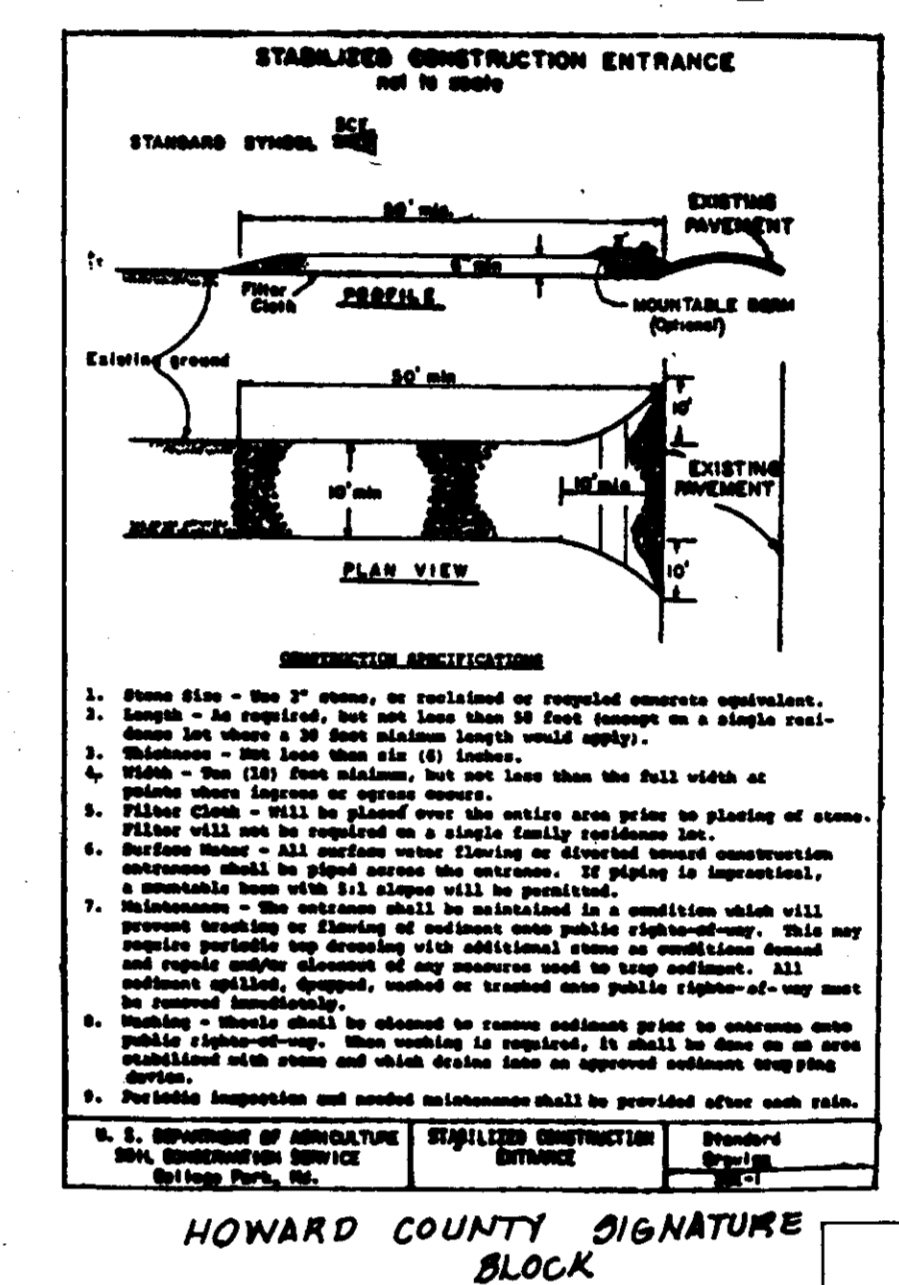
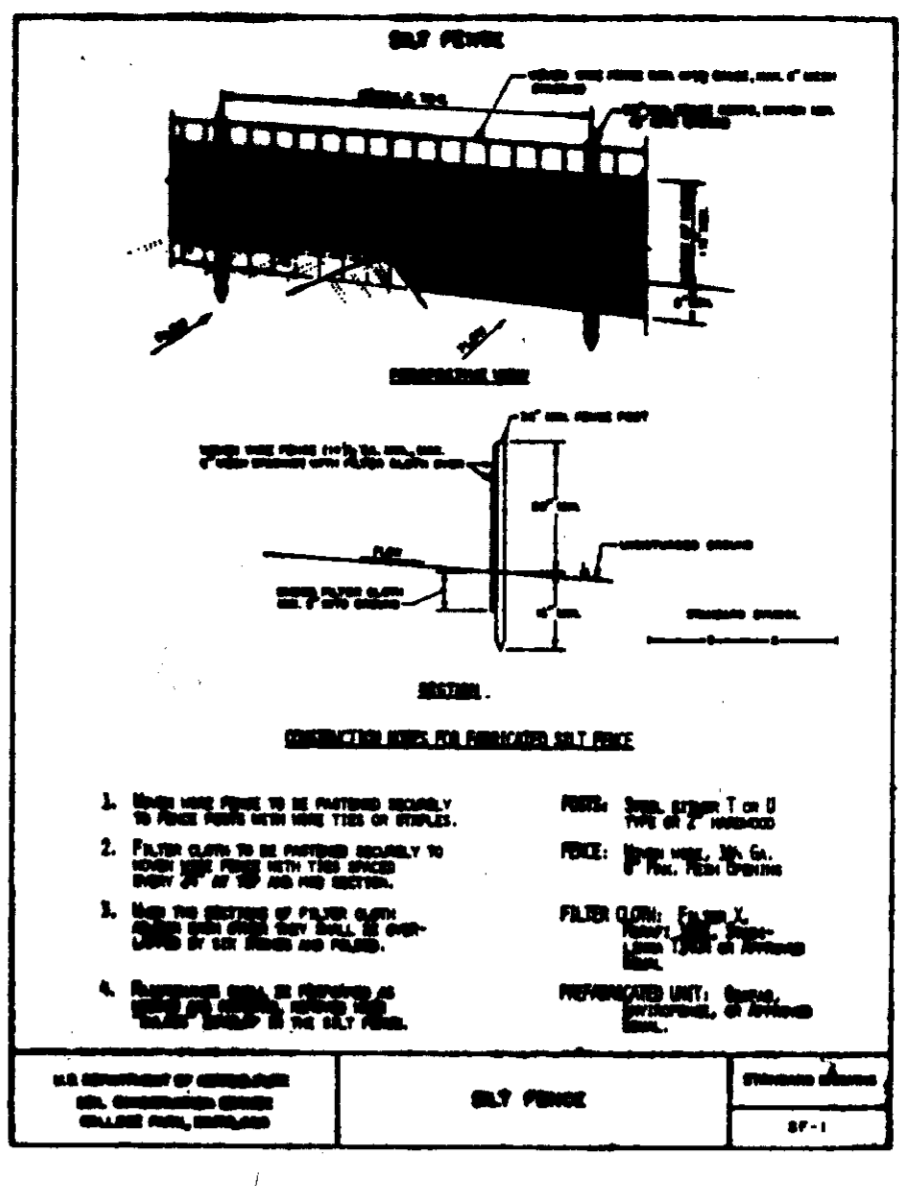
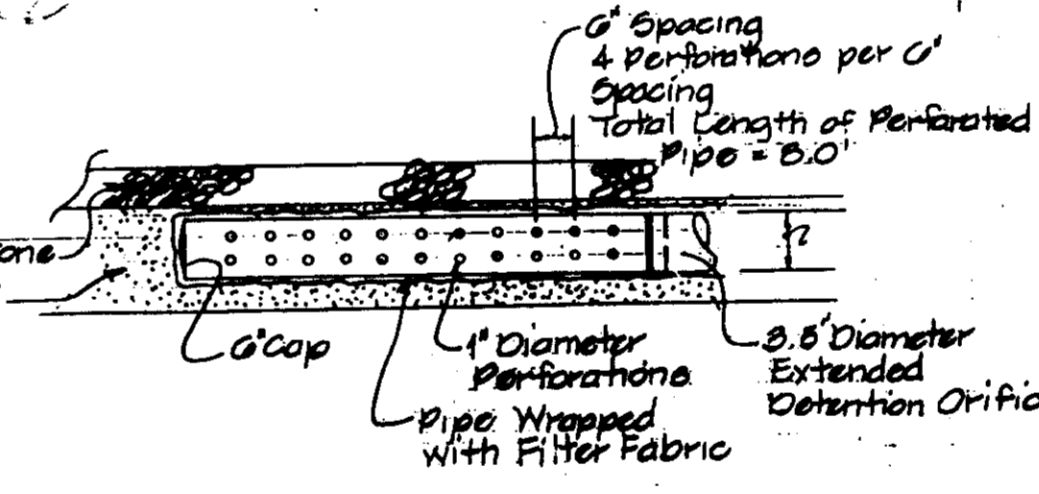
6) All sediment control structures are to remain in place and are to be maintained in operative condition until permitted for their removal has been obtained from the Howard County Department of Inspection and Permitting.

