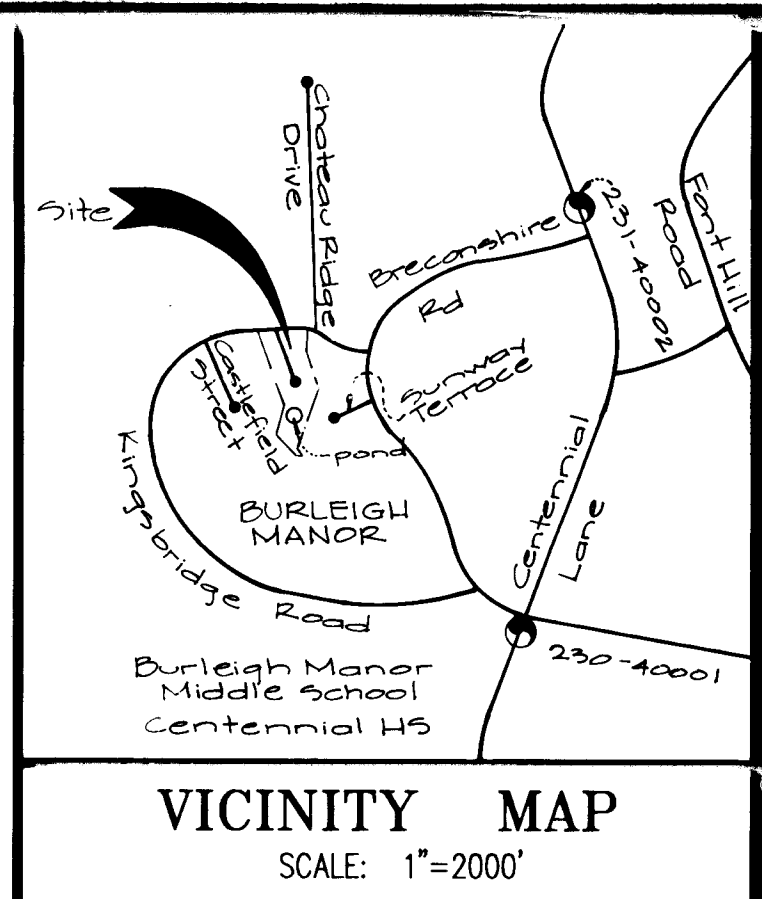
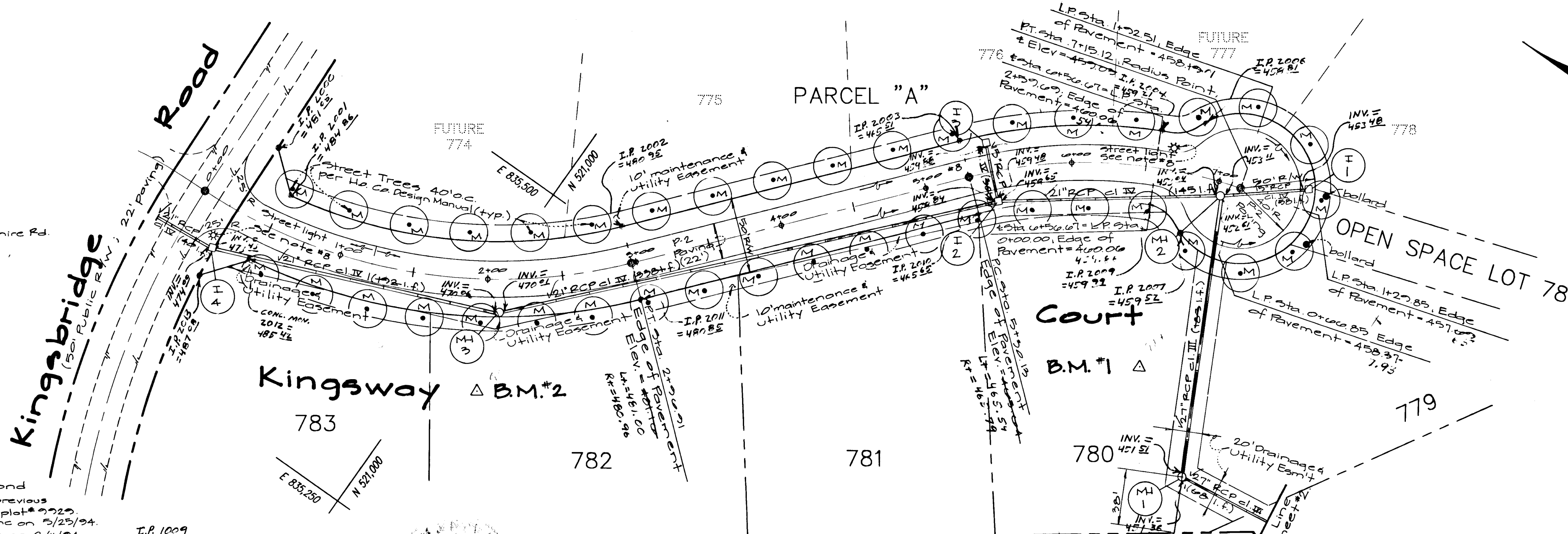


GENERAL NOTES

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF HOWARD COUNTY PLUS MSHA STANDARDS AND SPECIFICATIONS IF APPLICABLE.
2. THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS/BUREAU OF CONSTRUCTION INSPECTION AT (410) 313-1880 AT LEAST FIVE (5) WORKING DAYS PRIOR TO THE START OF WORK.
3. THE CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST (5) FIVE WORKING DAYS BEFORE STARTING WORK SHOWN ON THE PLANS:
 MISS UTILITY 1-800-257-7777
 CAP TELEPHONE COMPANY 725-9976
 HOWARD COUNTY BUREAU OF UTILITIES 313-4900
 AT&T CABLE LOCATION DIVISION 383-3553
 BALTIMORE GAS & ELECTRIC CO. 685-0123
 STATE HIGHWAY ADMINISTRATION 531-5533
4. PROJECT BACKGROUND:
 LOCATION Kingsbridge Rd, 1000' West of Breconshire Rd.
 TAX MAP 27 PARCEL A & B ZONING: R-20
 TOTAL TRACT AREA: 22.75 AC.
 SECTION AREA: 22.75 AC.
 NUMBER OF PROPOSED LOTS: 5
 APPROVED AND DPZ REFERENCE: 97-25, P. 25-05
5. 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.
6. TOPOGRAPHY SHOWN IS AT TWO FOOT CONTOUR INTERVALS AND WAS DETERMINED BY THE SURVEY WAS DONE USING AERIAL PHOTOGRAPHY, ON 4/10/94.
7. HORIZONTAL AND VERTICAL CONTROLS WERE ESTABLISHED USING HOWARD COUNTY CONTROL POINTS 200-1000 AND 201-4000.
8. LIGHT POLES AND FIXTURES FOR STREET LIGHTS SHALL BE IN ACCORDANCE WITH THE LATEST HOWARD COUNTY DESIGN MANUAL, VOLUME III, ROADS AND BRIDGES.
9. WATER AND SEWER FOR THIS PROJECT IS PUBLIC AND WILL BE CONSTRUCTED UNDER CONTRACT NUMBER 24-2490 D. THE SYSTEM IS WITHIN THE EFFLUENT DRAINAGE AREA.
10. STORMWATER MANAGEMENT PROVIDED BY detention/retention pond.
11. THE FLOODPLAIN EASEMENT shown was taken from a previous recorded plat for this subdivision, recording ref. is plot # 9725.
12. METLAND'S DELINEATION WAS PERFORMED BY Exploration Research, Inc. on 5/23/94.
13. A TRAFFIC STUDY WAS PERFORMED BY The Traffic Group, Inc. on 2/11/94.
14. A NOISE STUDY WAS NOT REQUIRED FOR THIS SUBDIVISION.
15. A GEOTECHNICAL REPORT WAS PREPARED BY Hillis-Games Engineering Assoc., Inc. on 7/17/94.
16. INFORMATION CONCERNING UNDERGROUND UTILITIES WAS OBTAINED FROM BEST AVAILABLE RECORDS. THE CONTRACTOR MUST DETERMINE THE EXACT LOCATION AND ELEVATION OF THE MAINS BY DIGGING TEST PITS BY HAND AT ALL UTILITY CROSSINGS WELL IN ADVANCE OF CONSTRUCTION. ANY DISCREPANCIES MUST BE COMMUNICATED TO THE ENGINEER FOR POSSIBLE RE-DESIGN.
17. ALL PIPE ELEVATIONS SHOWN ARE INVERTS.



| STREET TREE SCHEDULE | | | | |
|----------------------|---|----------------|----------|---------------|
| SYMBOL | NAME (BOTANICAL/COMMON) | SIZE | QUANTITY | REMARKS |
| M | Acer saccharum - Green Mountain Sugar Maple | 2"-2 1/2" Cal. | 39 | B15 Heavyhead |

| STREET LIGHT SCHEDULE | | | | |
|-----------------------|--------------------------|--------------|-----------|----------|
| LOCATION | LAMP TYPE | MOUNTING | POLE TYPE | |
| Sta 0+10, 25, 12 | Low Voltage Sodium Vapor | Street Light | Standard | 15' Pole |
| Sta 0+65, 15, 1 | " | " | " | " |

Street Light Placement Note: A 20' min. distance shall be maintained between any trees and a light, and 5' min. between a fire hydrant and a light.

Plan Scale 1"=50'

Burleigh Manor Section 2 Plot # 9725 (F-91-17)

Includes As-Built 12-9-97

U.S. Soil Conservation Service Date

Bench Marks

B.M. #1 Traverse Station #204 rebar & cap, Elev. = 463.70

B.M. #2 Traverse Station #205 rebar & cap, Elev. = 487.37

CURVE DATA

| STREET NAME | P.C. STA. | P.C.C. STA. | P.T. STA. | RADIUS | ARC | TANGENT | CHORD | BEARING | DELTA |
|--------------|-----------|-------------|-----------|---------|---------|---------|---------|---------------|-----------|
| Kingsway Ct. | 0+00.00 | none | 2+96.91 | 360.00' | 296.91' | 157.48' | 288.57' | S 25°44'14" E | 47°15'16" |
| Kingsway Ct. | 5+30.13 | none | 7+15.12 | 320.00' | 184.99' | 95.16' | 182.43' | S 32°48'11" E | 33°07'22" |

ENGINEER'S CERTIFICATE

Robert Zichner 8/30/95 Date

Howard Soil Conservation District

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/she must 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.

DEVELOPER'S/BUILDER'S CERTIFICATE

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.

Mod. Bennett v. Pao. 2-21-95 Date

Signature of Developer/Builder

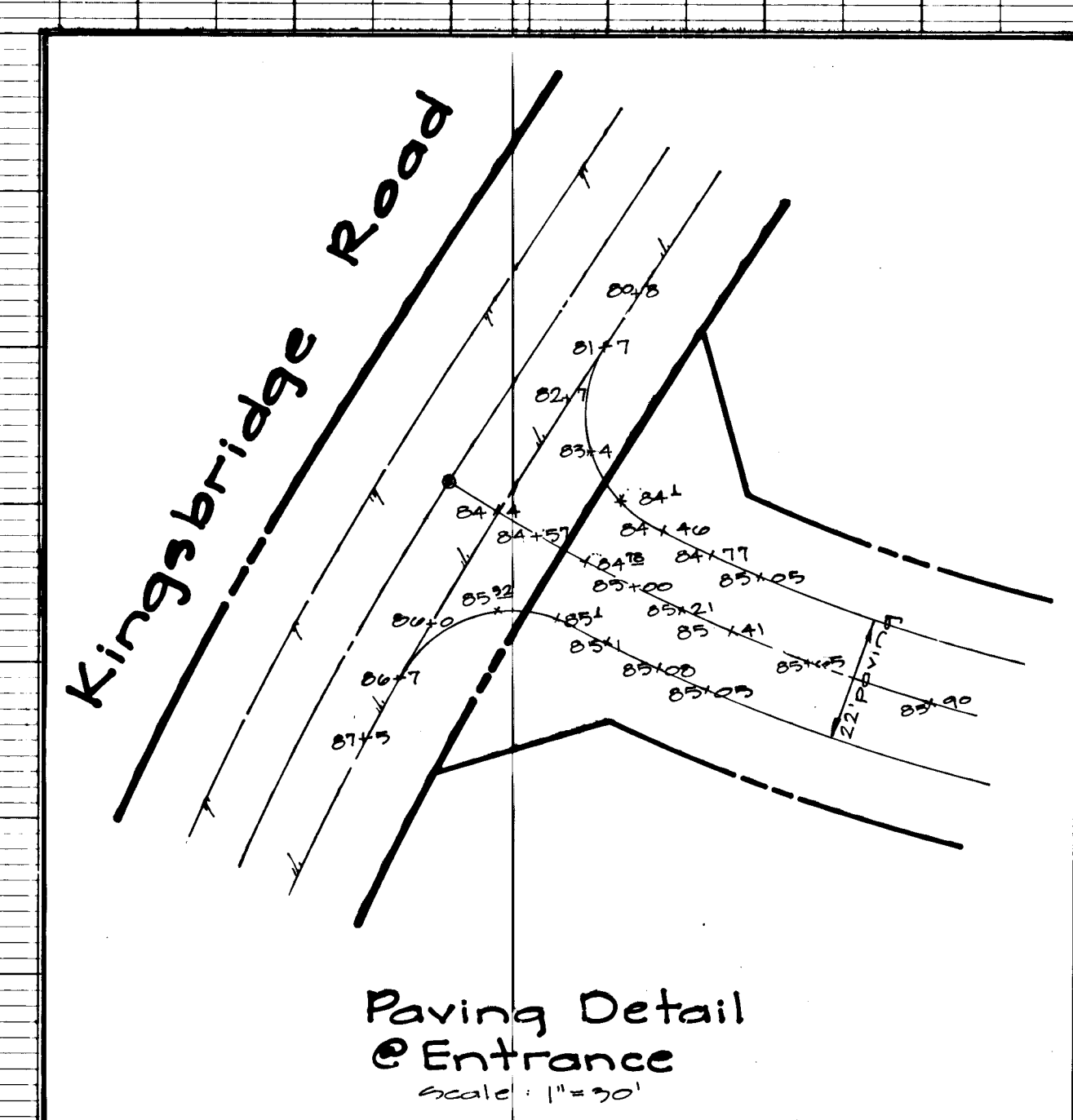
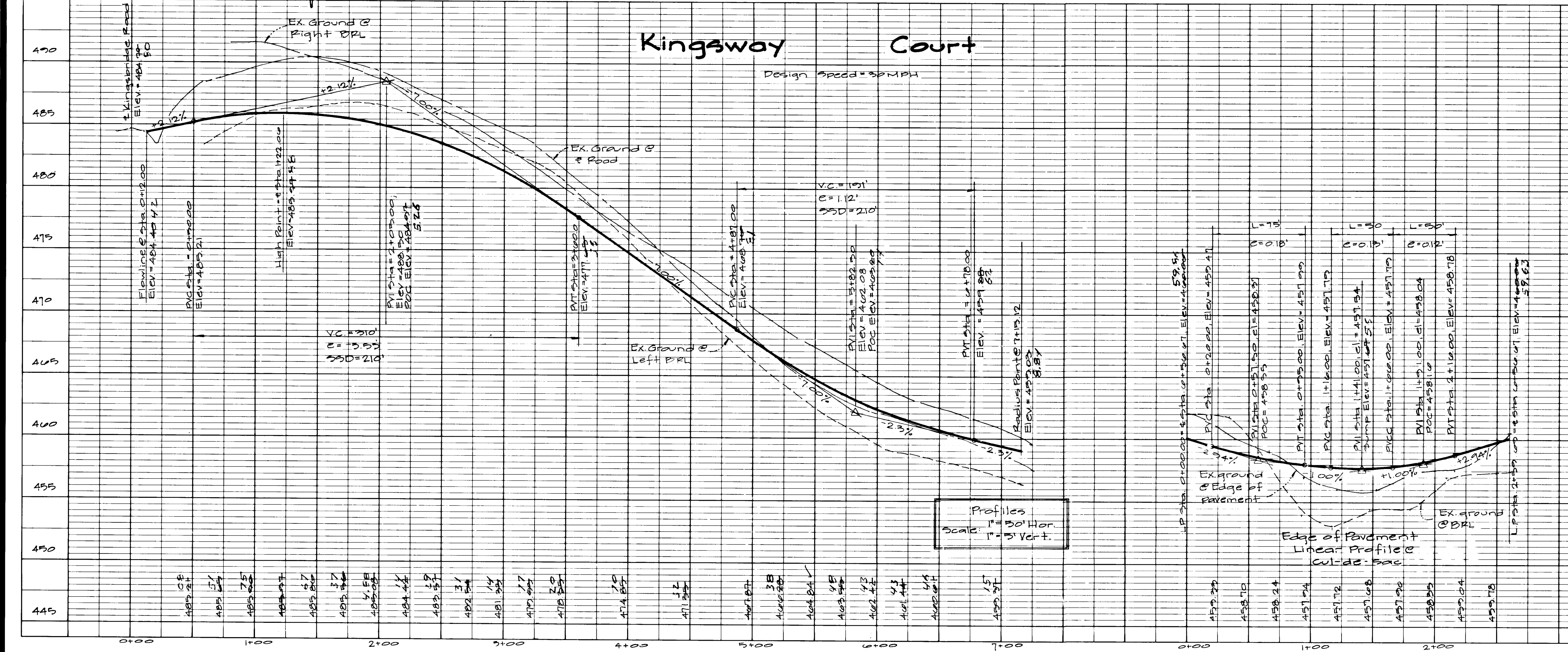
Approved: Howard County Dept of Public Works
 Chief, Bureau of Highways 9-11-95 Date

