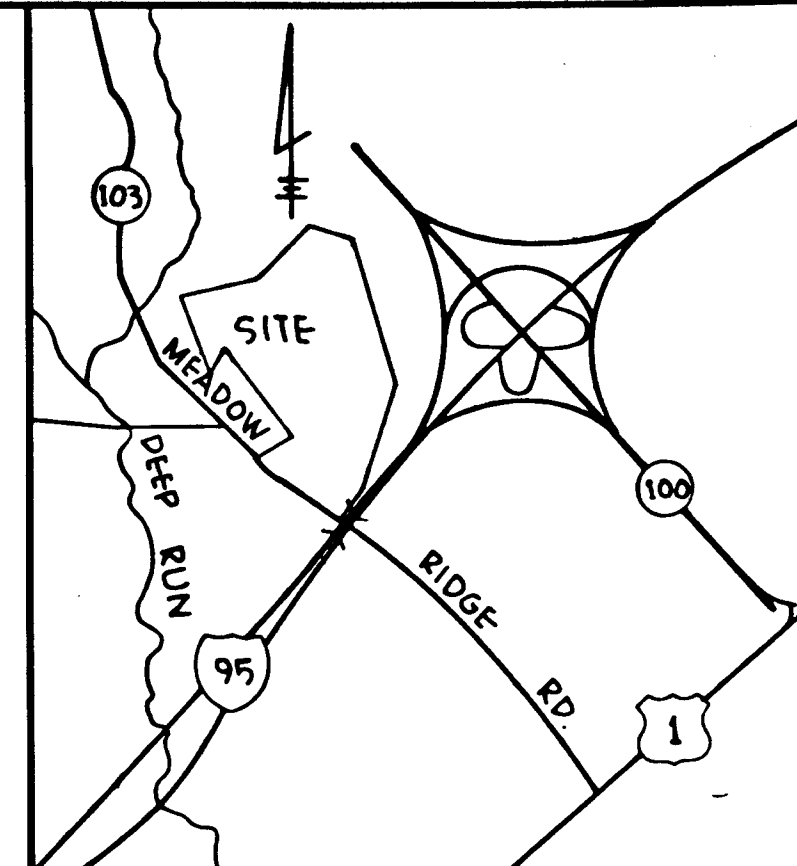
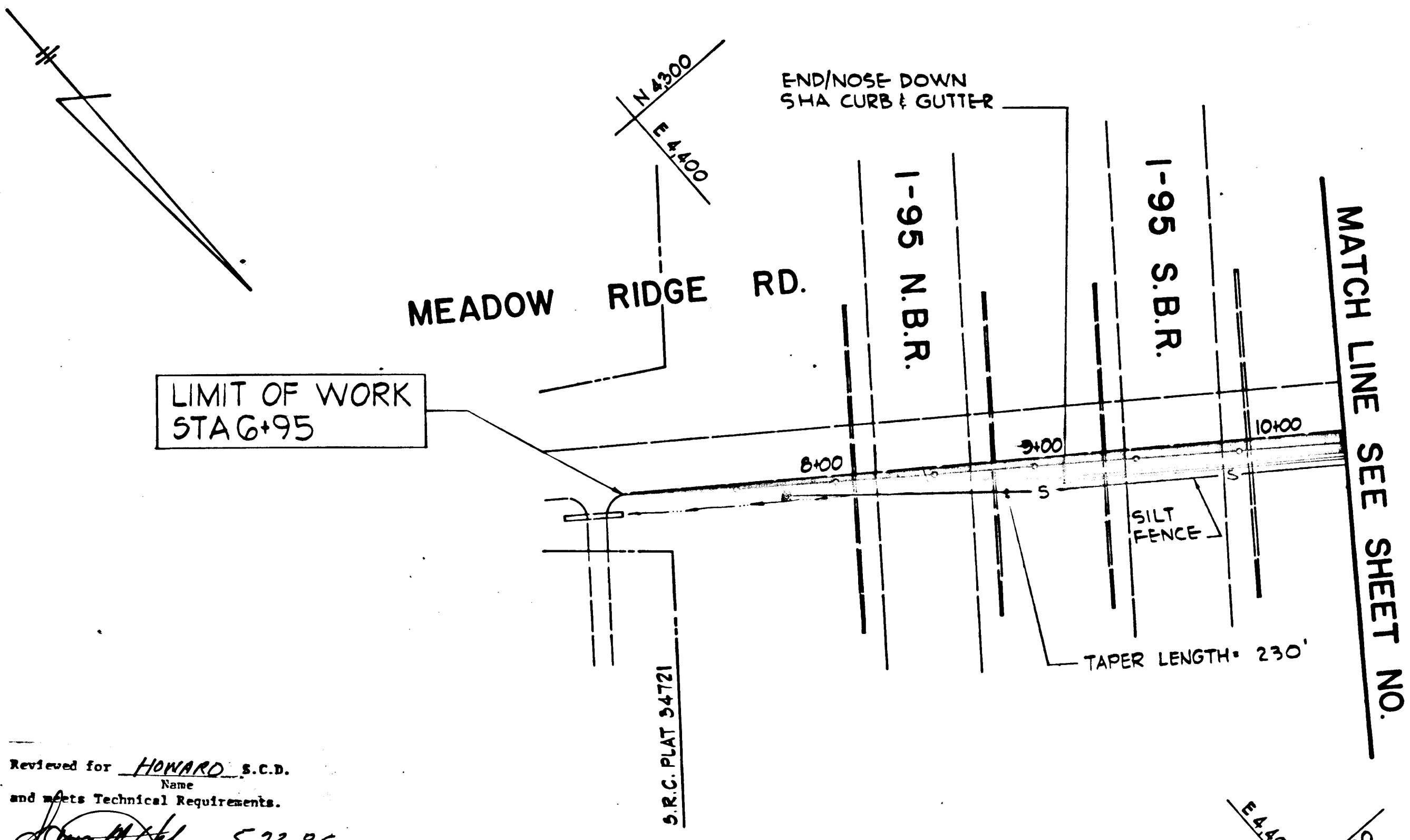


INDEX OF DRAWINGS

SHEET NO.	DESCRIPTION
1	OFFSITE ROADWAY IMPROVEMENTS
2	OFFSITE ROADWAY IMPROVEMENTS
3	GENERAL NOTES - OFFSITE ROADWAY
4	ROAD & DRAINAGE PLANS - OLD FARM ROAD
5	ROAD & DRAINAGE PLANS - GREEN PASTURE LANE
6	TYPICAL SECTIONS - ONSITE ROADS
7	STORM WATER MANAGEMENT POND NOTES & DETAILS
8	DETAILS OF STRUCTURES 1 & 2
9	STORM DRAINAGE PROFILES & DETAILS
10	SEDIMENT CONTROL NOTES & DETAILS
11	DRAINAGE AREA MAP

DATE	BY

DATE	BY

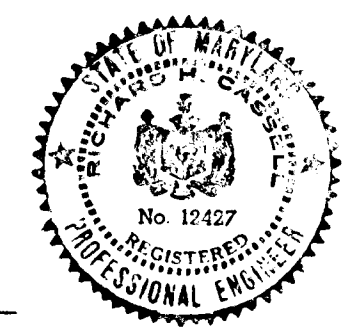


VICINITY MAP

ENGINEERS CERTIFICATION SCALE: 1" = 2000'

I certify that this plan for erosion and sediment control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District.

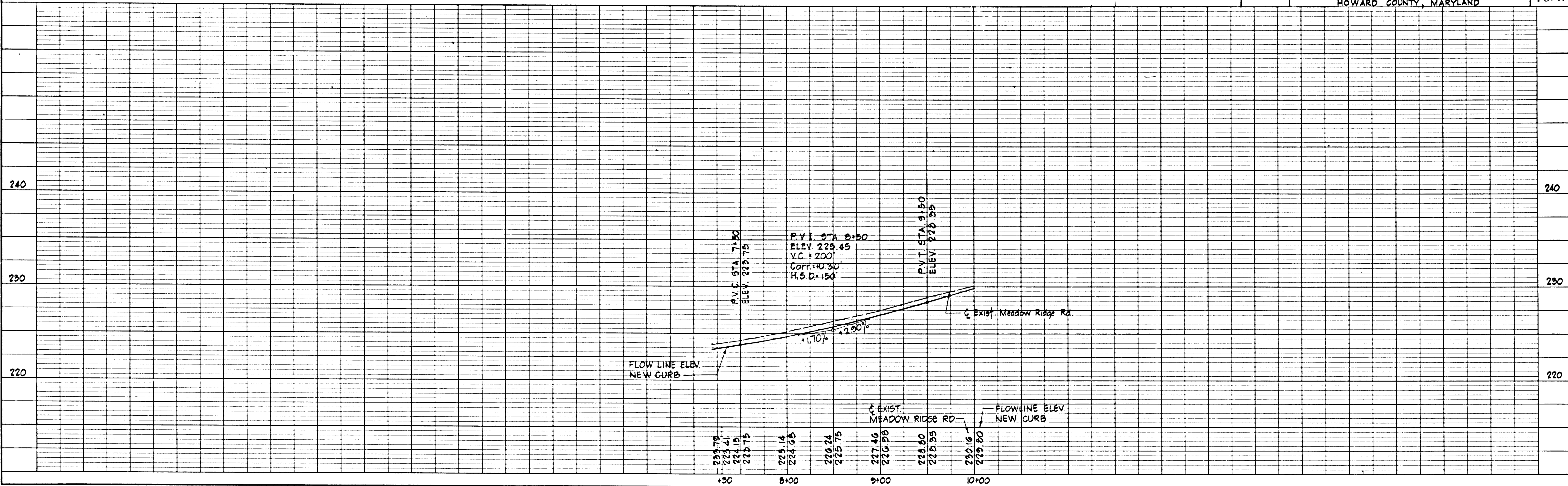
Richard H. Cassell 12/4/84  
RICHARD H. CASSELL DATE



Reviewed for HOWARD S.C.D.  
Name  
and meets Technical Requirements.  
*John M. ...* 5-23-85  
U.S. Soil Conservation Service Date  
THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.  
*Robert W. ...* 5-23-85  
Howard S.C.D. Date

APPROVED: Department of Public Works  
*John W. ...* 5/22/85  
Chief, Bureau of Engineering Date  
APPROVED: Howard County Office of Planning & Zoning  
*John W. ...* 5/21/85  
Chief, Division of Land Development & Zoning Administration Date  
DESIGNED: OFFSITE ROAD CONSTRUCTION PLANS  
C.O.R. MD ROUTE 103  
CHECKED: GREEN MEADOW FARMS  
R.H.C. 1ST ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND  
SCALE: 1" = 90'  
DRWG NO 1 of 11

OWNER/DEVELOPER:  
ACQUEST NATIONAL CORPORATION  
OF NORTH AMERICA  
7239 Washington Boulevard  
Baltimore, Maryland 21227



835

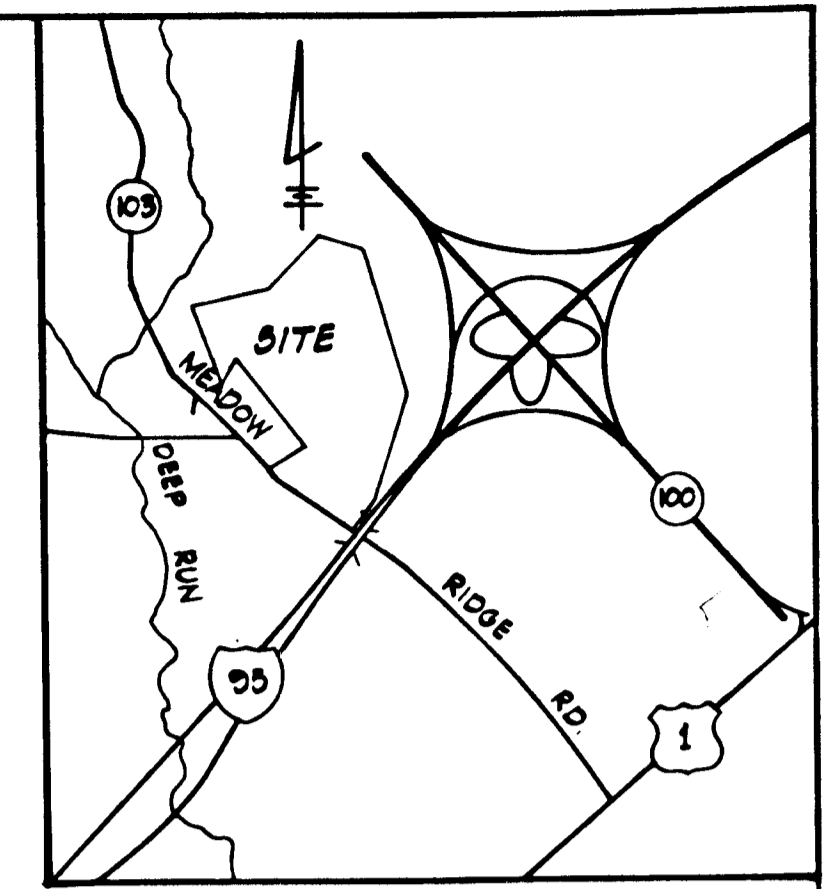
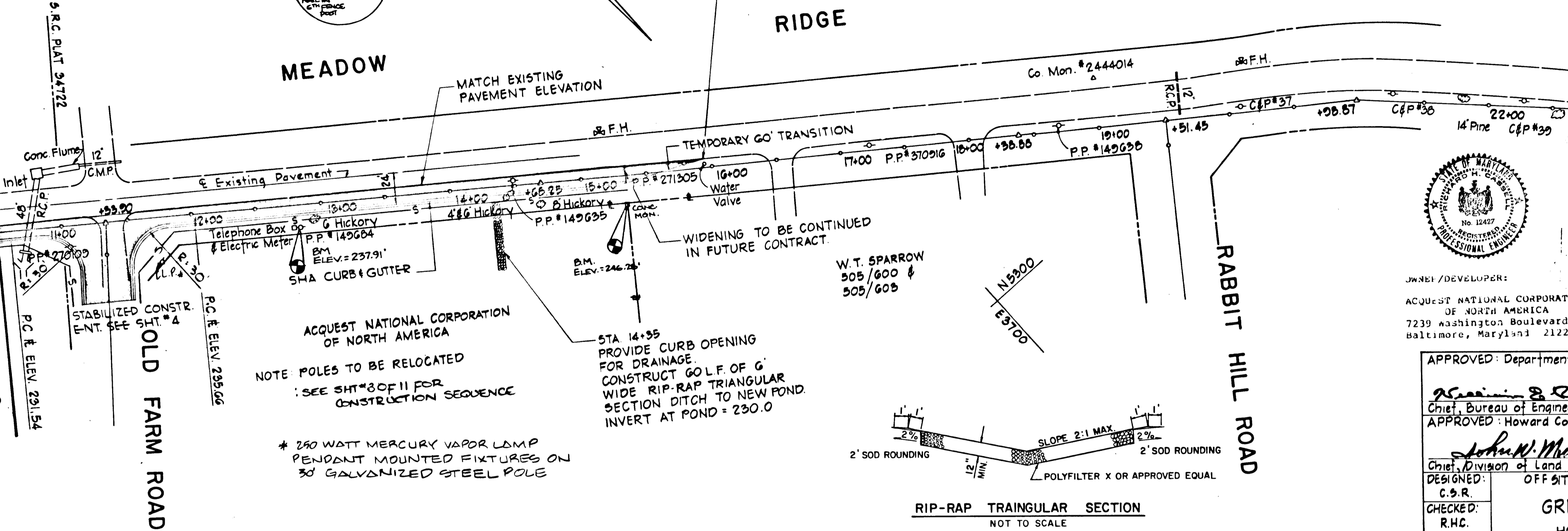
DATE	
BY	
PLAN	
NOTE BOOK	
NO.	

Reviewed for HOWARD S.C.D.  
 Name  
 and meets Technical Requirements  
 Signature [Signature] Date 5/23/85  
 U.S. Soil Conservation Service

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

Approved [Signature] Date 5-23-85  
 Howard S.C.D.

MATCH LINE SEE SHEET NO.