7) **Site Analysis:**
Total Area of Site: 43.36 Acres
Area to be seeded or planted: 0 Acres
Area to be vegetatively stabilized: 17.226 Acres
Total: 17.226 Acres
Parcel L: 18.14 Acres
Off-site waste/borrow area location: PARCEL L

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 DPV 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.



APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT
Signature: *J. J. Zwick*
DATE: *10-17-90*

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING
Signature: *W. J. Zwick*
DATE: *11-4-90*

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
Signature: *W. J. Zwick*
DATE: *10-17-90*

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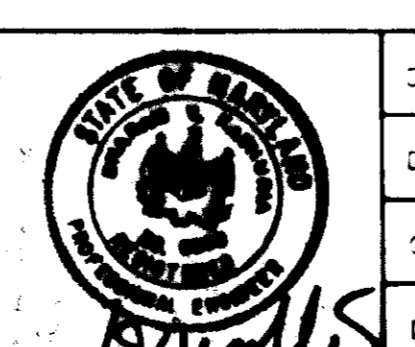
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ENGINEERING TECHNOLOGIES ASSOCIATES, INC.
ENGINEERS, SURVEYORS, CONSTRUCTION MANAGERS.
3468 ELLICOTT CENTER DRIVE
ELLICOTT CITY, MD. 21043
(301) 461-9920