Approved: Howard County Dept of Planning & Zoning
 Chief, Div. of Land Development & Research 9/20/95 Date

Chief, Development Engineering Div. 9/15/95 Date

GW GUTSCHICK LITTLE & WEBER, P.A.
 CIVIL ENGINEERS, SURVEYORS, PLANNERS, LANDSCAPE ARCHITECTS
 3809 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK - BURTONSVILLE, MARYLAND 20866
 TEL: (301) 421-4024 BALT.: (410) 880-1820 NO.VA. (301) 989-2524 FAX: (301) 421-4186

| | | |
|---------------|--|----------------|
| DESIGNED DEV | ROAD CONSTRUCTION PLANS | SCALE 1"=50' |
| DRAWN CAD/MCF | KINGSBRIDGE @ BURLEIGH MANOR | DRAWING 1 OF 6 |
| CHECKED DEV | LOTS 779-784, PARCEL 'A' & PARCEL 'B' | ZONING R-20 |
| DATE | ELLICOTT CITY ELECTION DISTRICT No. 2 HOWARD COUNTY, MARYLAND | JOB No. 94008 |
| | OWNER: GREENEBALM & ROSE ASSOC., INC. 1829 REISTERSTOWN ROAD SUITE 410, WOODHOLME CENTER BALTIMORE, MARYLAND 21208 PHONE: (410) 484-8400 | |



DEVELOPER'S/BUILDER'S CERTIFICATE

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

Paul V. Butt v. Paul V. Butt 2-21-95
Signature of Developer/Builder Date

ENGINEER'S CERTIFICATE

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

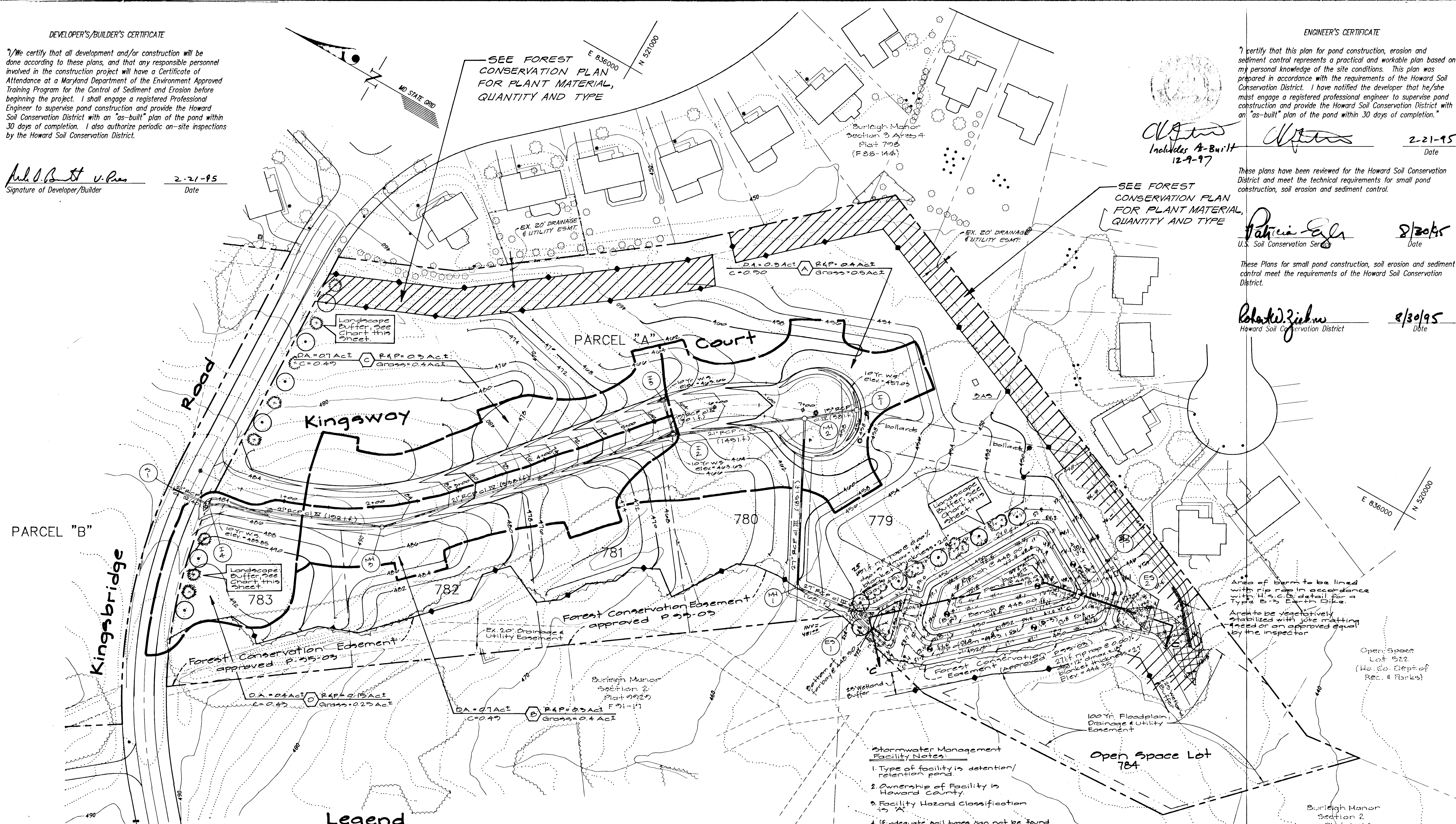
Al J. ... Includes A-Built 12-9-97 2-21-95
Date

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.

Patricia Egan 8/30/95
U.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 W. Ziehm 8/30/95
Howard Soil Conservation District Date



Legend

- Existing Contour 480
- Proposed Contour 480
- Existing Treeline
- Proposed Treeline
- Storm Drain
- Drainage Divide
- Ballard To Mark SWM ACCESS
- FOREST CONSERVATION EASEMENT (ULTIMATE PERMITTED L.O.D. DURING HOUSE CONSTRUCTION)

Surety for Landscaping
Financial surety for the required landscaping has been posted as part of the Department of Public Works Developer's Agreement in the amount of \$3,000.00.

- Stormwater Management Facility Notes:
- Type of facility is detention/retention pond.
 - Ownership of facility is Howard County.
 - Facility Hazard Classification is "A".
 - If adequate soil types can not be found on site soils which meet MD 27B specs will need to be brought on site.
 - The installation of the day lining to be supervised by the Geotech Engineer. Materials being used must be inspected prior to its placement in accordance with the soil addendum.

| Lot No./Parcel | Shade Trees | | Evergreen Trees | |
|----------------|--|---|--|--|
| | Type & Quantity | Type & Quantity | Type & Quantity | Type & Quantity |
| 783 | Acer saccharum - green Mountain Sugar Maple 2 required | Pinus strobus - Eastern White Pine 2 provided | Pinus strobus - Eastern White Pine 15 required | Pinus strobus - Eastern White Pine 13 provided |
| 784 | 10 | 10 | 15 | 13 |
| Parcel A | 4 | 4 | 5 | 5 |
| Totals | 14 each | 14 | 25 each | 23 |

NOTE: THE LANDSCAPE EDGES ON LOT 784 AND PARCEL A ARE SHOWN ON THE FOREST CONSERVATION PLAN.

Approved: Howard County Dept. of Public Works
Andrew M. Daniels 9-11-95
Chief, Bureau of Highways Date

Approved: Howard County Dept. of Planning & Zoning
Anna Summery 9/20/95
Chief, Div. of Land Development & Research Date

Chris Deamons 9/15/95
Chief, Development Engineering Div. Date

GLW GUTSCHICK LITTLE & WEBER, P.A.
CIVIL ENGINEERS, SURVEYORS, PLANNERS, LANDSCAPE ARCHITECTS
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TEL: (301) 421-4024 NO. VA. (301) 989-2524 BALT. (410) 880-1820 FAX: (301) 421-4186

PREPARED FOR:
Greenebaum & Rose Associates, Inc.
1825 Reisterstown Road
Suite 410 Woodhelm Center
Baltimore, Maryland 21208
Phone (410) 484-8400

Mass Grading and Landscaping Plan
Kingsbridge @ Burleigh Manor
Lots 779 - 784, Parcel A & Parcel B
Elliott City Election District N*2
Howard County, Maryland

| | | |
|--------------------------------|-------------------|----------------------------|
| SCALE 1"=50' | ZONING R-20 | G. L. W. FILE NO. 9400B |
| DATE Nov. 1997 July 1995 | TAX MAP No. 23 | SHEET 2 of 6 |

122

DEVELOPER'S/BUILDER'S CERTIFICATE

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

Richard B. ...
Signature of Developer/Builder
2-21-95
Date

ENGINEER'S CERTIFICATE

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

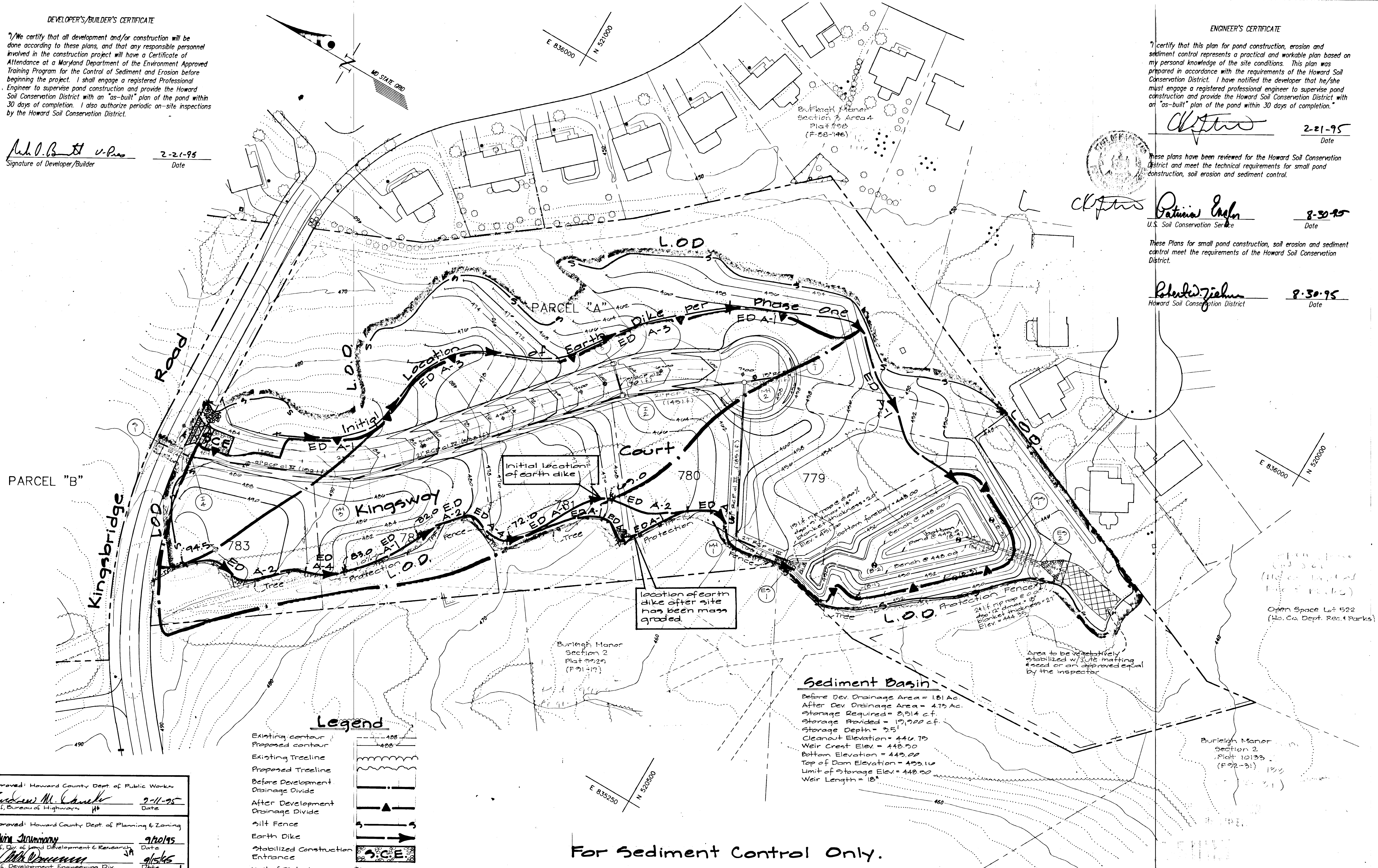
Clifton ...
Date
2-21-95

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.

Patricia ...
U.S. Soil Conservation Service
Date
8-30-95

These Plans for small pond construction, soil erosion and sediment control meet the requirements of the Howard Soil Conservation District.

Peter ...
Howard Soil Conservation District
Date
8-30-95



Sediment Basin

Before Dev. Drainage Area = 181 Ac.
After Dev. Drainage Area = 473 Ac.
Storage Required = 8,514 c.f.
Storage Provided = 19,900 c.f.
Storage Depth = 25'
Cleanout Elevation = 446.75
Weir Crest Elev = 448.50
Bottom Elevation = 443.00
Top of Dam Elevation = 453.10
Limit of Storage Elev = 448.50
Weir Length = 18'

Legend

- Existing contour
- Proposed contour
- Existing Treeline
- Proposed Treeline
- Before Development Drainage Divide
- After Development Drainage Divide
- Silt Fence
- Earth Dike
- Stabilized Construction Entrance
- Limit of Disturbance

For Sediment Control Only.