APPROVED: Department of Public Works

[Signature] 5/28/85  
 Chief, Bureau of Engineering Date

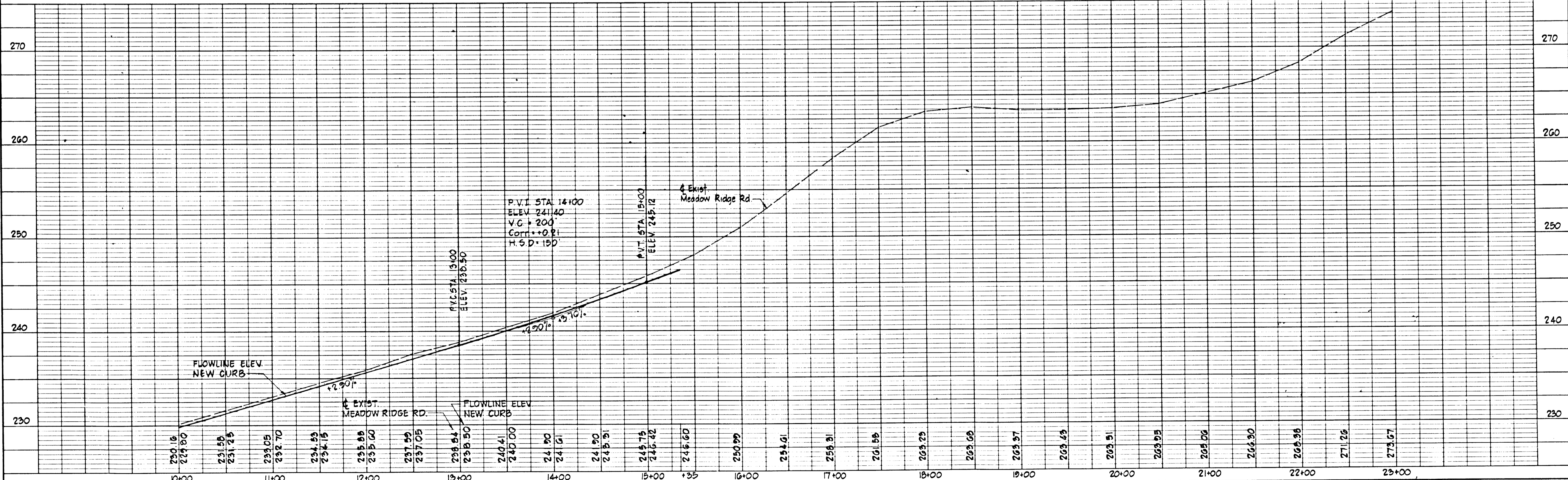
APPROVED: Howard County Office of Planning & Zoning

[Signature] 5/21/85  
 Chief, Division of Land Development & Zoning Administration Date

DESIGNED: OFF SITE ROAD CONSTRUCTION PLANS  
 C.S.R. MD ROUTE 105  
 GREEN MEADOW FARMS  
 1ST ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND

CHECKED: R.H.C. SCALE: 1" = 50'  
 DRWG. NO. 2 OF 11

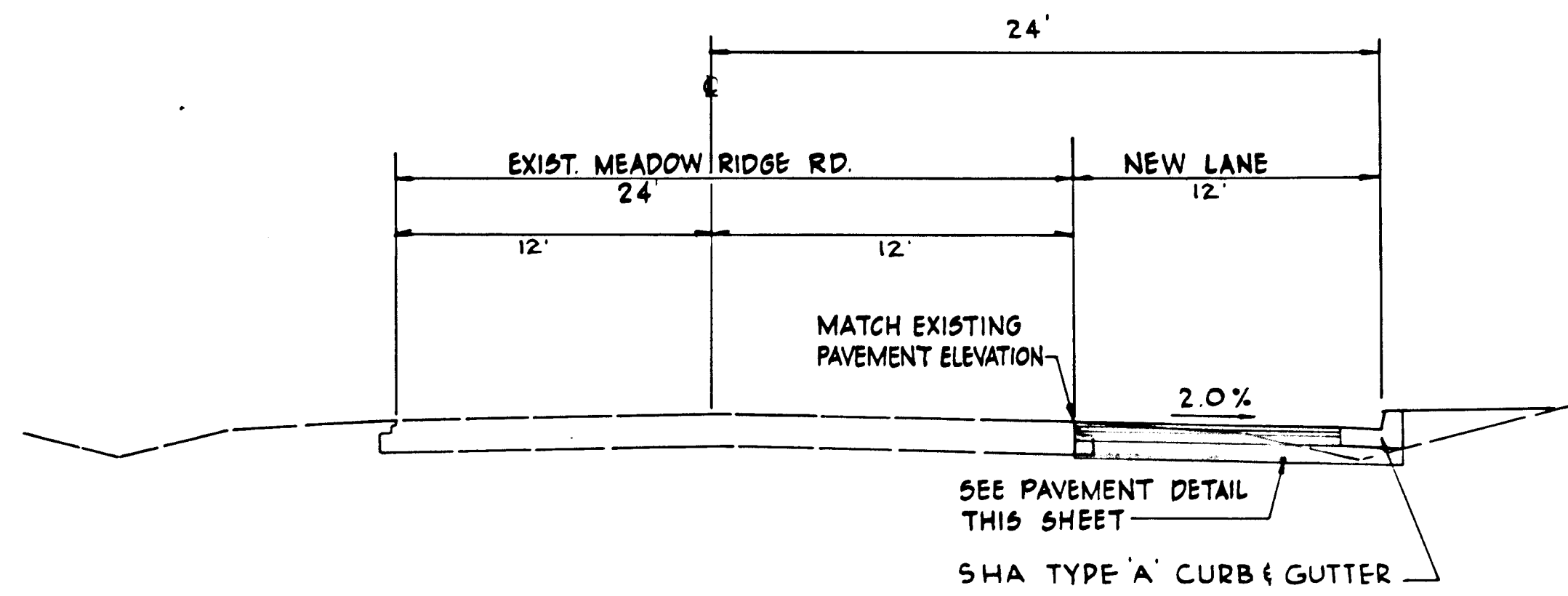
DATE	
BY	
PROFILE	
NOTE BOOK	
NO.	



835

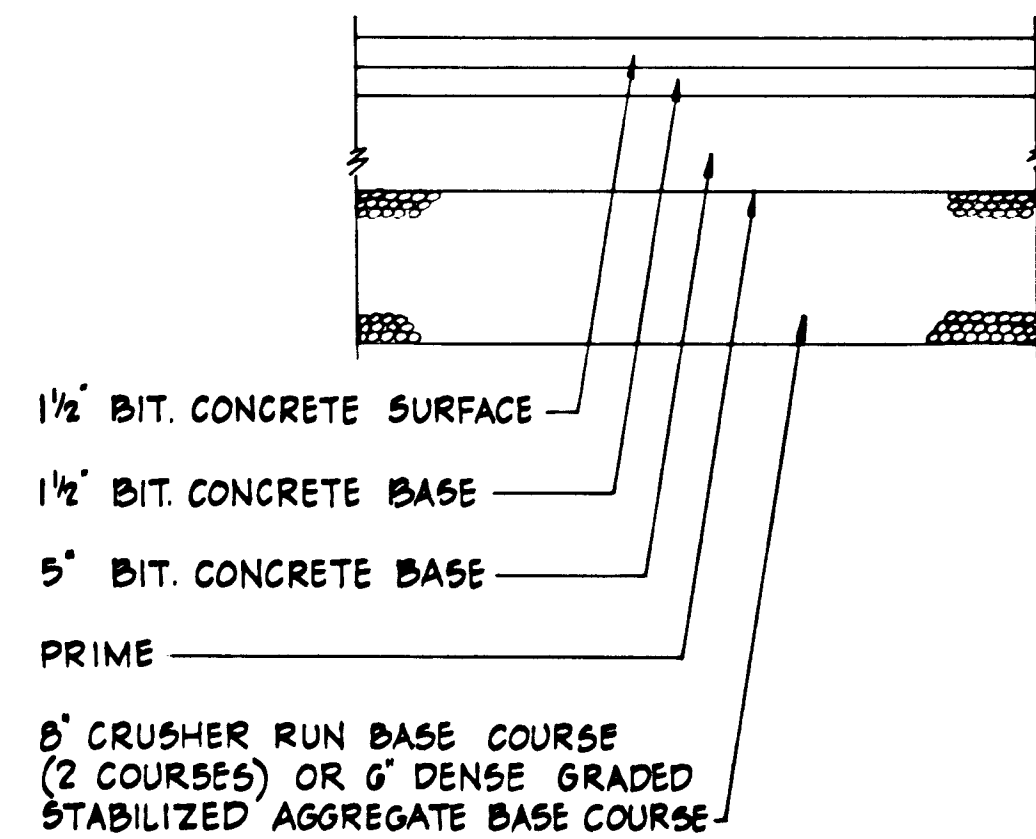
**GENERAL NOTES**

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST DETAILS AND SPECIFICATIONS OF HOWARD COUNTY & MD S.H.A.
2. FOR TYPES OF STORM DRAIN STRUCTURES REFER TO THE STANDARD DETAILS OF HOWARD COUNTY & MARYLAND STATE HIGHWAY ADMINISTRATION.
3. TRENCH COMPACTION FOR STORM DRAINS WITHIN ROAD OR STREET RIGHT-OF-WAY LIMITS SHALL BE IN ACCORDANCE WITH HOWARD CO. DESIGN MANUAL VOL. IV.
4. CLASS C TRENCH BEDDING TO BE USED FOR ALL STORM DRAIN CONSTRUCTION UNLESS OTHERWISE SHOWN.
5. INFORMATION CONCERNING UNDERGROUND UTILITIES WAS OBTAINED FROM SURVEYS & AVAILABLE RECORDS, BUT 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.
6. ALL UTILITY COMPANIES SHALL BE NOTIFIED 24 HOURS IN ADVANCE OF CONSTRUCTION.
7. ALL TRAFFIC CONTROL SERVICES, PARKING AND SIGNING TO BE DONE IN ACCORDANCE WITH THE "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES," 1971 EDITION.
8. SAG & CREST VERTICAL CURVES WERE DESIGNED IN ACCORDANCE WITH "HOWARD COUNTY DESIGN MANUAL" VOLUME III.
9. DESIGN SPEED: 80' R/W = 50 M.P.H. (MEADOWRIDGE ROAD) OR 20 M.P.H. (MINOR COLLECTORS)
10. CONSTRUCTION SEQUENCE: 30 M.P.H. (LOCAL RDS) (SEE SHT # 10 OF 11 - NOTE # 17)
11. "THE CONTRACTOR OR DEVELOPER SHALL CONTACT THE CONSTRUCTION INSPECTION / SURVEY DIVISION, 24 HRS. IN ADVANCE OF COMMENCEMENT OF WORK, AT: 792-7272"



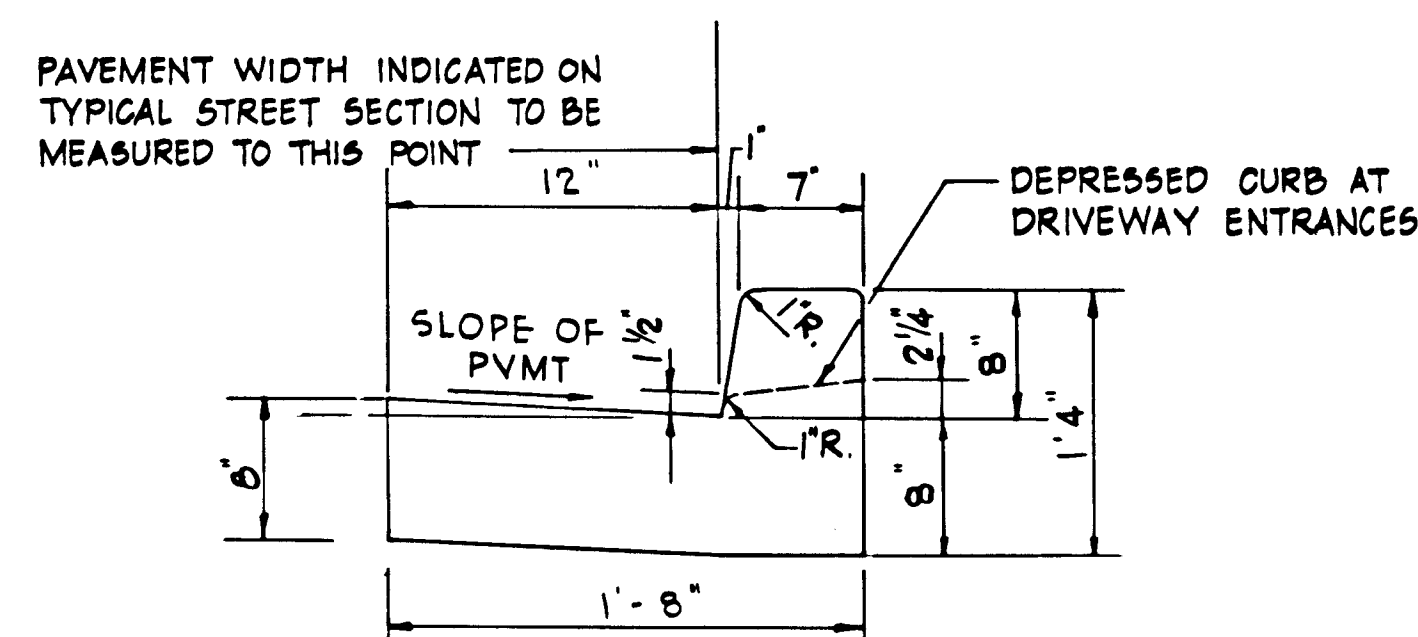
**TYPICAL SECTION**

NOT TO SCALE



**PAVING DETAIL**

NOT TO SCALE



**S.H.A. TYPE "A" COMBINATION CURB AND GUTTER**

NOT TO SCALE

**ENGINEER'S CERTIFICATION**

I certify that this plan for erosion and sediment control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District."