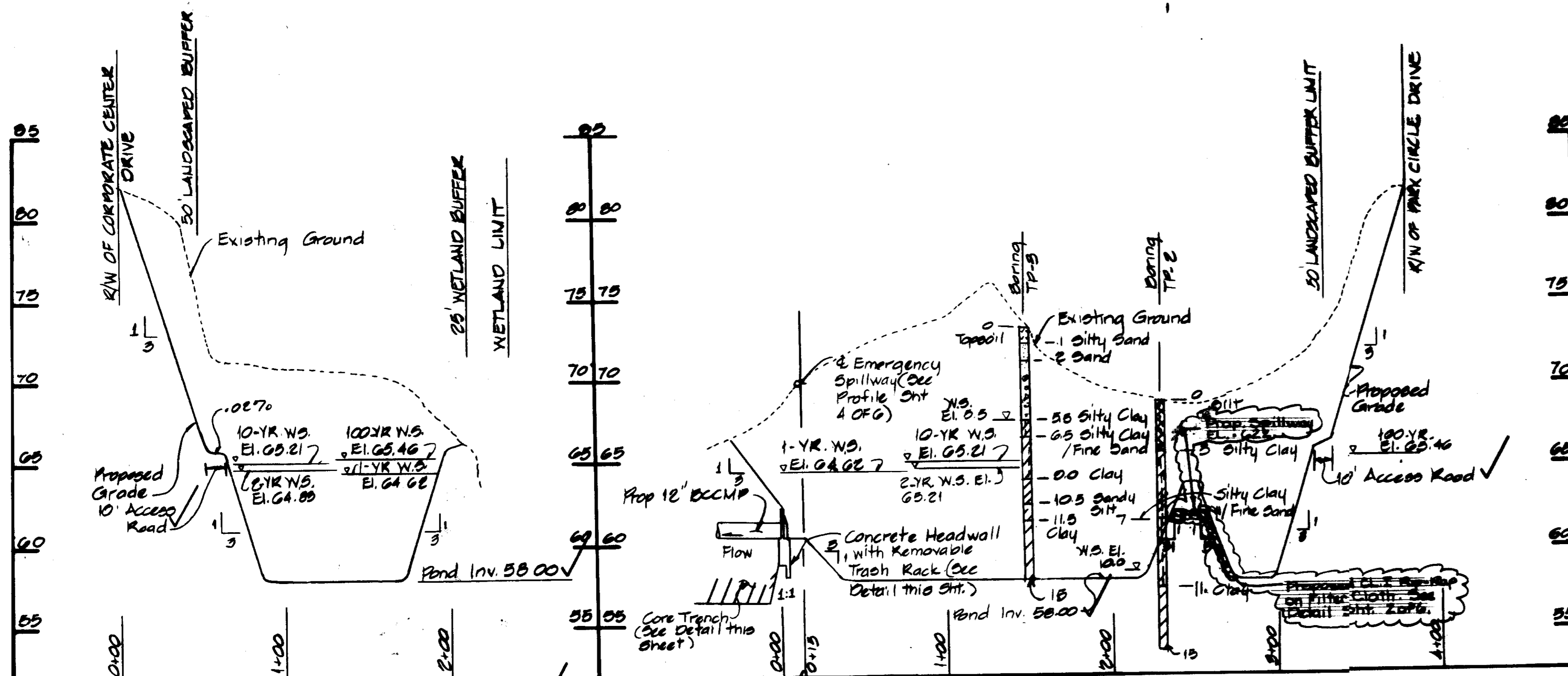
DES: RJA	DATE: 9/1/90	BY: MCR	NO: As-Built	REVISION: 0-244	DATE: 6-24-90
DRN: OBP					
CHK: RJ					

HI-TECH VENTURE LIMITED PARTNERSHIP
OWNER AND DEVELOPER
7223 PARKWAY DRIVE
HANOVER, MARYLAND 21076
(301) 798-4448

DRAINAGE AREA MAP AND DETAILS SHEET 3 OF 6

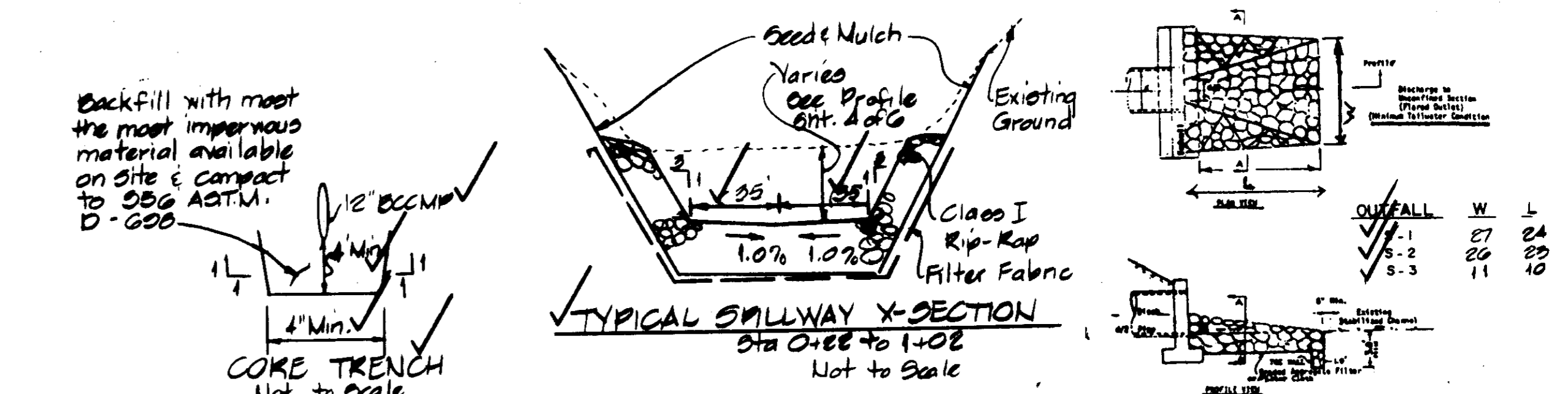
PARKWAY CENTER SECTION I
SITE DEVELOPMENT PLAN
PARCELS L&M
REVISED STORM WATER MANAGEMENT PLAN
POND #2
FIRST ELECTION DISTRICT HOWARD COUNTY, MARYLAND