Approved: Howard County Dept. of Public Works
Andrew M. ...
Date: 9-11-95

Approved: Howard County Dept. of Planning & Zoning
Chin ...
Date: 9/20/95

Mike ...
Date: 9/15/95

GUTSCHICK LITTLE & WEBER, P.A.
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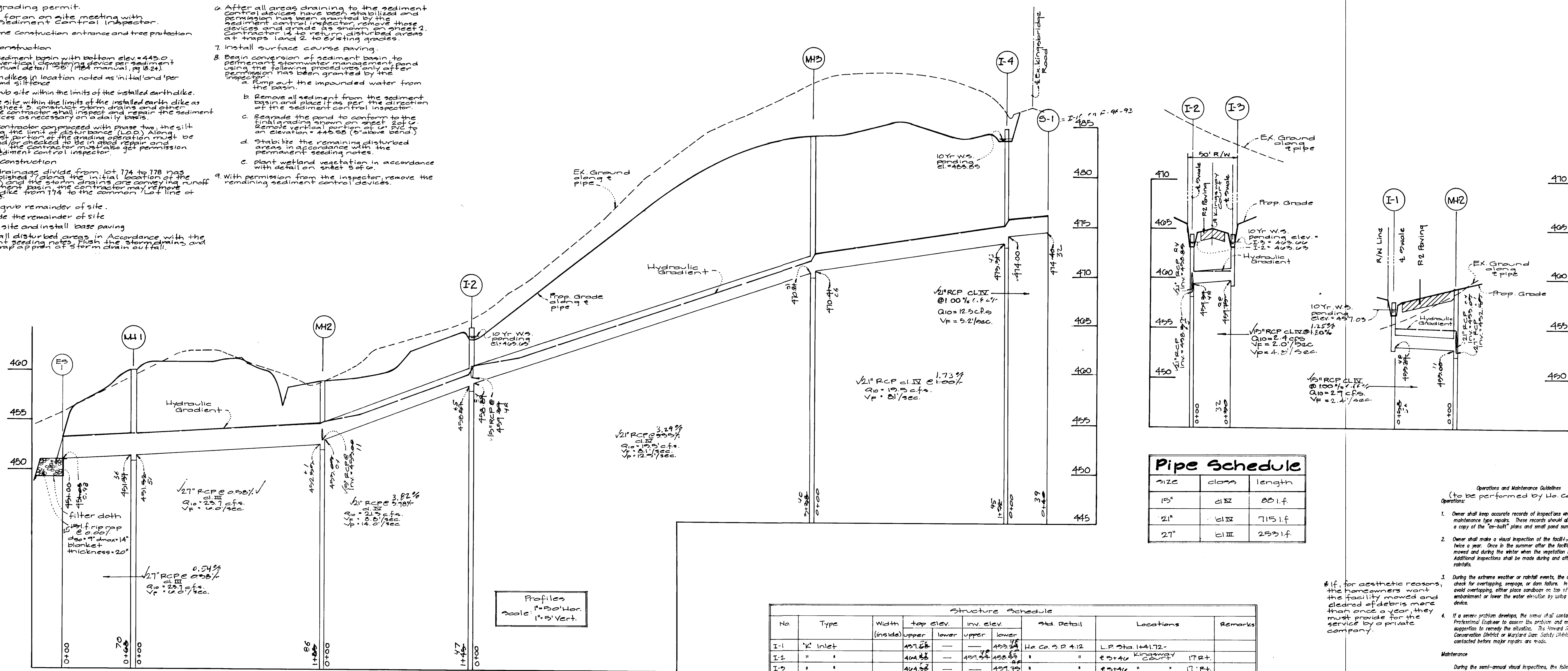
Sediment and Erosion Control Plan
Kingsbridge @ Burleigh Manor
Lots 775 - 784, Parcel A & Parcel B
Ellicott City Election District No. 2
Howard County, Maryland

| | | |
|----------|-------------|-------------------|
| SCALE | ZONING | G. L. W. FILE No. |
| 1"=50' | R-20 | 9400B |
| DATE | TAX MAP No. | SHEET |
| May 1995 | 23 | 3 of 6 |

Sequence of Construction

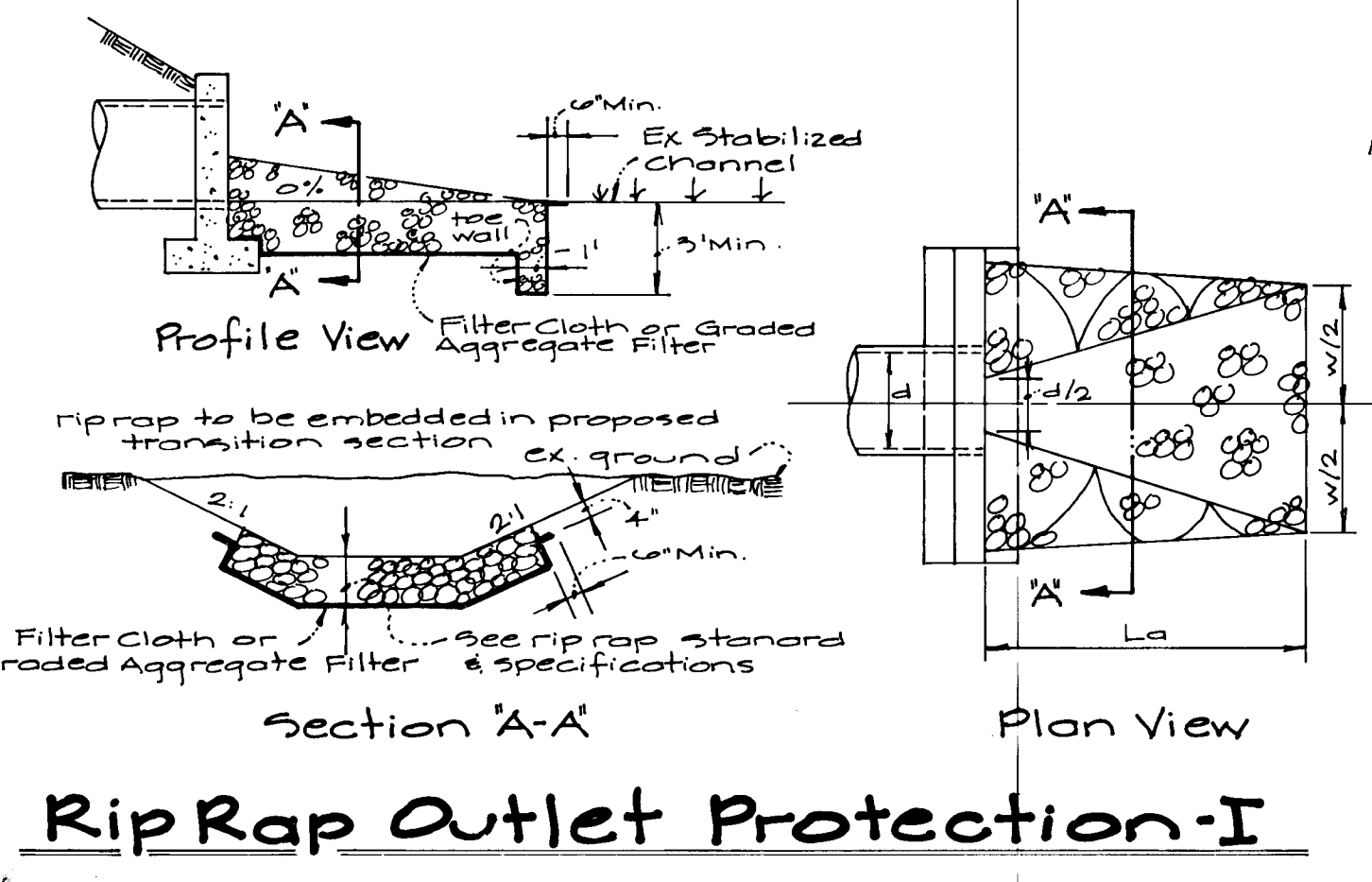
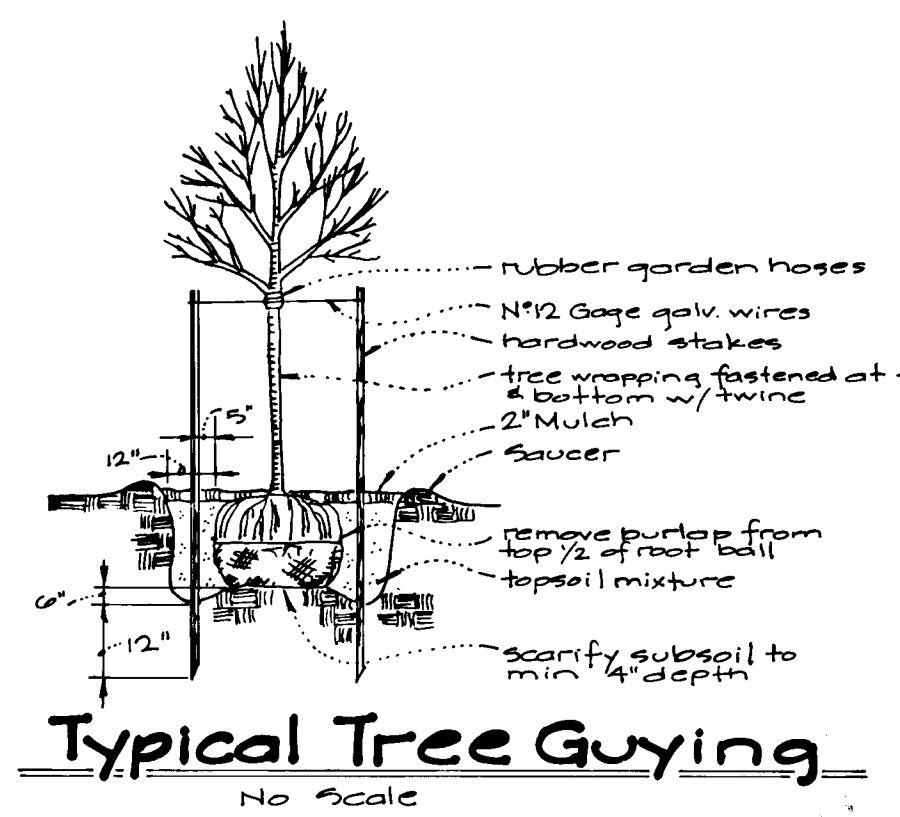
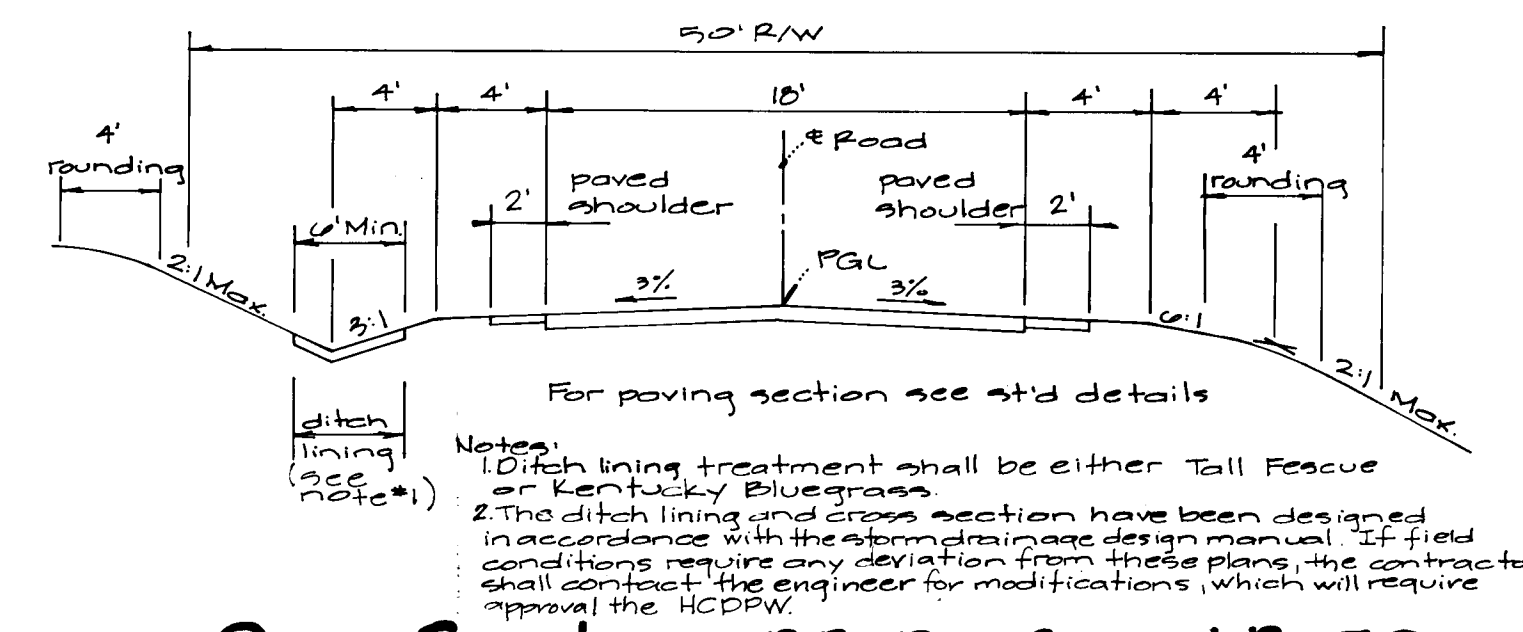
- Obtain grading permit.
 - Arrange for on site meeting with County Sediment Control Inspector.
 - Install Stone Construction entrance and tree protection fence.
- Phase one of construction
- Construct sediment basin with bottom elev. 445.0. Construct vertical silt trap per detail 207 (see manual, pg 6.24).
 - Install earth dike in location noted as initial land per Phase one and silt fence.
 - Clear and grub site within the limits of the installed earth dike.
 - Rough grade site within the limits of the installed earth dike as shown on sheet 5. Construct storm drains and other utilities. The contractor shall inspect and repair the sediment control devices as necessary on a daily basis.
 - Before the contractor commences with Phase two, the silt fence along the limit of disturbance (L.O.D.) Along western most portion of the grading operation must be installed and/or checked to be in good repair and functioning. The contractor must also get permission from the sediment control inspector.
- Phase two of construction
- Once the drainage divide from lot 174 to 178 has been established along the initial location of the earth dike, and the storm drains are conveying runoff to the sediment basin, the contractor may remove the earth dike from 174 to the common Lot line at lots 177 & 178.
 - Clear and grub remainder of site.
 - Rough grade the remainder of site.
 - Final grade site and install base paving.
 - Stabilize all disturbed areas in accordance with the permanent seeding plan. Install storm drains and install rip rap apron at storm drain outfall.

- After all areas draining to the sediment control devices have been stabilized and permission has been granted by the sediment control inspector, remove those devices and grade as shown on sheet 2. Contractor is to return disturbed areas at traps and 2 to existing grades.
- Install surface course paving.
- Begin conversion of sediment basin to permanent stormwater management pond using the following procedures only after permission has been granted by the inspector:
 - Pump out the impounded water from the basin.
 - Remove all sediment from the sediment basin and place it as per the direction of the sediment control inspector.
 - Regrade the pond to conform to the final grading shown on sheet 207. Remove vertical portion of 207 to an elevation 445.00 (5' above bend).
 - Stabilize the remaining disturbed areas in accordance with the permanent seeding notes.
 - Plant wetland vegetation in accordance with detail on sheet 3 of 6.
- With permission from the inspector, remove the remaining sediment control devices.



| SIZE | CLASS | LENGTH |
|------|-----------|---------|
| 15" | CLASS I | 801 ft |
| 21" | CLASS III | 7151 ft |
| 27" | CLASS III | 2531 ft |

| No | Type | Width (inside) | Top Elev. Upper | Inv. Elev. Lower | Std. Detail | Locations | Remarks |
|------|-------------|----------------|-----------------|------------------|-------------------|-----------------------------|---------|
| I-1 | "K" Inlet | | 457.66 | | Ho. Co. S.D. 4.12 | LR Sta. 1+41.72 | |
| I-2 | " | | 404.58 | 459.24 | " | 45+40 Kingsway Court 17 Rt. | |
| I-3 | " | | 404.58 | 459.24 | " | 45+40 " " 17 Rt. | |
| I-4 | " | | 404.58 | 474.00 | " | " " " " 17 Rt. | |
| MH1 | Std. MH | 4'-0" | 450.00 | 451.00 | Ho. Co. G.S. 0.1 | See Plan | |
| MH2 | " | 4'-0" | 459.00 | 452.00 | " | 47+04 Kingsway Court 17 Rt. | |
| MH3 | " | 4'-0" | 463.00 | 470.00 | " | 42+00 Kingsway Court 22 Rt. | |
| ES-1 | End Section | | 453.25 | 451.00 | Ho. Co. S.D. 5.31 | See Plan | |



- Operations and Maintenance Guidelines (to be performed by Ho. Co. DPW)
- Operations:
- Owner shall keep accurate records of inspections and maintenance type repairs. These records should also include a copy of the "as-built" plans and small pond summary sheet.
 - Owner shall make a visual inspection of the facility at least twice a year. Once in the summer after the facility has been moved and during the winter when the vegetation is inactive. Additional inspections shall be made during and after extreme rainfalls.
 - During the extreme weather or rainfall events, the owner shall check for overtopping, seepage, or dam failure. In order to avoid overtopping, either place sandbags on top of the embankment or lower the water elevation by using a dewatering device.
 - If a severe problem develops, the owner shall contact a Professional Engineer to assess the problem and make a suggestion to remedy the situation. The Howard Soil Conservation District or Maryland Dept. Safety (MDS) shall be contacted before major repairs are made.
- Maintenance
- During the semi-annual visual inspections, the following items must be checked and documented by the owner:
- Spillways and Outlet Device
 - Pipes - check for sagging, misalignment, gaps at joints, cracks, leaks, and wear along inside surface of pipe. Also remove any blockages.
 - Trash Racks - inspect and replace if necessary. Actual time for removal of trash racks should be limited. Trash racks shall be painted once a year.
 - Concrete Surfaces - check for cracks or any other signs of failure.
 - Farby and Spillway - check for stone deterioration or loss and spillway failure.
 - Rip Rap Outlet - check for stone deterioration or stone loss.
 - Dewatering Device - remove blockages.
 - Embankments
 - Vegetation - proper vegetation cover is required on all embankments. The owner shall follow proper seeding specifications for reseedings.
 - Trees and Brush - trees and brush shall be removed from the embankment. Stumps can be removed using a chainsaw.
 - Mowing - mowing is necessary to control the establishment of woody growth and to maintain the vegetative cover. The embankment, a 25-foot wide (except in wetland/stream buffer) strip adjacent to the line, upstream and downstream of the embankment, and the area within 50 feet of the control structure need to be mowed. Mowing shall be done at least once a year (mid to late summer) but may be done more often.
 - Seepage - the following warning signs should be looked for when inspecting for seepage problems: cracks (longitudinal and vertical), soft spots or boggy areas on downstream embankment, seepage along downstream toe of embankment.
 - Stability - large cracks, slides, slumping and excessive settlement are signs of embankment instability and a need for repair. Repairs must be approved by Howard Soil Conservation District.
 - Rodents - check for burrows, which can lead to seepage, and remove rodents when encountered.

