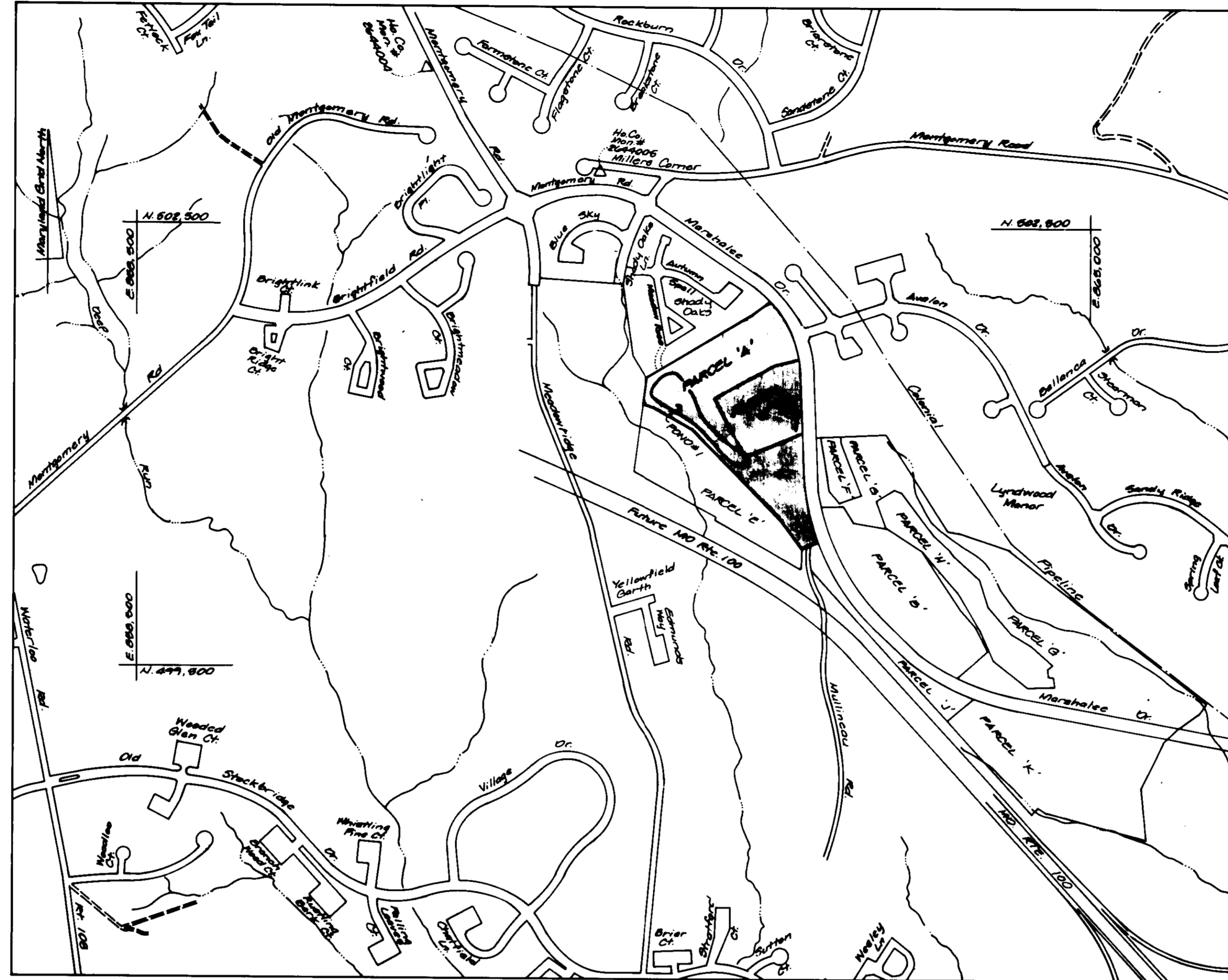
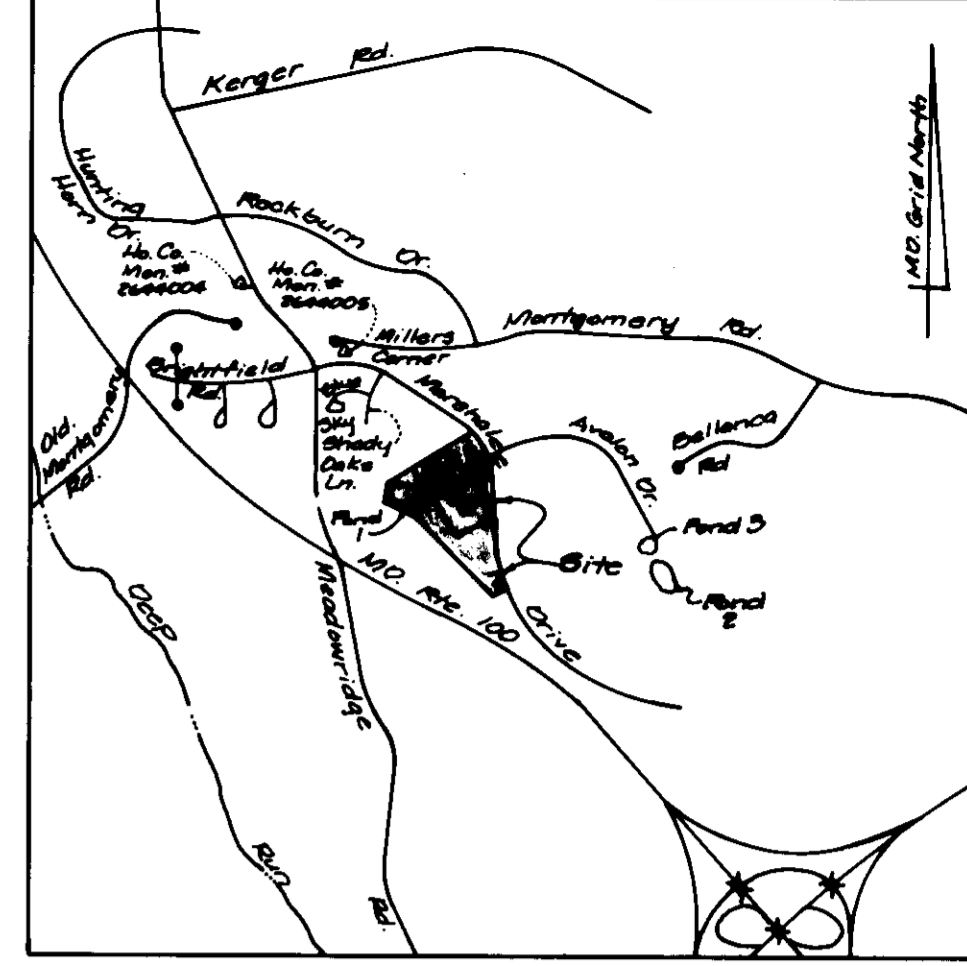


INDEX OF SHEETS	
SHEET NO.	TITLE
1	COVER SHEET
2	Grading & Sediment and Erosion Control Plan
3	Grading & Sediment and Erosion Control Details
4	Stormwater Management Details
5	Landscape Plan
6	Landscape Details / Drainage Area Maps



LOCATION MAP  
Scale: 1" = 600'



VICINITY MAP  
Scale: 1" = 2000'

**BENCHMARKS**

Howard Co. Mon. # 2644004 Elev. 402.185  
 Howard Co. Mon. # 2644005 Elev. 416.931

Description:  
 Howard Co. Mon. # 2644004: Concrete monument 1.0 ft. below surface SW corner of intersection Rte. 105 and Old Montgomery Road.  
 Howard Co. Mon. # 2644005: Concrete monument 2.0 ft. below surface South side Montgomery Road East of Meadowridge Road

**GENERAL NOTES**

- All construction shall be in accordance with the latest standards and specifications of Howard County Design Manual, Vol. IX, plus MSHA Standards and specifications if applicable.
- The contractor shall notify the Department of Public Works/Bureau of Engineering/Construction Inspection at (410) 313-1880 at least five (5) working days prior to the start of work.
- The contractor shall notify "Miss Utility" at 1-800-257-7777 at least forty-eight (48) hours prior to any excavation work.
- Site Analysis:**  
 Location: Elkrige, Maryland  
 Tax Map: 37, Parcels: A & D, F 94-26  
 Zoning: PEC, ZB/BA Ref: ZB 877 R & M, PB 284, RES 188, B-2  
 Election District: 1st  
 Total Area: 22.6618 Ac. plus/minus  
 887,186 S.F.  
 Previous Submittals: WP91-33, F91-125, S93-02, P93-11, SDP93-75, SDP93-105, F-94-26, F94-27, F94-98, F94-99, SDP95-77, SDP 95-71
- Traffic control devices, markings, and signing shall be in accordance with the latest edition of the Manual on Uniform Traffic Control Devices (MUTCD). All street and regulatory signs shall be in place prior to the placement of any asphalt.
- Any damage caused by the contractor to existing public right-of-way, existing paving, existing curb and gutter, existing utilities, etc. shall be corrected at the contractors expense.
- The existing utilities shown hereon are located from field surveys and the construction drawings of record. The approximate location of existing utilities are shown for the contractors information and convenience. The contractor shall locate existing utilities to his own satisfaction and well in advance of any construction activities. Additionally, the contractor shall take all necessary precautions to protect all existing utilities and maintain uninterrupted service.
- The topography shown hereon is compiled from photogrammetric aerial survey, compiled by Dewberry & Davis (March 16, 1986); and field run topography compiled by LDE, Inc. (November, 1995).
- Horizontal and vertical datums are related to the Maryland State Plane Coordinate System as projected from Howard county control stations No. 2644004 and No. 2644005 (NAD 27).
- 401 Permit #RP91-00469-7, exp. August 1, 1995.  
 404 Permit #92-WQ-0313, exp. July 29, 1996.
- All hydraulic data is for the 10-year storm unless otherwise noted.
- See sheet 5 for construction sequence.
- 95% compaction in all fill areas shall be determined by AASHTO T-180.
- Storm drain trenches within the public road right-of-way shall be backfilled and compacted in accordance with the Howard County Standard Specifications and Details- Design Manual Volume IV.
- Public water and public sewer will be available to the site by means of future extension from Contract #8-8844-12.
- Temporary stormwater management is provided by Detention. Permanent stormwater management for Parcel A & D is provided in NEW Pond #1, by Detention. Water Quality by Retention.
- Wetlands delineation by Exploration Research, Inc. dated 1992, approved by U.S.A.C.E., June 1992.
- Noise study compiled by Land Design Engineering, Inc. as part of P93-11 approval.
- Floodplain analyzed by Land Design Engineering, Inc., February 1993 based on field run data from 1992 and 1993(P93-11).
- Traffic study compiled by Lee Cunningham & Associates, Inc. dated November 1992, as part of S93-02 approval.
- Geotechnical report compiled by Geo-Technology Associates, Inc. dated May 1993 as part of P93-11 and SDP 93-105. Approved borings 80-1-80-4. Geotechnical report prepared by Hillis Corning Engineering Associates, Inc. dated April 30, 1994 as part of F94-26. Approved borings 8-508-8-507 & 806 & 807.

SITE DEVELOPMENT PLANS  
 CENTRE 9500 - PARCELS A & D  
 MASS GRADING

1st ELECTION DISTRICT HOWARD COUNTY, MARYLAND

SUBDIVISION NAME		SECTION/AREA	PARCEL/NO.
Centre 9500		---	A & D
PLAT NO.	BLOCK NO.	ZONE	TAX MAP NO.
11519	10,11	PEC	37
11531		B-2	
WATER CODE		ELECTION DISTRICT	CENSUS TRACT
N/A		1st	6011
		SEWER CODE N/A	

<b>ADDRESS CHART</b> LOT NO. STREET ADDRESS Parcel A 6000 Marshalee Drive (For Mass Grading Only) Parcel D 6010 Marshalee Drive (For Mass Grading Only)		<b>LDE, INC.</b> 9250 Runsey Road, Suite 106, Columbia, MD. 21045 (410) 715-1070 (301) 596-3424 (410) 715-9540 (Fax)	
<b>REVISIONS</b> NO. DATE DESCRIPTION		<b>SITE DEVELOPMENT PLAN COVER SHEET</b> CENTRE 9500 - PARCELS A & D MASS GRADING	
DESIGNED E.D.S. DRAWN CAD CHECKED B.D.B. DATE Apr 1 1996		SCALE AS SHOWN DRAWING 1 of 6 JOB NO. 95-070 FILE NO. SDP 96-92	
Tax Map #37 1st Election District P/O Parcel 640 Howard County, Maryland Previous Submittals: S93-02, P93-11, F94-26, SDP93-105 SDP 93-75, SDP 95-77, SDP 95-71 Owner / Developer 100 INVESTMENT LIMITED PARTNERSHIP 8835 Columbia 100 Parkway, Unit P Columbia, Maryland 21045 (410) 730-0810			

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

*[Signature]* 6/14/96  
 DIRECTOR DATE

*[Signature]* 6/14/96  
 CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH DATE

*[Signature]* 6/16/96  
 CHIEF, DEVELOPMENT ENGINEERING DIVISION 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.

*[Signature]* 6/6/96  
 NATURAL RESOURCE CONSERVATION SERVICE DATE

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

*[Signature]* 6/6/96  
 HOWARD SOIL CONSERVATION DISTRICT DATE

**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 I WAS PREPARED IN ACCORDANCE WITH REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT."