AS-BUILT 609-90-82



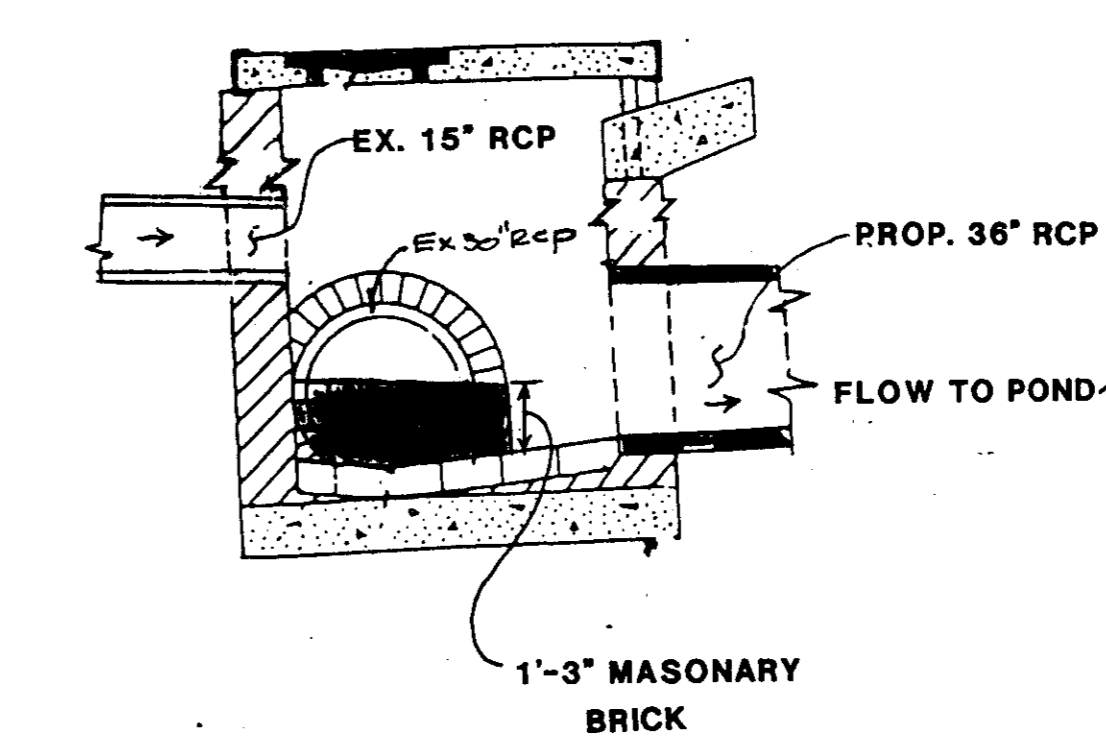
PROFILE A-A ALONG E OF POND
Scale: 1" = 50' Horizontal
1" = 5' Vertical

LONGITUDINAL PROFILE B-B ALONG E OF POND
Scale: 1" = 50' Horizontal
1" = 5' Vertical