Approved: Howard County Dept. of Public Works
 Andrew M. Daniels, Chief, Bureau of Highways, 9/1/95
 Approved: Howard County Dept. of Planning & Zoning
 Gina Summery, Chief, Div. of Land Development & Research, 9/20/95
 Approved: 9/15/95

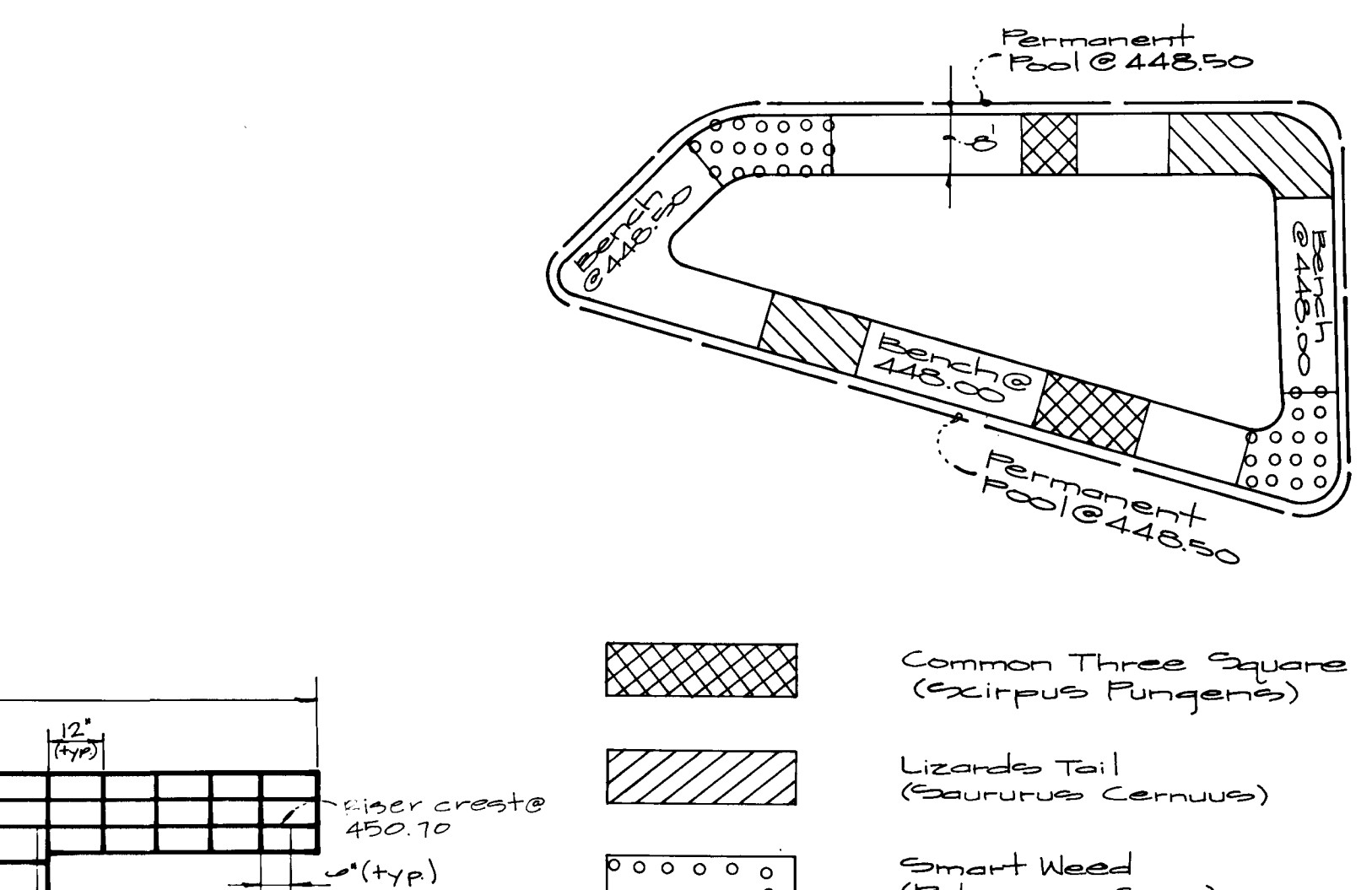
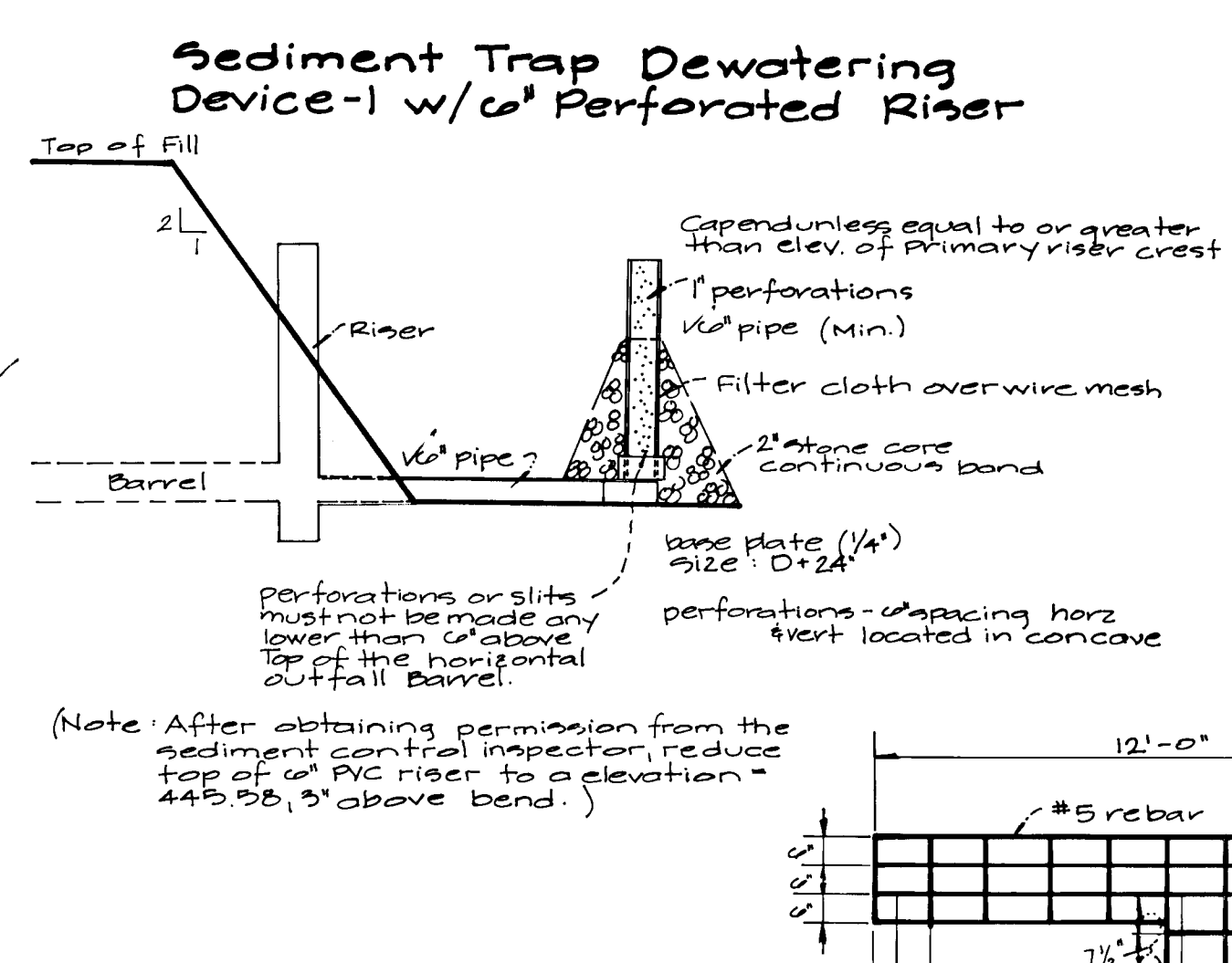
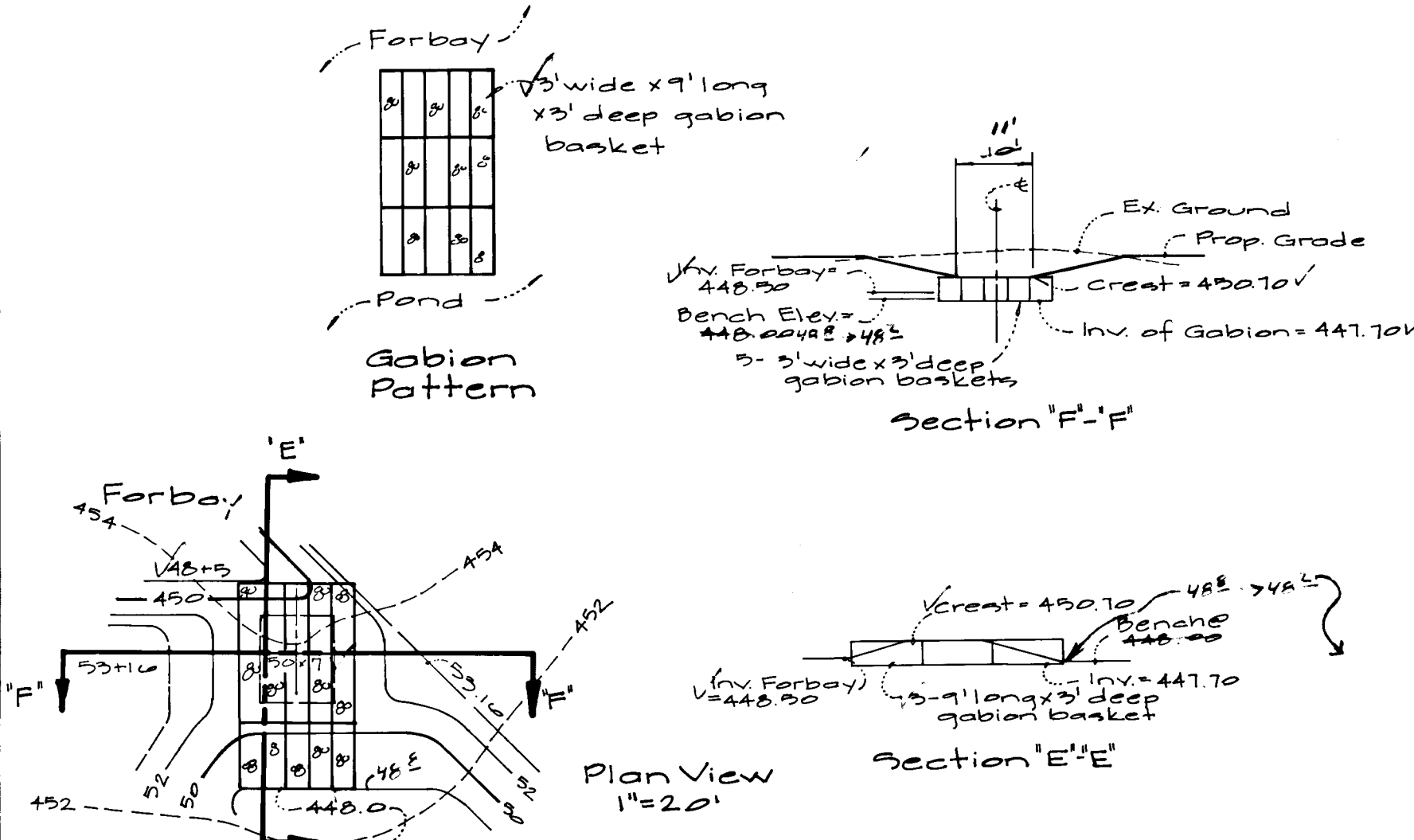
| Street Name & Station Limit | Type of Traffic | A | B | C | D | R/W | Zoning | E | Design Speed | Paving Section |
|------------------------------|-----------------|---|---|---|---|-----|--------|---|--------------|----------------|
| Kingsway Court, 0+00 to 7+12 | cul-de-sac | - | - | - | - | 50' | R-20 | - | 30MPH | P-2 |

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Storm Drain Profiles
Kingsbridge @ Burleigh Manor
 Lots 779-784, Parcel A & Parcel B
 Ellicott City Election District
 Howard County, Maryland