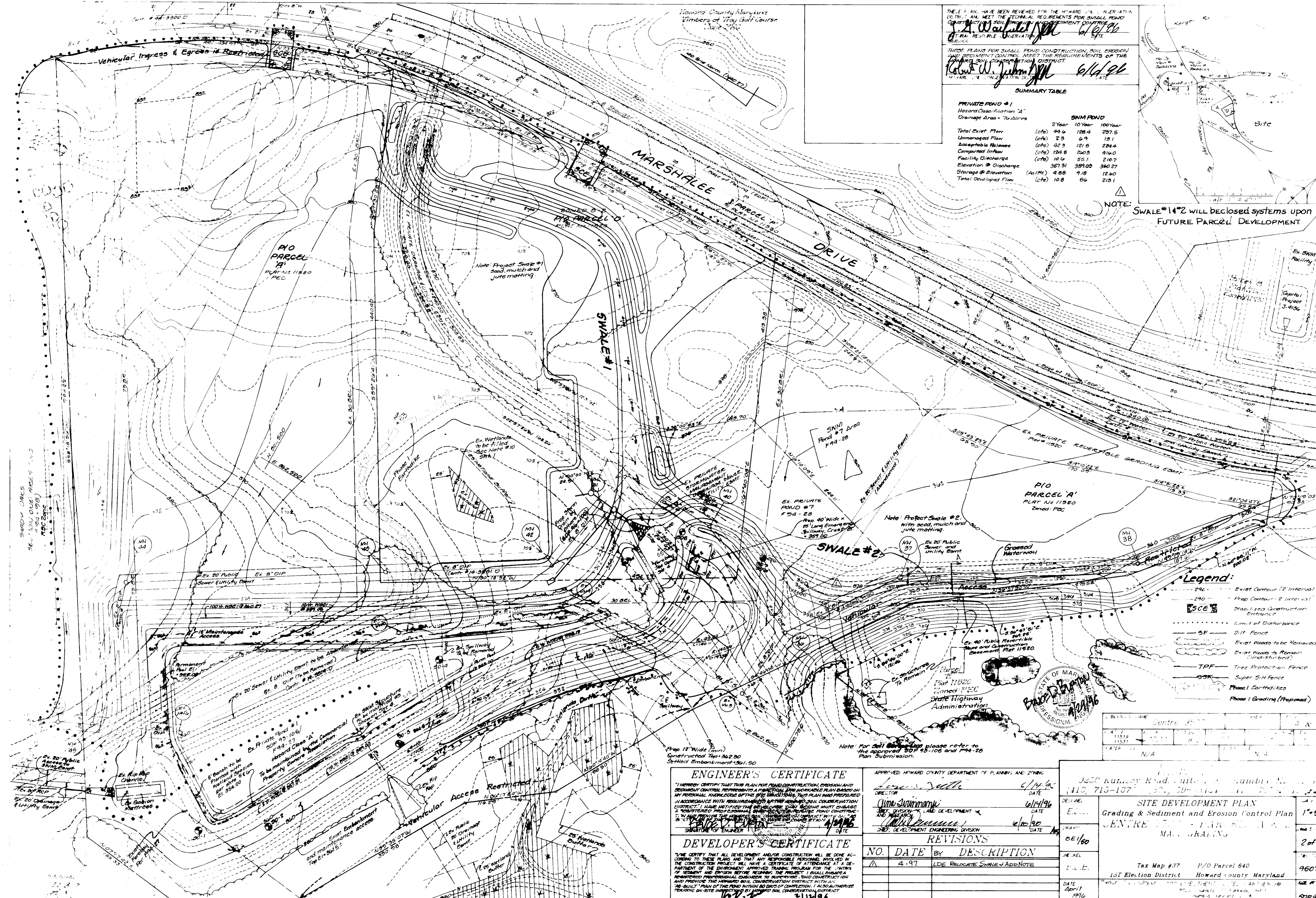
*[Signature]* 4/29/96  
 SIGNATURE OF ENGINEER DATE

**DEVELOPER'S CERTIFICATE**

"I NOW 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 THE ENVIRONMENT 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]* 2/12/96  
 SIGNATURE OF DEVELOPER DATE





THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING AND MEET THE TECHNICAL REQUIREMENTS FOR SMALL ROAD CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL OF THE HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING. THESE PLANS FOR SMALL ROAD CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING. DATE: 6/16/96

**SUMMARY TABLE**

PRIVATE FOND #1  
Hazard Classification "A"  
Drainage Area - 76 Acres

	2Year	10Year	100Year
Total Exist. Flow	(cfs) 44.6	128.4	287.5
Unmanaged Flow	(cfs) 2.3	6.9	15.1
Assessable Release	(cfs) 42.3	121.5	272.4
Computed Inflow	(cfs) 184.8	220.5	416.0
Facility Discharge	(cfs) 10.6	55.1	216.7
Elevation @ Discharge	(As 1%) 357.51	359.00	360.27
Storage @ Elevation	(As 1%) 4.88	9.18	12.60
Total Developed Flow	(cfs) 10.8	56	216.1

NOTE: SWALE #1 & #2 WILL BE CLOSED SYSTEMS UPON FUTURE PARCEL DEVELOPMENT

- Legend:**
- - - - - Exist Contour (2' Interval)
  - - - - - Prop Contour (2' Interval)
  - SCCE Stabilized Construction Entrance
  - Limit of Disturbance
  - Silt Fence
  - Exist Woods to be Removed
  - Exist Woods to Remain (Undisturbed)
  - TPF Tree Protection Fence
  - Super Silt Fence
  - Phase I Earthworks
  - Phase I Grading (Proposed)

**ENGINEER'S CERTIFICATE**

I HEREBY CERTIFY THAT THIS PLAN FOR SMALL ROAD CONSTRUCTION, SOIL 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 REQUIREMENTS OF THE HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING. I HAVE NOTIFIED THE HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING OF THE EXISTING AND PROPOSED CONSTRUCTION. I HAVE PROVIDED THE HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING WITH A COPY OF THIS PLAN AND THE HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING HAS REVIEWED THIS PLAN AND APPROVED IT FOR CONSTRUCTION. DATE: 6/16/96

**DEVELOPER'S CERTIFICATE**

I HEREBY CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION OF THIS PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE "CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT". I SHALL NAME A REGISTERED PROFESSIONAL ENGINEER TO SUPERVISE, SOIL CONSTRUCTION AND PROVIDE THE HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING WITH A COPY OF THIS PLAN AND THE HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING HAS REVIEWED THIS PLAN AND APPROVED IT FOR CONSTRUCTION. DATE: 6/16/96

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

DATE: 6/16/96

**REVISIONS**

NO.	DATE	BY	DESCRIPTION
1	4-97	LDE	RELOCATE SWALE #1 AND #2

3230 Railway Road, Suite 100, Columbia, MD 21046  
(410) 715-1075

DESIGNER: M. J. SHALING  
DATE: 6/16/96

**SITE DEVELOPMENT PLAN**  
Grading & Sediment and Erosion Control Plan  
CENTRE DRIVE - PARCEL A1 & A2  
M. J. SHALING

SCALE: 1" = 50'

Tax Map #37 P/O Parcel 640  
1ST Election District Howard County Maryland  
DATE: April 1996  
SOP 96-92

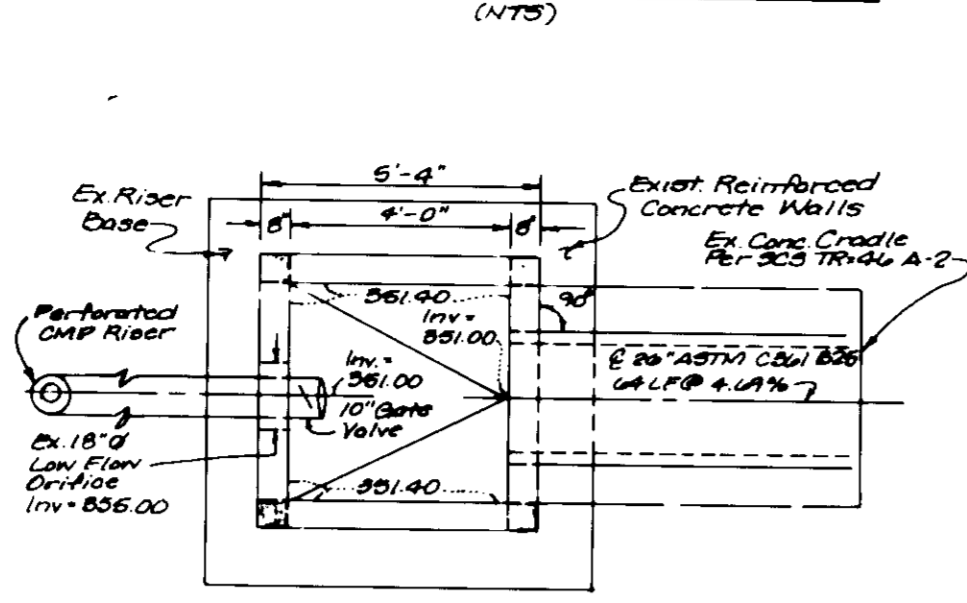
HOWARD SOIL CONSERVATION DISTRICT  
STANDARD SEDIMENT CONTROL NOTES

- A minimum of 48 hours notice must be given to the Howard County Department of Inspections, Licenses and Permits, Sediment Control Division prior to the start of any construction, (513-1853).
- All vegetative and structural practices are to be installed according to the provisions of this plan and are to be in conformance with the most current MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, and revisions thereto.
- Following initial soil disturbance or redistribution, permanent or temporary stabilization shall be completed within: a) 7 calendar days for all perimeter sediment control structures, perimeter slopes and all slopes greater than 3:1, b) 14 days as to all other disturbed or graded areas on the project site.
- All sediment traps/basins shown must be fenced and warning signs posted around their perimeter in accordance with Vol. 1, Chapter 7, of the HOWARD COUNTY DESIGN MANUAL, Storm Drainage.
- All disturbed areas must be stabilized within the time period specified above in accordance with the 1934 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, (Section 3) for permanent seeding, and temporary seeding and mulching. Temporary stabilization with mulch alone can only be done when recommended seeding dates do not allow for proper germination and establishment of grasses.
- All sediment control structures are to remain in place and are to be maintained in operative condition until permission for their removal has been obtained from the Howard County Sediment Control Inspector.
- Ife Analysis:  
Total Area of Site: 22.66/9 Acres  
Area Disturbed: 9.26/9 (This Plan) Acres  
Area to be roofed or paved: 1.0/9 (This Plan) Acres  
Area to be vegetatively stabilized: 9.36/9 Acres  
Total Cut: 20.56/9 Cu. Yds.  
Offsite waste/borrow area location: No Offsite Disposal - Assumed 15% Comp.

PERMANENT SEEDING NOTES

- Apply to graded or cleared areas 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, disking, or other acceptable means before seeding, if not previously loosened.
- SOIL AMENDMENT:** In lieu of soil test recommendations, use one of the following schedules:
- PREFERRED** --- Apply 2 tons per acre dolomitic limestone (92 lbs./1000sq. ft.) and 600 lbs. per acre (14 lbs./1000sq. ft.) fertilizer (14 lbs./1000sq. ft.) before seeding. Harrow or disk into upper three inches of soil. At time of seeding, apply 400 lbs. per acre 30-0-0 ureaform fertilizer (9 lbs./1000sq. ft.) and 1000 lbs. per acre 10-10-10 fertilizer (23 lbs./1000sq. ft.) before seeding. Harrow or disk into upper three inches of soil.
  - ACCEPTABLE** --- Apply 2 tons per acre dolomitic limestone (92 lbs./1000sq. ft.) and 600 lbs. per acre (14 lbs./1000sq. ft.) fertilizer (14 lbs./1000sq. ft.) before seeding. Harrow or disk into upper three inches of soil.
- SEEDINGS** --- For the periods March 1 thru April 30, and August 1 thru October 15, seed with 60 lbs per acre of Kentucky 31 Tall Fescue. For the period May 1 thru July 31, seed with 60 lbs per acre (14 lbs./1000sq. ft.) of Kentucky 31 Tall Fescue and 2 lbs. per acre (0.5 lbs./1000sq. ft.) of creeping 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 seed. Option (3) - Seed with 60 lbs. per acre Kentucky 31 Tall Fescue and mulch 2 tons / acre well anchored straw.
- MULCHING** --- Apply 1-1/2 to 2 tons per acre (70 to 90 lbs./1000sq. 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./1000sq. ft.) of emulsified asphalt on flat areas. On slopes 9 feet or higher, use 348 gallons per acre (8 gal./1000sq. ft.) for anchoring.
- MAINTENANCE** --- Inspect all seeding areas and make needed repairs, replacements and reseeding.
- 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, disking, or other acceptable means before seeding, if not previously loosened.
- SOIL AMENDMENTS:** --- Apply 600 lbs per acre 10-10-10 fertilizer (14 lbs./1000sq. ft.).
- SEEDINGS** --- For periods March 1 thru April 30, and from August 15 thru October 15 seed with 2-12 bushels per acre of annual rye (3.2 lbs./1000sq. ft.). For the period May 1 thru August 14, seed with 5 lbs. per acre of creeping lovegrass (0.7 lbs./1000sq. 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 seed.
- MULCHING** --- Apply 1-1/2 to 2 tons per acre (70 to 90 lbs./1000sq. ft.) of unrotted weed free small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gallons per acre (5 gal./1000sq. ft.) of emulsified asphalt on flat areas. On slopes 9 feet or higher, use 348 gallons per acre (8 gal./1000sq. ft.) for anchoring.
- Refer to the 1934 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for additional rates and methods not covered.

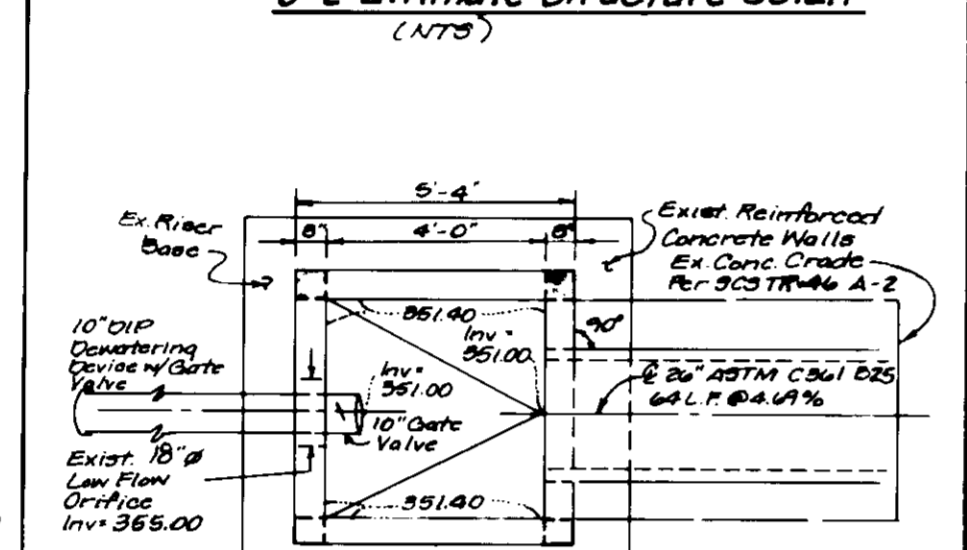
3-2 Sediment Pond Structure Detail (NTS)



Notes: 1. All joints must meet ASTM C801 specifications  
2. Gate valves must provide a minimum design life of 75 years or greater.