*Richard H. Caswell* R.H.A. DATE  
RICHARD H. CASSELL DATE



APPROVED: Department of Public Works

APPROVED: <i>Richard H. Caswell</i> Chief, Bureau of Engineering	5/21/85 Date
APPROVED: Howard County Office of Planning & Zoning <i>John W. Mumman</i> Chief, Division of Land Development & Zoning Administration	5-21-85 Date
DESIGNED: OFFSITE ROAD CONSTRUCTION PLANS W.A.B. MD ROUTE 103	SCALE: NONE
CHECKED: GREEN MEADOW FARMS R.H.C. 1ST ELECTION DISTRICT HOWARD COUNTY, MARYLAND	DRWG. NO. 3 of 11

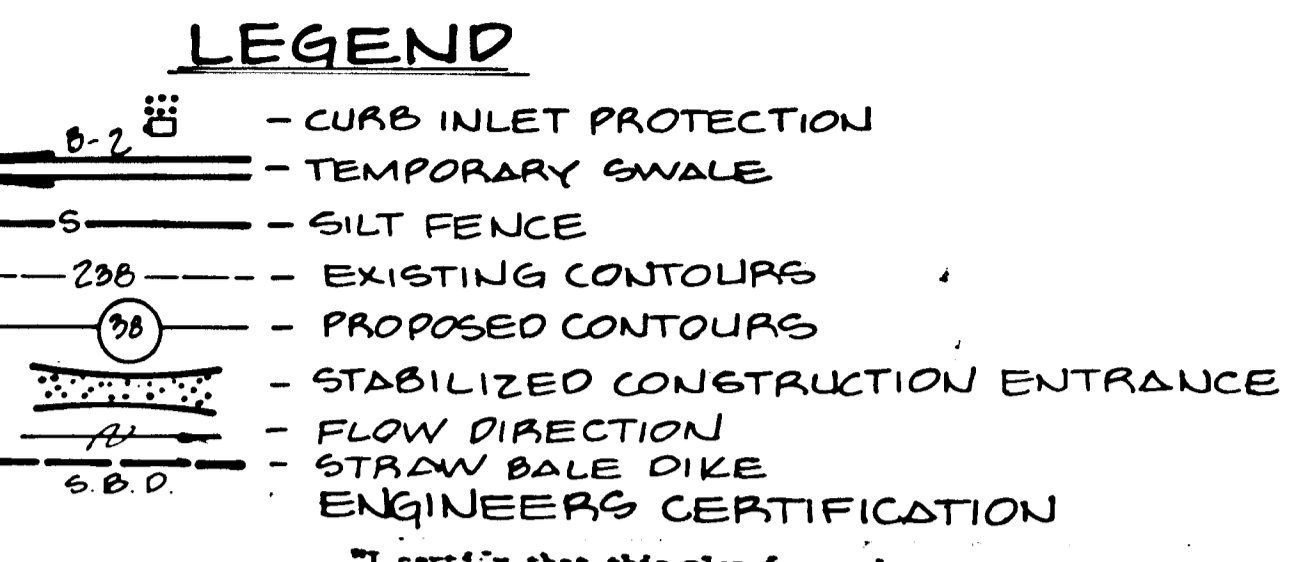
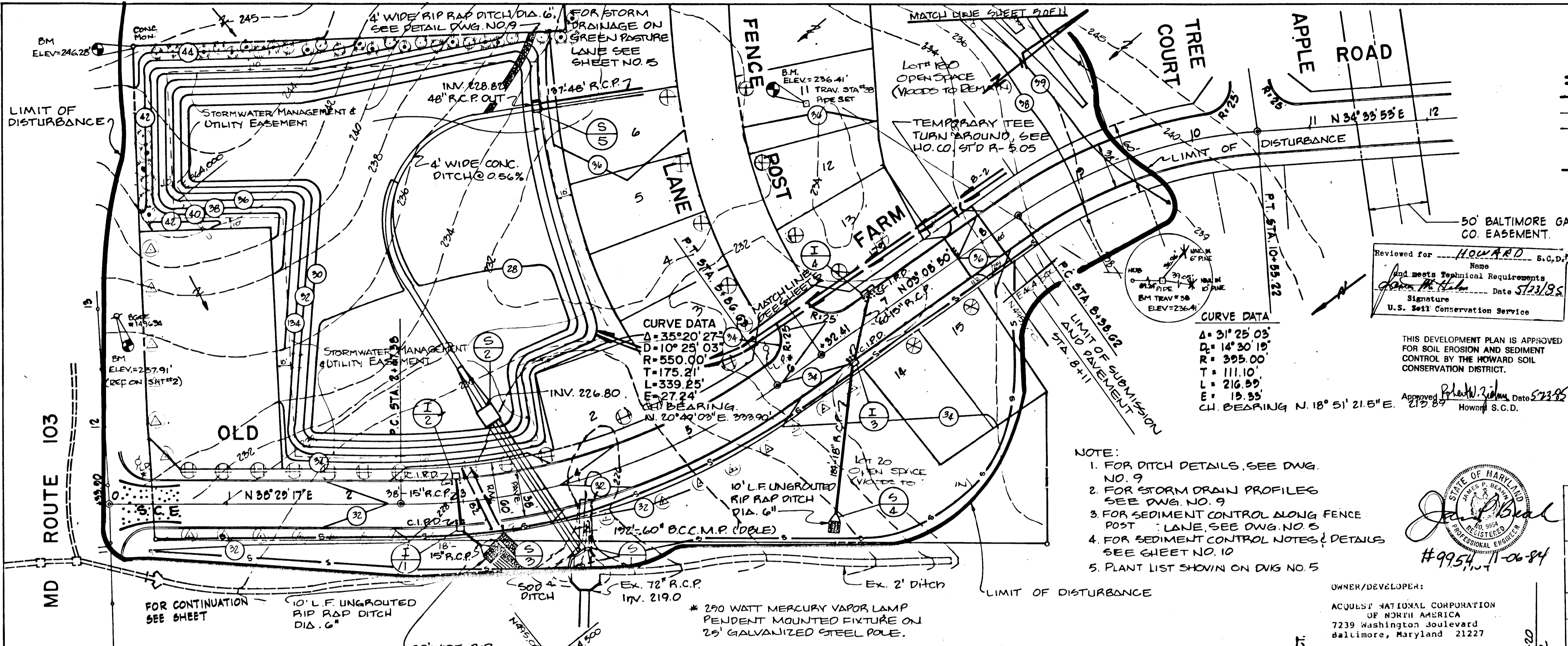
OWNER/DEVELOPER:  
ACQUEST NATIONAL CORPORATION  
OF NORTH AMERICA  
7239 Washington Boulevard  
Baltimore, Maryland 21227

F-85-50

035

DATE: \_\_\_\_\_  
 BY: \_\_\_\_\_  
 SURVEY PLOTTED: \_\_\_\_\_  
 TEMPLATE: \_\_\_\_\_  
 NOTE BOOK: \_\_\_\_\_  
 AREA CHECKED: \_\_\_\_\_  
 NO. \_\_\_\_\_

DATE: \_\_\_\_\_  
 BY: \_\_\_\_\_  
 SURVEY PLOTTED: \_\_\_\_\_  
 TEMPLATE: \_\_\_\_\_  
 NOTE BOOK: \_\_\_\_\_  
 AREA CHECKED: \_\_\_\_\_  
 NO. \_\_\_\_\_



Reviewed for: HOWARD S.C.D.  
 Name: \_\_\_\_\_  
 and meets Technical Requirements  
 Date: 5/23/85  
 Signature: \_\_\_\_\_  
 U.S. Soil Conservation Service

"I certify that this plan for pond construction, erosion and sediment control represents a practical and workable plan based on my personal knowledge of the site conditions. This plan was prepared in accordance with the requirements of the Howard Soil Conservation District. I have notified the developer that he must provide the Howard Soil Conservation District with an 'as built' plan of the pond within 30 days of completion."  
James P. Beahn 11-06-84  
 JAMES P. BEAHN #9954 DATE

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.  
 Approved: \_\_\_\_\_ Date: 5/23/85  
 219.87 Howard S.C.D.

- NOTE:**
- FOR DITCH DETAILS, SEE DWG. NO. 9
  - FOR STORM DRAIN PROFILES SEE DWG. NO. 9
  - FOR SEDIMENT CONTROL ALONG FENCE POST LANE, SEE DWG. NO. 6
  - FOR SEDIMENT CONTROL NOTES & DETAILS SEE SHEET NO. 10
  - PLANT LIST SHOWN ON DWG. NO. 5

STATE OF MARYLAND  
 PROFESSIONAL ENGINEER  
James P. Beahn  
 #9954 11-06-84

**ENGINEER'S CERTIFICATE**

I certify that this plan for erosion and sediment control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District."  
James P. Beahn 11-06-84  
 JAMES P. BEAHN #9954 DATE

APPROVED Department of Public Works  
William S. Ely 5/28/85  
 Chief, Bureau of Engineering  
 APPROVED Howard County, Office of Planning & Zoning  
John W. Muehlen 5/28/85  
 Chief, Division of Land Development & Zoning Administration  
 DESIGNED: KBE/RHC  
 CHECKED: RHC  
 ROAD CONSTRUCTION AND TREE PLANS  
 OLD FARM ROAD - SECT 1  
 GREEN MEADOW FARMS  
 1<sup>ST</sup> ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND  
 SCALE: 1"=50'  
 DRAWING NO. 4 OF 11

OWNER/DEVELOPER:  
 ACQUIST NATIONAL CORPORATION  
 OF NORTH AMERICA  
 7239 Washington Boulevard  
 Baltimore, Maryland 21227

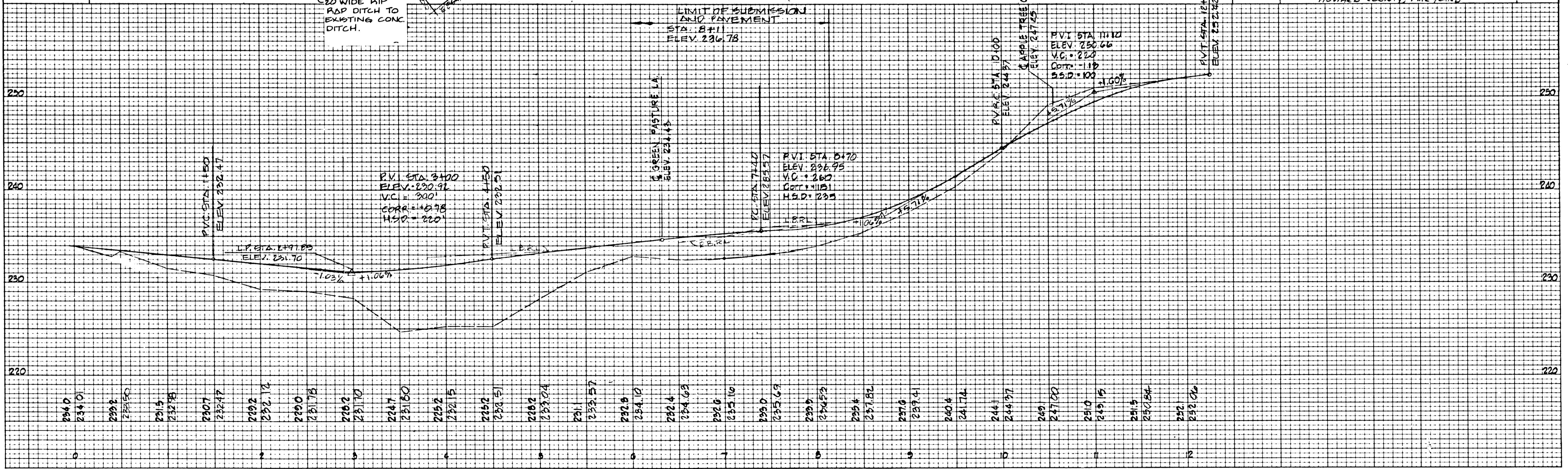


PLATE 4-SINGLE PLAN AND CROSS SECTION-FULL LINE

F-85-50

- NOTE:
1. FOR STORM DRAIN PROFILE & DITCH DETAILS SEE DWG. NO. 9
  2. FOR SEDIMENT CONTROL NOTES & DETAILS SEE DWG. NO. 10
  3. FOR DETAIL OF M-I STRUCTURE, SEE DWG. NO. 9
  4. FOR SEDIMENT CONTROL ALONG OLD FARM ROAD, SEE SHEET NO. 4

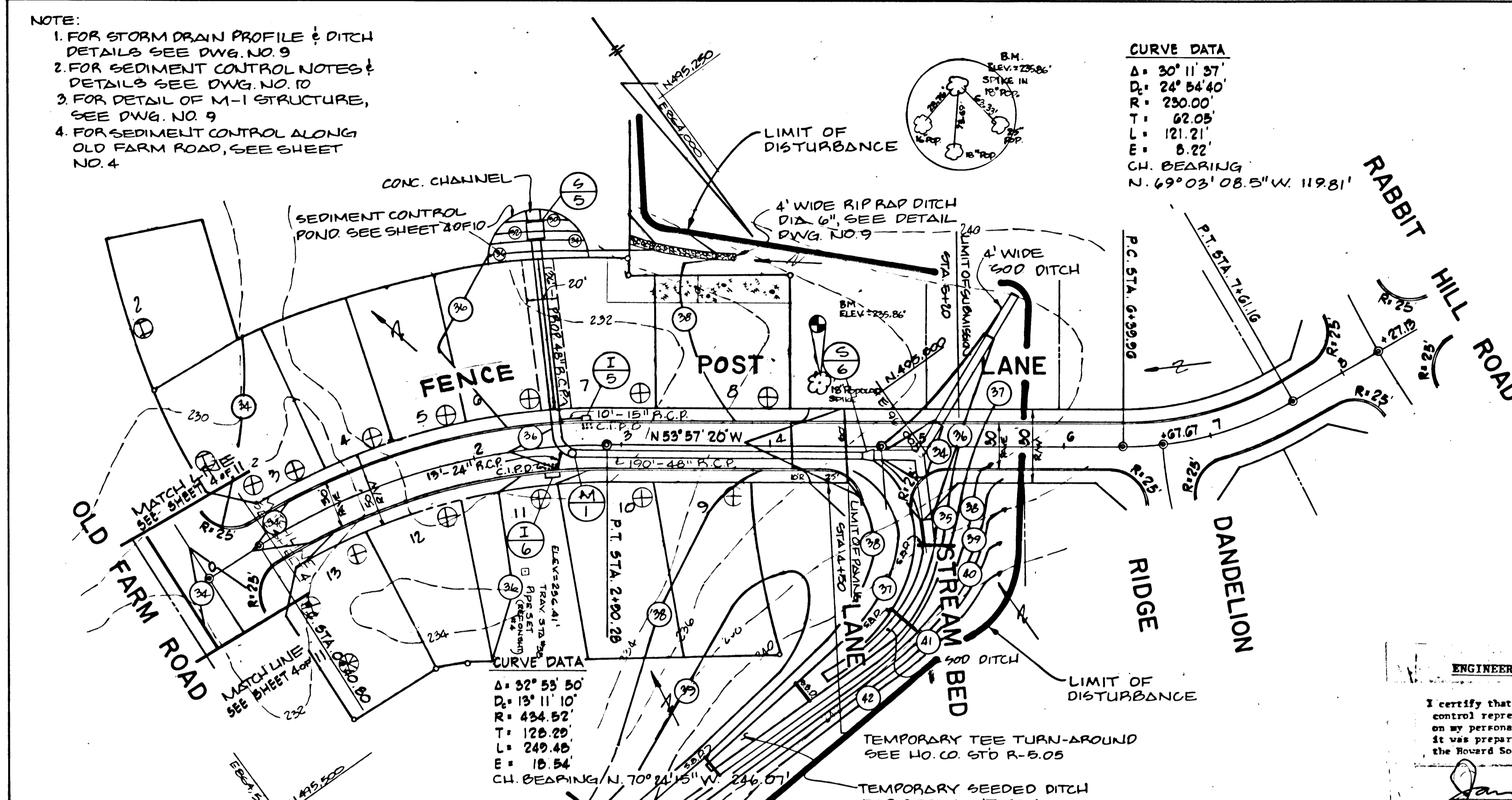
**CURVE DATA**  
 Δ: 30° 11' 57"  
 D: 24° 54' 40"  
 R: 230.00'  
 T: 62.05'  
 L: 121.21'  
 E: 6.22'  
 CH. BEARING: N. 69° 03' 08.5" W. 119.81'

**PLANTING NOTE:**  
 Street trees will be adjusted as to location based on field conditions. (Grades, Parking, Etc.)

PLANT LIST			
Code	Name	Size	Quant.
⊕	PINUS STROBUS - WHITE PINE	8-10'	22
⊕	PINUS THUNBERGII - JAPANESE BLACK PINE	8-10'	22
⊕	PRUNUS SARGENTI - SARGENT CHERRY	2 1/2 Cal.	24
⊕	QUERCUS PALUSTRIS - PIN OAK	2 1/2 Cal.	3
⊕	ACER RUBRUM - RED MAPLE	2 1/2 Cal.	13
⊕	LIQUIDAMBAR - STYRACIFLUA - SWEETGUM	2 1/2 Cal.	14

DATE	
BY	
REVISION	
NO.	
DATE	
BY	
REVISION	
NO.	
DATE	
BY	
REVISION	
NO.	
DATE	
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REVISION	
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NO.	
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NO.	
DATE	
BY	
REVISION	
NO.	