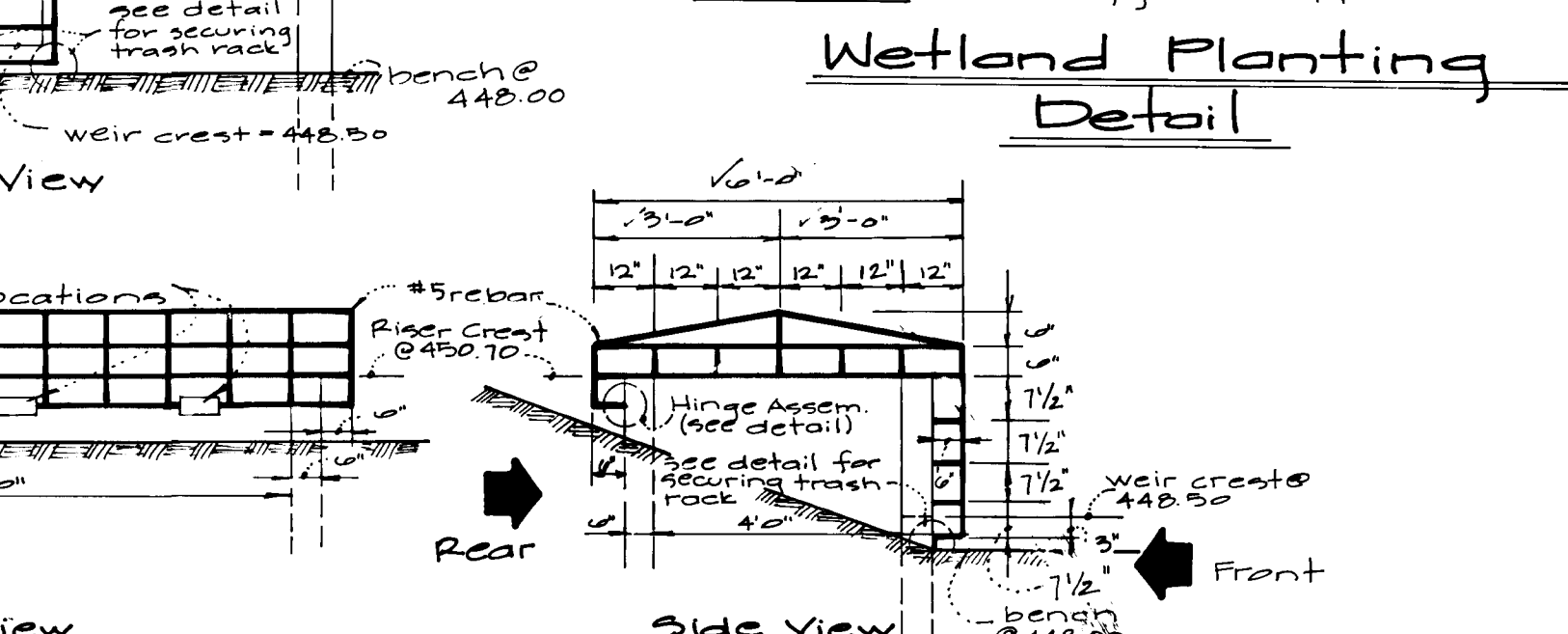
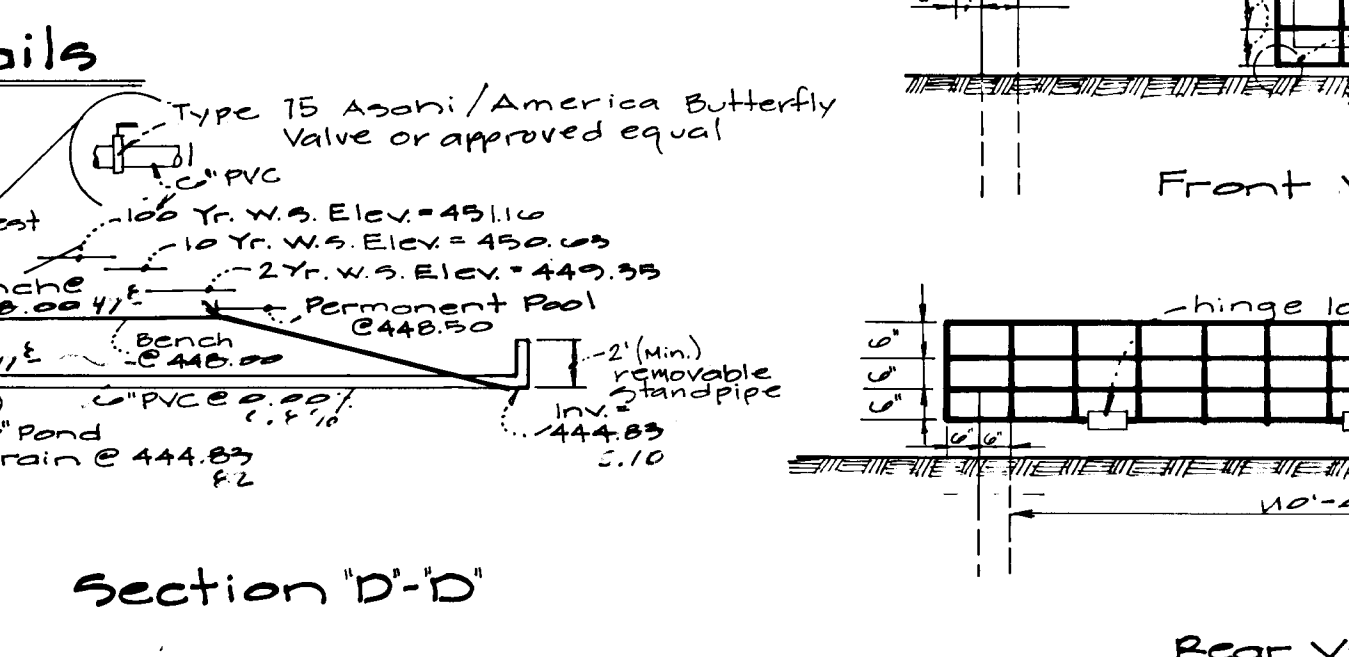
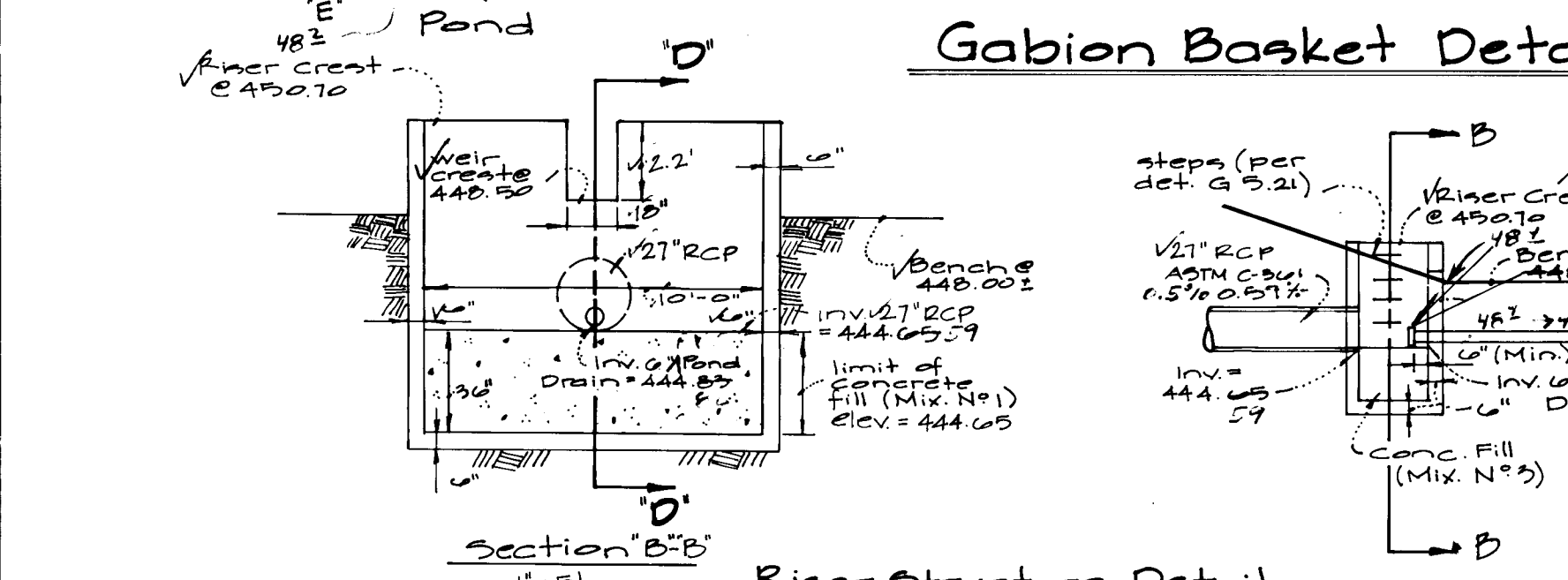
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|--------------|-----------|-------------|-----------------|
| DES.: DEV | SCALE | ZONING | G.L.W. FILE No. |
| DRF. | As Shown | R-20 | 7400B |
| CHK.: M.C.F. | DATE | TAX MAP No. | SHEET |
| CKG | NOV. 1997 | 23 | 4 of 6 |



| Elev | Soil Description | Soil Depth |
|-------|---|------------|
| 445.0 | Surface | |
| 445.0 | Orange-brown, moist, med dense silty fine sand (SM) | 2.0 |
| 445.0 | Orange-brown, moist, med dense silty fine sand (SM) | 4.5 |
| 445.0 | Orange-brown, moist, med dense silty fine sand (SM) | 7.0 |
| 445.0 | Orange-brown, moist, med dense silty fine sand (SM) | 9.0 |
| 445.0 | Brown, moist to wet, med dense silty fine sand (SM) | 11.0 |
| 445.0 | Brown, moist to wet, med dense silty fine sand (SM) | 13.5 |

| Elev | Soil Description | Soil Depth |
|-------|---|------------|
| 445.0 | Surface | |
| 445.0 | Brown, moist, med dense silty fine sand (SM) | 2.0 |
| 445.0 | Brown, moist to wet, med dense silty fine sand (SM) | 4.5 |
| 445.0 | Brown, moist to wet, med dense silty fine sand (SM) | 7.0 |
| 445.0 | Brown, moist to wet, med dense silty fine sand (SM) | 9.0 |
| 445.0 | Brown, moist to wet, med dense silty fine sand (SM) | 11.0 |
| 445.0 | Brown, moist to wet, med dense silty fine sand (SM) | 13.5 |

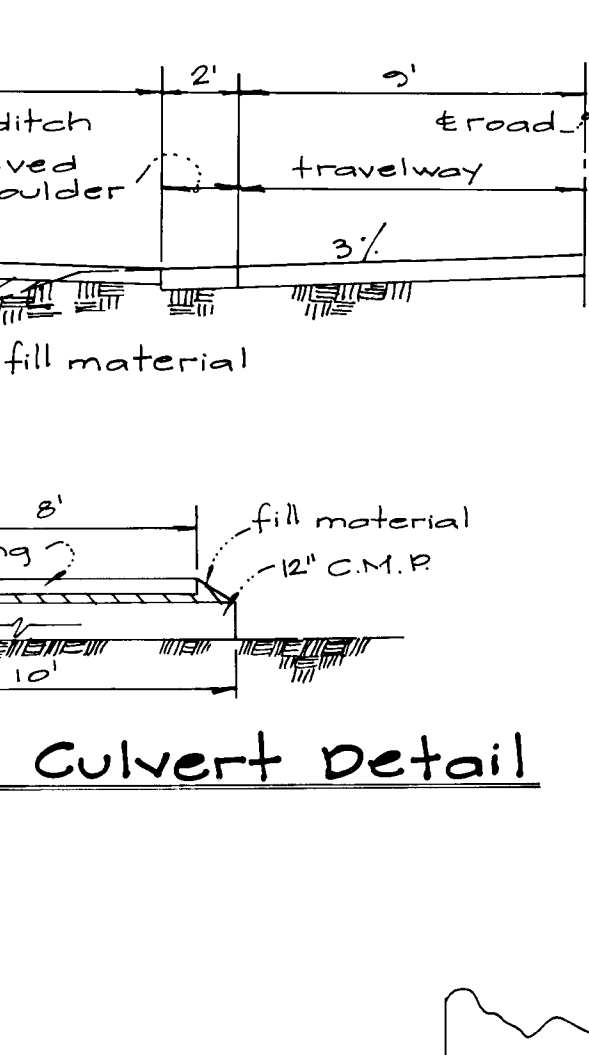
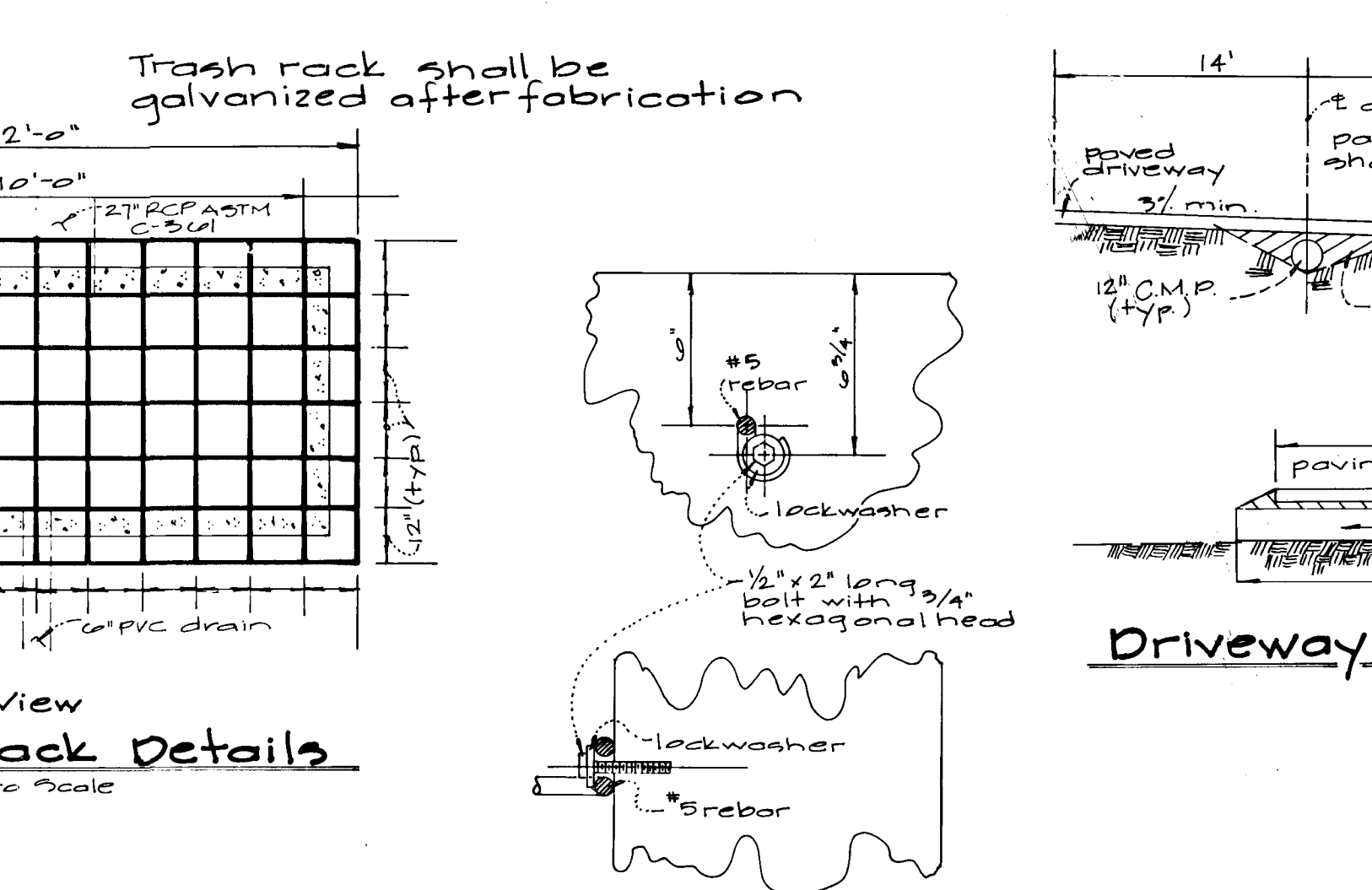
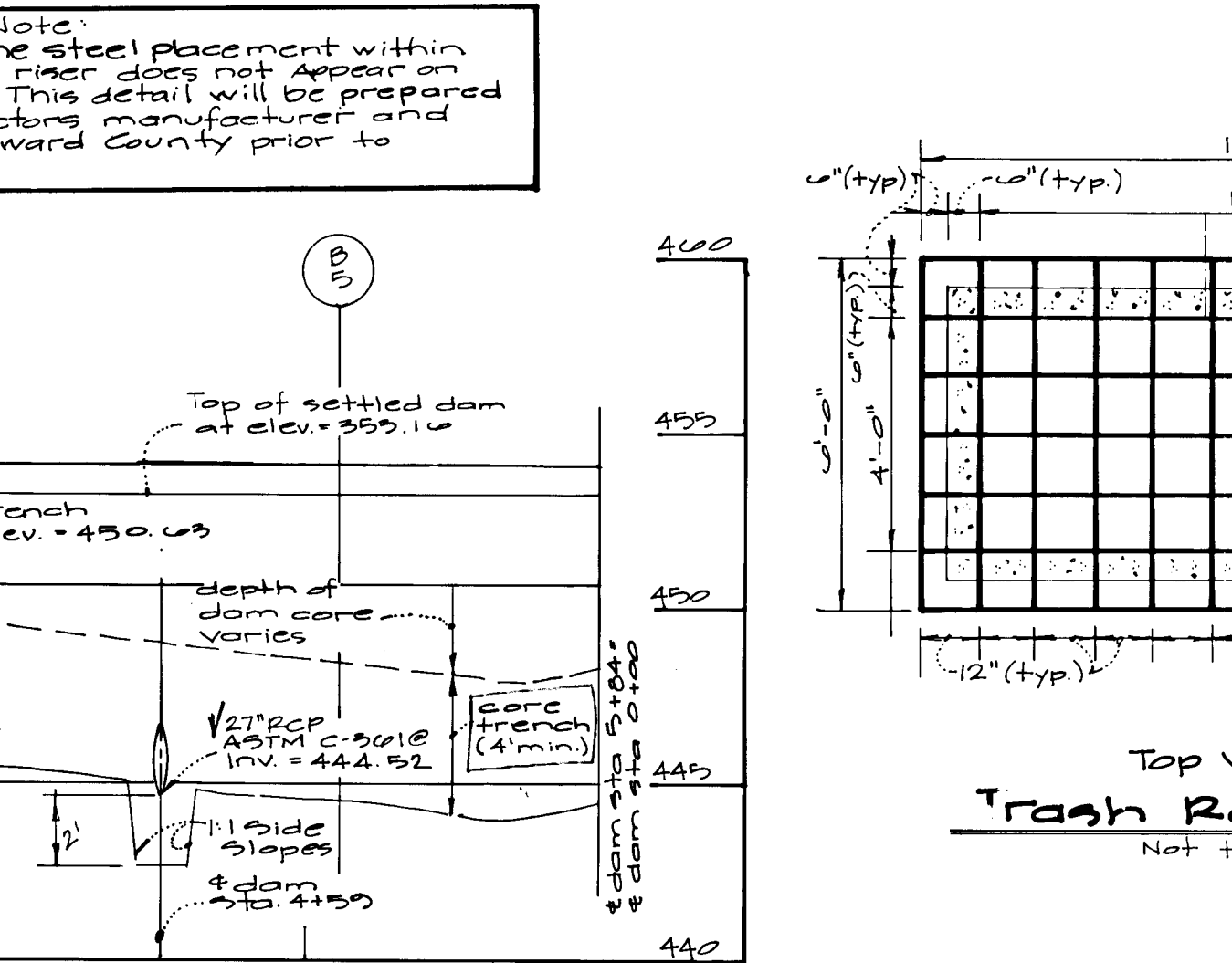
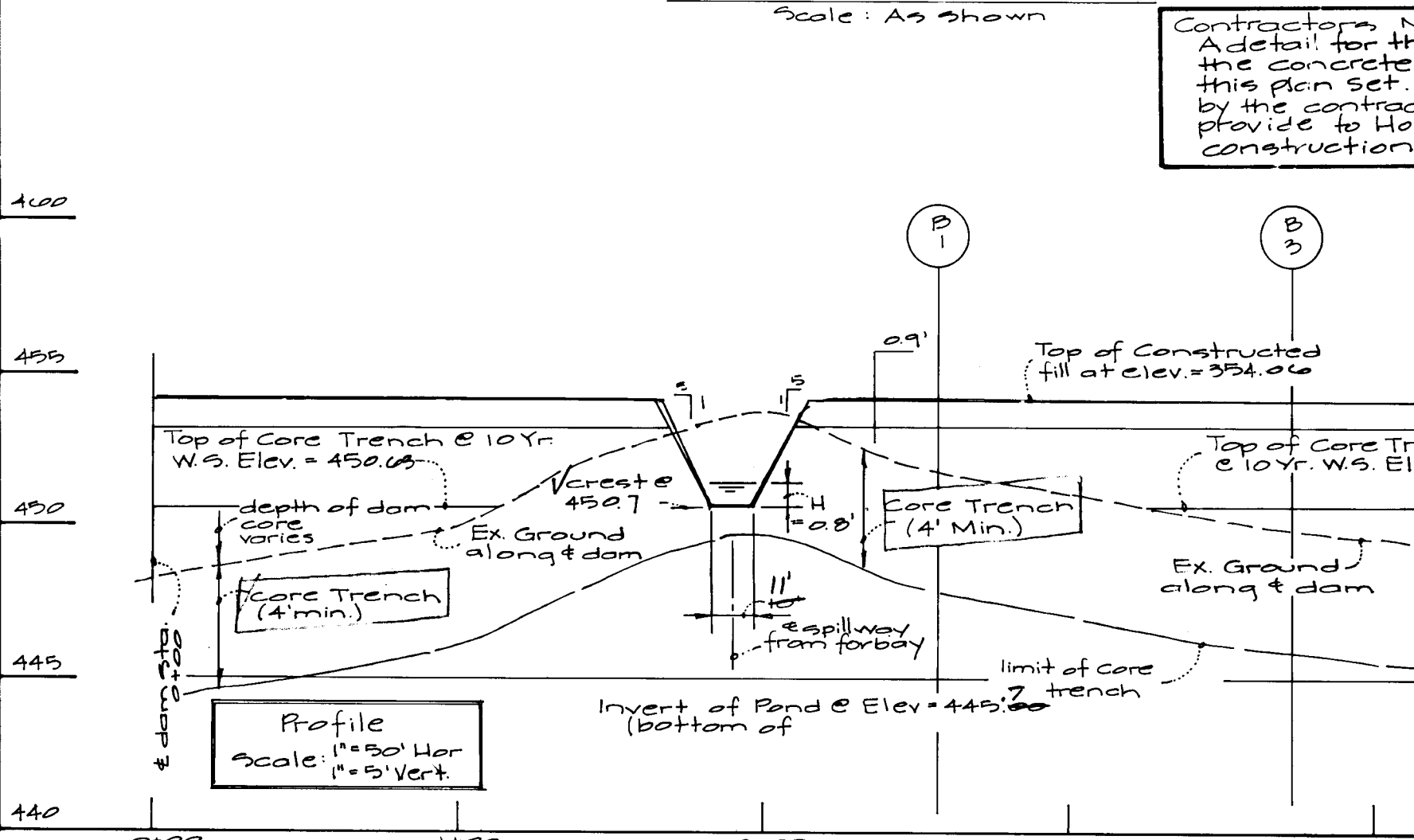
| Elev | Soil Description | Soil Depth |
|-------|---|------------|
| 445.0 | Surface | |
| 445.0 | Brown, moist, med dense silty fine sand (SM) | 2.0 |
| 445.0 | Brown, moist to wet, med dense silty fine sand (SM) | 4.5 |
| 445.0 | Brown, moist to wet, med dense silty fine sand (SM) | 7.0 |
| 445.0 | Brown, moist to wet, med dense silty fine sand (SM) | 9.0 |
| 445.0 | Brown, moist to wet, med dense silty fine sand (SM) | 11.0 |
| 445.0 | Brown, moist to wet, med dense silty fine sand (SM) | 13.5 |