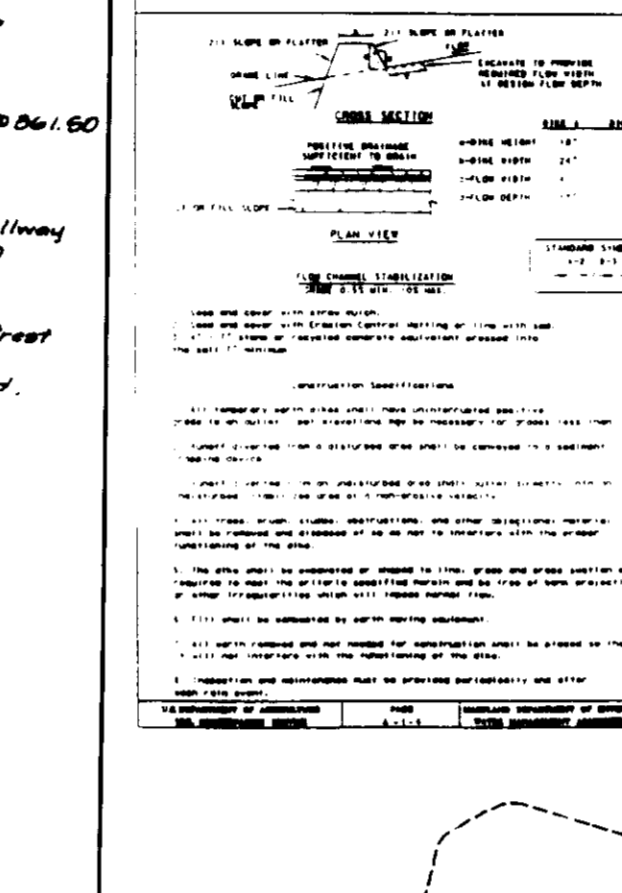
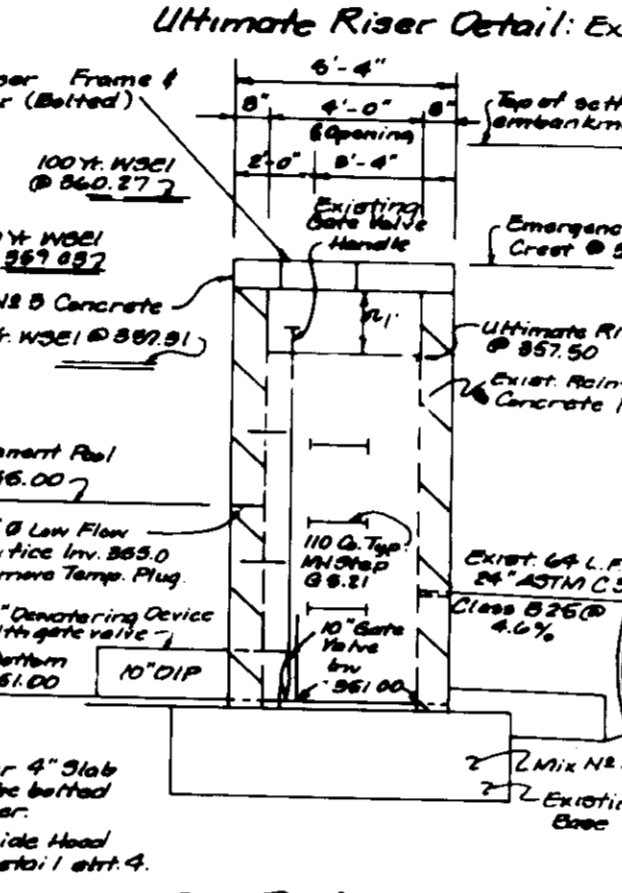
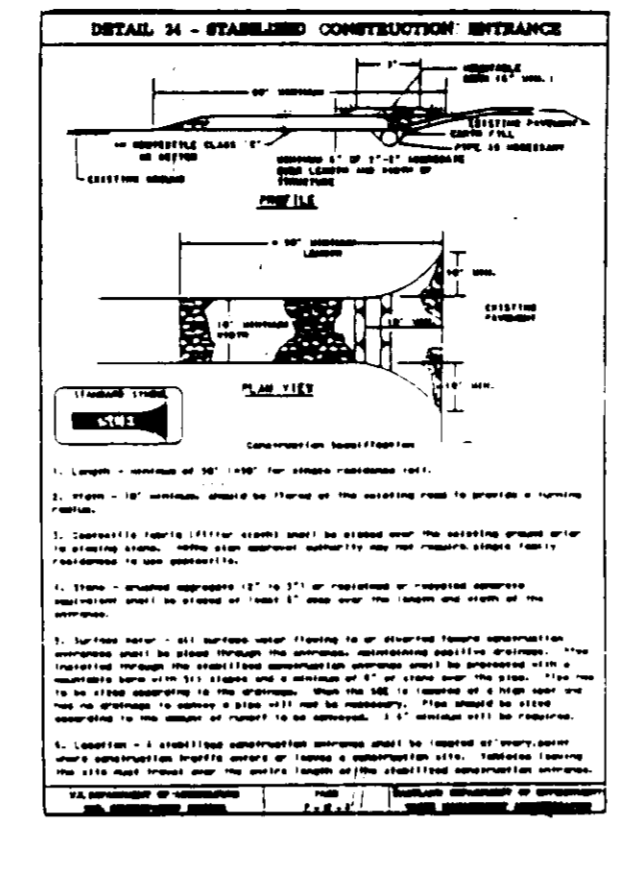
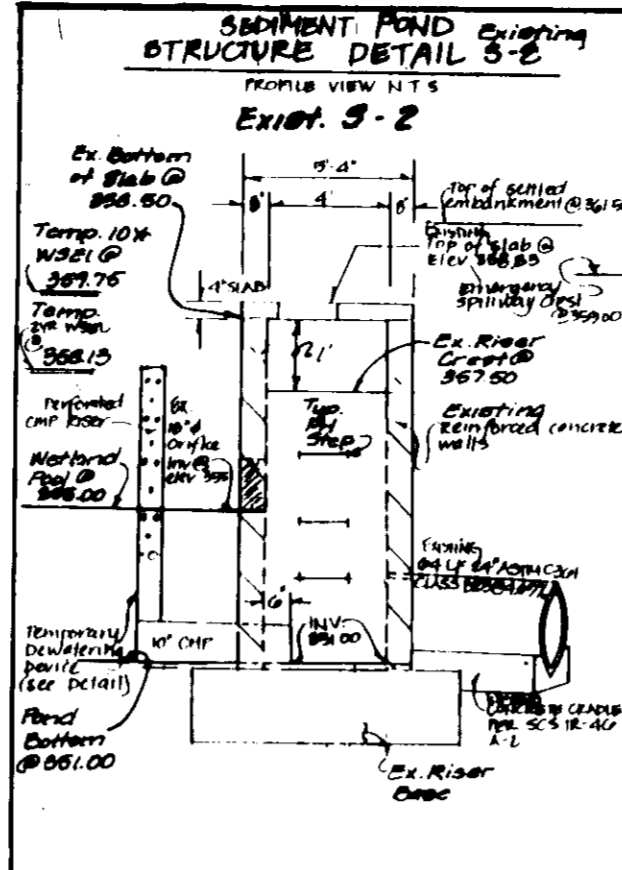
Note: For Trash Rack Details, refer to the 30P93-65 or P93-27 plan submission

5-2 Ultimate Structure Detail (NTS)

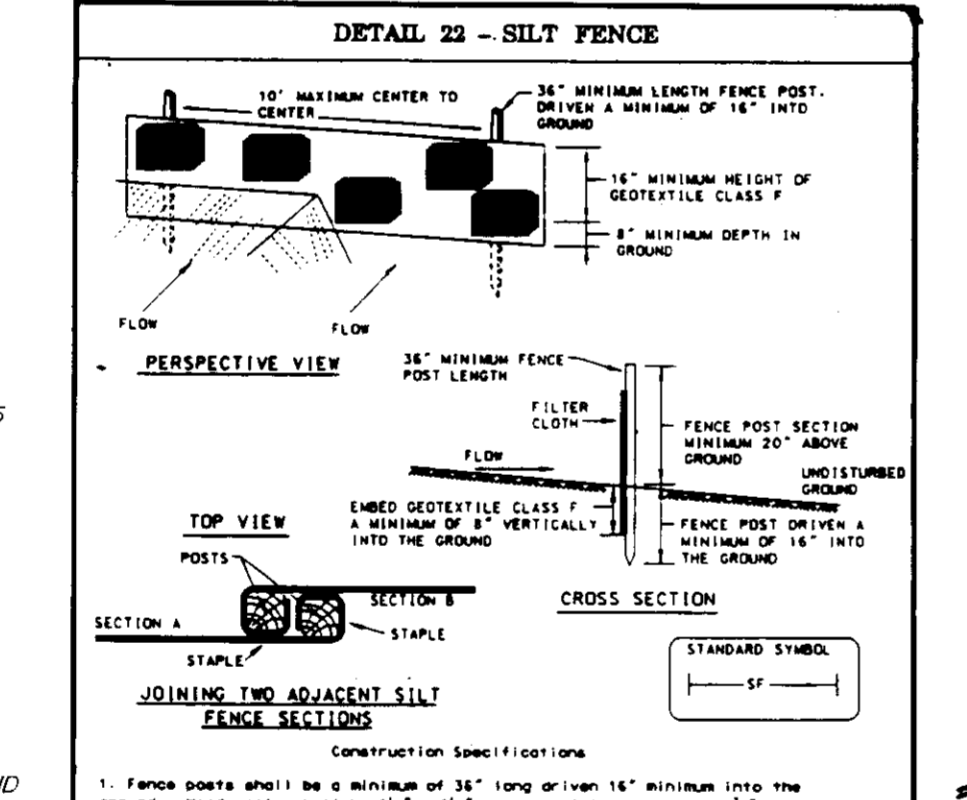


Notes: 1. All joints must meet ASTM C801 specifications  
2. Gate valves must provide a minimum design life of 75 years or greater.