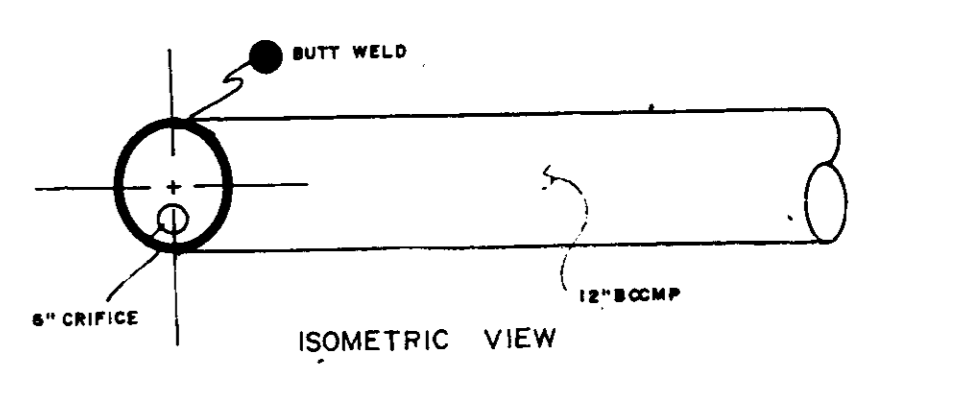


TYPICAL SPILLWAY X-SECTION
Sta. 0+00 to 1+00
Not to Scale

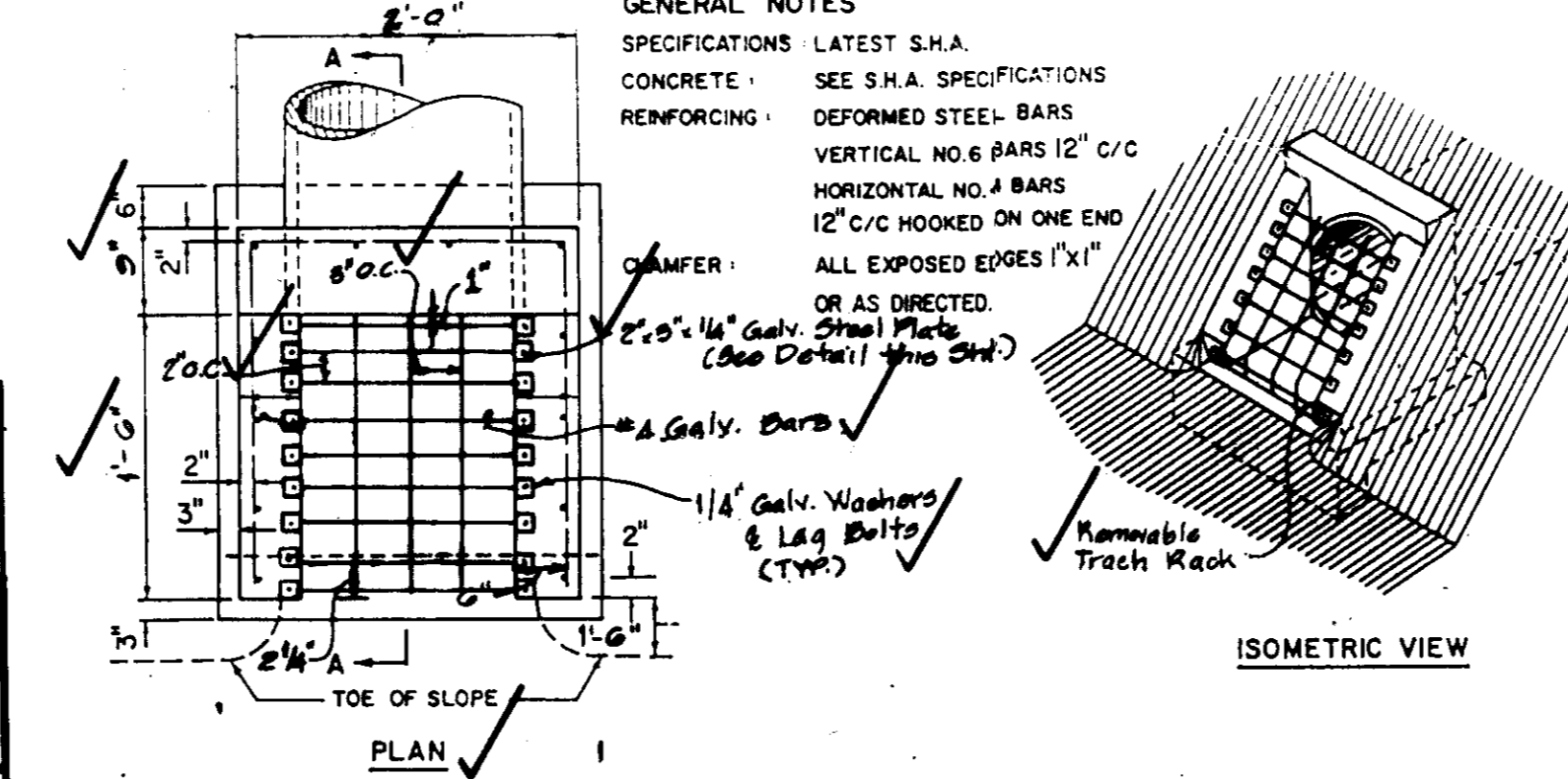
RIP-RAP APRON DETAIL
N.T.S.



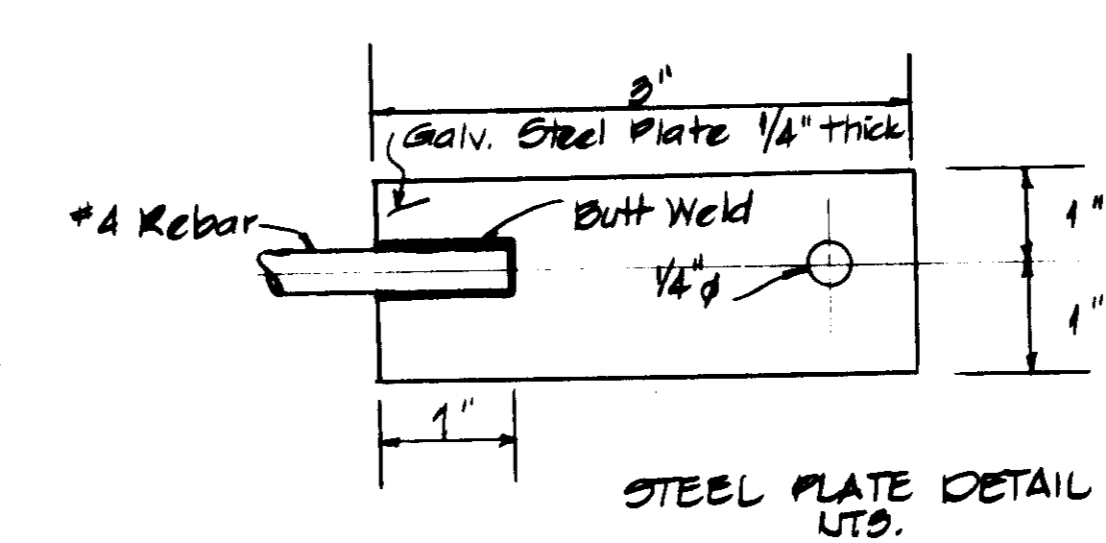
WEIR DIVERSION DETAIL FOR STRUCTURE 1-36