**ENGINEER'S CERTIFICATE**

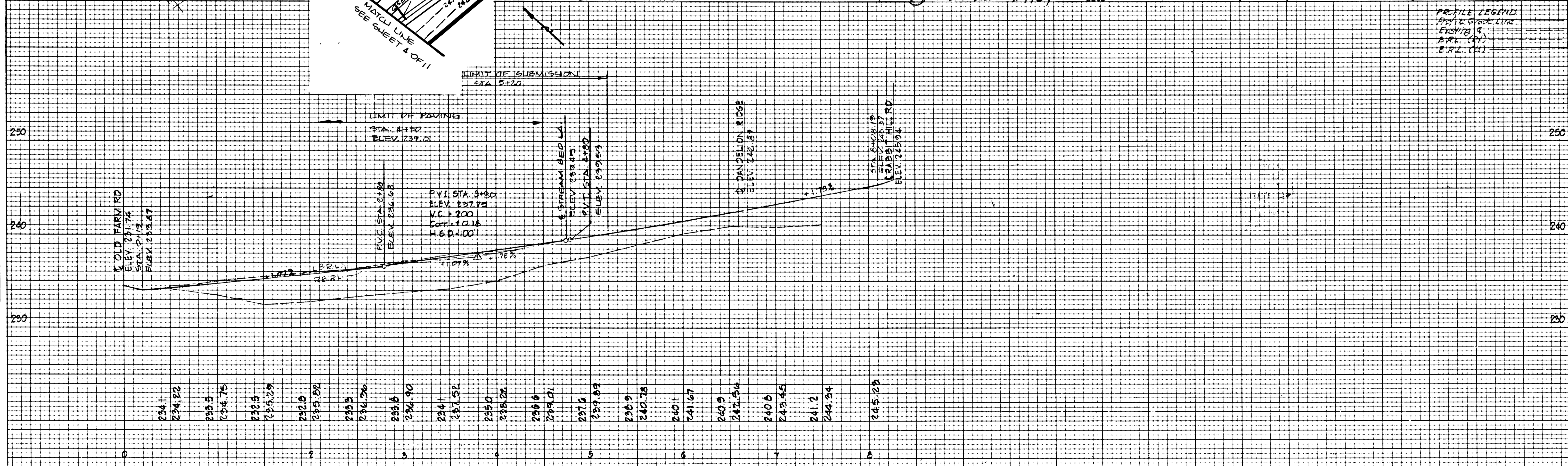
I certify that this plan for erosion and sediment control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District.

*Jan P. Bich*  
 JAMES P. BICH #9964  
 11-06-84  
 Date

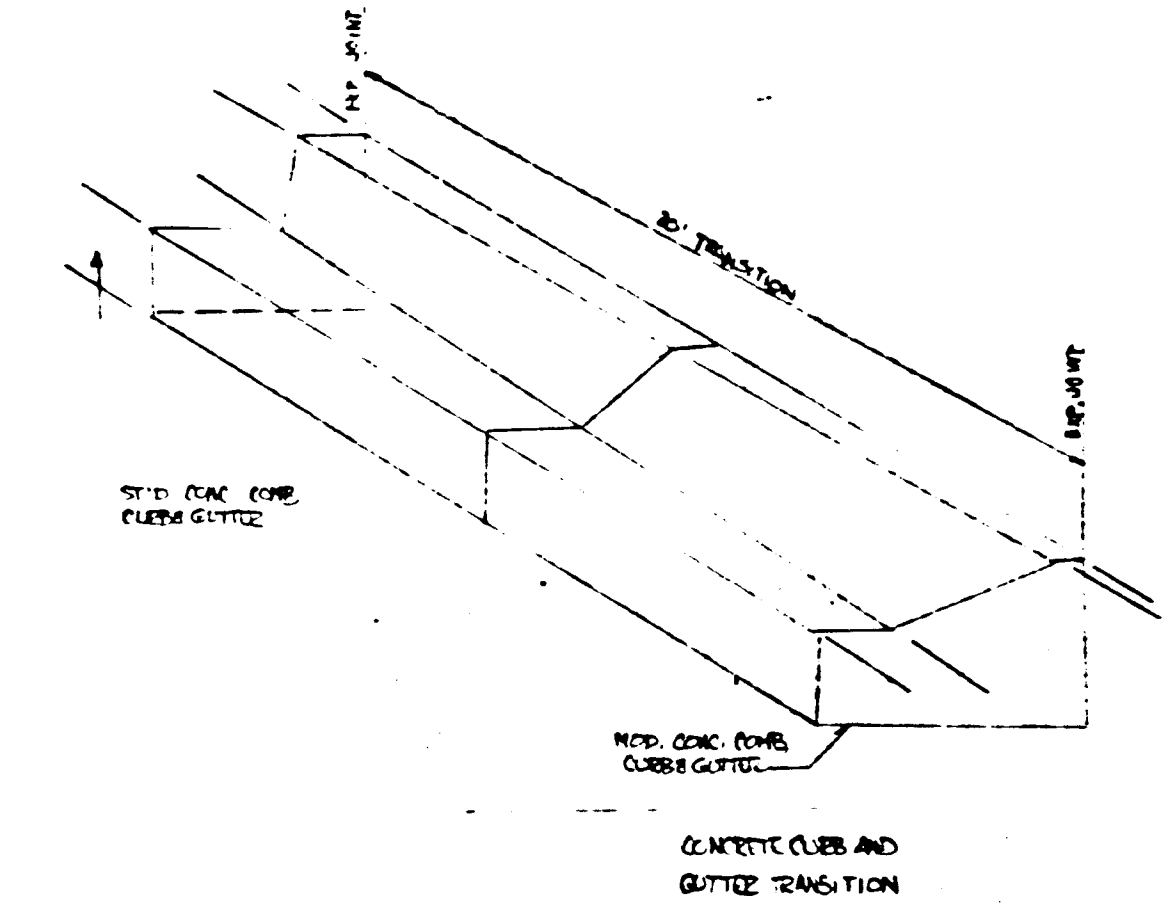
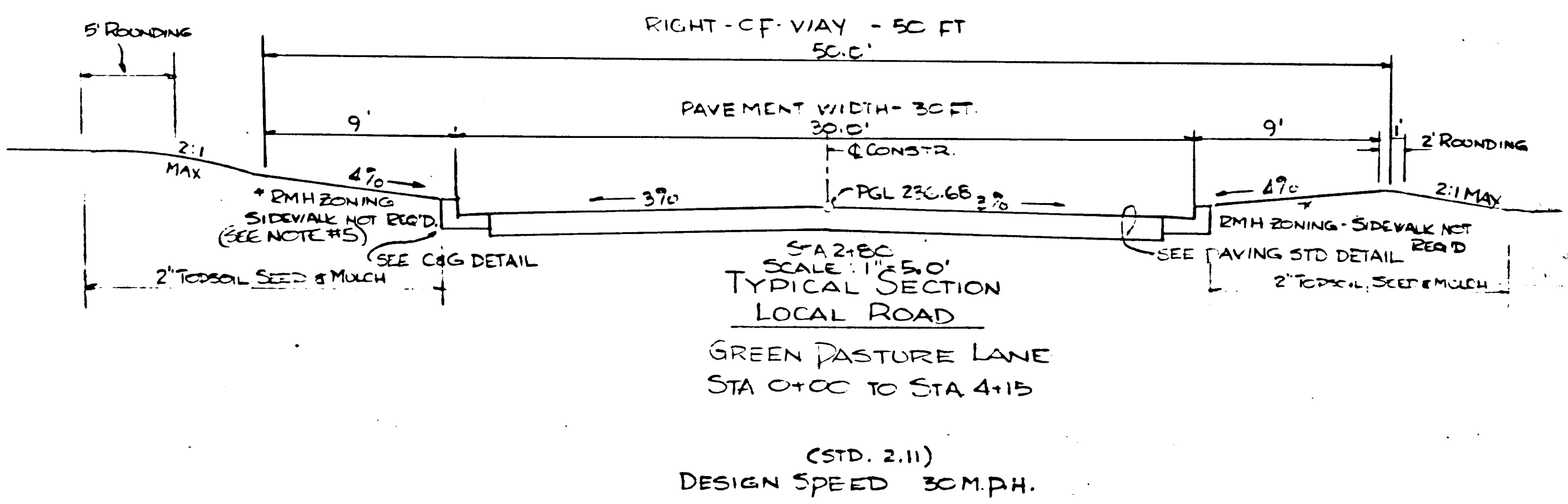
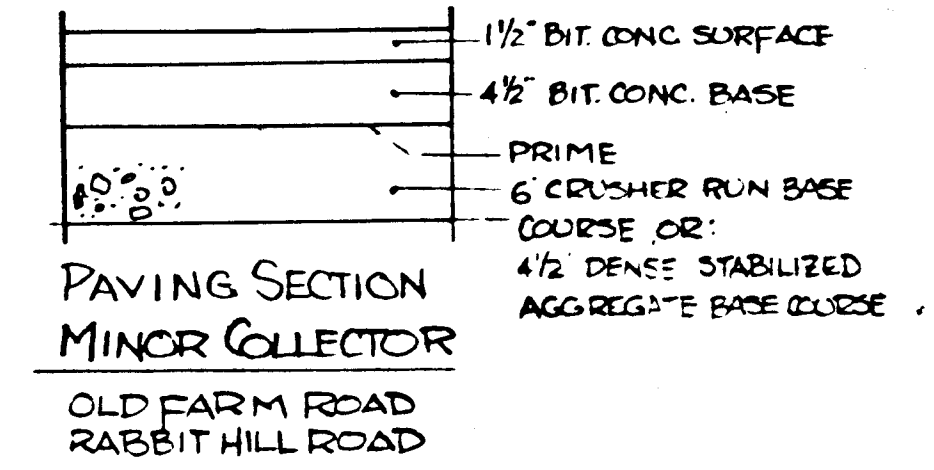
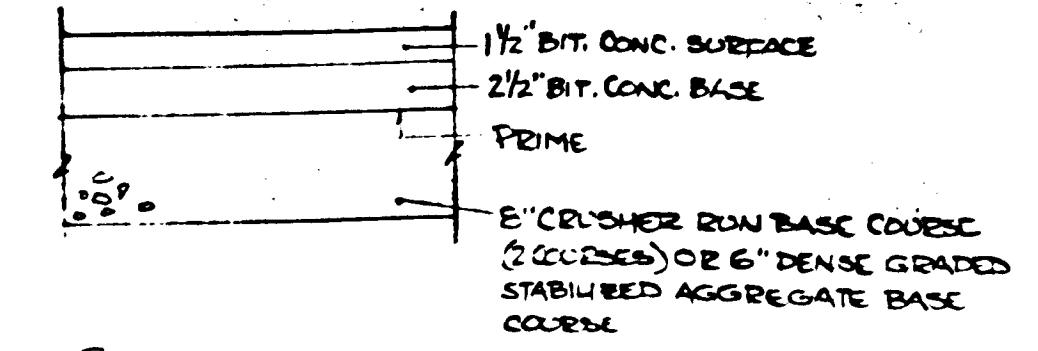
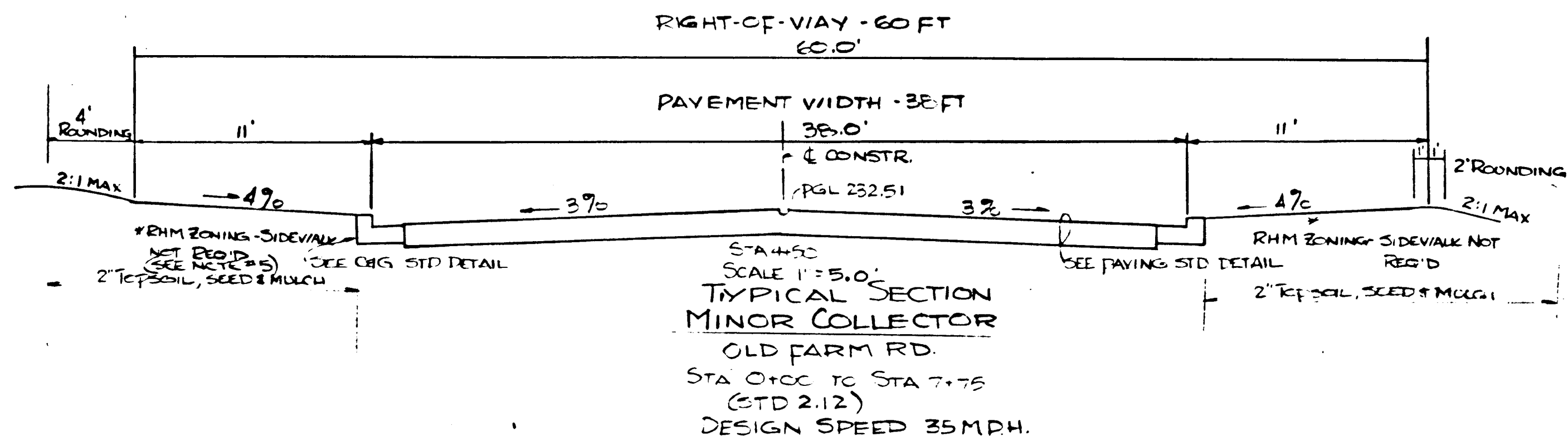
OWNER/DEVELOPER:  
 ACQUEST NATIONAL CORPORATION  
 OF NORTH AMERICA  
 7239 Washington Boulevard  
 Baltimore, Maryland 21227

*Jan P. Bich*  
 #9954 11-06-84  
 REGISTERED PROFESSIONAL ENGINEER

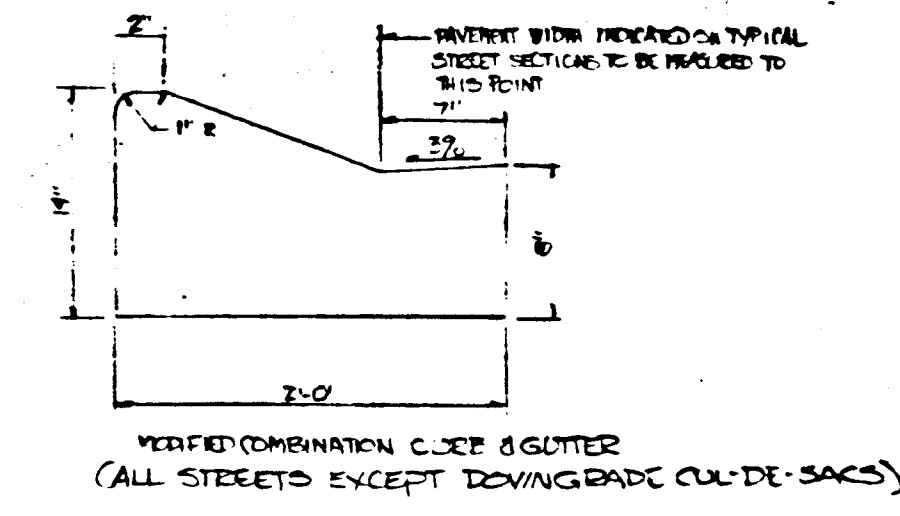
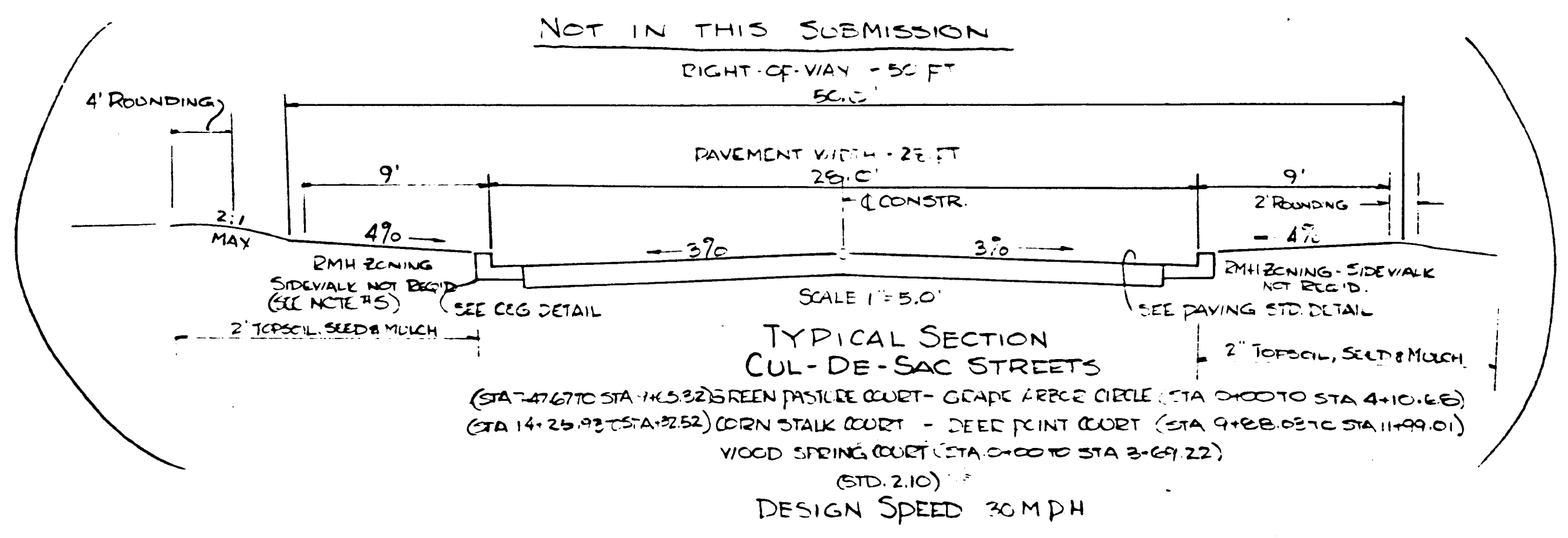
APPROVED: Department of Public Works	<i>James P. Bich</i>	slu/als
DESIGNED: Bureau of Engineering	<i>John W. Mueckman</i>	52185
APPROVED: Howard County Office of Planning & Zoning	1ST ELECTION DISTRICT	SCALE 1"=50'
DESIGNED: Division of Land Use/Planning/Zoning Administration	GREEN PASTURE LANE - SECT 1	DATE
CHECKED: KBR/bic	GREEN MEADOW FARMS	DRAWING 5 OF 11
CHECKED: BIC	1ST ELECTION DISTRICT	
	HOWARD COUNTY, MARYLAND	