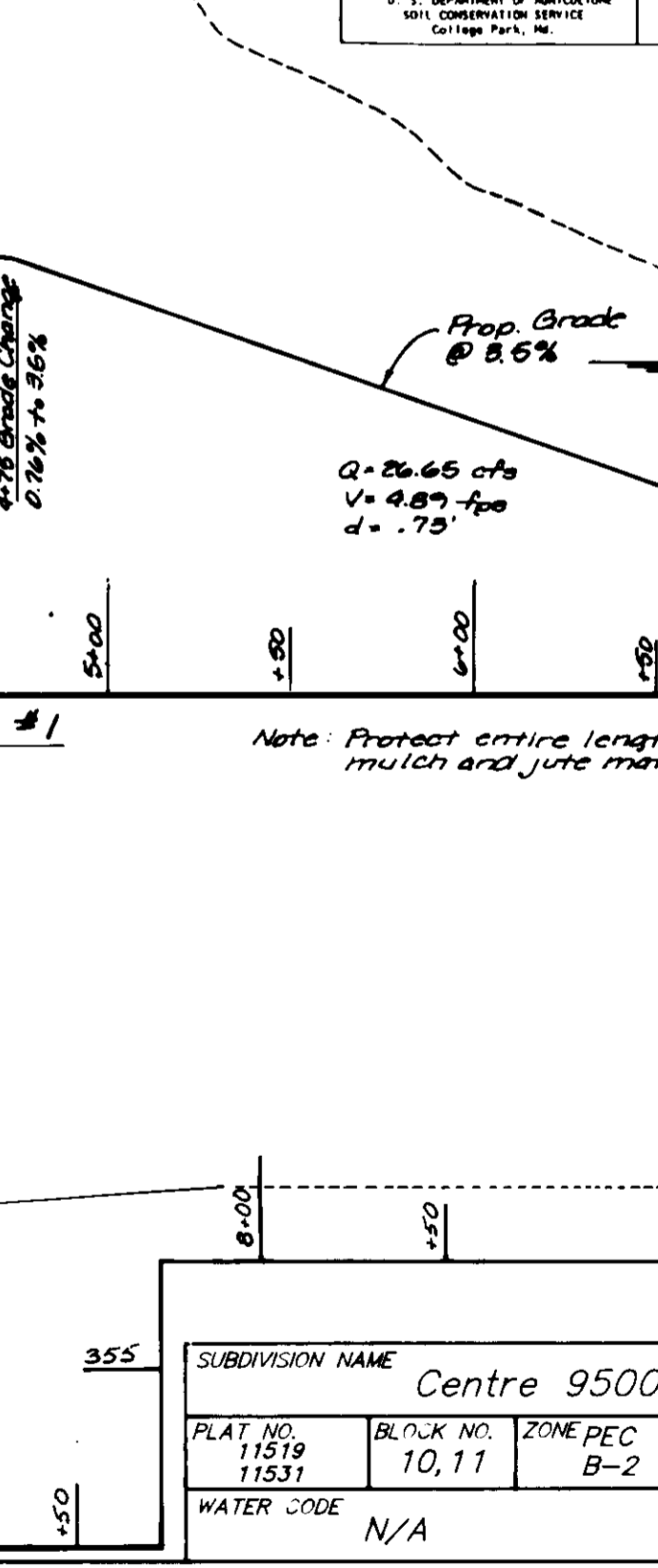
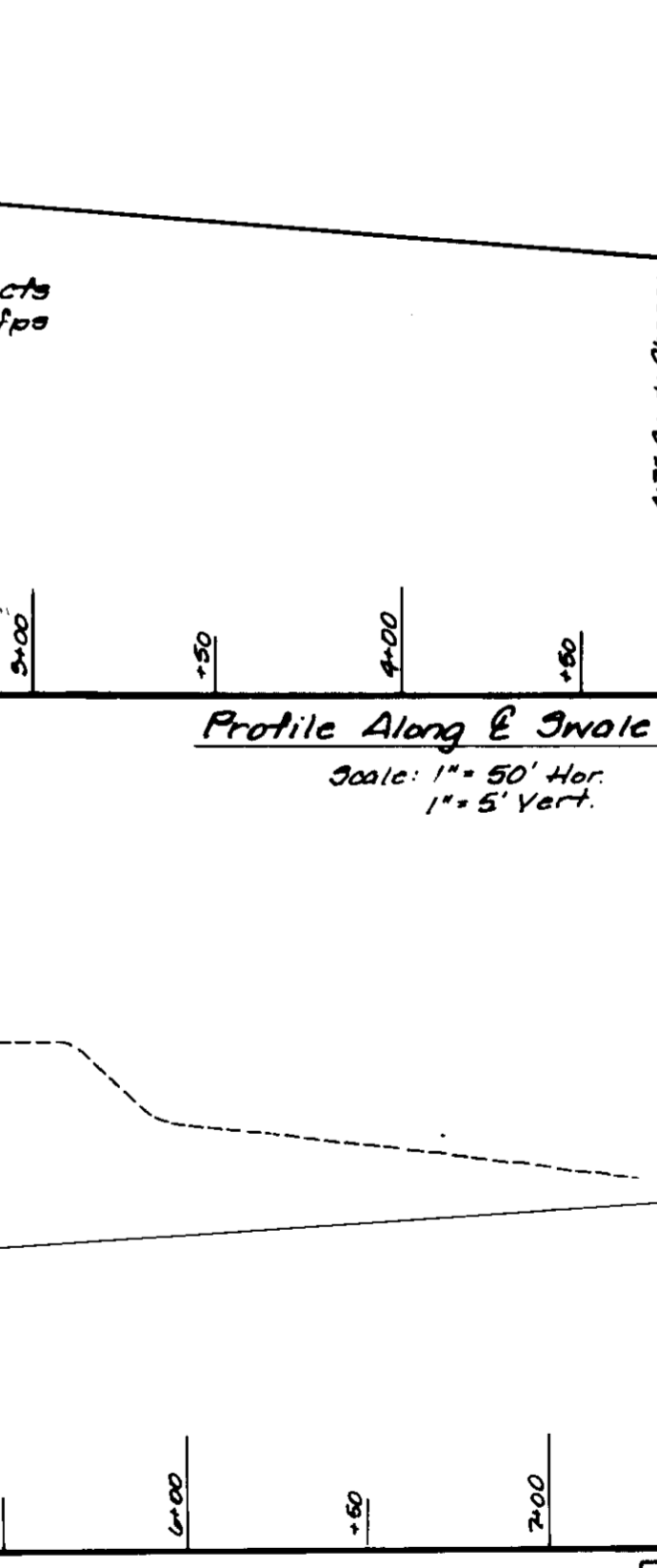
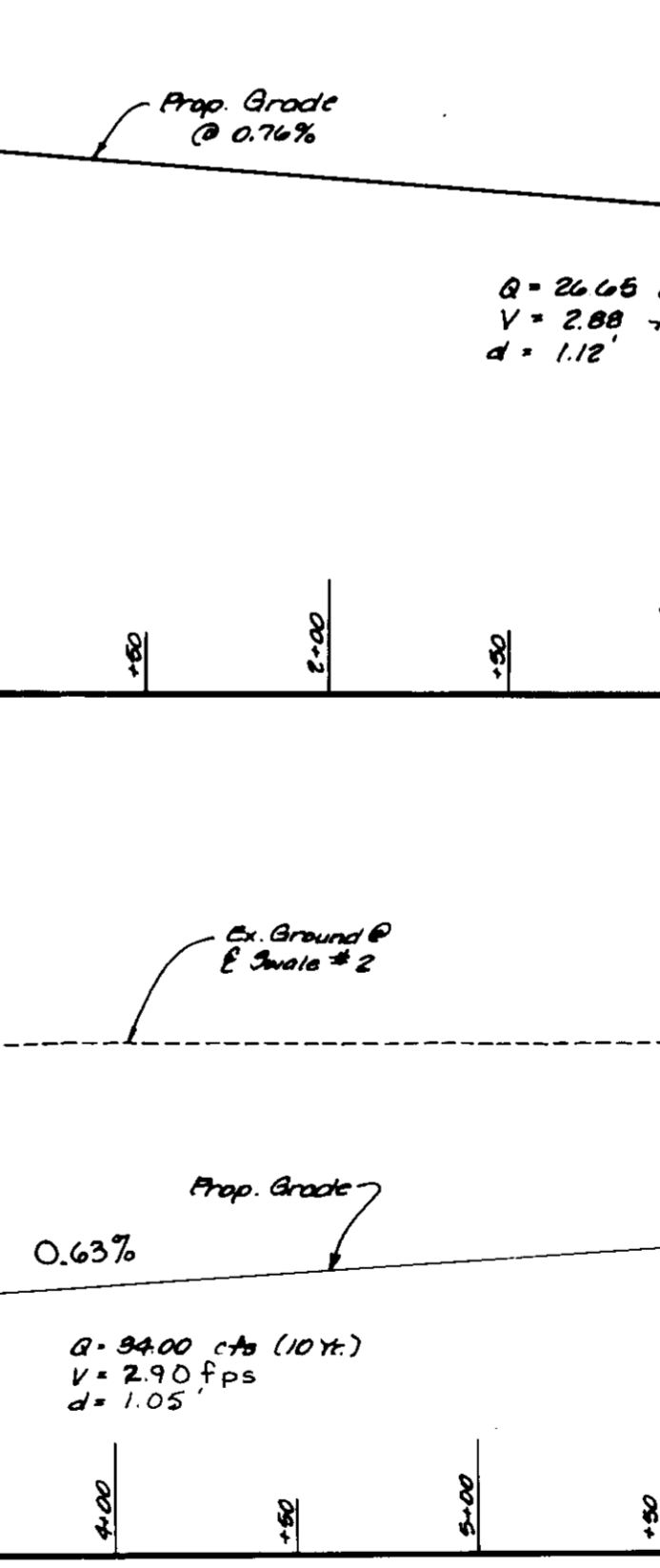
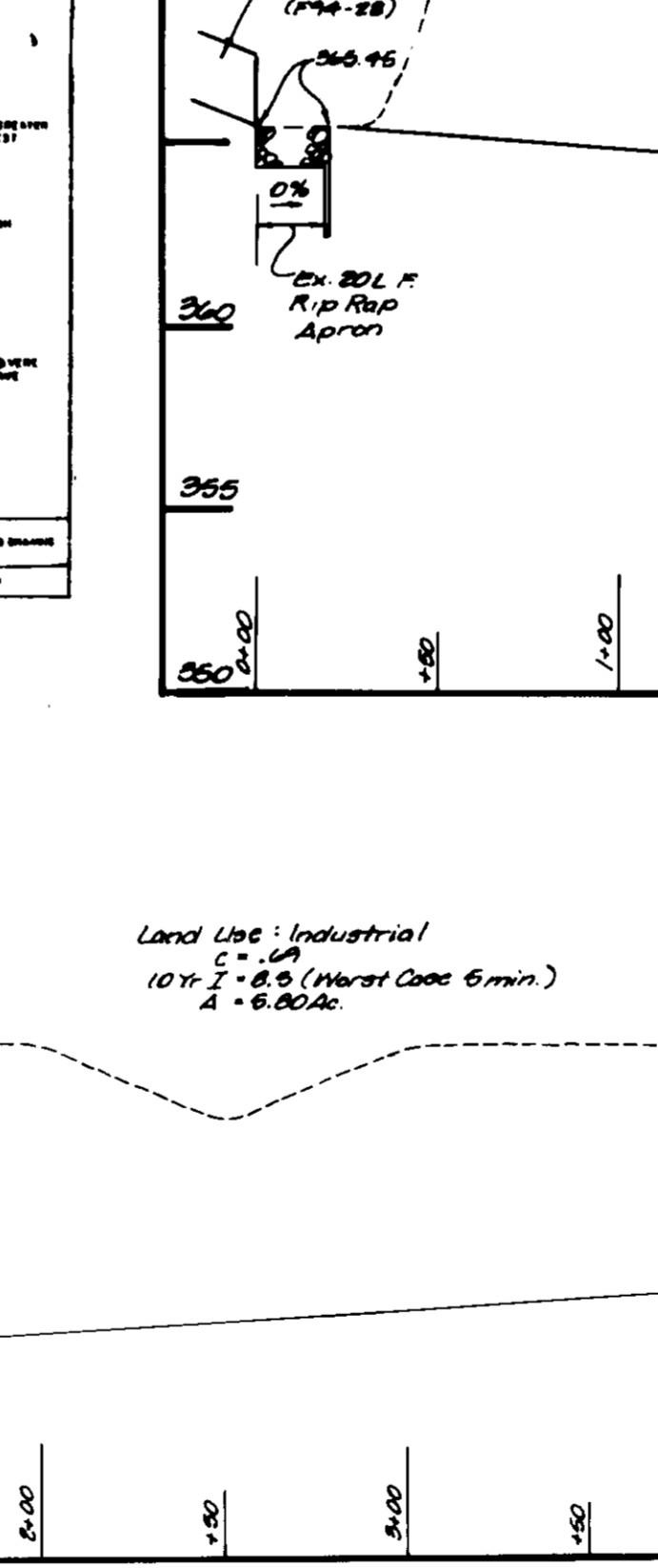
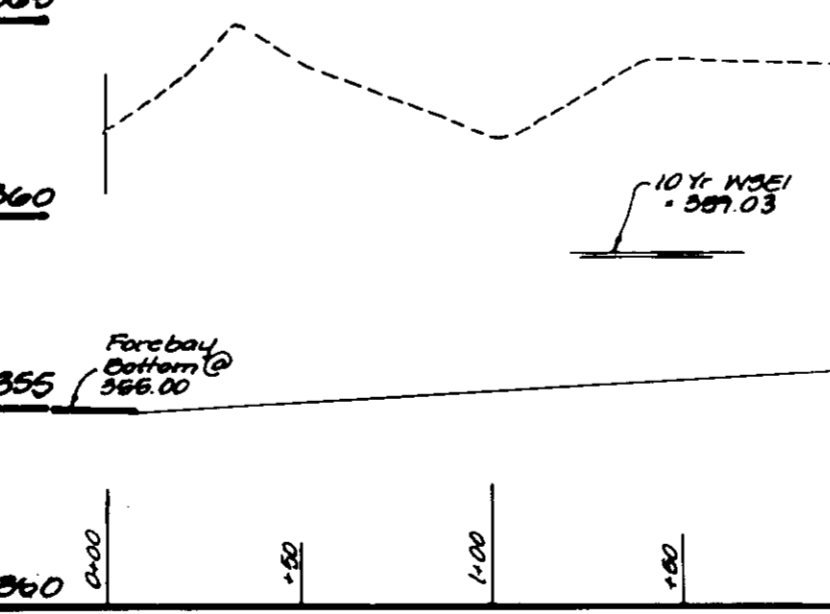
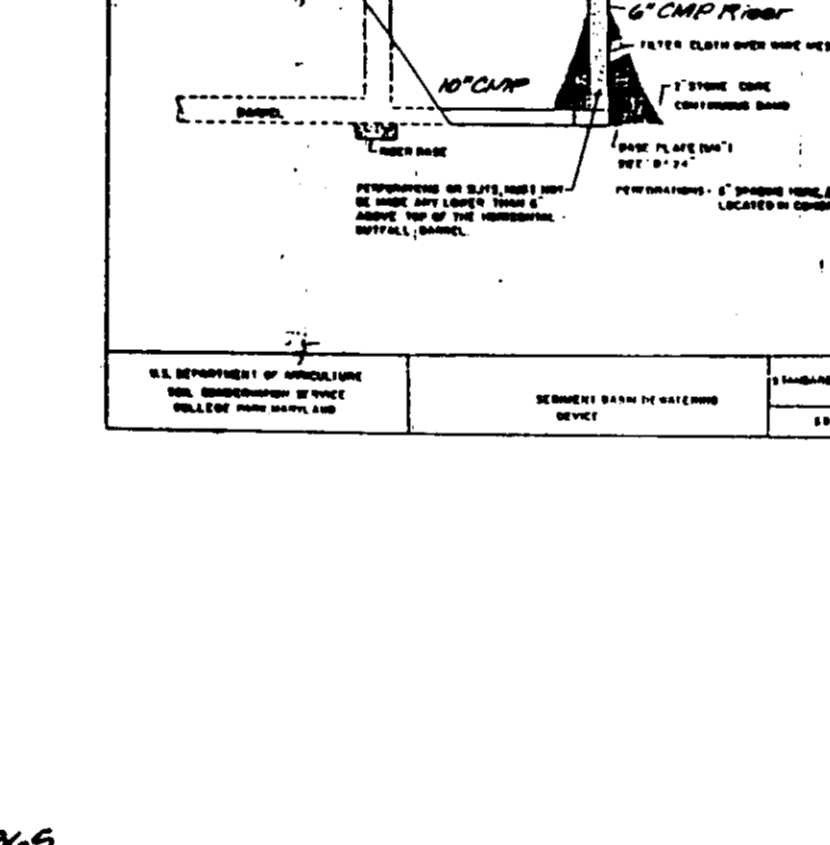
Note: 1. Riser 4" slab should be bermed to riser.  
2. Provide hand rail per detail 1-11-4.



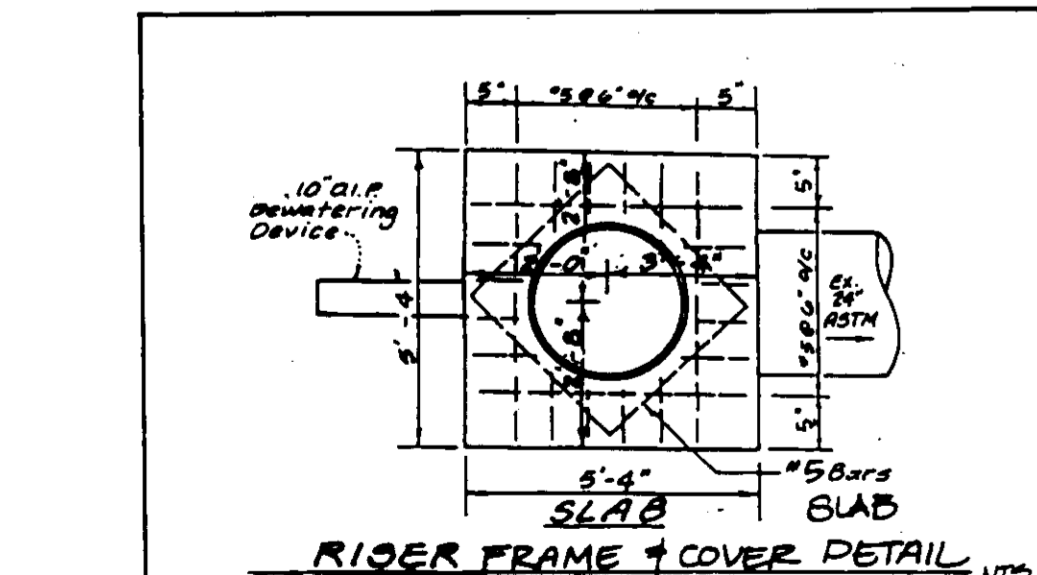
Notes: 1. All joints must meet ASTM C801 specifications  
2. Gate valves must provide a minimum design life of 75 years or greater.



Construction Specifications:  
1. Fence posts shall be a minimum of 3/4" long or 1 1/2" diameter into the ground. Wood posts shall be 1 1/2" x 1 1/2" square (minimum cut) or 1 1/2" diameter minimum (round) and shall be of sound quality hardwood. Steel posts will be standard I or U section with a minimum of 1.00 pound per linear foot.  
2. Geotextile shall be fastened securely to each fence post with wire ties or staples on top and intersection and shall meet the following requirements for geotextile class:  
Tensile Strength: 50 lbs/in. (min.) Test: MSMT 509  
Tensile At Break: 20 lbs/in. (min.) Test: MSMT 509  
Flow Rate: 0.3 gal/min/ft. (min.) Test: MSMT 322  
Filtering Efficiency: 75% (min.) Test: MSMT 322  
3. Where ends of geotextile fabric come together, they shall be overlapped, folded and stapled to prevent sediment bypass.  
4. Silt Fence shall be inspected after each rainfall event and maintained when bulges occur or when sediment accumulation reaches 50% of the fabric height.



NO.	DATE	DESCRIPTION
1	4-97	REVISE SWALE PROFILE COMPUTATIONS



APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING  
Director: [Signature] 6/14/96 DATE  
Chief, DIVISION OF LAND DEVELOPMENT AND RESEARCH: [Signature] 6/14/96 DATE  
HOWARD SOIL CONSERVATION DISTRICT: [Signature] 6/14/96 DATE

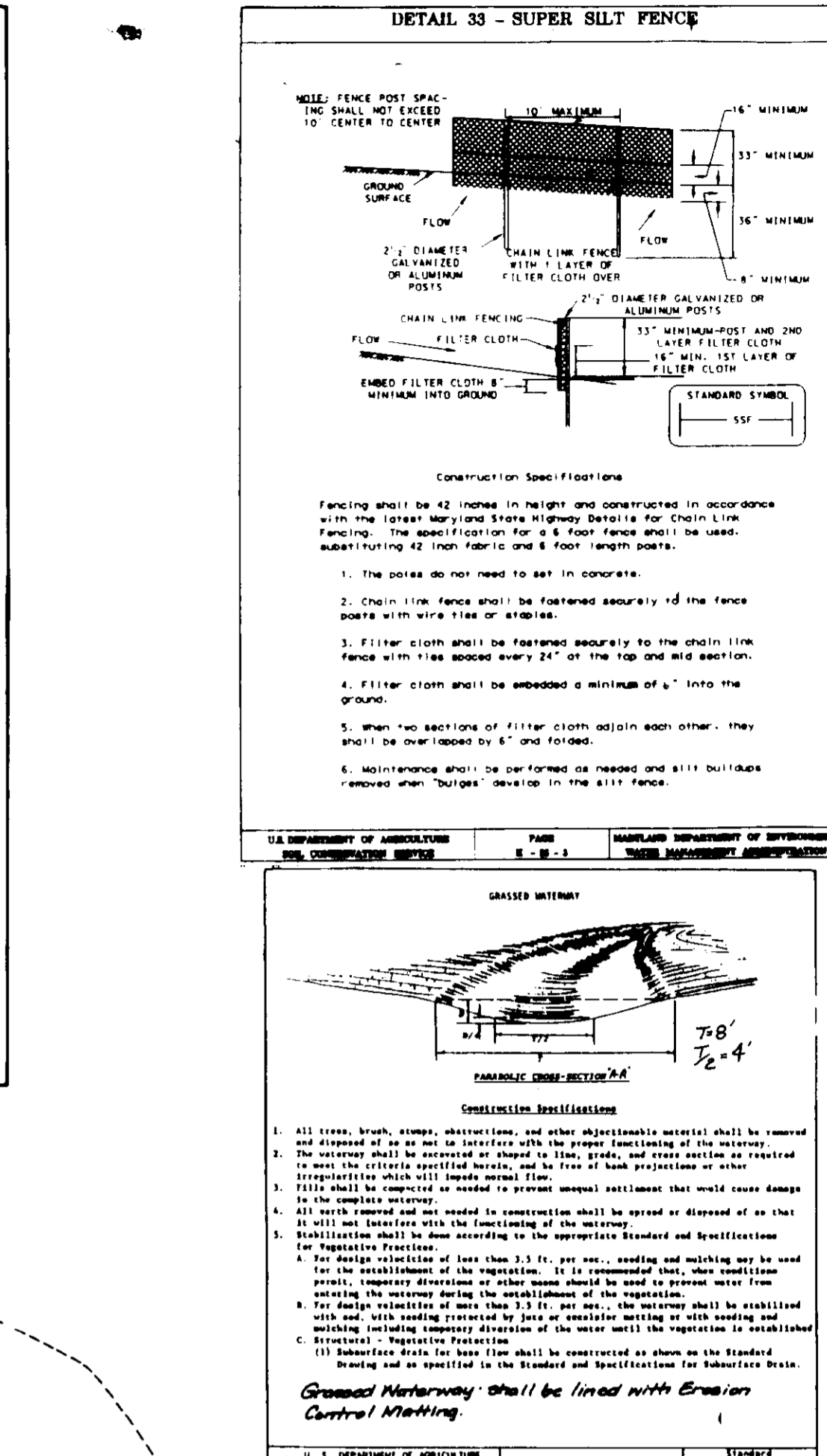
ENGINEER'S CERTIFICATE  
I HEREBY CERTIFY THAT THE DEVELOPMENT AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND FEASIBLE PLAN, BASED ON MY PERSONAL KNOWLEDGE OF THE SITE, AND THAT THE SAME WAS PREPARED IN ACCORDANCE WITH REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.  
Signature: Bruce D. B... DATE: 4/29/96  
DEVELOPER'S CERTIFICATE  
I HEREBY 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 THE ENVIRONMENT 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: [Signature] DATE: 2/11/96