| Elev | Soil Description | Soil Depth |
|-------|---|------------|
| 445.0 | Surface | |
| 445.0 | Orange-brown, moist, med dense silty fine sand (SM) | 2.0 |
| 445.0 | Orange-brown, moist, med dense silty fine sand (SM) | 4.5 |
| 445.0 | Orange-brown, moist, med dense silty fine sand (SM) | 7.0 |
| 445.0 | Orange-brown, moist, med dense silty fine sand (SM) | 9.0 |
| 445.0 | Brown, moist to wet, med dense silty fine sand (SM) | 11.0 |
| 445.0 | Brown, moist to wet, med dense silty fine sand (SM) | 13.5 |

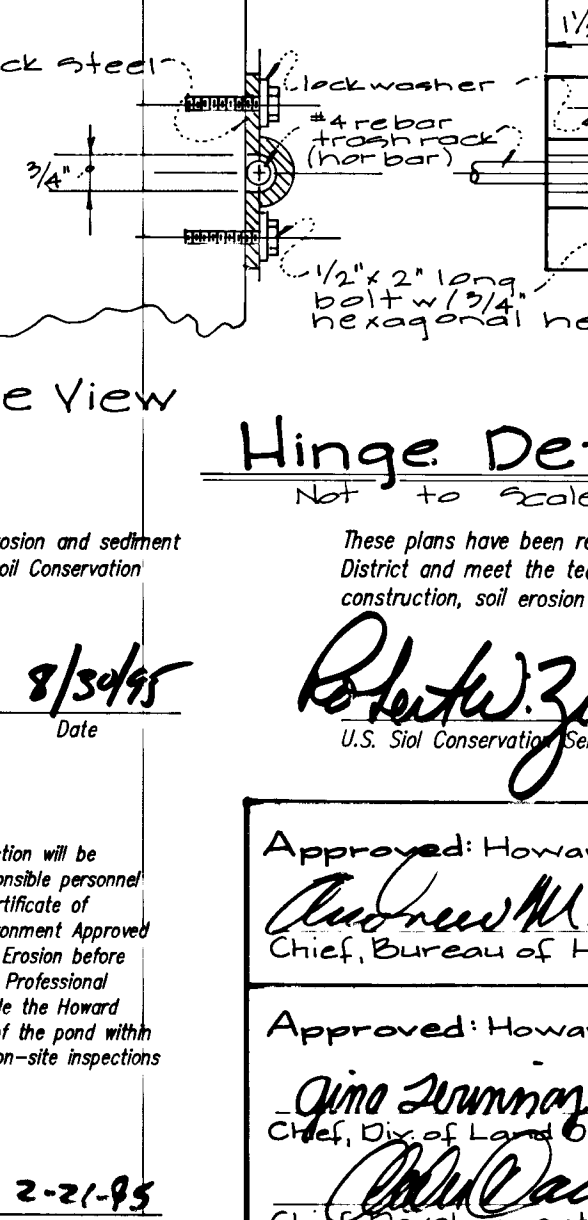
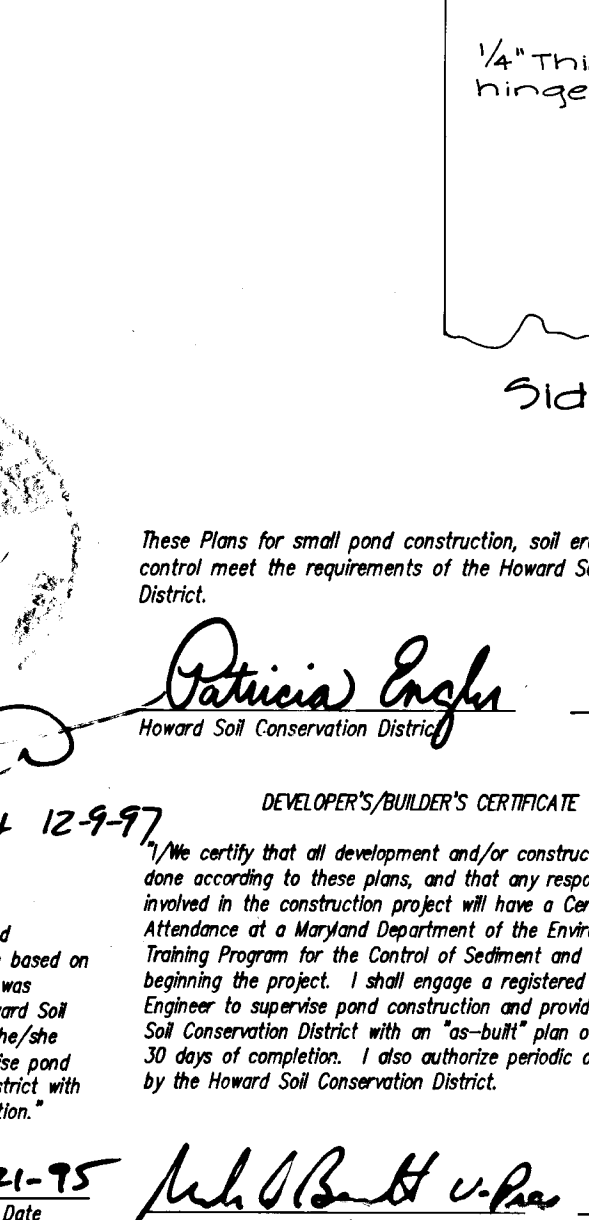
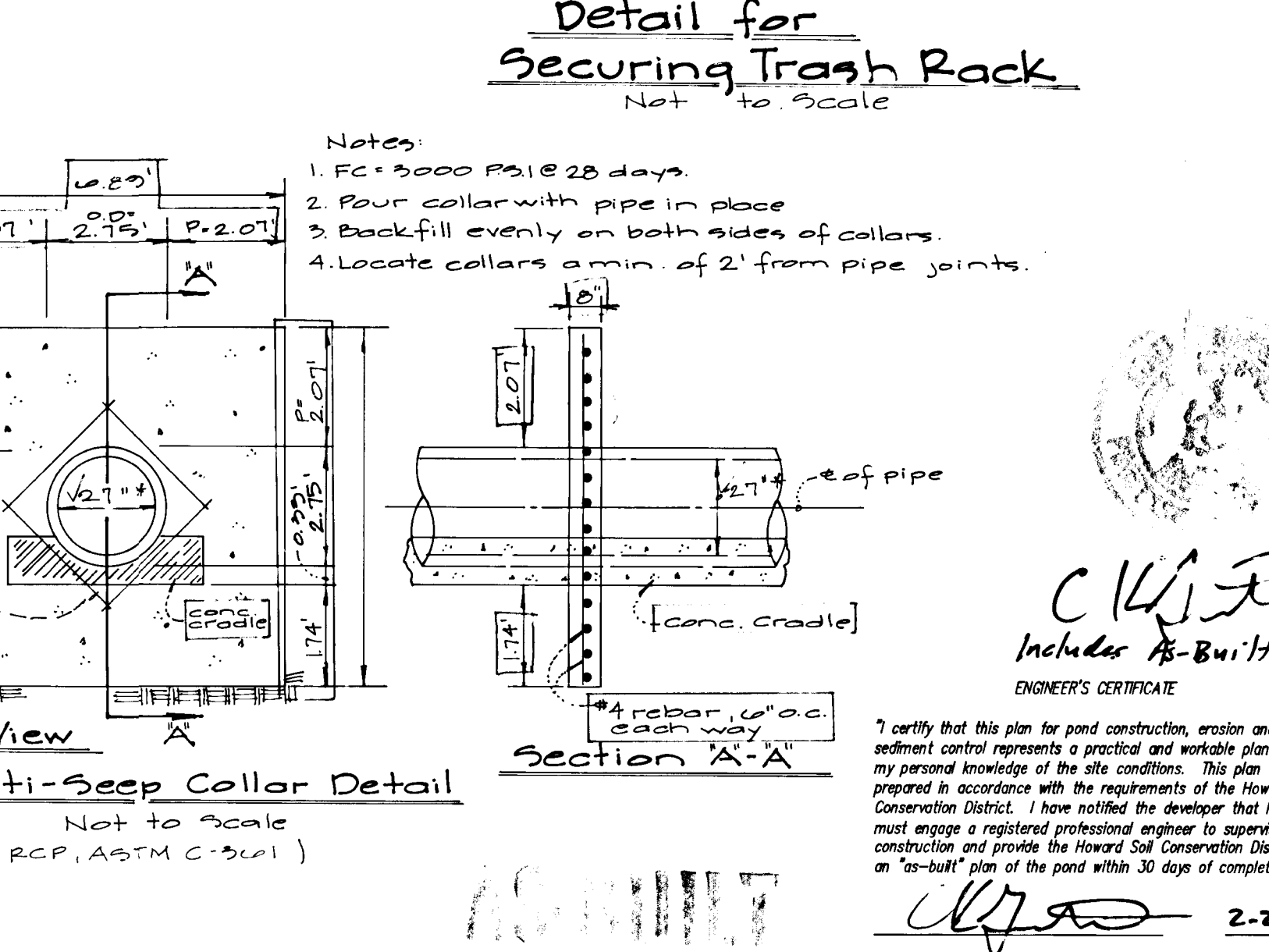
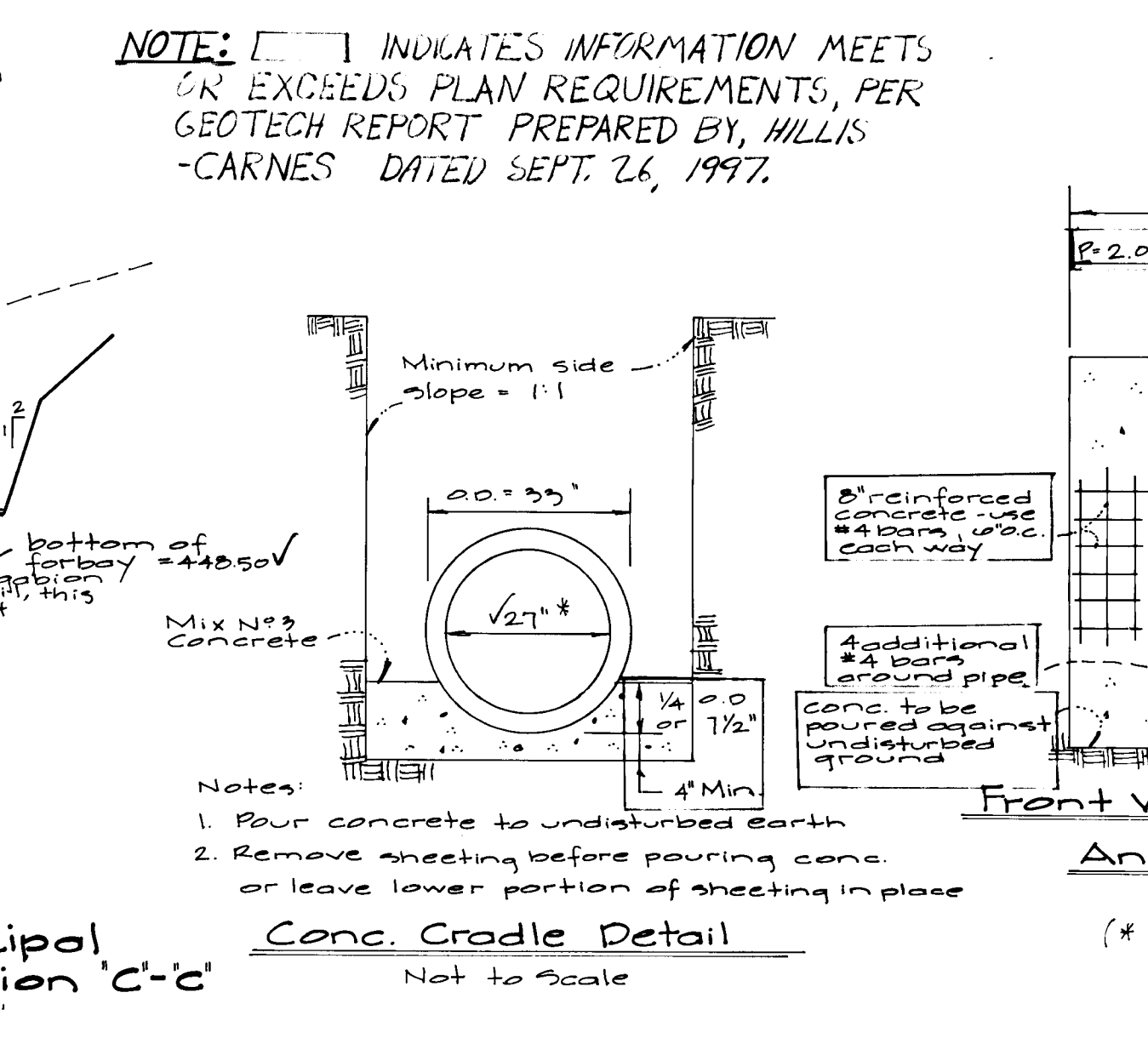
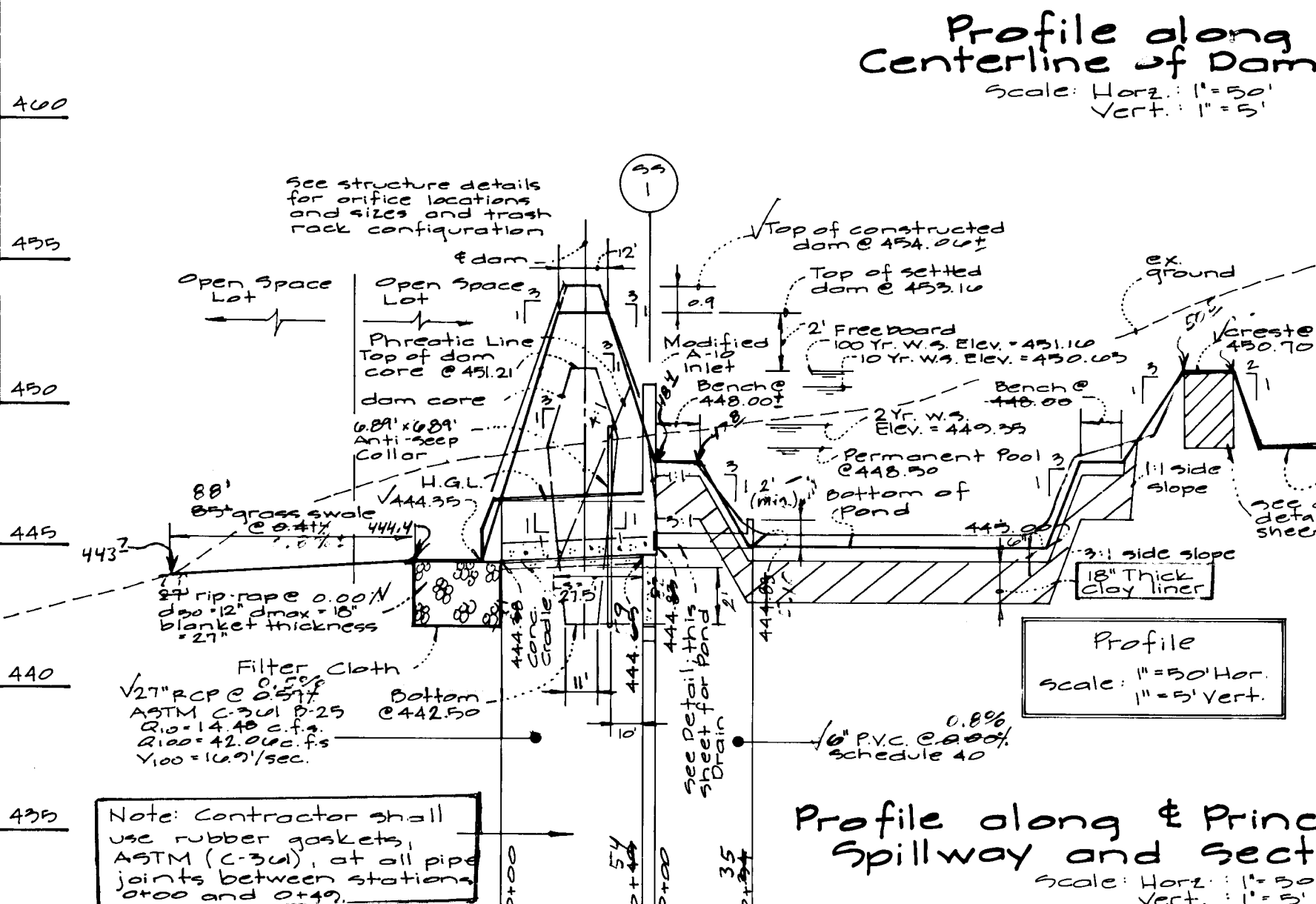
| Elev | Soil Description | Soil Depth |
|-------|---|------------|
| 445.0 | Surface | |
| 445.0 | Brown, moist, med dense silty fine sand (SM) | 2.0 |
| 445.0 | Brown, moist to wet, med dense silty fine sand (SM) | 4.5 |
| 445.0 | Brown, moist to wet, med dense silty fine sand (SM) | 7.0 |
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| 445.0 | Brown, moist to wet, med dense silty fine sand (SM) | 13.5 |