**PROFILE LEGEND**  
 PROPOSED GRADE LINE  
 EXISTING GRADE  
 B.M. (BY)  
 E.T.L. (BY)



- NOTES
- 1) ZONING - RMH SIDEWALKS NOT REQUIRED
  - 2) ALL ROADS SHALL BE CONSTRUCTED IN ACCORDANCE WITH HOWARD COUNTY CRITERIA
  - 3) TYPICAL SECTION DESIGN AND PAVING DETAILS ARE IN ACCORDANCE WITH HOWARD COUNTY CRITERIA AS SHOWN
  - 4) STATIONS FOR TYPICAL SECTION ARE PRELIMINARY AND MAY BE MODIFIED DURING FINAL DESIGN.
  - 5) SHOULD THE DEPT. OF PLANNING & ZONING RULE THAT SIDEWALKS ARE NECESSARY THEY WILL BE SHOWN ON THE FINAL PLANS IN ACCORDANCE WITH HOWARD CO. CRITERIA



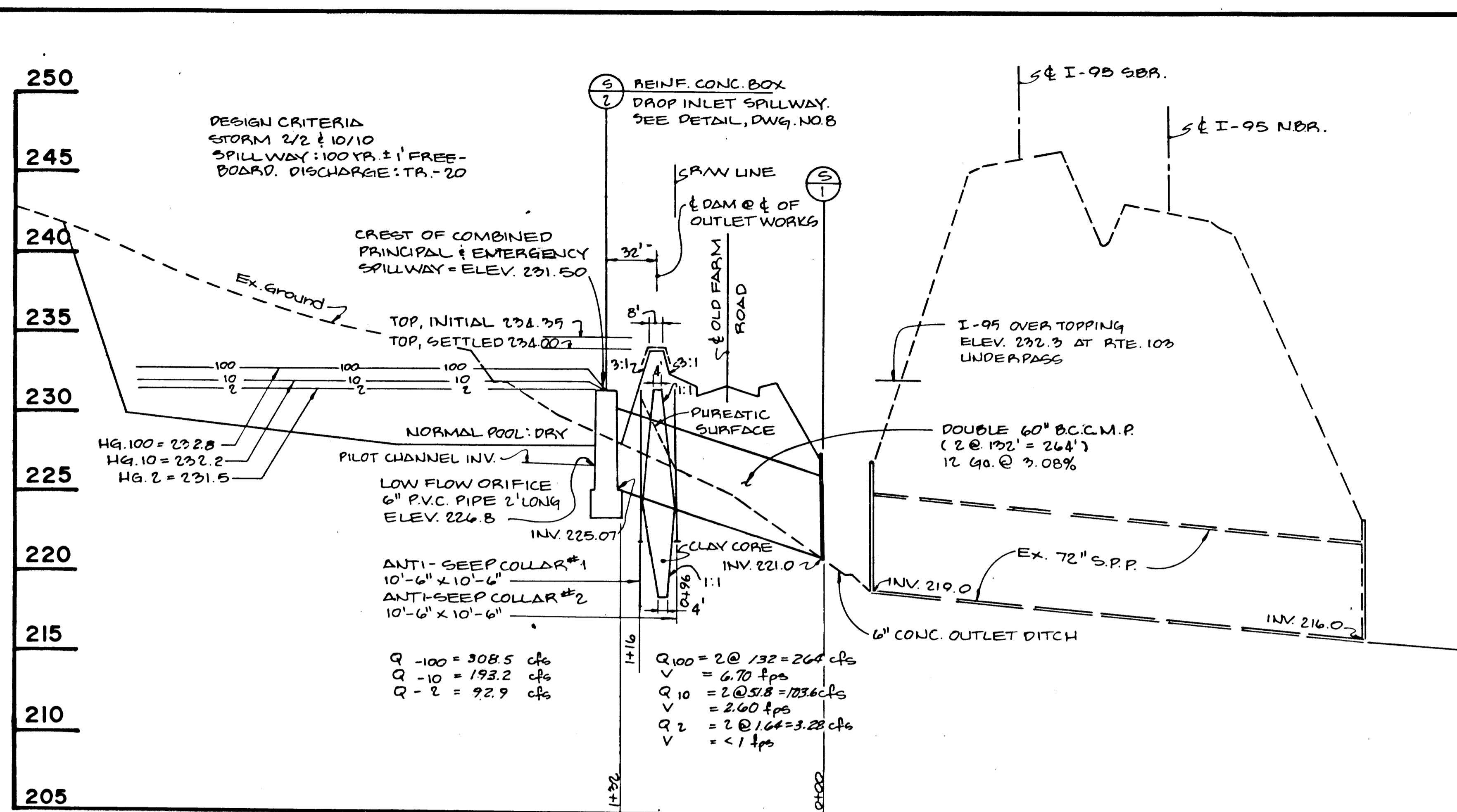
ENGINEER'S CERTIFICATE

I certify that this plan for erosion and sediment control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Board of Soil Conservation District.

Richard H. Cassell  
RICHARD H. CASSELL  
11/6/84  
Date



APPROVED: Department of Public Works		Scale
Chief, Bureau of Engineering		Date
APPROVED: Howard County Office of Planning & Zoning		5-21-85
John W. Muschman		Date
OWNER/DEVELOPER:	ACQUEST NATIONAL CORPORATION OF NORTH AMERICA 7239 Washington Boulevard Baltimore, Maryland 21227	SCALE AS NOTED DRWG. NO. 6 of 11
DESIGNED:	G.E.M.	DATE
CHECKED:	RHC	DATE



DESIGN CRITERIA  
STORM 2/2 @ 10/10  
SPILLWAY: 100 YR. ± FREE-BOARD. DISCHARGE: TA-20

CREST OF COMBINED PRINCIPAL & EMERGENCY SPILLWAY = ELEV. 231.50

TOP, INITIAL 231.39  
TOP, SETTLED 231.00

NORMAL POOL: DRY  
PILOT CHANNEL INV. ELEV. 226.8

LOW FLOW ORIFICE  
6\"/>

ANTI-SEEP COLLAR #1  
10\"/>

ANTI-SEEP COLLAR #2  
10\"/>

Q<sub>100</sub> = 308.5 cfs  
Q<sub>10</sub> = 193.2 cfs  
Q<sub>2</sub> = 92.9 cfs

Q<sub>100</sub> = 2 @ 132 = 264 cfs  
V = 6.70 fps  
Q<sub>10</sub> = 2 @ 51.8 = 103.6 cfs  
V = 2.60 fps  
Q<sub>2</sub> = 2 @ 16.4 = 32.8 cfs  
V = < 1 fps

PROFILE A-A  
STORM WATER MANAGEMENT POND

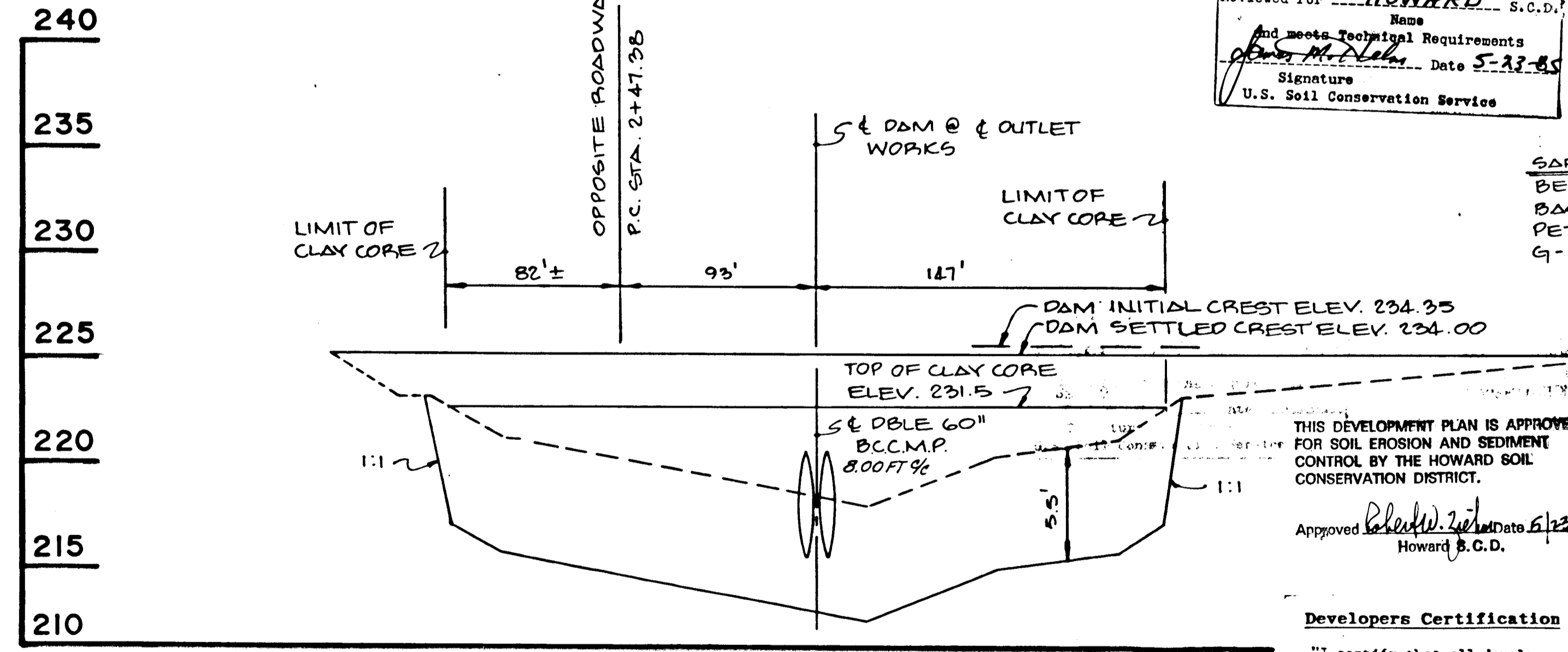
SCALE: H 1" = 50'  
V 1" = 5'

NOTE:  
FOR DETAIL OF LOW FLOW ORIFICE, SEE DETAIL ON DWG. NO. 10 OF 11

CUTOFF TRENCH (CLAY CORE) TO BE APPROVED SOILS TYPE CL, SC, GC, CH UNDER THE UNIFIED SOILS CLASSIFICATION SYSTEM.

Reviewed for HOWARD S.C.D.  
Name  
and meets Technical Requirements  
Signature [Signature] Date 5-27-85  
U.S. Soil Conservation Service

SAFETY: A CHAIN LINK FENCE WILL BE PLACED AROUND THE SEDIMENT BASIN TO KEEP CHILDREN AND PETS OUT. SEE HO. CO. STD'S. G-8.01, G-8.02, & G-8.03



ELEVATION VIEW  
STORM WATER MANAGEMENT POND

SCALE: H 1" = 50'  
V 1" = 5'

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

James P. Beahn 11-06-84  
Date

Developers Certification  
"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 Department of Natural Resources Approved Training Program for the Control of Sediment and Erosion before beginning the project. I will provide the Howard Soil Conservation District with an "as-built" plan of the pond within 30 days of completion."

William A. Green Date 9-20-84  
Acquest National Corporation of North America  
7239 Washington Blvd.  
Baltimore, Maryland 21227  
(301) 796-2388  
William A. Green,  
Chief Executive Officer

STATE OF MARYLAND  
PROFESSIONAL ENGINEER  
#9954 11-06-84

SOIL CONSERVATION SERVICE  
MARYLAND  
CONSTRUCTION SPECIFICATIONS  
702  
PONDS

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

I. SITE PREPARATION

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

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

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

II. EARTH FILL

Material

The fill material shall be taken from approved designated borrow areas or areas. It shall be free of roots, stumps, wood, rubbish, oversize stones, frozen or other objectionable materials. The embankment shall be constructed to an elevation which provides for anticipated settlement to the design elevation. The fill height all along the length of the embankment shall be increased above the design elevation (including freeboard) as shown on the plans.

Placement

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

Compaction

The movement of the hauling and spreading equipment over the fill shall be controlled so that the entire surface of each lift shall be traversed by not less than one tread track of the equipment or compaction shall be achieved by a minimum of four complete passes of a sheepfoot, rubber tired or vibratory roller. Fill material shall contain sufficient moisture such that the required degree of compaction can be obtained with the equipment used.

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

Cutoff Trench (CLAY CORE)

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

III. STRUCTURAL BACKFILL

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

IV. PIPE CONDUITS

All pipes shall be circular in cross section.

A. Corrugated Metal Pipe

- Materials - (Steel Pipe) - This pipe and its appurtenances shall be galvanized and fully bituminous coated and shall conform to the requirements of AASHTO Specification M-190 Type A with watertight coupling bands. Any bituminous coating damaged or otherwise removed shall be replaced with cold applied bituminous coating compound.
- Connections - All connections with pipes must be completely watertight. The drain pipe or barrel connection to the riser shall be welded all around when the pipe and riser are metal. Watertight coupling bands or flanges shall be used at all joints. Anti-seep collars shall be connected to the pipe in such a manner as to the completely watertight. Dimple bands are not considered to be watertight.
- 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.
- Laying pipe - The pipe shall be placed with inside circumferential laps pointing downstream and with the longitudinal laps at the sides.
- Backfilling shall conform to structural backfill as shown above.
- Other details (anti-seep collars, valves, etc.) shall be as shown on the drawings.

V. CONCRETE

1. Materials

- Cement - Normal Portland cement shall conform to the latest ASTM Specification C-150.
- Water - The water used in concrete shall be clean, free from oil, acid, alkali, scales, organic matter or other objectionable substances.
- Sand - The sand used in concrete shall be clean, hard, strong and durable, and shall be well graded with 100 percent passing a one-quarter inch sieve. Limestone sand shall not be used.
- Coarse Aggregate - The coarse aggregate shall be clean, hard, strong and durable, and free from clay or dirt. It shall be well graded with a maximum size of one and one-half (1-1/2) inches.
- Reinforcing Steel - The reinforcing steel shall be deformed bars of intermediate grade billet steel or rail steel conforming to ASTM Specification A-615.

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

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

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

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

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

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

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

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

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

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

VI. STABILIZATION

All borrow areas shall be graded to provide proper drainage and left in a slightly condition. All exposed surfaces of the embankment, spillway, spoil and borrow areas, and berms shall be stabilized by seeding, liming, fertilizing and mulching (if required) in accordance with the vegetative treatment specifications or as shown on the accompanying drawings.