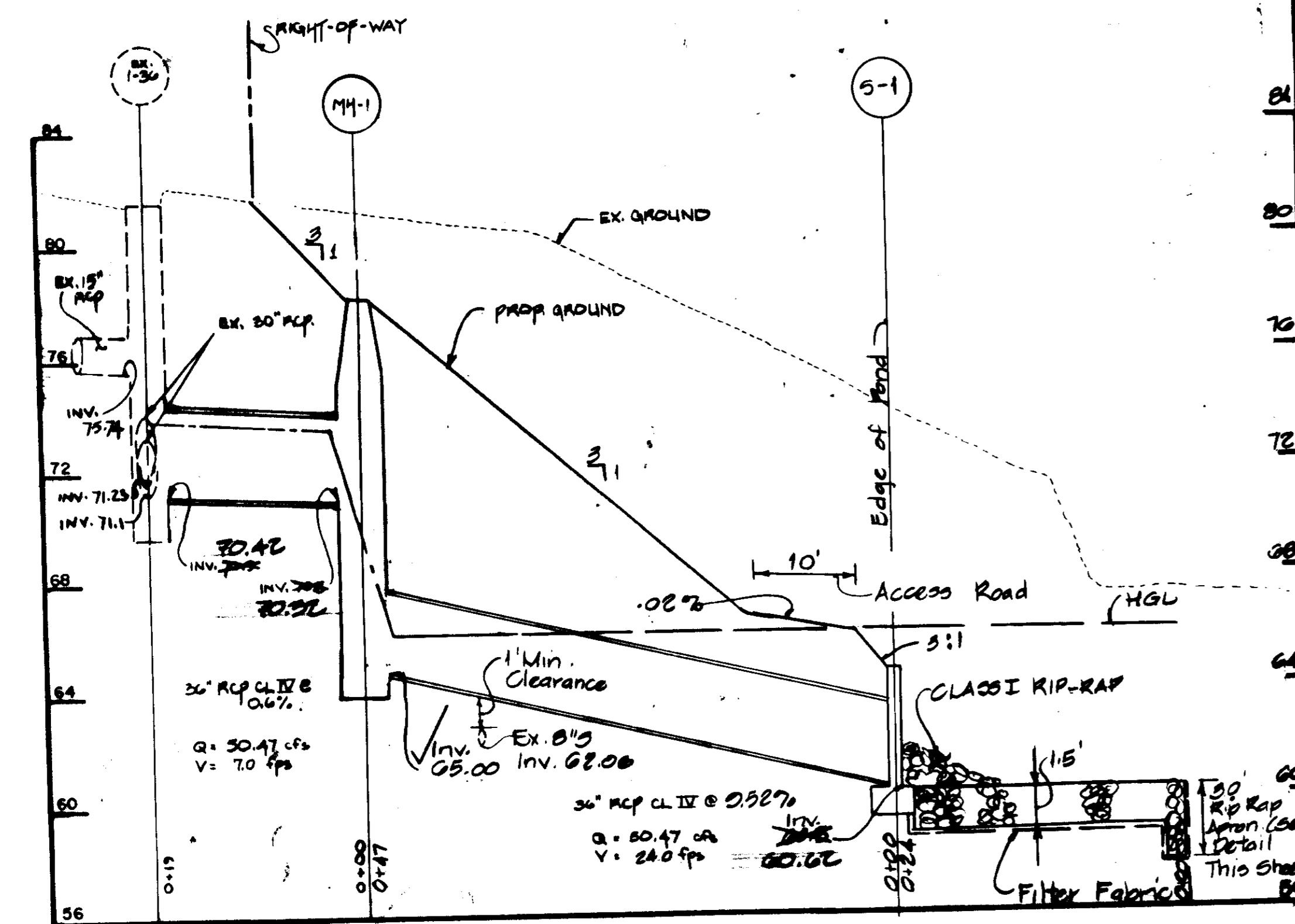
METAL ORIFICE PLATE DETAIL
N.T.S.



CONCRETE HEADWALL WITH REMOVABLE TRASH RACK
Not to Scale



STEEL PLATE DETAIL
N.T.S.



STORM DRAIN PROFILE
Scale: 1" = 10' Horizontal
1" = 4' Vertical

This As-Built is Accurate and the Pond as constructed meets the Requirements of the Specifications for Ponds.

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: *Leslie Legum* Date: 6/18/90

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: *D. Vir Kathuria* Date: 6/18/90

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.
James M. DeMunn 6/18/90
S. Soil Conservation Service Date

These plans for small pond construction, soil erosion and sediment control meet the requirements of the Howard Soil Conservation District.
Robert Zelman 6/26/90
Howard Soil Conservation District Date

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT
James M. DeMunn 10-17-90
COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING
Mark J. Payne 11-16-90
PLANNING DIRECTOR DATE

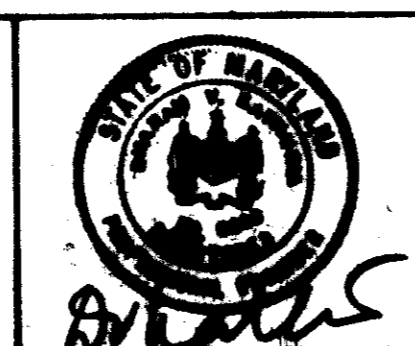
APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
James M. DeMunn 10/16/90
DIRECTOR DATE

APPROVED: CHIEF DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT
James M. DeMunn 7-20-90
CHIEF BUREAU OF ENGINEERING DATE

STORM DRAIN PROFILES AND DETAILS SHEET 5 OF 6

PARKWAY CENTER SECTION I
SITE DEVELOPMENT PLAN
PARCELS L&M
REVISED
STORM WATER MANAGEMENT PLAN
POND #2
FIRST ELECTION DISTRICT HOWARD COUNTY, MARYLAND
AS-BUILT 809-90-82