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| 445.0 | Brown, moist to wet, med dense silty fine sand (SM) | 9.0 |
| 445.0 | Brown, moist to wet, med dense silty fine sand (SM) | 11.0 |
| 445.0 | Brown, moist to wet, med dense silty fine sand (SM) | 13.5 |



| Elev | Soil Description | Soil Depth |
|-------|---|------------|
| 445.0 | Surface | |
| 445.0 | Orange-brown, moist, med dense silty fine sand (SM) | 2.0 |
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 TELEPHONE: (301)421-4024 NO.VA. (301)989-2524 BALTO. (301)880-1820 FAX (301)421-4186

| DATE | REVISION | BY | APP'R. |
|------|----------|----|--------|
| | | | |

PREPARED FOR:
 Greenbaum & Rose Assoc., Inc.
 1829 Reisterstown Road
 Suite 410 Woodhome Center
 Baltimore, Maryland 21208
 Phone (410) 484-8400

Stormwater Management Profiles & Details
Kingsbridge @ Burleigh Manor
 Lots 775-784, Parcel A & Parcel B
 Ellicott City Election District N*2 Howard County, Maryland

| DESIGNER | SCALE | ZONING | G.L.W. FILE NO. |
|-----------|-------------|--------|-----------------|
| DEV | AS SHOWN | R-20 | 94008 |
| DATE | TAX MAP NO. | SHEET | |
| NOV. 1997 | 23 | 5 of 6 | |

SPECIFICATIONS

These specifications are appropriate to all ponds within the scope of the Standard for practice MD-378. All references to ASTM and AASHTO specifications apply to the most recent version.

Site Preparation

Areas designate 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 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. 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 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, rubbish, 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 scarified prior to placement of fill. Fill materials shall be placed in maximum 8 inch thick (before compaction) layers which are to be continuous over the entire length of the fill. The most permeable borrow 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 no less than one tread track of the equipment or compaction shall be achieved by a minimum of four complete passes of a sheepfoot, 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 in 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 is 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 as shown on the plans. The bottom width of the trench shall be governed by the equipment being 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 or flatter. The backfill shall be compacted with the construction equipment, rollers, or hand tampers to assure maximum density and minimum permeability.

Structure Backfill

Backfill adjacent to pipes or structures shall be of the type and quality of 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 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 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-190 Type A with watertight coupling bands. Any bituminous 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 pipe. The following coatings or an approved equal may be used: Nexon, Plast-Cote, Bloc-Klad, and Beth-cu-Loy. 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 watertight 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 its appurtenances shall conform to the requirements of AASHTO Specification M-196 and M-211 with watertight 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, and 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 mil in thickness.
- 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. Anti-seep collars shall be connected to the pipe in such a manner as to be completely watertight. Dimple bands are not considered to be watertight.

All connections shall use a rubber neoprene gasket when joining pipe sections. The end of each pipe shall be re-rolled and adequate number of corrugations to accommodate the band width. The following pipe connections are acceptable for pipes less than 24" in diameter: flanges on both ends of the pipe, a 12" wide standard lap type band with 12" wide by 3/8" thick closed cell circular neoprene gasket; and a 12" wide hugger type band with O-ring gaskets having a minimum diameter of 1/2" greater than the corrugation depth. Pipes 24" in diameter and larger shall be connected by a 24" long unrolled corrugated band using rods and lugs. 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".

Helicly corrugated pipe shall have either continuously welded seams or have lock 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, all 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 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. 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. 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.
- 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 608, 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

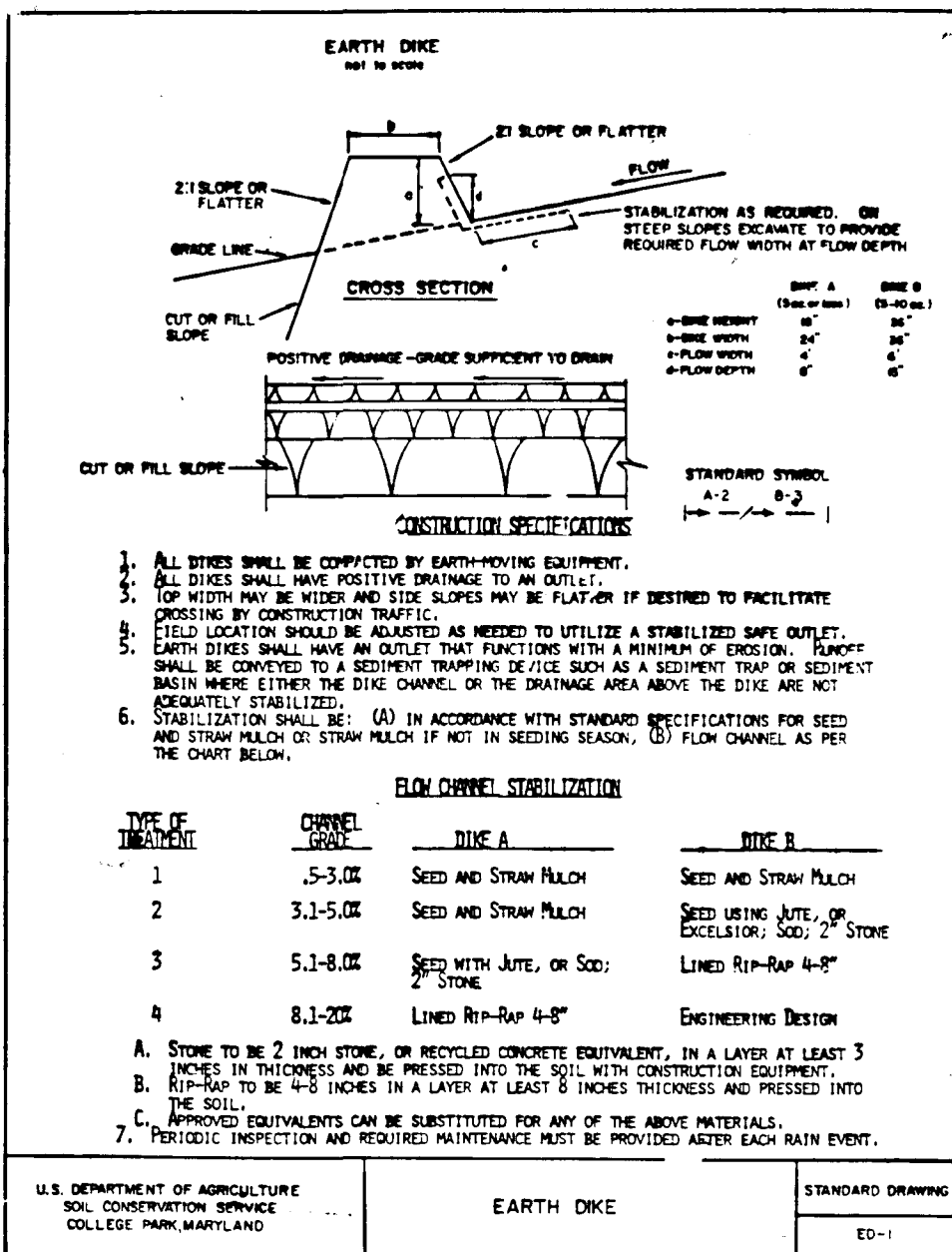
All work on permanent structures shall be carried out in areas free from water. The Contractor shall construct and maintain all temporary dikes, levees, cofferdams, drainage channels, and stream diversions necessary to protect the areas to be occupied by the permanent works. The contractor shall also 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 excavation and the foundation shall be accomplished in a manner and to the extent that will maintain stability of the excavated slopes and bottom of required excavations and will allow satisfactory performance of all construction operations. During the placing and compacting of material in required excavations, the water level at the locations being refilled shall be maintained below the bottom of the excavation at such locations which may require draining the water to pumps from which the water shall be pumped.

All borrow areas shall be graded to provide proper drainage and left in a slightly condition. All exposed surfaces of the embankment, spillway, spoil and borrow 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 (MD-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 abatement will be followed. Construction plans shall detail erosion and sediment control measures to be employed during the construction process.

Refer to the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for rate and methods not covered.



PERMANENT SEEDING NOTES

Apply to graded or cleared area not subject to immediate further disturbance where a permanent long-lived vegetative cover is needed.

Seedbed Preparation: Loosen upper three inches of soil by raking, discing or other acceptable means before seeding (unless previously loosened).

Soil Amendments: In lieu of soil test recommendations, use one of the following schedules:

- Preferred - Apply 2 tons per acre dolomitic limestone (92 lbs/1000 square feet) and 600 lbs per acre 10-10-10 fertilizer (14 lbs/1000 sq ft) before seeding. Harrow or disc into upper three inches of soil. At time of seeding, apply 400 lbs per acre 30-0-0 ureaform fertilizer (9 lbs/1000 sq ft).
- Acceptable - Apply 2 tons per acre dolomitic limestone (92 lbs/1000 sq ft) and 1000 lbs per acre 10-10-10 fertilizer (23 lbs/1000 sq ft) before seeding. Harrow or disc into upper three inches of soil.

Seeding: For the periods March 1 thru April 30, and August 1 thru October 15, seed with 60 lbs per acre (1.4 lbs/1000 sq ft) of Kentucky 31 Tall Fescue. For the period May 1 thru July 31, seed with 60 lbs Kentucky 31 Tall Fescue per acre and 2 lbs per acre (.05 lbs/1000 sq ft) of weeping lovegrass. During the period of October 16 thru February 28, protect site by Option (1) 2 tons per acre of well anchored straw mulch and seed as soon as possible in the spring. Option (2) Use seed with 60 lbs/acre Kentucky 31 Tall Fescue and mulch with 2 tons/acre well anchored straw.

Mulching: Apply 1-1/2 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 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 reseeding.

TEMPORARY SEEDING NOTES

Apply to graded or cleared areas likely to be reseeded where a short-term vegetative cover is needed.

Seedbed Preparation: Loosen upper three inches of soil by raking, discing or other acceptable means before seeding (unless previously loosened).

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

Seeding: For periods March 1 thru April 30 and from August 15 thru November 15, seed with 2-1/2 bushel per acre of annual rye (3.2 lbs/1000 sq ft). For the period May 1 thru August 14, seed with 3 lbs per acre of weeping lovegrass (.07 lbs/1000 sq ft). For the period November 16 thru February 28, protect site by applying 2 tons per acre of well anchored straw mulch and seed as soon as possible in the spring, or use sod.

Mulching: Apply 1-1/2 to 2 tons per acre (70 to 90 lbs/1000 sq ft) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gal per acre (5 gal/1000 sq ft) of emulsified asphalt on flat areas. On slopes, 8 ft or higher, use 348 gal per acre (8 gal/1000 sq ft) for anchoring.

Refer to the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for rate and methods not covered.

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. (301) 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) 2 calendar days for all perimeter sediment control structures, dikes and 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, Chapter 12, of the HOWARD COUNTY DESIGN MANUAL, Storm Drainage.

5. All disturbed areas must be stabilized within the time period specified above in accordance with the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for permanent seedings (Sec. 51), sod (Sec. 54), temporary seedings (Sec. 50) and mulching (Sec. 52). Temporary stabilization, with mulch alone, can only be done when recommended seeding dates do not allow for proper germination and establishment of grasses.