ENGINEER'S CERTIFICATE  
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Signature: [Signature] DATE: 2/11/96

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I HEREBY CERTIFY THAT THE DEVELOPMENT AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND FEASIBLE PLAN, BASED ON MY PERSONAL KNOWLEDGE OF THE SITE, AND THAT THE SAME WAS PREPARED IN ACCORDANCE WITH REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.  
Signature: Bruce D. B... DATE: 4/29/96  
DEVELOPER'S CERTIFICATE  
I HEREBY 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 THE ENVIRONMENT 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: [Signature] DATE: 2/11/96



Construction Specifications:  
1. All steel, brush, stone, geotextiles, and other geotextiles materials shall be removed and disposed of as and in accordance with the proper handling of the material.  
2. The geotextile shall be installed in accordance with the manufacturer's instructions and shall be fastened to the fence posts with wire ties or staples.  
3. The geotextile shall be fastened to the fence posts with wire ties or staples on top and intersection and shall meet the following requirements for geotextile class:  
Tensile Strength: 50 lbs/in. (min.) Test: MSMT 509  
Tensile At Break: 20 lbs/in. (min.) Test: MSMT 509  
Flow Rate: 0.3 gal/min/ft. (min.) Test: MSMT 322  
Filtering Efficiency: 75% (min.) Test: MSMT 322  
4. Where ends of geotextile fabric come together, they shall be overlapped, folded and stapled to prevent sediment bypass.  
5. Silt Fence shall be inspected after each rainfall event and maintained when bulges occur or when sediment accumulation reaches 50% of the fabric height.

Centre 9500  
9250 Rumsey Road, Suite 106, Columbia, MD. 21045  
(410) 715-1070 (301) 596-3424 (410) 715-9540 (Fax)

**LDE, INC.**  
SITE DEVELOPMENT PLAN  
Grading & Sediment and Erosion Control Details  
CENTRE 9500 - PARCELS A & D  
MASS GRADING

Tax Map #97 P/O Parcel 640  
1ST Election District Howard County, Maryland  
Owner / Developer 100 INVESTMENT LIMITED PARTNERSHIP  
8835 Columbia 100 Parkway, Unit P  
Columbia, Maryland 21045  
(410) 730-0810

# POUND CONSTRUCTION SPECIFICATIONS

These specifications are appropriate to all ponds within the scope of the Standard for Practice MD-37B. All references to ASTM and AASHTO specifications apply to the most recent version.

### 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 shore breaks shall be sloped to no steeper than 1:1.

Areas to be covered by the reservoir will be cleared of all trees, brush, logs, fences, rubbers, and other objectionable material unless otherwise designated on the plans. Trees, brush and stumps shall be cut approximately level to the ground surface. For dry stormwater management ponds, a minimum of a 50 foot radius around the inlet structure shall be cleared.

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.

### EARTH FILL

**Material** - The fill material shall be taken from approved designated borrow areas. It shall be free of roots, stumps, wood, rubbers, stones greater than 6", frozen or other objectionable materials. Fill material for the center of the embankment and cut-off trench shall conform to Unified Soil Classification GC, SC, CH, or CL. Consideration may be given to the use of other materials in the embankment if design and construction are supervised by a geotechnical engineer.

**Placement** - Areas on which fill is to be placed shall be inspected prior to the placement of fill. The material shall be placed in a minimum of 6 inch thick layers (before compaction) layers which are to be continuous over the entire length of the embankment. The narrow material shall be placed in the downstream portions of the embankment. The principal spillway must be installed concurrently with fill placement and not excavated into 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 will be obtained with the equipment used. The fill material shall contain sufficient moisture so that if formed into a ball it will not crumble yet not be so wet that water can be squeezed out.

Where a minimum required density is specified, it shall not be less than 95% of maximum dry density with a moisture content within +/- 2% of the optimum. Each layer of fill shall be compacted as necessary to obtain that density, and is to be certified by the Engineer at the time of construction. All compaction to be determined by AASHTO Method T-99.

**Cut off Trench** - The cutoff trench shall be excavated into impervious material along or parallel to the centerline of the embankment and shall be covered with a bottom width of the trench shall be governed by the equipment used for excavation, with the minimum width being four feet. The depth shall be at least four feet below existing grade or as shown on the plans. The side slopes of the trench shall be 1 to 1 of flatter. The backfill shall be compacted with construction equipment, rollers, or hand tampers to assure maximum density and minimum permeability.

### STRUCTURAL BACKFILL

Backfill adjacent to pipes or structures 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 manually directed compaction equipment. The material needs to fill completely all spaces under and adjacent to the pipe. At no time during the backfilling operation shall 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 compacted fill of 24" or greater over the structure or pipe.

### PIPE CONDUITS

All pipes shall be circular in cross section.

**CORRUGATED METAL PIPE** - All of the following criteria shall apply for corrugated metal pipe:

- 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-192 Type A with water tight coupling bands. A luminous coating damaged or otherwise removed shall be replaced with cold applied bituminous coating compound. Steel pipes with polymeric coatings have a minimum coating thickness of 0.01 inch (0.25 mil) on both sides of the pipe. The following coating or an approved equal may be used: Nexon, Plast-Coat, Black-Kod, and Beth-Co-Lay. Coated corrugated steel pipe shall meet the requirements of AASHTO M-245 and M-246.
- Materials** - (Aluminum Coated Steel Pipe) - This pipe and its appurtenances shall conform to the requirements of AASHTO Specification M-274 with water tight coupling bands or flanges. Any aluminum coating damaged or otherwise removed shall be replaced with cold applied bituminous coating compound.
- Materials** - (Aluminum Pipe) - This pipe and appurtenances shall conform to the requirements of AASHTO Specifications M-196 or M-211 with water tight coupling bands or flanges. 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 between 4 and 9.

- 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 material of at least 24 mils in thickness.
  - Connections - All connections with pipes must be completely watertight. The drain or barrel connection to the riser shall be welded at ground when the pipe and riser are metal. Anti-seep collars shall be connected to the pipe in such a manner as to be completely watertight. Simple bands are not considered to be watertight.
- All connections shall use a rubber or neoprene gasket when joining pipe sections. The end of each pipe shall be re-rolled on an adequate number of corrugations to accommodate the bands. The following type connections are approved for pipes less than 24" in diameter: flanges on both ends of the pipe, a 12 inch wide standard lap type band with 12" wide by 3/8" thick closed cell circular neoprene gasket; and a 12 inch wide hugger type band with O-ring gaskets having a minimum diameter of 1/2 inch greater than the corrugated depth. Pipes 24" in diameter and larger shall be connected by a 24" long circular corrugated band using cold and hot laps. A 12" wide by 3/8" thick closed cell circular neoprene gasket will be installed on the end of each pipe for a total of 24".

- Helically corrugated pipe shall have either continuously welded seams or have loose seams with internal caulking or a neoprene bead.
- Bedding** - The pipe shall be firmly and uniformly bedded throughout its entire length. Where rock or soft, spongy or other unstable soil is encountered, such material shall be removed and replaced with suitable earth compacted to provide adequate support.
- Backfilling shall conform to "Structure Backfill."
- Other details (anti-seep collars, valves, etc.) shall be as shown on the drawings.

**REINFORCED CONCRETE PIPE** - All of the following criteria shall apply for reinforced concrete pipe:

- Materials** - Reinforced concrete pipe shall have bell and spigot joints with rubber gaskets and shall equal or exceed ASTM Designation C-361.
- 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 inches, or as shown on the drawings.

- 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 seated for the entire bedding, the pipe shall be placed so that all spaces under the pipe are filled. Care shall be exercised to prevent any deviation from the vertical and grade of the pipe. The first joint must be located within 2 feet from the riser.

- Backfilling shall conform to "Structure Backfill."
- Other details (anti-seep collars, valves, etc.) shall be as shown on the drawings.

**POLYVINYL CHLORIDE (PVC) PIPE** - All of the following criteria shall apply for polyvinyl chloride (PVC) pipe:

- Materials** - PVC pipe shall be PVC-1120 or PVC-1220 conforming to ASTM D-1785 or ASTM D-2241.
- Joints and connections** to anti-seep collars shall be completely watertight.
- Bedding** - The pipe shall be firmly and uniformly bedded throughout its entire length. The bedding shall consist of compacted earth. Such material shall be removed and replaced with suitable earth compacted to provide adequate support.
- Backfilling shall conform to "Structure Backfill."
- Other details (anti-seep collars, valves, etc.) shall be as shown on the drawings.

### CONCRETE

Concrete shall meet the requirements of Maryland Department of Transportation, State Highway Administration Standard Specifications for Construction and Materials, Section 505, Mix No. 3.

### ROCK RIPRAP

Rock riprap shall meet the requirements of Maryland Department of Transportation, State Highway Administration Standard Specifications for Construction and Materials, Section 905.

The riprap shall be placed to the required thickness in one operation. The rock shall be delivered and placed in a manner that will insure the riprap in place shall be reasonably homogeneous with the larger rocks uniformly distributed and firmly in contact one to another with the smaller rocks filling the voids between the larger rocks. Filter cloth shall be placed under all riprap and shall meet the requirements of Maryland Department of Transportation, State Highway Administration Standard Specifications for Construction and Materials, Section 919.12.

### CARE OF WATER DURING CONSTRUCTION

All work on permanent structures shall be carried out in areas free from water. The Contractor shall construct and maintain all temporary dikes, levees, cofferdams, drainage channels, and stream diversions necessary to protect the areas to be occupied by the permanent works. The Contractor shall also furnish, install, operate and maintain all necessary pumping and other equipment required for removal of water from the various parts of the work and for maintaining the excavations, foundation, and other parts of the work free from water as required or directed by the engineer for constructing each part of the work. After having served their purpose, all temporary protective works shall be removed or leveled and graded to the extent required to prevent obstruction in any degree whatsoever of the flow of water to the spillway or outlet works and so as not to interfere in any way with the operation or maintenance of the structure. Stream diversions shall be maintained until the full flow can be passed through the permanent works. The removal of water from the required excavations and the foundation shall be accomplished in a manner and to the extent that will maintain stability of the material in required excavations, the water level of the locations being drilled shall be maintained below the bottom of the excavation of such locations which may require draining the water to sumps from which the water shall be pumped out.

### STABILIZATION

All borrow areas shall be graded to provide proper drainage and left in a slightly rough condition. All exposed surfaces of the embankment, narrow areas, and berms shall be stabilized by seeding, liming, fertilizing and mulching in accordance with the Maryland Soil Conservation Service Standards and Specifications for Critical Area Planting (M-C-342) or as shown on the accompanying drawings.

### 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 control shall be followed. Construction plans shall detail erosion and sediment control measures to be employed during the construction process.

### OPERATION AND MAINTENANCE SCHEDULE

Activity	Frequency
Top and side slopes of the embankment shall be mowed a minimum of two (2) times a year, once in June and once in September. Other side slopes and maintenance areas should be mowed as needed.	Annually
Debris and litter need to be outlet structure shall be removed during regular mowing operations and as needed.	As Needed
When deemed necessary for aesthetic reasons, sediment should be removed from the pond. Approval of the Department of Public Works is required.	As Needed

NOTE: FOR SOIL BORING LOGS PLEASE REFER TO THE APPROVED 30P95-105 & P94-28 PLAN SUBMISSIONS.

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING	DATE: 6/14/96
DIRECTOR: [Signature]	DATE: 6/14/96
CHEF DIVISION OF LAND DEVELOPMENT AND RESEARCH	DATE: 6/10/96

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.

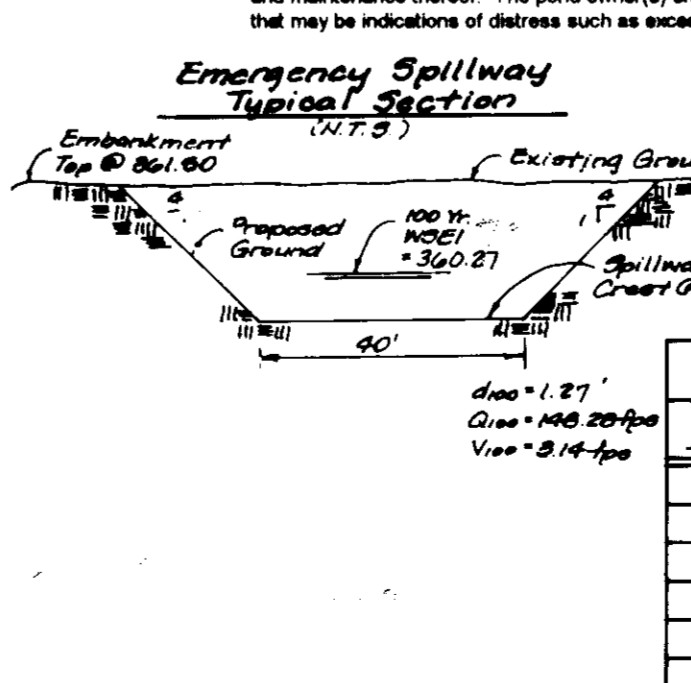
ENGINEER'S CERTIFICATE  
 I certify that this plan for pond construction, erosion and sediment control represents a defensible, workable plan based on my personal knowledge and the specifications of the Howard Soil Conservation District. I have supervised or supervised the construction of similar ponds and am qualified to supervise pond construction and 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 Howard Soil Conservation District.

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 of a Department of the Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project. I shall engage a registered professional engineer to supervise pond construction and 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 Howard Soil Conservation District.

ENGINEER'S CERTIFICATE  
 I certify that this plan for pond construction, erosion and sediment control represents a defensible, workable plan based on my personal knowledge and the specifications of the Howard Soil Conservation District. I have supervised or supervised the construction of similar ponds and am qualified to supervise pond construction and 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 Howard Soil Conservation District.