VII. EROSION AND SEDIMENT CONTROL

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

Engineers Certification

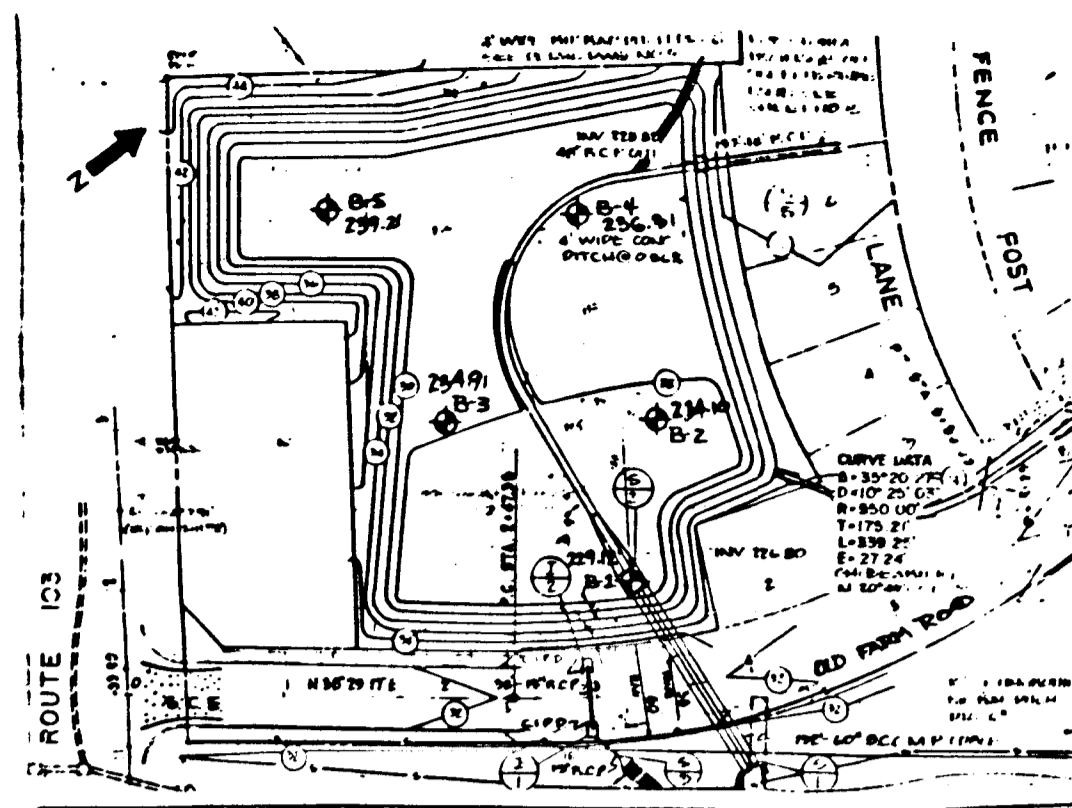
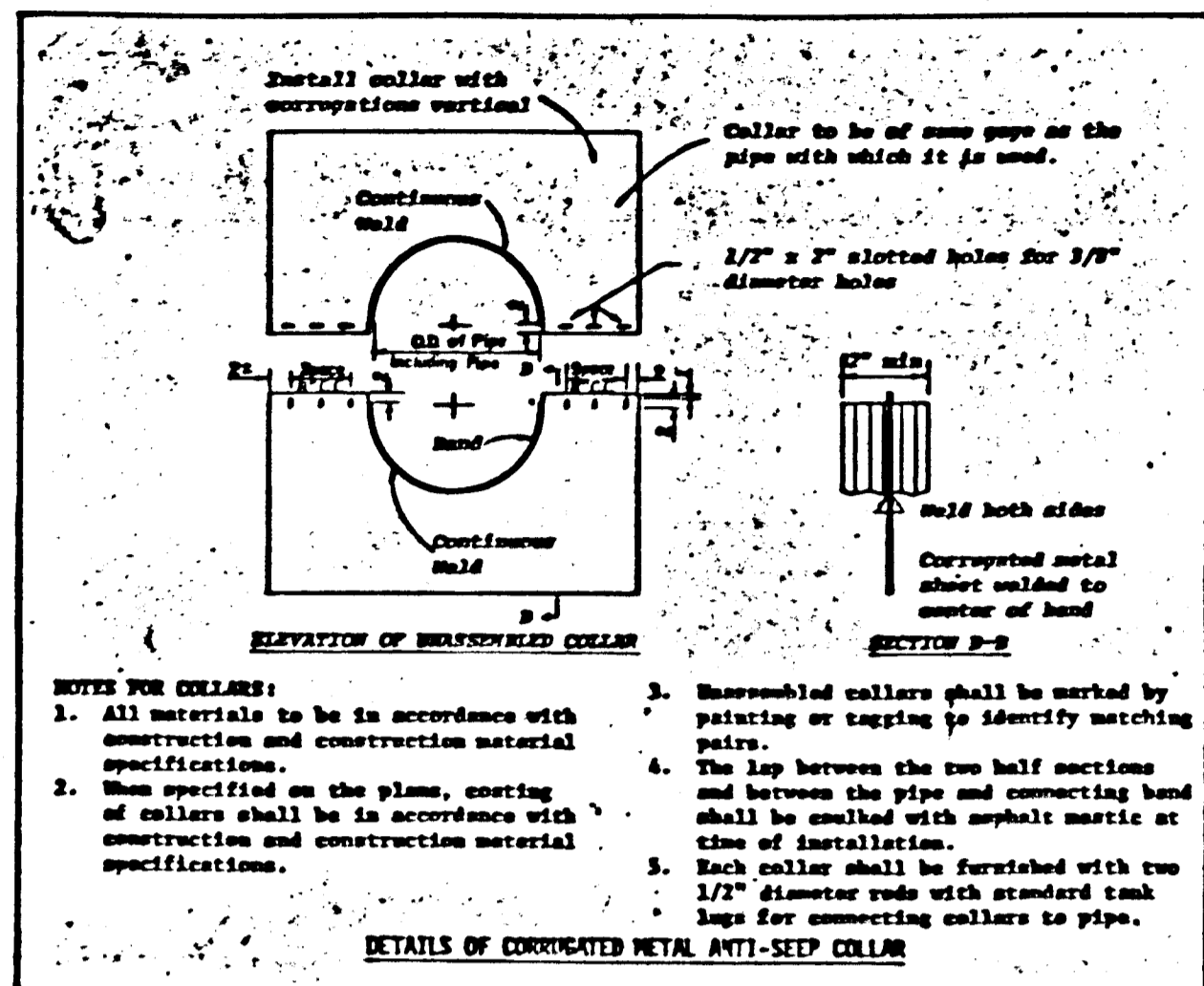
I hereby certify that this plan has been prepared in accordance with the "1983 Maryland Standards and Specifications for Soil Erosion and Sediment Control", and the Howard County Department of Public Works Storm Water Management Ordinance, Bill 28, Section 18.904, as amended.

James P. Beahn Date 11-06-84  
Professional Engineer No. #9954  
OWNER/DEVELOPER:

ACQUEST NATIONAL CORPORATION  
OF NORTH AMERICA  
7239 Washington Boulevard  
Baltimore, Maryland 21227

CASSILL ENGINEERING, INC. PLANNERS AND SURVEYORS. KENNEDY, PORTER & ASSOC. INC. CONSULTING ENGINEERS	APPROVED: _____ DATE _____	DEPARTMENT OF PUBLIC WORKS HOWARD CO., MARYLAND CHIEF BUREAU OF ENGINEERING	APPROVED: _____ DATE _____	OFFICE OF PLANNING AND ZONING HOWARD CO., MARYLAND CHIEF DIV. OF LAND DEVELOPMENT AND ZONING ADMINISTRATION	STORMWATER MANAGEMENT POND FOR ENVIRONMENTAL PROTECTION NOTES AND DETAILS	GREEN MEADOW FARMS SECTION I ROAD AND DRAINAGE PLANS 1ST ELECTION DISTRICT-ELKRIDGE TAX MAP NO.37	DRAWING NO. 7 OF 11	SCALE 1" = 50' H 1" = 5' V	DES: DRWN: <u>aw</u> CH'D
	DATE _____								

F-85-50



**ATEC Associates, Inc.**  
RECORD OF SOIL EXPLORATION

Contractor: Caspell Engineering, Inc.  
Project: Storm Water Management Pond  
Location: 7239 Washington Blvd., Baltimore, MD

BORING NO.	DEPTH (ft.)	SOIL DESCRIPTION	WATER TABLE (ft.)	REMARKS
1	0-1	Gray with tan inclusions, moist to wet, soft to very soft, SILTY CLAY (CL - CH) with inclusions of sand and gravel, little mica and organic	2.0	Estimated from site plan and profile
2	1-13	Gray with tan inclusions, moist to wet, soft to very soft, SILTY CLAY (CL - CH) with inclusions of sand and gravel, little mica and organic	2.0	Estimated from site plan and profile
3	1-13	Gray with tan inclusions, moist to wet, soft to very soft, SILTY CLAY (CL - CH) with inclusions of sand and gravel, little mica and organic	2.0	Estimated from site plan and profile
4	1-13	Gray with tan inclusions, moist to wet, soft to very soft, SILTY CLAY (CL - CH) with inclusions of sand and gravel, little mica and organic	2.0	Estimated from site plan and profile
5	1-13	Gray with tan inclusions, moist to wet, soft to very soft, SILTY CLAY (CL - CH) with inclusions of sand and gravel, little mica and organic	2.0	Estimated from site plan and profile
6	1-13	Gray with tan inclusions, moist to wet, soft to very soft, SILTY CLAY (CL - CH) with inclusions of sand and gravel, little mica and organic	2.0	Estimated from site plan and profile
7	1-13	Gray with tan inclusions, moist to wet, soft to very soft, SILTY CLAY (CL - CH) with inclusions of sand and gravel, little mica and organic	2.0	Estimated from site plan and profile
8	1-13	Gray with tan inclusions, moist to wet, soft to very soft, SILTY CLAY (CL - CH) with inclusions of sand and gravel, little mica and organic	2.0	Estimated from site plan and profile
9	1-13	Gray with tan inclusions, moist to wet, soft to very soft, SILTY CLAY (CL - CH) with inclusions of sand and gravel, little mica and organic	2.0	Estimated from site plan and profile
10	1-13	Gray with tan inclusions, moist to wet, soft to very soft, SILTY CLAY (CL - CH) with inclusions of sand and gravel, little mica and organic	2.0	Estimated from site plan and profile

**ATEC Associates, Inc.**  
RECORD OF SOIL EXPLORATION

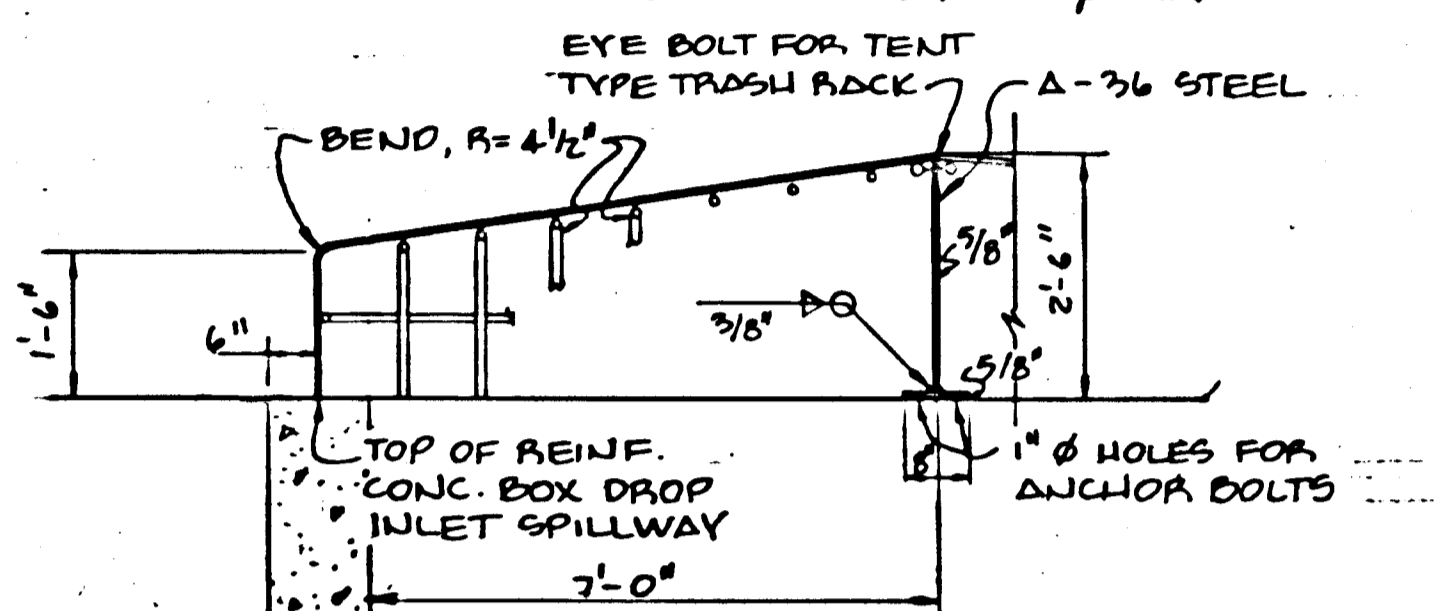
Contractor: Caspell Engineering, Inc.  
Project: Storm Water Management Pond  
Location: 7239 Washington Blvd., Baltimore, MD

BORING NO.	DEPTH (ft.)	SOIL DESCRIPTION	WATER TABLE (ft.)	REMARKS
11	1-13	Gray with tan inclusions, moist to wet, soft to very soft, SILTY CLAY (CL - CH) with inclusions of sand and gravel, little mica and organic	2.0	Estimated from site plan and profile
12	1-13	Gray with tan inclusions, moist to wet, soft to very soft, SILTY CLAY (CL - CH) with inclusions of sand and gravel, little mica and organic	2.0	Estimated from site plan and profile
13	1-13	Gray with tan inclusions, moist to wet, soft to very soft, SILTY CLAY (CL - CH) with inclusions of sand and gravel, little mica and organic	2.0	Estimated from site plan and profile
14	1-13	Gray with tan inclusions, moist to wet, soft to very soft, SILTY CLAY (CL - CH) with inclusions of sand and gravel, little mica and organic	2.0	Estimated from site plan and profile
15	1-13	Gray with tan inclusions, moist to wet, soft to very soft, SILTY CLAY (CL - CH) with inclusions of sand and gravel, little mica and organic	2.0	Estimated from site plan and profile
16	1-13	Gray with tan inclusions, moist to wet, soft to very soft, SILTY CLAY (CL - CH) with inclusions of sand and gravel, little mica and organic	2.0	Estimated from site plan and profile
17	1-13	Gray with tan inclusions, moist to wet, soft to very soft, SILTY CLAY (CL - CH) with inclusions of sand and gravel, little mica and organic	2.0	Estimated from site plan and profile
18	1-13	Gray with tan inclusions, moist to wet, soft to very soft, SILTY CLAY (CL - CH) with inclusions of sand and gravel, little mica and organic	2.0	Estimated from site plan and profile
19	1-13	Gray with tan inclusions, moist to wet, soft to very soft, SILTY CLAY (CL - CH) with inclusions of sand and gravel, little mica and organic	2.0	Estimated from site plan and profile
20	1-13	Gray with tan inclusions, moist to wet, soft to very soft, SILTY CLAY (CL - CH) with inclusions of sand and gravel, little mica and organic	2.0	Estimated from site plan and profile