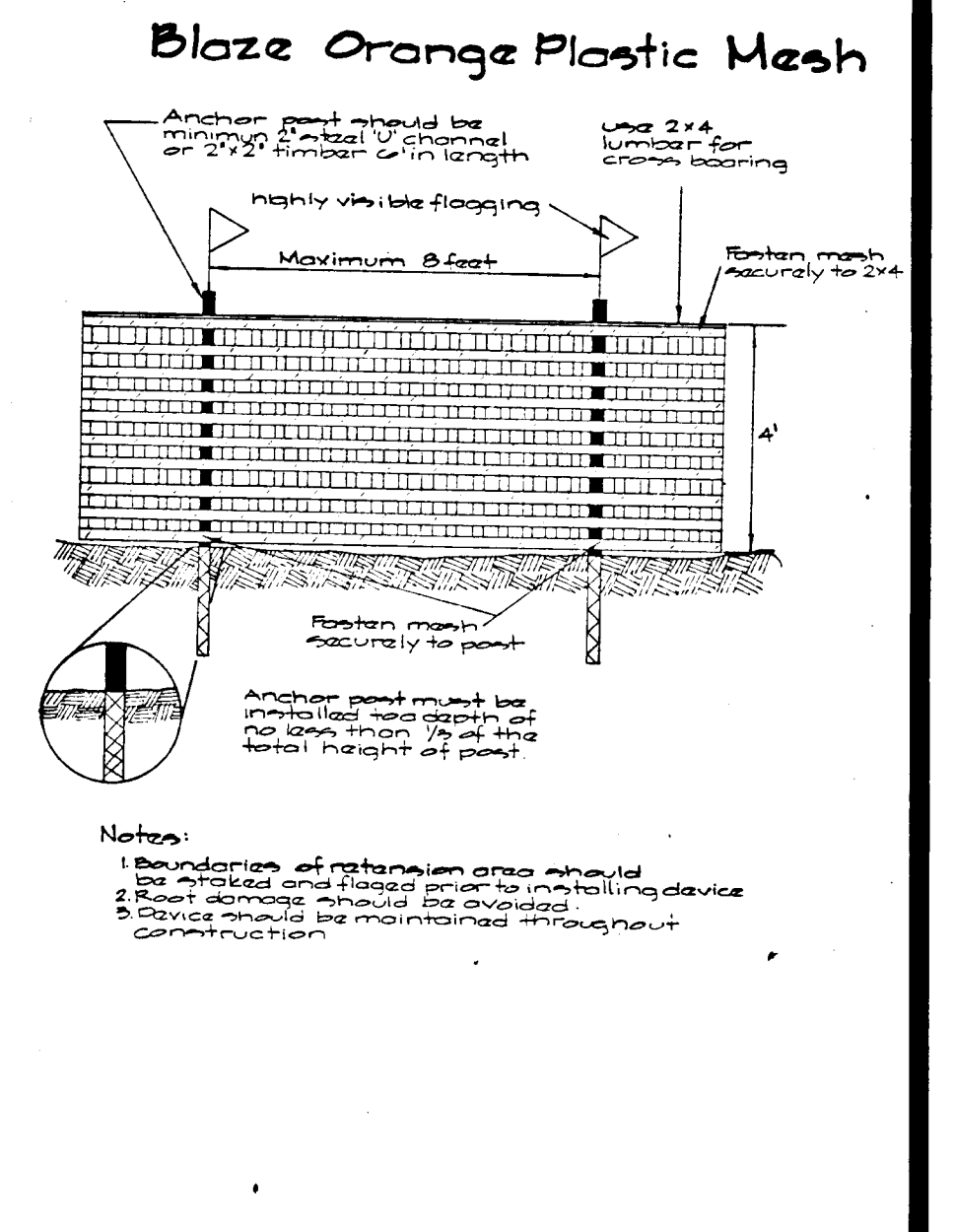
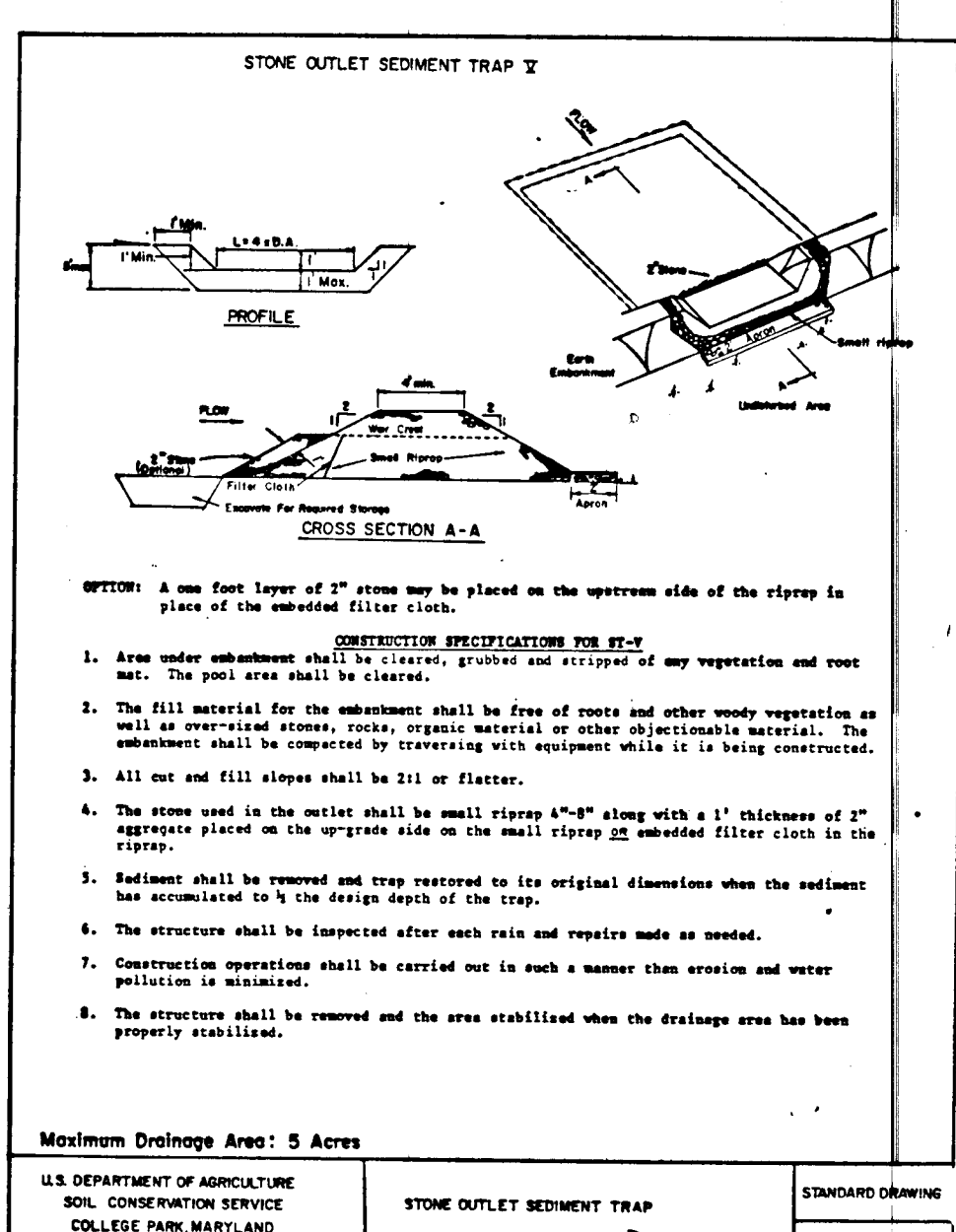
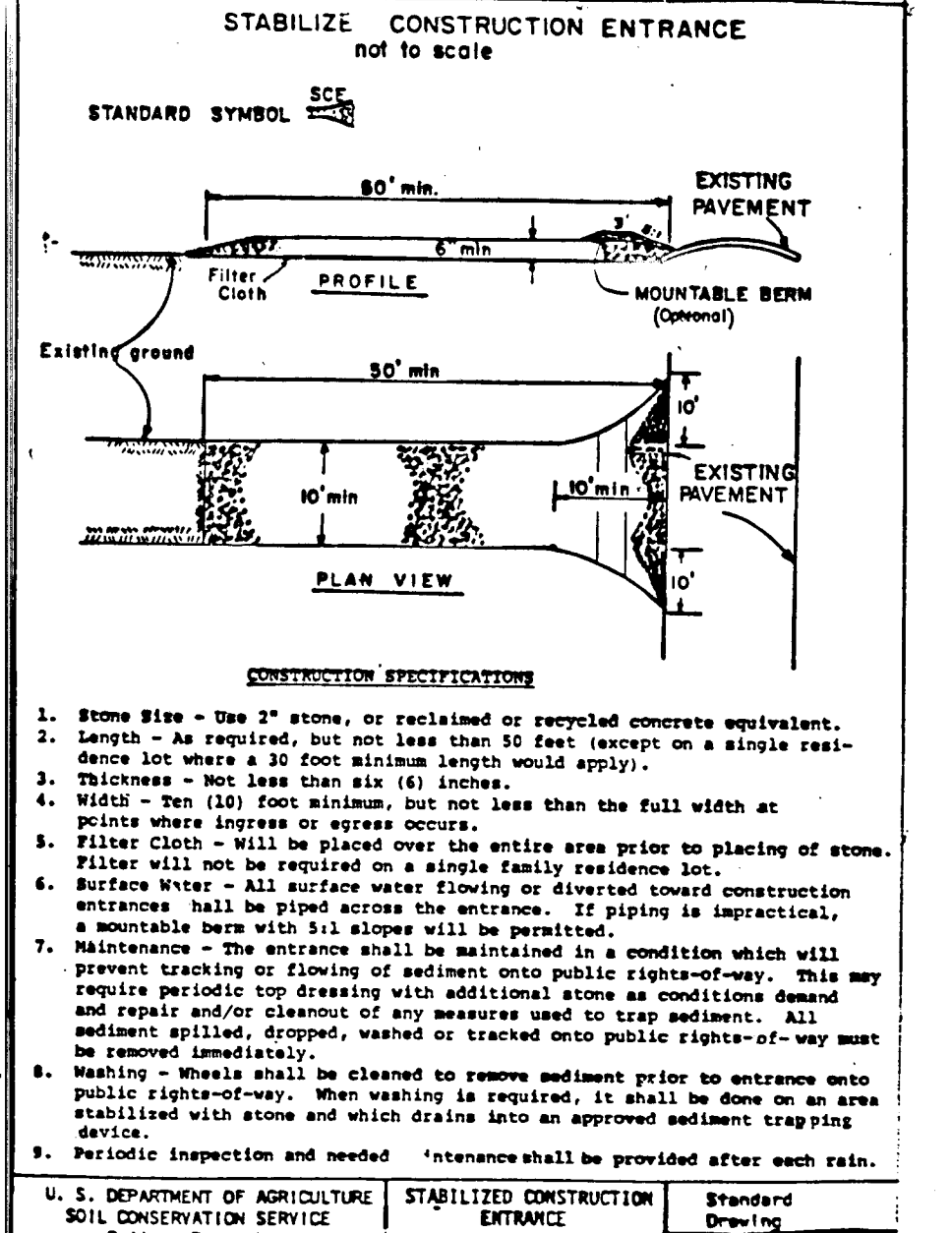
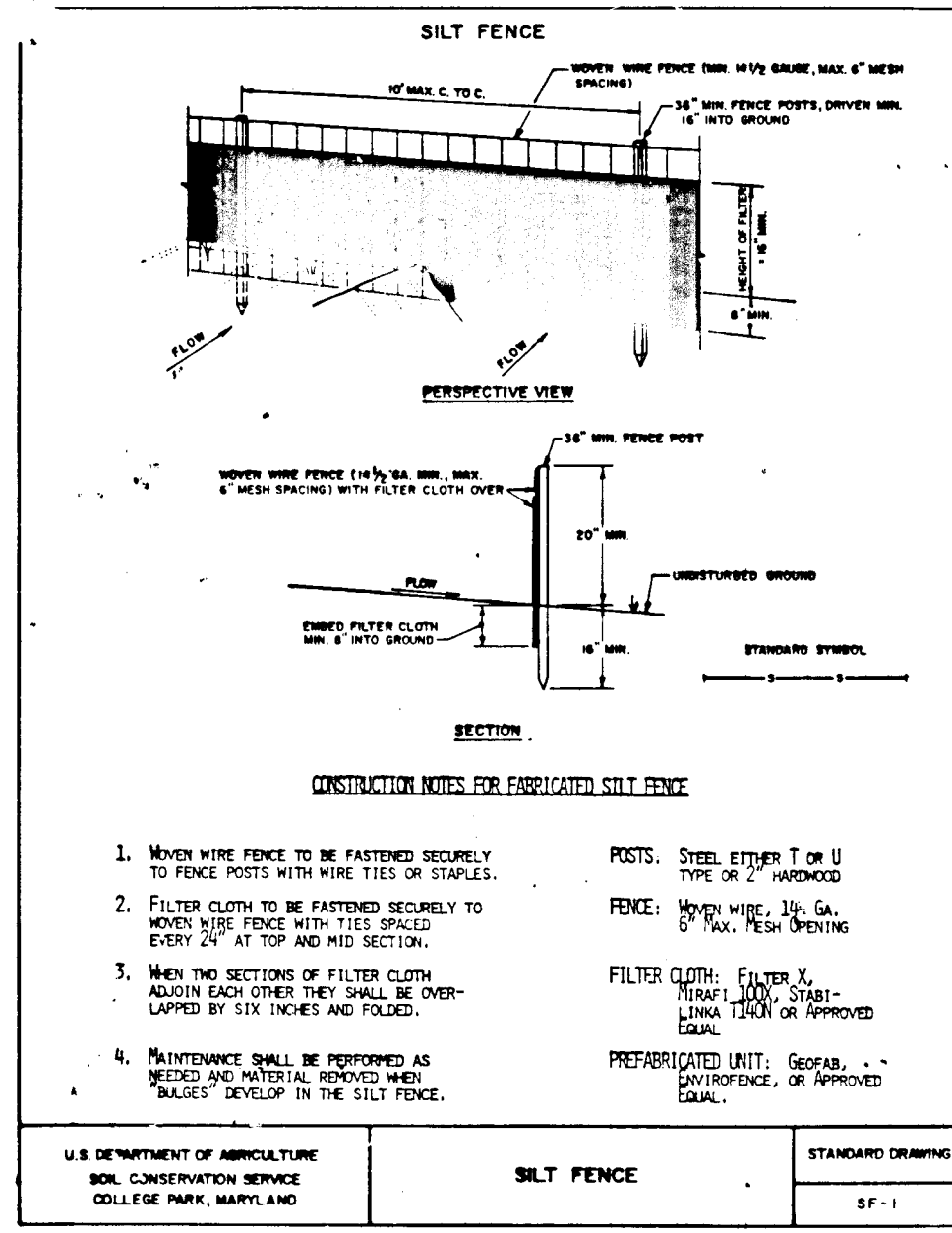
6. All sediment control structures are to remain in place and are to be maintained in operative condition until permission for their removal has been obtained from the Howard County Sediment Control Inspector.

7. Site Analysis:
 Total Area of Site : 22.75 Acres
 Area Disturbed : 7.24 Acres
 Area to be roofed or paved : 0.51 Acres
 Area to be vegetatively stabilized : 7.11 Acres
 Total Cut : 11,500 Cu. Yds.
 Total Fill : 11,500 Cu. Yds.
 Off-site waste/borrow area location: N/A

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 control must be provided, if deemed necessary by the Howard County DPM 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.



ENGINEER'S CERTIFICATE

I certify that this plan for pond construction, erosion and sediment control represents a practical and workable plan based on my personal knowledge of the site conditions. This plan was prepared in accordance with the requirements of the Howard County Sediment Control Inspector. I have notified the developer that he/she must engage a registered professional engineer to supervise pond construction and provide the Howard County Sediment Control Inspector 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.

Chitra 2-21-95
 Date

DEVELOPER'S/BUILDER'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 Approval of a Maryland Department of the Environment Approved Training Program for the Control of Erosion and Sediment before beginning the project. I shall engage a registered Professional Engineer to supervise pond construction and provide the Howard County Sediment Control Inspector 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.

Paul B. ... 2-21-95
 Signature of Developer/Builder Date

Approved: Howard County Dept. of Public Works
Andrew M. Daniels 9-11-95
 Chief, Bureau of Highways Date

Approved: Howard County Dept. of Planning & Zoning
John ... 9/20/95
 Chief, Div. of Land Development & Research Date

... 9/15/95
 Chief, Development Engineering Div Date

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| DATE | REVISION | BY | APP'R. |
|------|----------|----|--------|
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PREPARED FOR:
 Kingsbridge @ Burleigh Manor
 Lots 775 - 784, Parcel A & Parcel B
 Elliott City Election District N 2

DES: Storm Water Management, Sediment Control Notes & Details
 SCALE: N/A
 ZONING: R-20
 G.L.W. FILE NO: 74000

DRN: MCF
 DATE: NOV. 14, 1995
 CHK: CKG
 TAX MAP NO: 23
 SHEET: 6 of 6

| DES: DEY | SCALE: N/A | ZONING: R-20 | G.L.W. FILE NO: 74000 |
|----------|---------------------|--------------|-----------------------|
| DRN: MCF | DATE: NOV. 14, 1995 | CHK: CKG | TAX MAP NO: 23 |
| | | | |