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NO.	DATE	BY	DESCRIPTION
1	4-97	LDE	CROSS OUT FOREBAY DETAILS, ADD NOTE

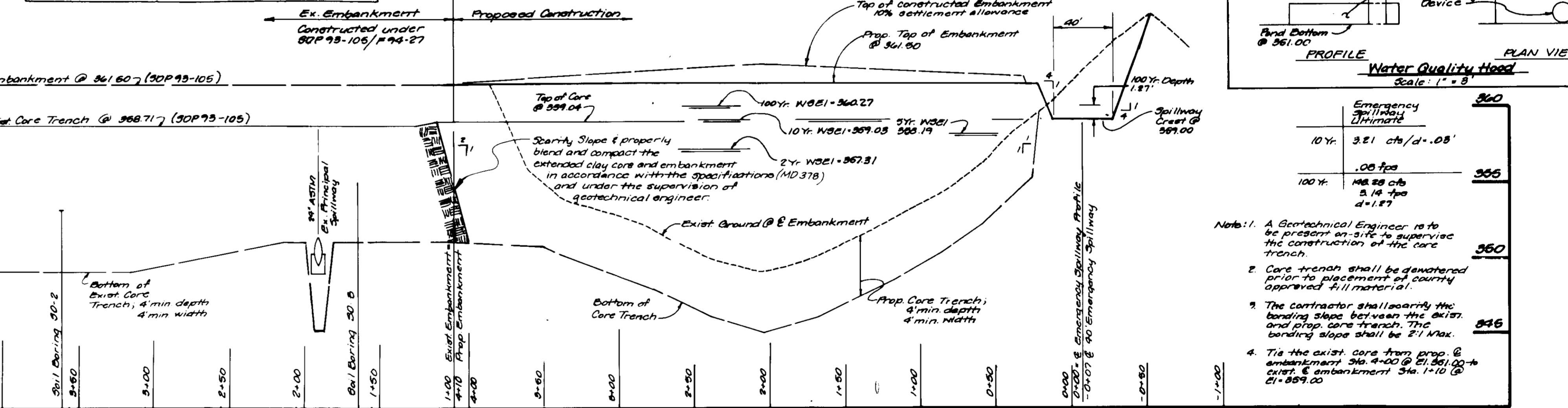
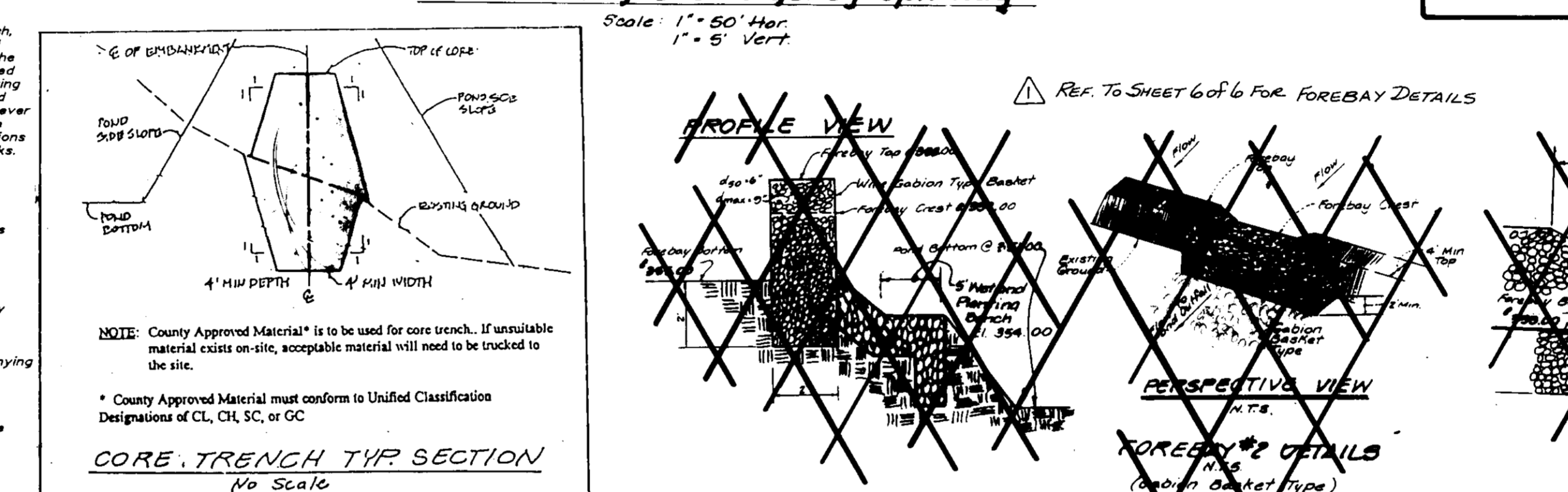
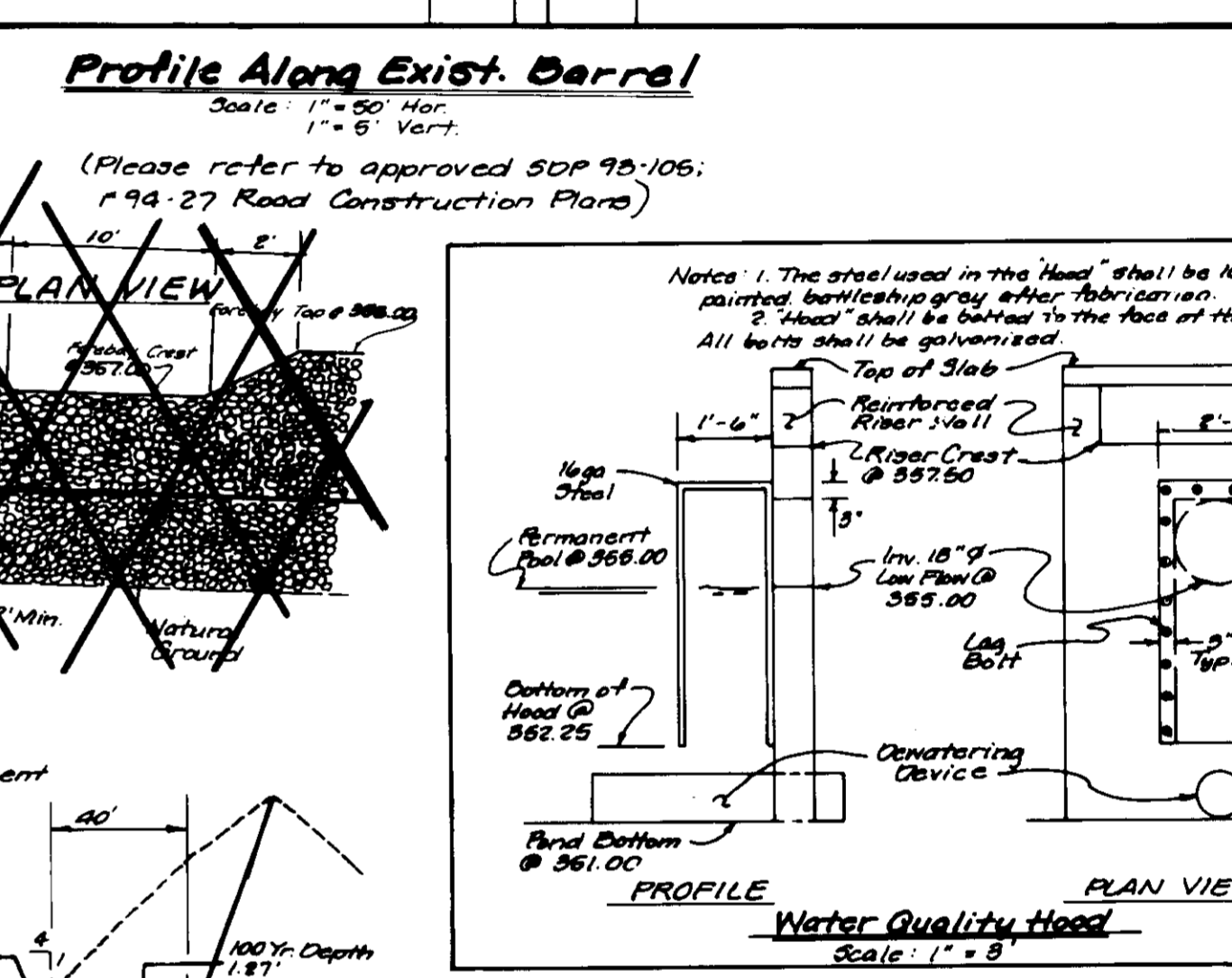
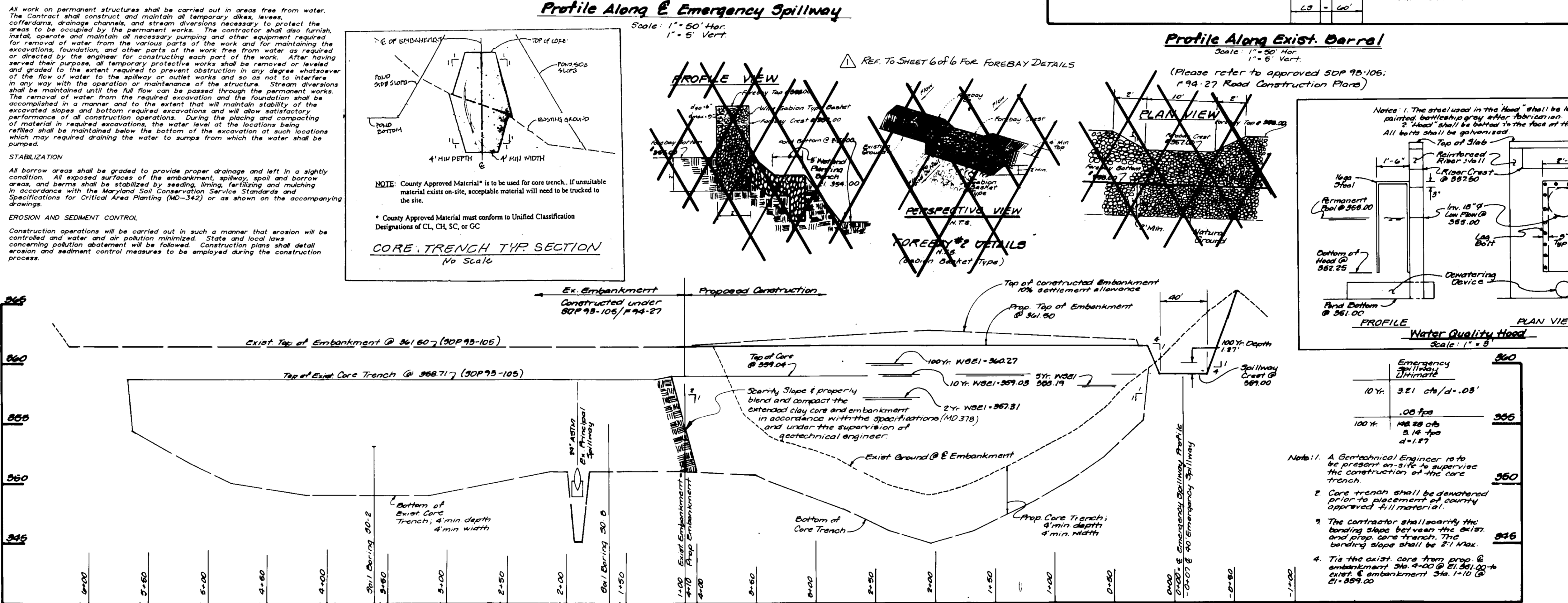


DESIGNED: E.D.S.	SCALE: As Shown
DRAWN: B.E.I.	DRAWING: 4 of 6
CHECKED: B.D.B.	JOB NO.: 95-078
DATE: April 1996	FILE NO.: 30P96-92

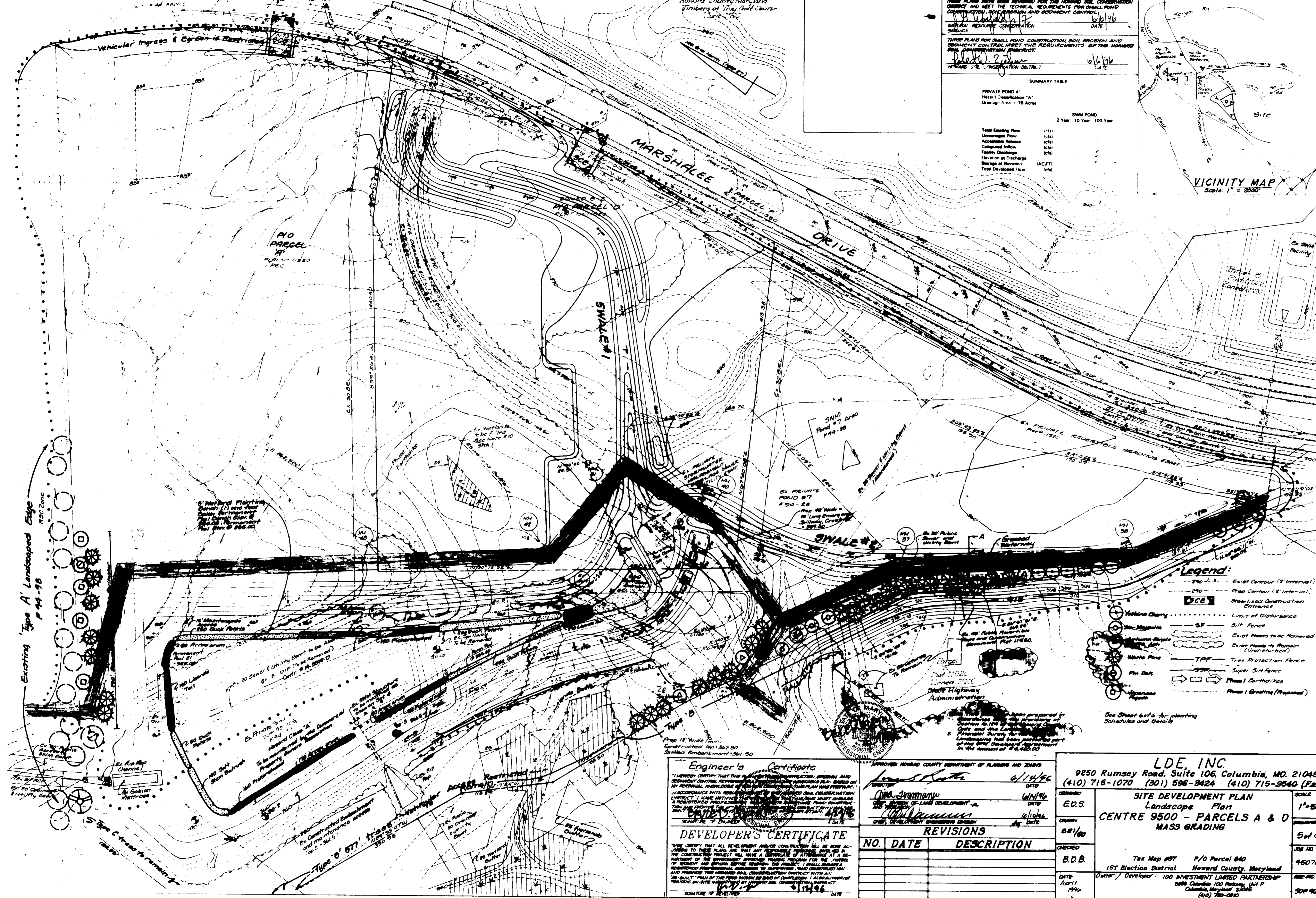
**LDE, INC.**  
 9250 Rumsey Road, Suite 106, Columbia, MD. 21045  
 (410) 715-1070 (301) 596-3424 (410) 715-9540 (Fax)