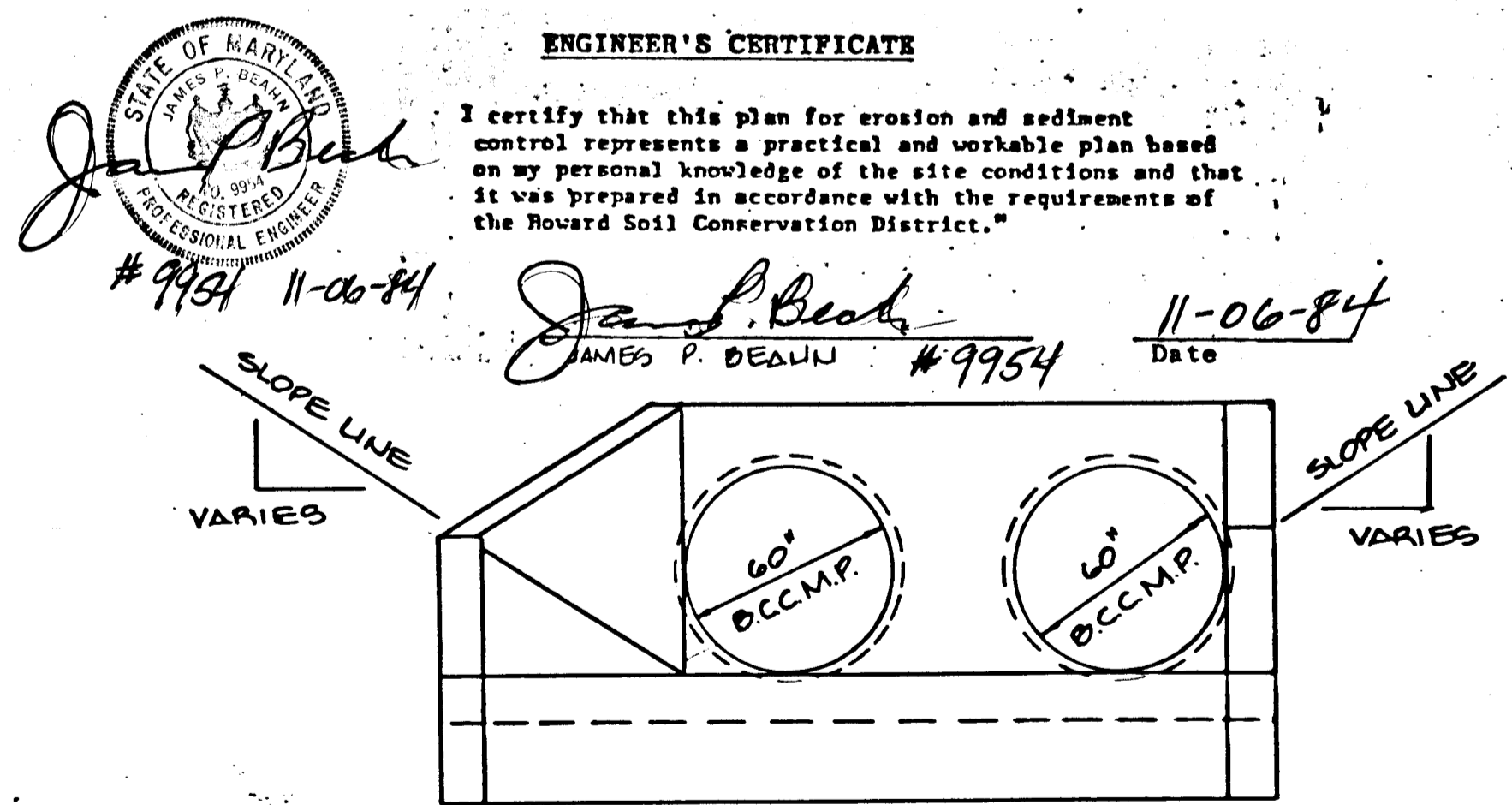
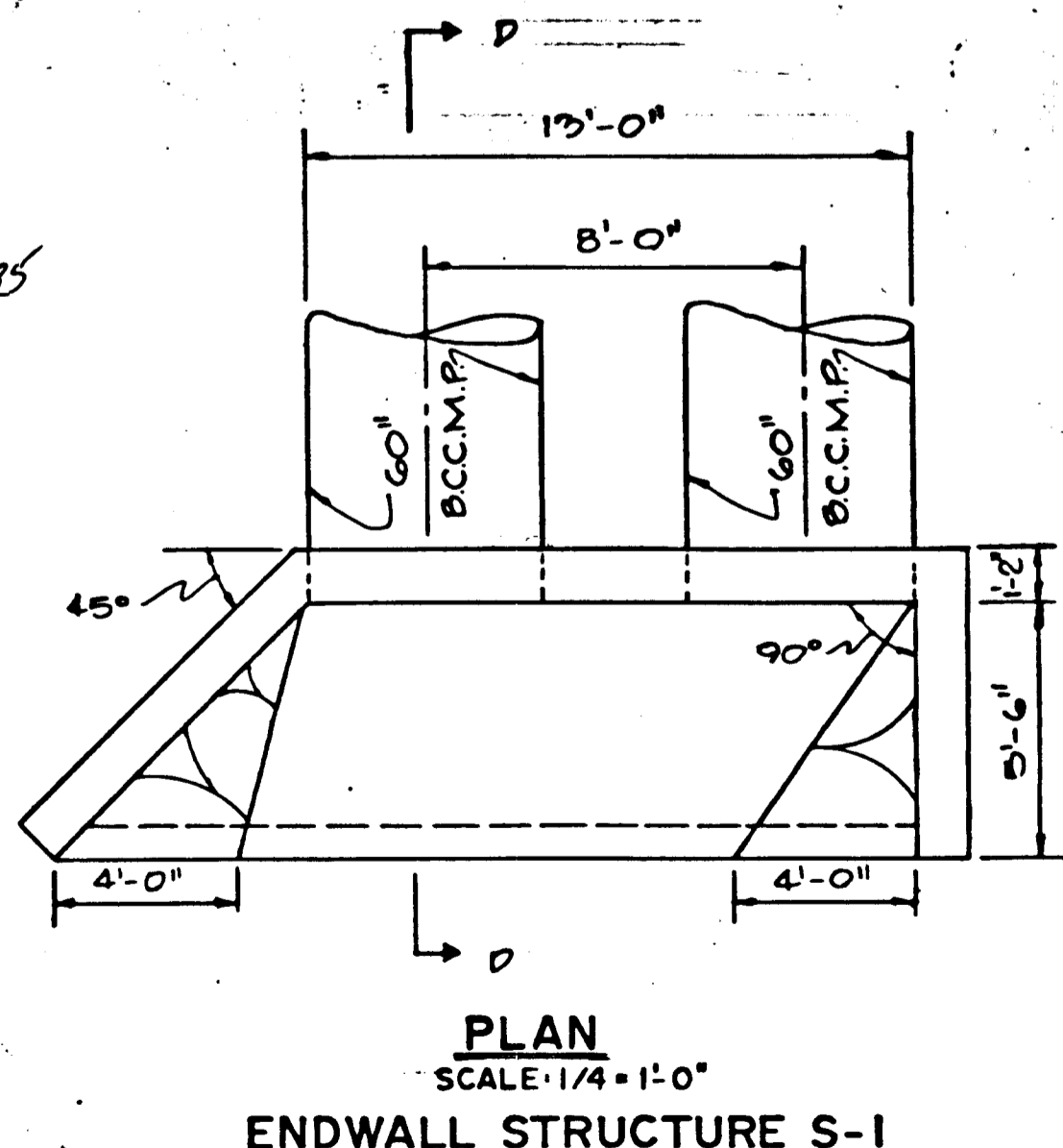
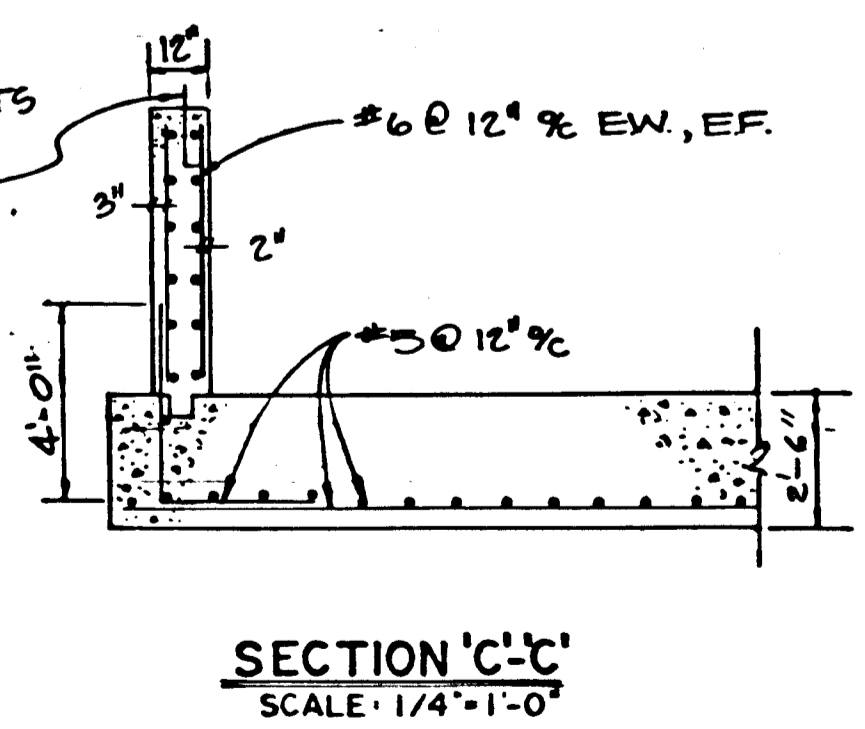
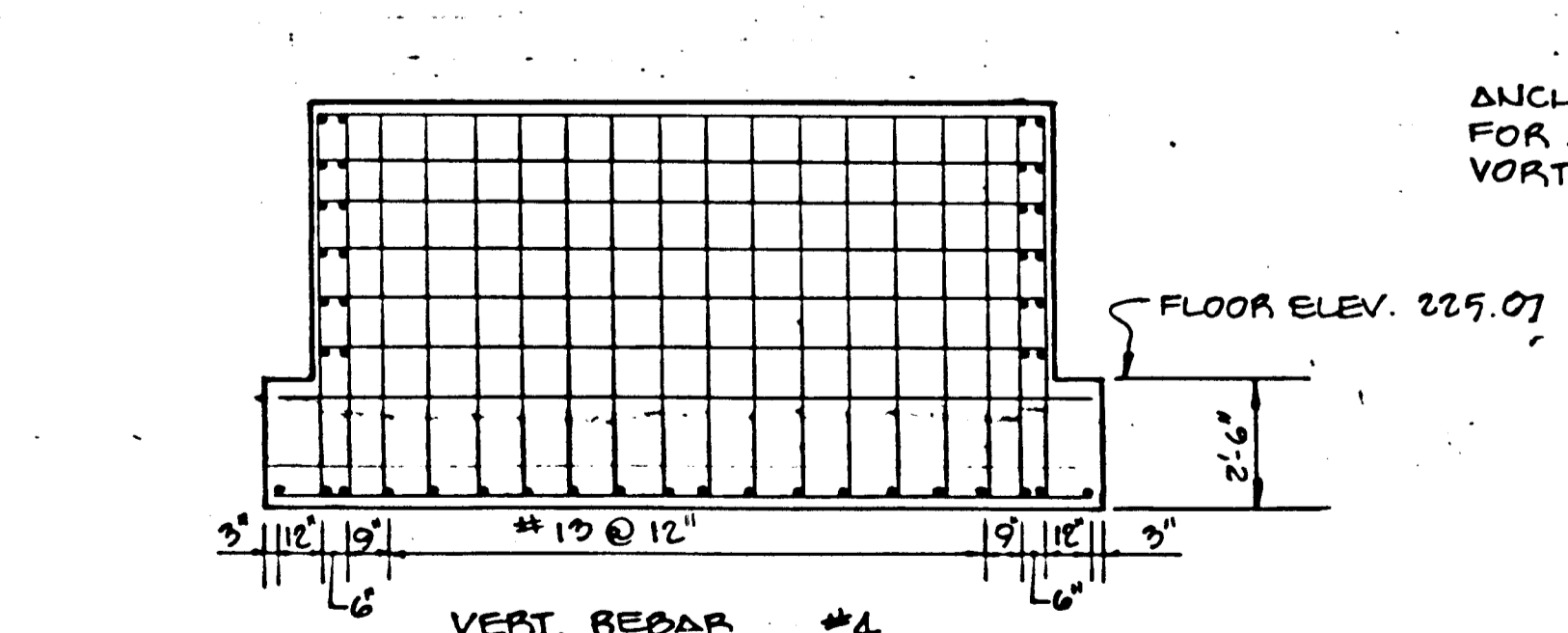
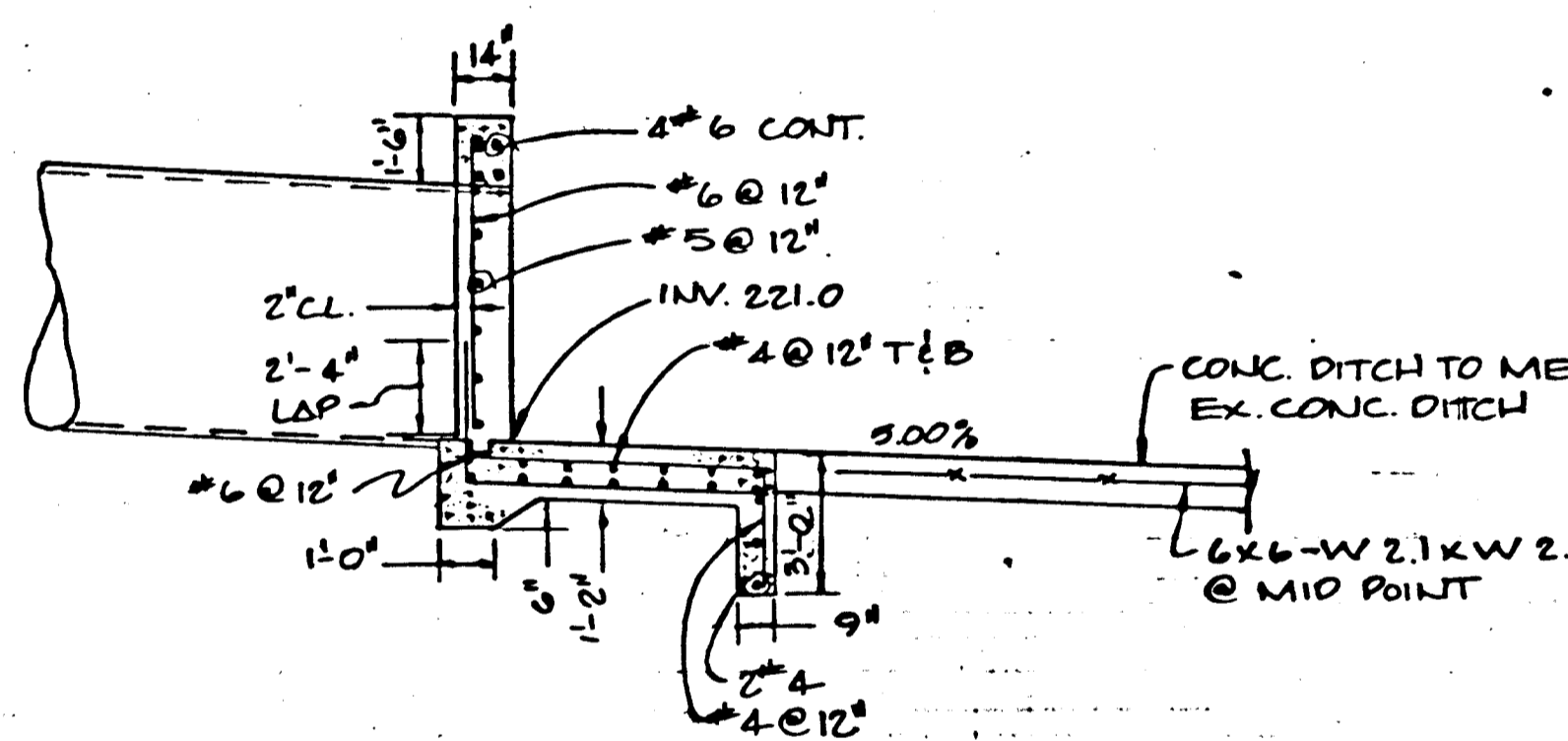
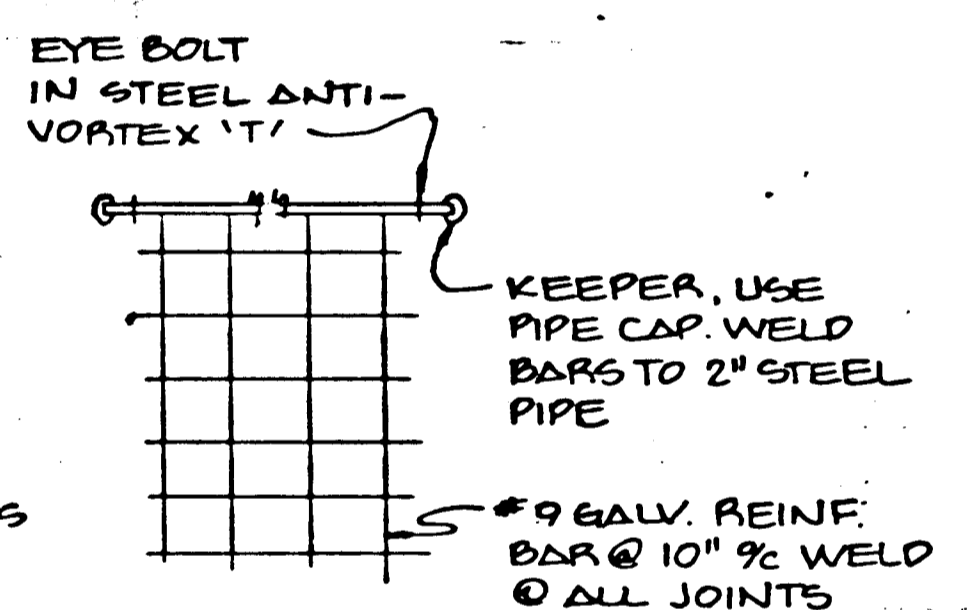
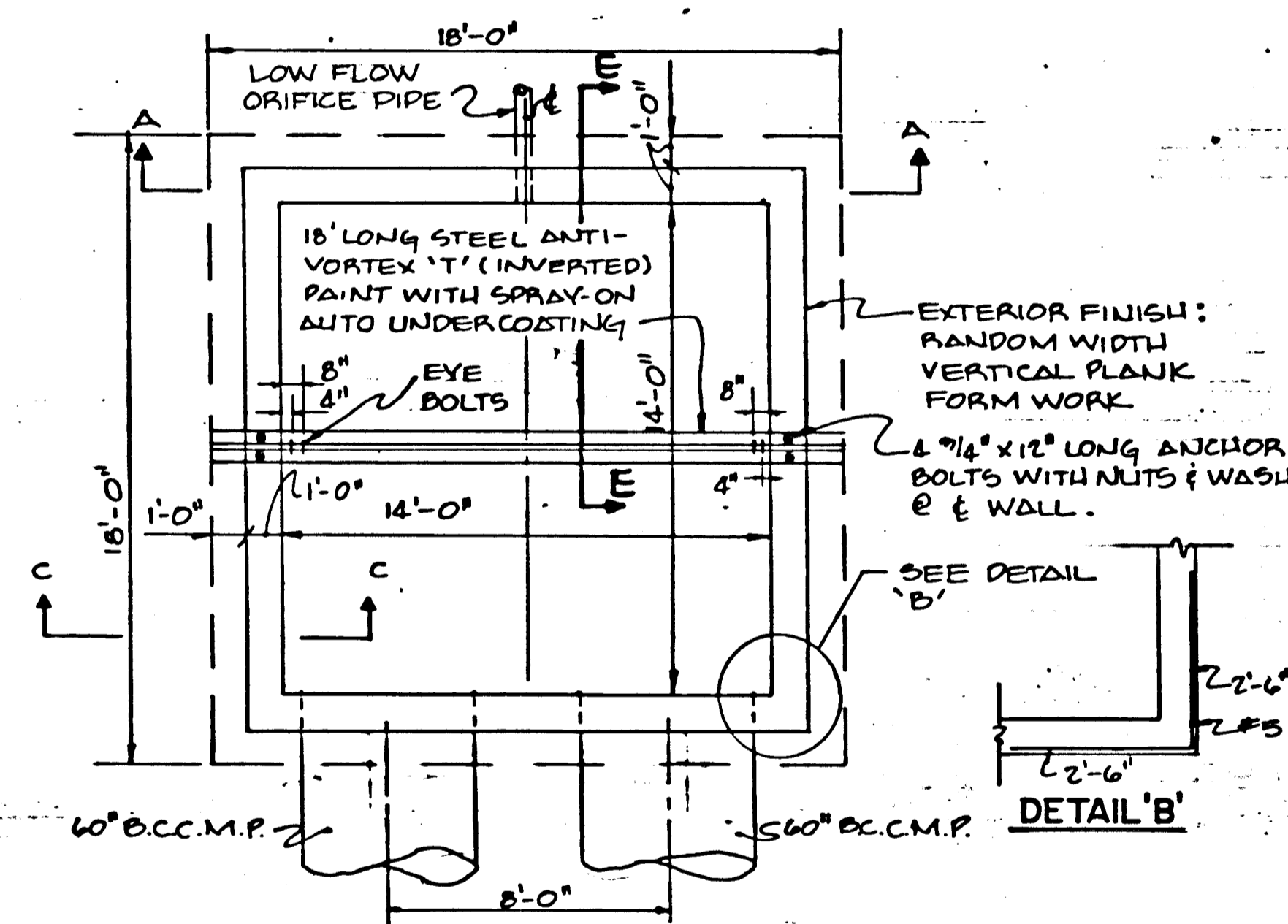
**ATEC Associates, Inc.**  
RECORD OF SOIL EXPLORATION