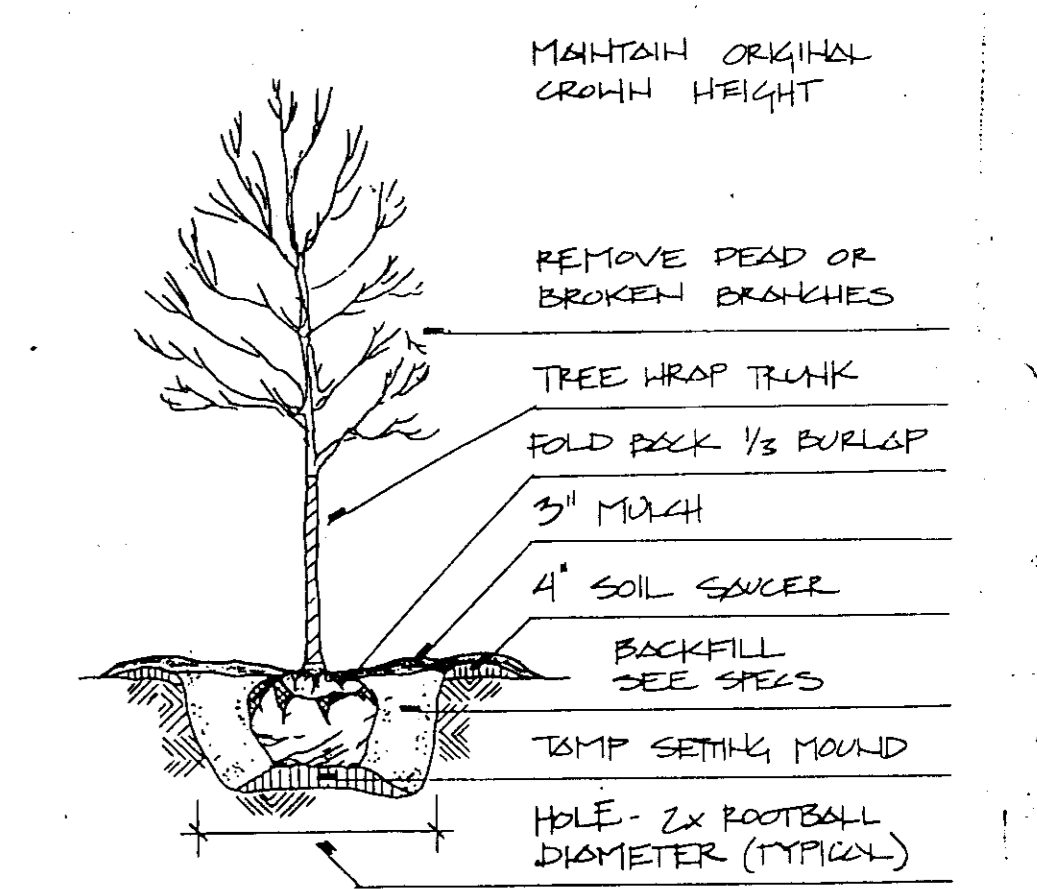
ENGINEERING TECHNOLOGIES ASSOCIATES, INC.
ENGINEERS, SURVEYORS, CONSTRUCTION MANAGERS.
2400 ELICOTT CITY, MD. 21040
(301) 481-0000



DES: RIG			
DRN: GGP			
CHK: RJ	MCK	AS-Built	9-24-91
DATE: 8/11/90	BY: HJ	ADD Spillway to Forebay	8-28-91
		REVISION	DATE

M-TECH VENTURE LIMITED PARTNERSHIP
OWNER AND DEVELOPER
7223 PARKWAY DRIVE
MANOVER, MARYLAND 21078
(301) 798-4448

BACKFILL MIX:
 MIX SITE SOIL WITH SPHAGNUM OR REED BEAT MOSS IN RATIO OF 3:1. ADD GRANULAR, SLOW RELEASE FERTILIZER OF EQUAL ANALYSIS (10:10:10) ACCORDING TO MANUF. SPECS.



DECIDUOUS TREE PLANTING DETAIL
 NOT TO SCALE

CONIFER AND SHRUB PLANTING SIMILAR - NO TREE WRAP

PLANT LIST

COMMON NAME	KEY	QTY	BOTANICAL NAME	SIZE	CONTR.	NOTES
WEeping WILLOW	○	13	SALIX BABYLONICA	1 1/2-2' CAL.	B+D	30' OC.
LARCH	⊙	10	LARIX KAEMPFERI	5'-6' HT.	B+D	15' OC.
NYCAMORE	⊕	22	PLATANUS x ACERIFOLIA	5'-5 1/2' CAL.	B+D	30' OC.
CRAB APPLE	⊕	10	MALUS HUPHENSIS	2'-2 1/2' CAL.	B+D	10' OC.
JAPANESE RED PINE	○	2	PINUS PENNSYLANICA	5'-6' HT.	B+D	10' OC.
JAPANESE BLACK PINE	○	9	PINUS THUNDERBOLT	5'-6' HT.	B+D	10' OC.

CALL "MISS UTILITIES" PRIOR TO ANY DIGGING. DISTURBED AREAS NOT NOTED TO BE PAVED, OR PLANTED SHALL BE SEEDED.

LANDSCAPE SUMMARY

1. THE SITE IS NOT ADJACENT TO ANY RESIDENTIAL DISTRICT.
2. A 10' WIDE MINI LANDSCAPE EDGE HAS BEEN PROVIDED ALONG THE EXTERNAL STREET ROW. PLANTED WITH 3" CAL TREES TO MORE THAN 30' O.C.
3. NO PLANTING TO BE INSTALLED ON STORM WATER POND EMBANKMENT.