**SITE DEVELOPMENT PLAN**  
 Stormwater Management Details  
**CENTRE 9500 - PARCELS A & D**  
 MASS GRADING

Tax Map #37 P/O Parcel 640  
 1ST Election District Howard County, Maryland  
 Owner / Developer: 100 INVESTMENT LIMITED PARTNERSHIP  
 8835 Columbia 100 Parkway, Unit P  
 Columbia, Maryland 21045  
 (410) 730-0810



SUBDIVISION NAME	Centre 9500	SECTION/AREA	PARCEL NO.
PLAT NO.	11519	TAX MAP NO.	37
BLOCK NO.	10, 11	ELECTION DISTRICT	1st
ZONE	PEC	DISTRICT	6011
WATER CODE	N/A	SEWER CODE	N/A



THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SMALL POND CONSTRUCTION, EROSION CONTROL AND SEDIMENT CONTROL.  
 DATE: 6/16/96  
 NATURAL RESOURCE CONSERVATION DISTRICT

THESE PLANS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.  
 DATE: 6/16/96  
 HOWARD SOIL CONSERVATION DISTRICT

**SUMMARY TABLE**  
 PRIVATE POND #1  
 Hazell Classification "A"  
 Drainage Area = 78 Acres

	SWM POND		
	2 Year	10 Year	100 Year
Total Existing Flow	(cfs)		
Unmanaged Flow	(cfs)		
Acceptable Release	(cfs)		
Computed Inflow	(cfs)		
Facility Discharge	(cfs)		
Elevation at Discharge	(ACFT)		
Storage at Elevation	(cfs)		
Total Developed Flow	(cfs)		

**VICINITY MAP**  
 Scale: 1" = 2000'

Existing 'Type A' Landscaped Edge  
 F 94-98  
 R02 Zone

- Legend:**
- EXIST Contour (2' Interval)
  - PROP Contour (2' Interval)
  - SCS Stabilized Construction Entrance
  - Limit of Disturbance
  - Silt Fence
  - Existing Woods to be Removed (Undisturbed)
  - Tree Protection Fence
  - Super Silt Fence
  - Phase I Control Key
  - Phase I Grading (Proposed)

**Engineer's Certificate**  
 I HEREBY CERTIFY THAT THIS PLAN FOR CONSTRUCTION, EROSION AND SEDIMENT CONTROL, EROSION CONTROL AND SEDIMENT CONTROL PLAN, BASED ON MY PERSONAL KNOWLEDGE OF THE SUBJECT PROPERTY AND THIS PLAN HAS PREPARED IN ACCORDANCE WITH THE HOWARD SOIL CONSERVATION DISTRICT'S REGULATIONS AND STANDARDS. I HAVE NOTIFIED THE DISTRICT OF ANY CHANGES TO THE PLAN AND HAVE OBTAINED THEIR APPROVAL. I AM A LICENSED PROFESSIONAL ENGINEER IN THE STATE OF MARYLAND.  
 DATE: 6/16/96  
 SIGNATURE OF ENGINEER: [Signature]

**DEVELOPER'S CERTIFICATE**  
 I HEREBY 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 REPRESENTATIVE OF THE DISTRICT APPROVED TRAINING PROGRAM FOR THE "CONTROL OF EROSION AND SEDIMENTATION" COURSE. I SHALL OBTAIN A PROFESSIONAL ENGINEER'S SIGNATURE TO SUPERVISE, AND CONSTRUCTION AND PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN "AS-BUILT" PLAN OF THE POND WITHIN 90 DAYS OF COMPLETION. I ALSO HEREBY CERTIFY THAT THE SITE IS NOT TO BE USED FOR CONSTRUCTION.  
 DATE: 6/16/96  
 SIGNATURE OF DEVELOPER: [Signature]

APPROVED HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

DATE: 6/14/96  
 DATE: 6/14/96  
 DATE: 6/14/96

**REVISIONS**  
 NO. DATE DESCRIPTION

NO.	DATE	DESCRIPTION

**LDE, INC.**  
 9250 Rumsey Road, Suite 106, Columbia, MD. 21045  
 (410) 715-1070 (301) 596-3424 (410) 715-9540 (Fax)

**SITE DEVELOPMENT PLAN**  
 Landscape Plan  
**CENTRE 9500 - PARCELS A & D**  
 MASS GRADING

SCALE: 1" = 50'  
 SHEETS: 5 of 6  
 JOB NO.: 95078  
 DATE: April 1996

Tax Map #97 P/O Parcel #40  
 1ST Election District Howard County, Maryland  
 Owner/Developer: 100 INVESTMENT LIMITED PARTNERSHIP  
 8888 Columbia 100 Parkway, Unit P  
 Columbia, Maryland 21045  
 (410) 780-0910

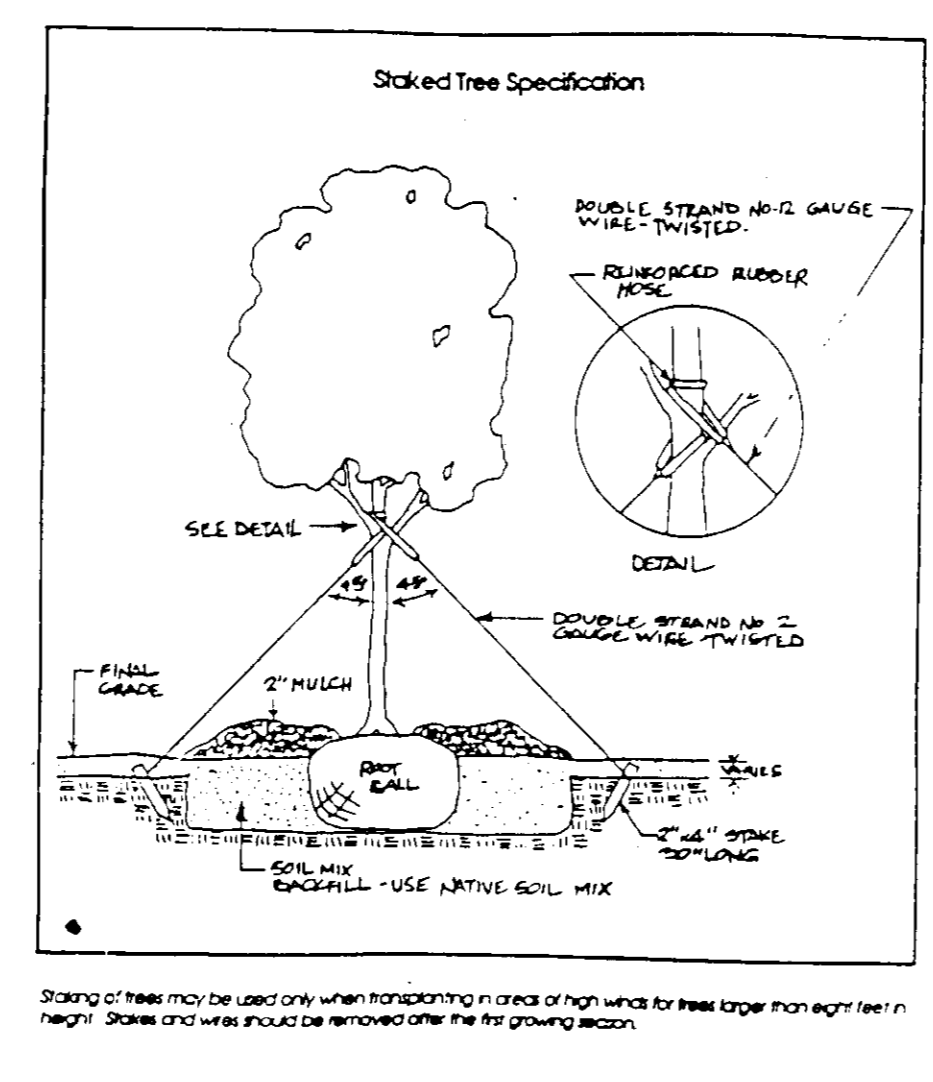
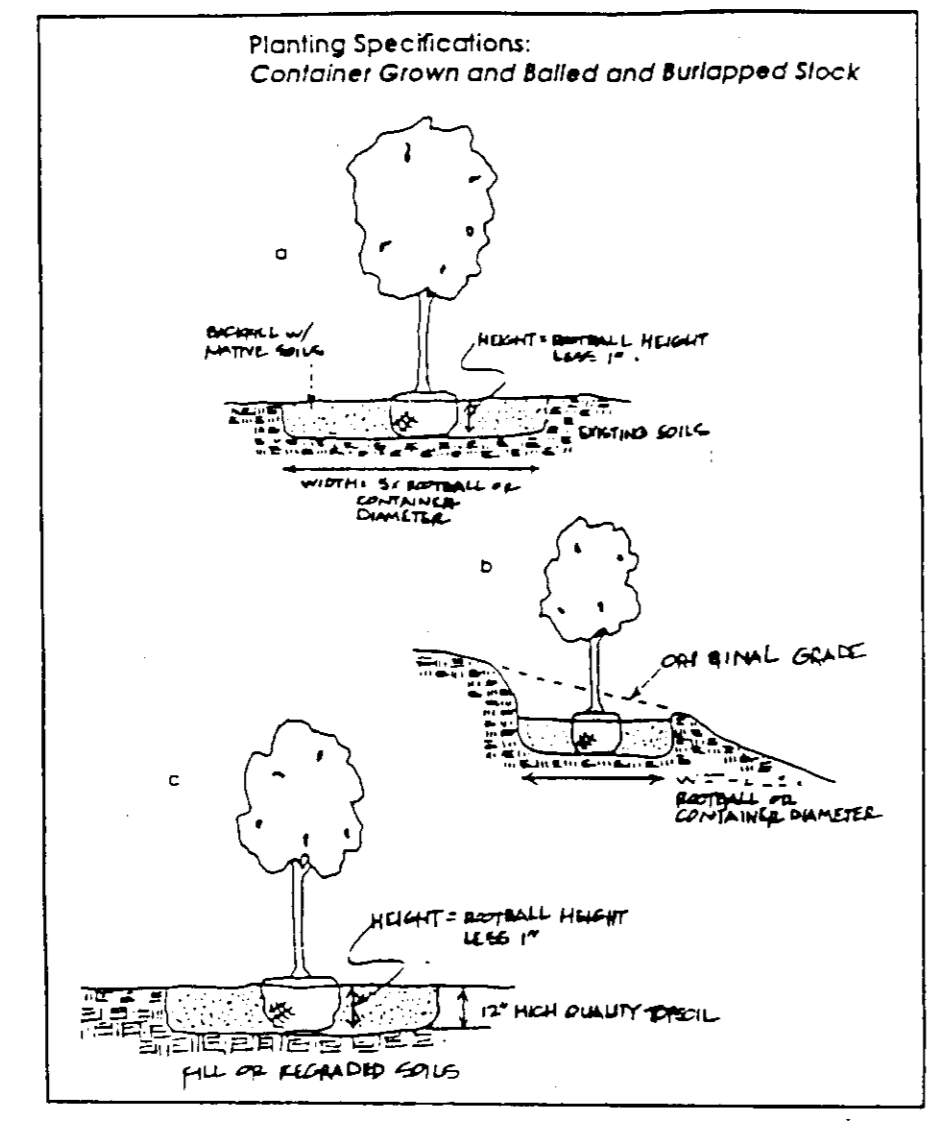
PERIMETER AND STORMWATER MANAGEMENT PLANTING SCHEDULE

Quantity	KEY	BOTANICAL / COMMON NAME	SIZE	CONDITION
6	⊙	prunus yedoensis Yoshino Cherry	1.5" - 2" cal.	B&B
4	⊙	magnolia stellata Star Magnolia	6' - 8' height	B&B
8	⊙	prunus americana Autumn Purple White Ash	2.5" - 3" cal.	B&B
1	⊙	quercus palustris 'Sovereign' Sovereign pin oak	2.5"-3" cal	B&B
4	⊙	Sophia japonica Regent Japanese Pagoda	2.5' - 3' cal	B&B
30	⊙	Pinus strobus Eastern White Pine	6'-8' height	B&B

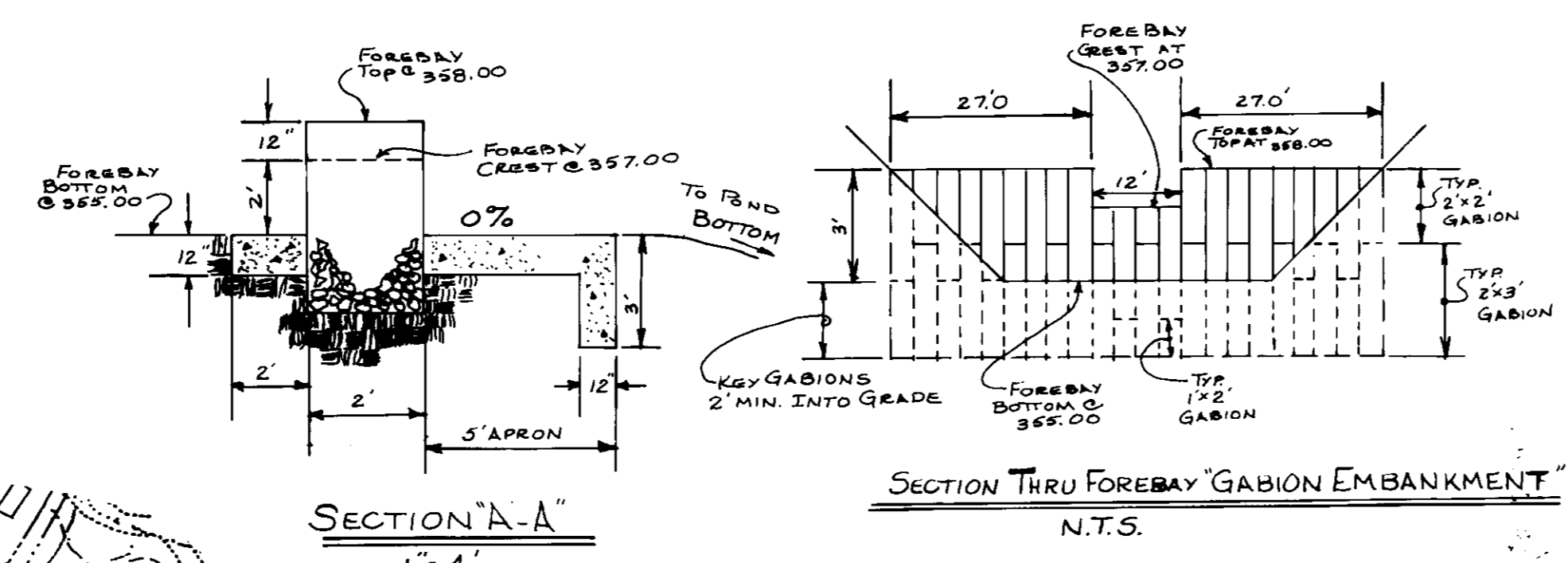
SCHEDULE A PERIMETER LANDSCAPE EDGE		SCHEDULE A PERIMETER LANDSCAPE EDGE	
Landscaping Type	Quantity	Landscaping Type	Quantity
Linear Feet of Roadway Frontage/Perimeter	1490	Linear Feet of Roadway Frontage/Perimeter	165
Credit for Existing Vegetation (Yes, No, Linear Feet) (Describe below if needed)	YES # 577	Credit for Existing Vegetation (Yes, No, Linear Feet) (Describe below if needed)	YES # 185
Credit for Wall, Fence or Barn (Yes, No, Linear Feet) (Describe below if needed)	NO	Credit for Wall, Fence or Barn (Yes, No, Linear Feet) (Describe below if needed)	NO
Number of Plants Provided	18	Number of Plants Provided	8
Shade Trees (1-80)	23	Shade Trees (1-80)	0
Evergreen Trees (1-40)	23	Evergreen Trees (1-40)	0
Other Trees (1-Substitution)		Other Trees (1-Substitution)	

WETLAND PLANTING @ 5' BENCH - POND #1

NO.	KEY	BOTANICAL / COMMON NAME	SIZE	COMMENT
800	⊙	Sagittaria latifolia Duck Potato	Containers or Peat Pots	Avg Spacing 18"
800	⊙	Scirpus validus Soft-stem Bulrush	Containers or Peat Pots	Avg Spacing 18"
430	⊙	Saururus cernuus Lizard's Tail	Containers or Peat Pots	Avg Spacing 18"
430	⊙	Pontederia cordata Pickerelweed	Containers or Peat Pots	Avg Spacing 18"
430	⊙	Peltandra virginica Arrow arum	Containers or Peat Pots	Avg Spacing 18"

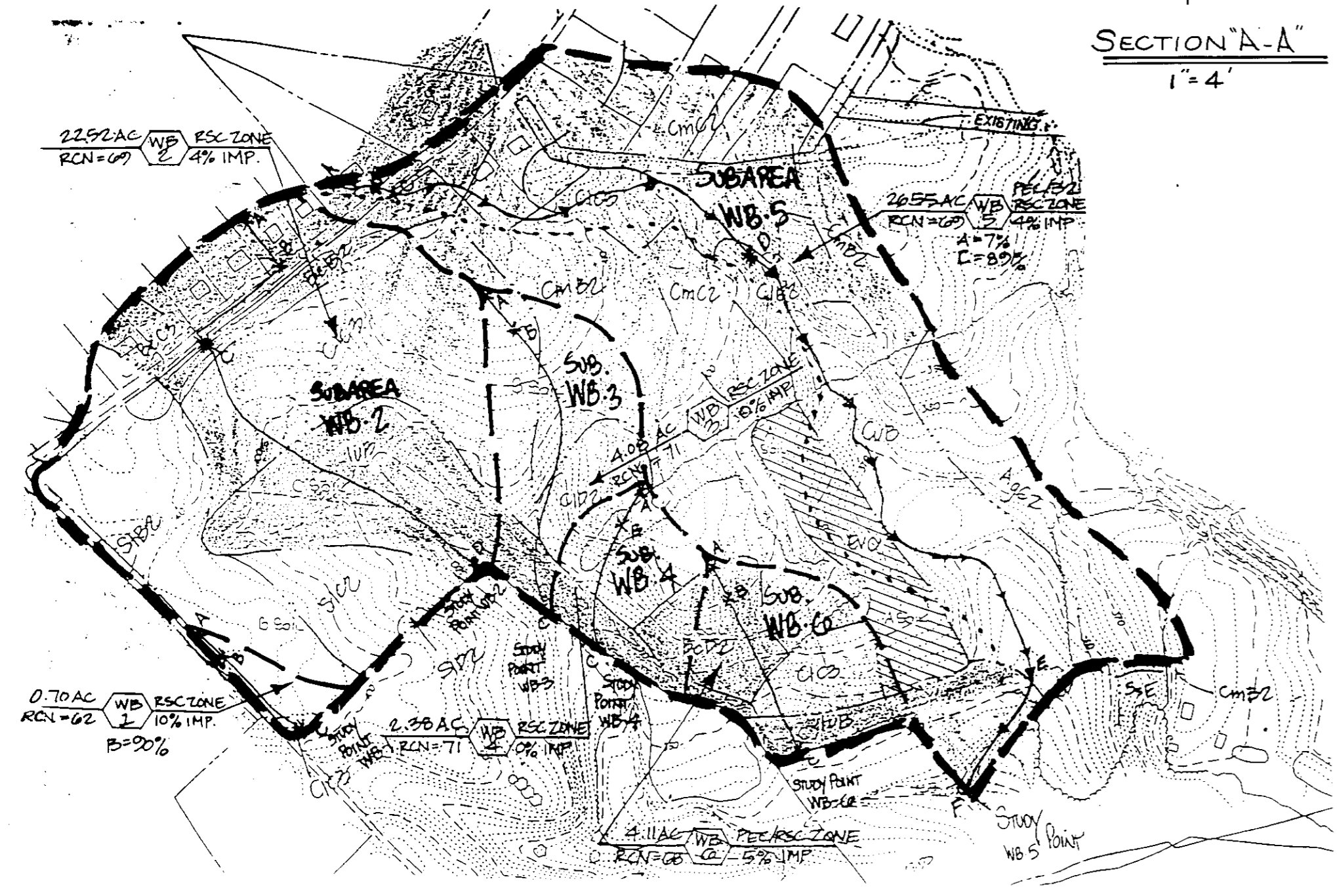


GABION FOREBAY DETAILS

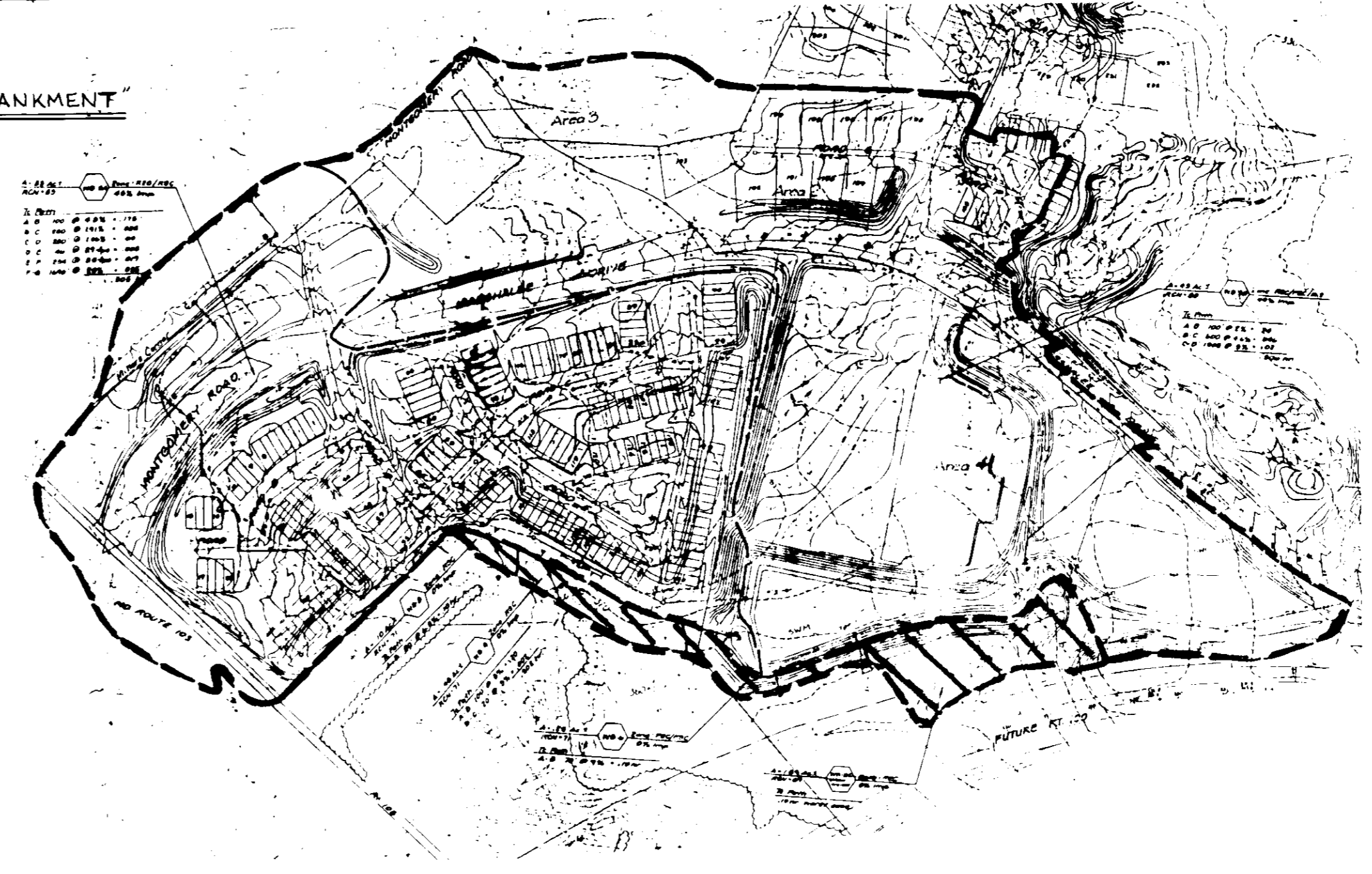


GABION FOREBAY NOTES

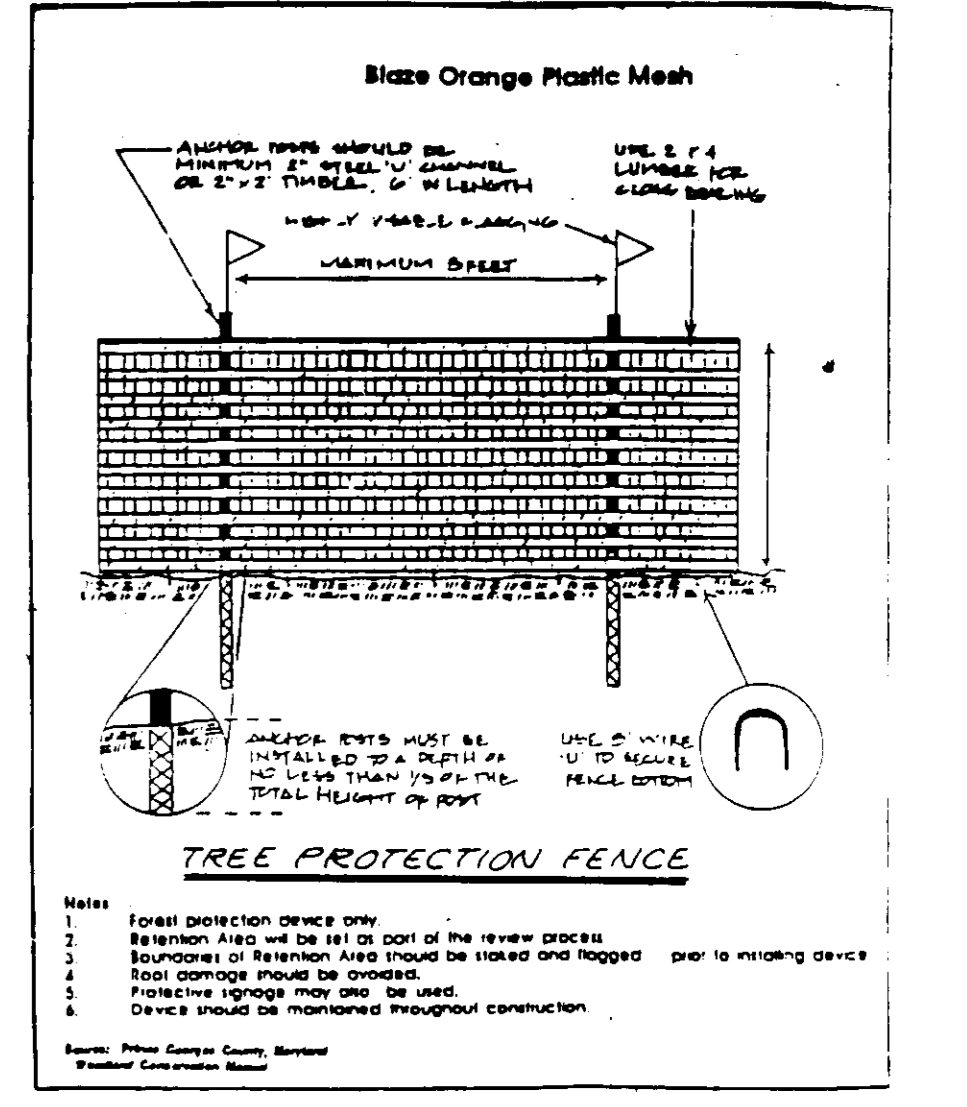
1. ALL WIRE USED IN GABION CONSTRUCTION SHALL BE GALVANIZED.
2. FILTER CLOTH SHALL BE PLACED WHENEVER GABION CONTACTS SOIL.
3. STONE SHALL BE CLEAN & 4"-8" IN SIZE.
4. a) 27' SECTION, b) 12' SECTION
- 9) 2' TALL x 3' WIDE x 2' DEEP, 4) 1' TALL x 3' WIDE x 2' DEEP
- 9) 3' TALL x 3' WIDE x 2' DEEP, 4) 3' TALL x 3' WIDE x 2' DEEP



Existing Conditions Drainage Area Map Scale 1"=300'



Constructed Conditions Drainage Area Map Scale: 1"=300'



<p>APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING</p> <p><i>[Signature]</i> 6/14/96 DATE</p> <p><i>[Signature]</i> 6/14/96 DATE</p> <p><i>[Signature]</i> 6/10/96 DATE</p>	<p>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.</p> <p><i>[Signature]</i> 6/6/96 DATE</p> <p>NATURAL RESOURCE CONSERVATION SERVICE</p> <p>THESE PLANS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.</p> <p><i>[Signature]</i> 6/6/96 DATE</p> <p>HOWARD SOIL CONSERVATION DISTRICT</p>	<p><b>ENGINEER'S CERTIFICATE</b></p> <p>"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 REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT."</p> <p><i>[Signature]</i> 4/29/96 DATE</p> <p>BRUCE D. BURTON</p> <p>SIGNATURE OF ENGINEER</p>	<p><b>DEVELOPER'S CERTIFICATE</b></p> <p>"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 THE ENVIRONMENT 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."</p> <p><i>[Signature]</i> 2/12/96 DATE</p> <p>SIGNATURE OF DEVELOPER</p>
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SUBDIVISION NAME	Centre 9500	SECTION/AREA	PARCEL NO.
PLAT NO.	11519, 11531	BLOCK NO.	10,11
WATER CODE	N/A	SEWER CODE	N/A

**LDE, INC.**  
9250 Rumsey Road, Suite 106, Columbia, MD. 21045  
(410) 715-1070 (301) 596-3424 (410) 715-9540 (Fax)

**SITE DEVELOPMENT PLAN**  
Landscape Details & Drainage Area Map  
CENTRE 9500 - PARCELS A & D  
MASS GRADING

DESIGNED: E.D.S.  
DRAWN: CAD  
CHECKED: B.D.B.  
DATE: Apr 1 1996

SCALE: AS SHOWN  
DRAWING: 6 of 6  
JOB NO.: 96078  
FILE NO.: SDP 96-92

Tax Map #97 P/O Parcel 640  
1ST Election District Howard County, Maryland  
Previous Submittals: SDP-02P93-11, F94-26, SDP93-105  
SDP 93-75, SDP 95-77, SDP 95-71  
Owner / Developer: 100 INVESTMENT LIMITED PARTNERSHIP  
8835 Columbia 100 Parkway, Unit P  
Columbia, Maryland 21045  
(410) 730-0810

BY	NO.	DATE	DESCRIPTION
LDE	1	4-97	ADD NEW FOREBAY DETAIL & NOTES