HOWARD COUNTY SIGNATURE BLOCK

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT
 J. J. [Signature] 10-17-90
 COUNTY HEALTH OFFICER 1st DATE

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING
 [Signature] 11.16.90
 PLANNING DIRECTOR DATE

APPROVED: CHIEF DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT
 [Signature] 11/17/90
 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
 [Signature] 7-25-90
 DIRECTOR DATE

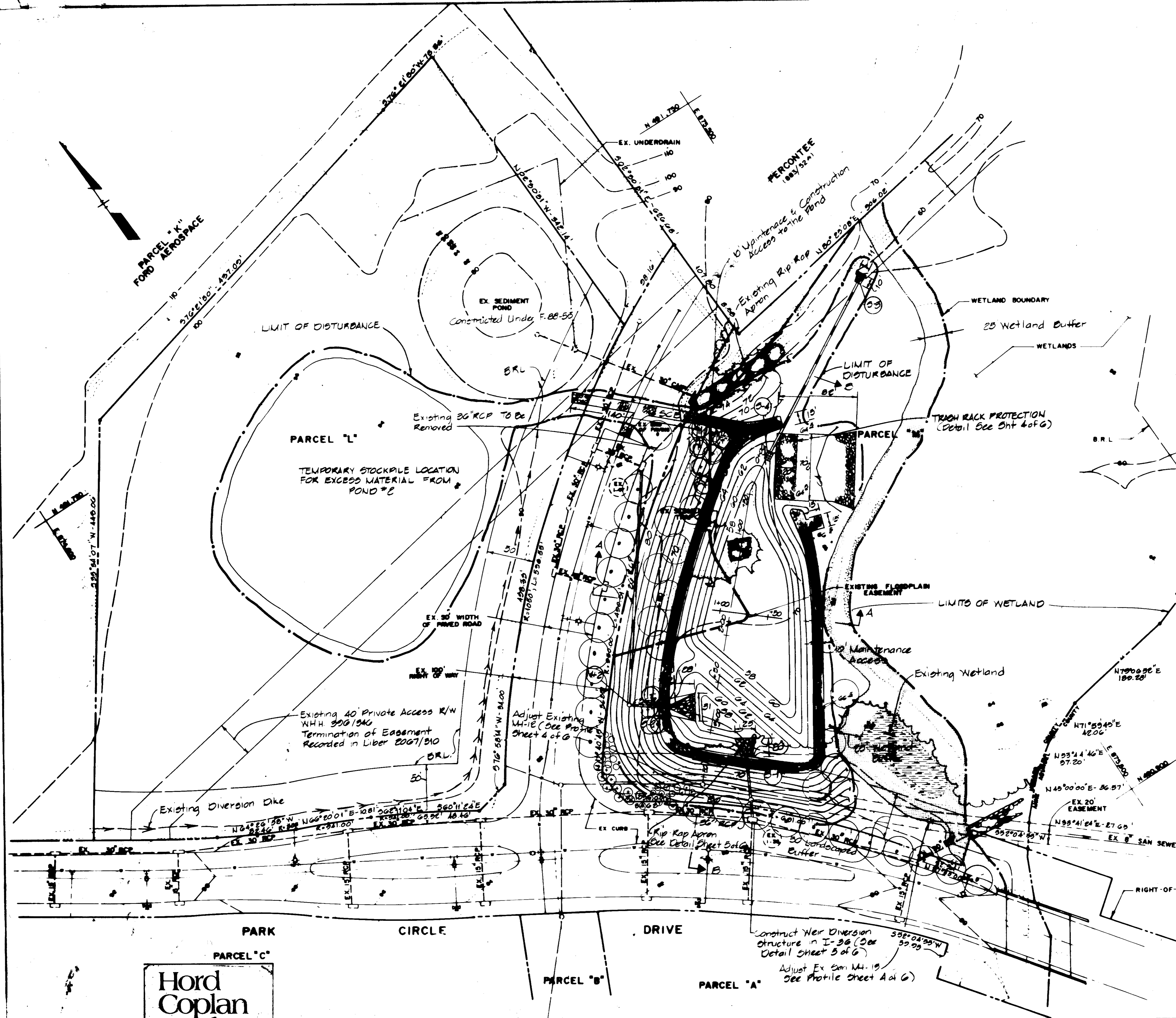
CHIEF BUREAU OF ENGINEERING [Signature]

*NOTE: THIS SHEET IS TO BE USED FOR LANDSCAPING DETAILS ONLY.

LANDSCAPE PLAN SCALE: 1" = 50' SHEET 6 OF 6

PARKWAY CENTER SECTION I
 SITE DEVELOPMENT PLAN
 PARCELS L&M
 REVISED
 STORM WATER MANAGEMENT PLAN
 POND #2

HOWARD COUNTY, MARYLAND
 AS-BUILT



Hord Coplan Macht
 Architects • Interior & Landscape Designers
 2826 St. Paul Street
 Baltimore, Maryland
 21208 • 301-467-7011

ENGINEERING TECHNOLOGIES ASSOCIATES, INC.
 ENGINEERS SURVEYORS CONSTRUCTION MANAGERS
 2858 ELLICOTT CENTER DRIVE
 BALTIMORE, MD 21202
 410-992-0000



DES.	DRN.	CHK.	DATE

HI-TECH VENTURE LIMITED PARTNERSHIP
 OWNER AND DEVELOPER
 7223 PARKWAY DRIVE
 HANOVER, MARYLAND 21078
 (301) 788-4448