Contractor: Caspell Engineering, Inc.  
Project: Storm Water Management Pond  
Location: 7239 Washington Blvd., Baltimore, MD

BORING NO.	DEPTH (ft.)	SOIL DESCRIPTION	WATER TABLE (ft.)	REMARKS
21	1-13	Gray with tan inclusions, moist to wet, soft to very soft, SILTY CLAY (CL - CH) with inclusions of sand and gravel, little mica and organic	2.0	Estimated from site plan and profile
22	1-13	Gray with tan inclusions, moist to wet, soft to very soft, SILTY CLAY (CL - CH) with inclusions of sand and gravel, little mica and organic	2.0	Estimated from site plan and profile
23	1-13	Gray with tan inclusions, moist to wet, soft to very soft, SILTY CLAY (CL - CH) with inclusions of sand and gravel, little mica and organic	2.0	Estimated from site plan and profile
24	1-13	Gray with tan inclusions, moist to wet, soft to very soft, SILTY CLAY (CL - CH) with inclusions of sand and gravel, little mica and organic	2.0	Estimated from site plan and profile
25	1-13	Gray with tan inclusions, moist to wet, soft to very soft, SILTY CLAY (CL - CH) with inclusions of sand and gravel, little mica and organic	2.0	Estimated from site plan and profile
26	1-13	Gray with tan inclusions, moist to wet, soft to very soft, SILTY CLAY (CL - CH) with inclusions of sand and gravel, little mica and organic	2.0	Estimated from site plan and profile
27	1-13	Gray with tan inclusions, moist to wet, soft to very soft, SILTY CLAY (CL - CH) with inclusions of sand and gravel, little mica and organic	2.0	Estimated from site plan and profile
28	1-13	Gray with tan inclusions, moist to wet, soft to very soft, SILTY CLAY (CL - CH) with inclusions of sand and gravel, little mica and organic	2.0	Estimated from site plan and profile
29	1-13	Gray with tan inclusions, moist to wet, soft to very soft, SILTY CLAY (CL - CH) with inclusions of sand and gravel, little mica and organic	2.0	Estimated from site plan and profile
30	1-13	Gray with tan inclusions, moist to wet, soft to very soft, SILTY CLAY (CL - CH) with inclusions of sand and gravel, little mica and organic	2.0	Estimated from site plan and profile



NOTE: FOR DETAIL OF LOW FLOW ORIFICE, SEE DETAIL ON DWG. 10 OF 11.



**ENGINEER'S CERTIFICATE**

I certify that this plan for erosion and sediment control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District.

James P. Deauln, #9954, 11-06-84

**STORM WATER MANAGEMENT POND COMBINED PRINCIPAL AND EMERGENCY SPILLWAY STRUCTURE S-2**

CASSELL ENGINEERING, INC.  
PLANNERS AND SURVEYORS.  
KENNEDY, PORTER & ASSOC. INC.  
CONSULTING ENGINEERS

APPROVED: [Signature]  
DATE: 5-28-85

APPROVED: [Signature]  
DATE: 5-28-85

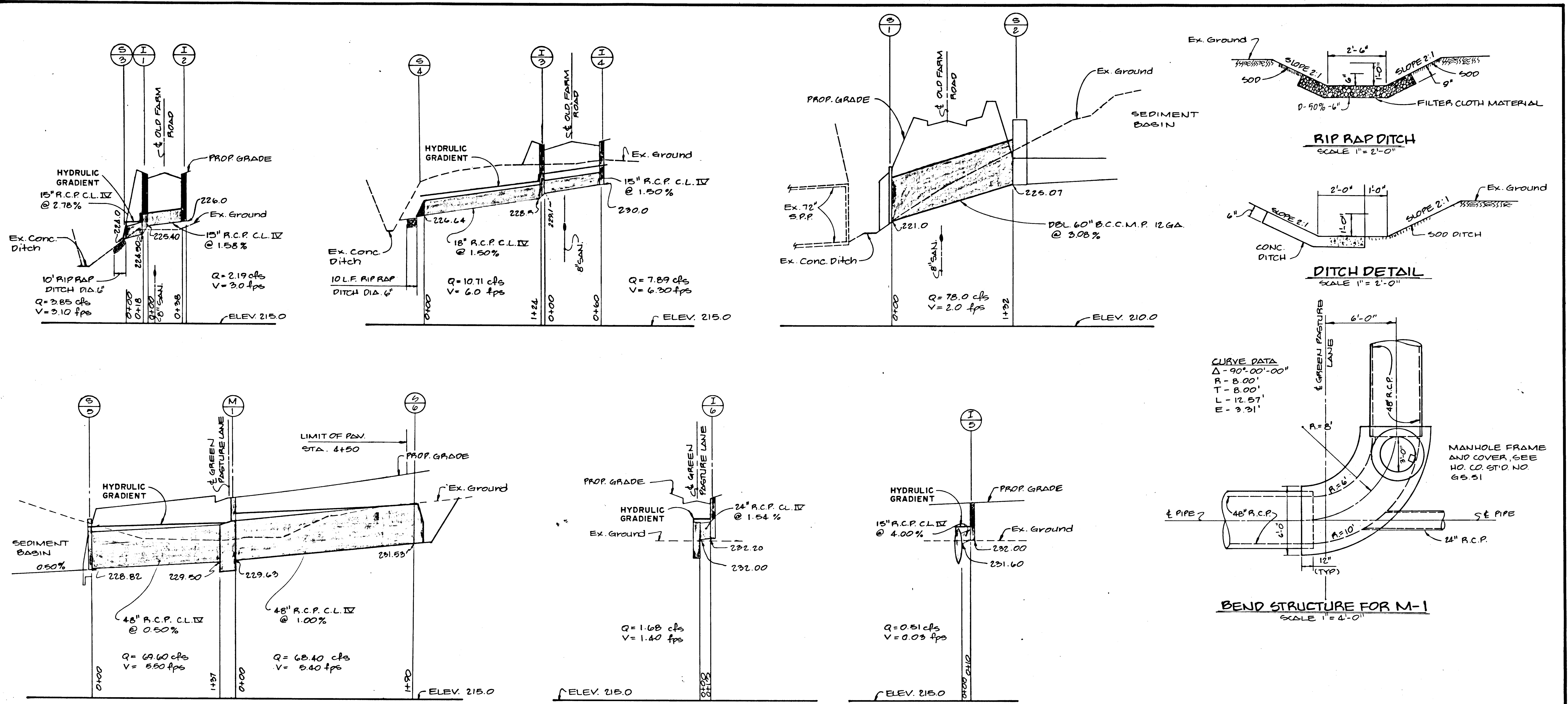
OFFICE OF PLANNING AND ZONING  
HOWARD CO. MARYLAND

**DETAILS OF STRUCTURES 1 & 2**

**GREEN MEADOW FARMS SECTION I ROAD AND DRAINAGE PLANS**  
1ST ELECTION DISTRICT - ELKBRIDGE TAX MAP NO. 37

DRAWING NO. 8 OF 11  
SCALE AS NOTED  
DES. DRWN: CM  
CH'D:





**STORM DRAIN PROFILES**  
SCALE: 1" = 50' HOR.  
1" = 5' VERT.

STRUCTURE SCHEDULE						PIPE SCHEDULE			
NO	TYPE	INVERT IN	INVERT OUT	TOP ELEVATION UPPER / LOWER	REMARKS	LOCATION	SIZE	TYPE	LENGTH
S-1	SPECIAL	221.00	221.00		SEE DETAIL ON SHEET NO. B	STA. 3+85 - 57' RT	15"	RCP CL IV	126 L.F.
S-2	SPECIAL	225.07	225.07		SEE DETAIL ON SHEET NO. B	STA. 3+33 - 70' LT	18"	RCP CL IV	124 L.F.
I-1	A-5 INLET	W=2'6"	225.40	230.19	230.19	HO. CO. STD. SD-4.01	STA. 2+97 - 19' LT		
I-2	A-5 INLET	W=2'6"	226.00	230.19	230.19	HO. CO. STD. SD-4.01	STA. 2+97 - 19' LT		
S-3	END SECTION	224.00	224.00		HO. CO. STD. SD-5.52 DIA 15"	STA. 3+13 40' RT	48"	RCP CL IV	227 L.F.
I-3	A-5 INLET	W=2'6"	229.10	228.50	234.06	234.00	HO. CO. STD. SD-4.01	STA. 6+47 - 19' RT	
I-4	A-10 INLET	W=2'6"	230.00	230.00	234.54	234.48	HO. CO. STD. SD-4.02	STA. 6+92 - 19' LT	
S-4	END SECTION	226.64	226.64		HO. CO. STD. SD-5.52 DIA 18"	STA. 5+55 - 19' RT			
I-5	A-5 INLET	W=2'6"	232.00	232.00	236.05	235.99	HO. CO. STD. SD-4.01	STA. 2+65 - 15' LT	
I-6	A-10 INLET	W=2'6"	232.20	232.20	235.94	235.88	HO. CO. STD. SD-4.02	STA. 2+55 - 15' RT	
M-1	MOD. BENT STRUCTURAL	229.63	229.50	236.36	HO. CO. STD. SD-1.01	STA. 2+55 - 6' ROAD			
S-5	TYPE 'G' ENDWALL	228.82	228.82		STD OF MD. STD. MD-360.01	STA. 2+55 - 15' LT			
S-6	END SECTION	231.21	231.21		HO. CO. STD. SD-5.52 DIA 48"	STA. 4+25 6' ROAD			

\* SEE DETAIL OF BENT STRUCTURE ON THIS SHEET

**ENGINEER'S CERTIFICATE**

I certify that this plan for erosion and sediment control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Board of Soil Conservation District.

*James P. Deauj*  
PROFESSIONAL ENGINEER  
#9954 11-06-84

*James P. Deauj*  
JAMES P. DEAUJ #9954  
11-06-84  
Date

ACQUEST NATIONAL CORPORATION  
OF NORTH AMERICA  
7239 Washington Boulevard  
Baltimore, Maryland 21227

CASSELL ENGINEERING, INC.  
PLANNERS AND SURVEYORS.  
KENNEDY, PORTER & ASSOC. INC.  
CONSULTING ENGINEERS

APPROVED: *James P. Deauj*  
DATE: 11-06-84  
CHIEF BUREAU OF ENGINEERING

APPROVED: *John W. Mueselmann*  
DATE: 11-06-84  
CHIEF DIV. OF LAND DEVELOPMENT AND ZONING ADMINISTRATION

**STORM DRAINAGE PROFILES & DETAILS**

**GREEN MEADOW FARMS SECTION I ROAD AND DRAINAGE PLANS**  
IST ELECTION DISTRICT - ELKBRIDGE TAX MAP NO. 37

DRAWING NO. 9 OF 11 SCALE AS NOTED DES. DRWN. CH'D

**SEDIMENT AND EROSION CONTROL GENERAL NOTES**

- All work must comply with "1983 Maryland Standards and Specifications for Soil Erosion and Sediment Control" distributed by the Howard County Soil Conservation District.
- The Contractor must filter run-off, and control sediment all within the site, and as noted, Control of Sediment will require the use of "located" type sediment control devices shown on the plan (e.g. Stabilized Construction Entrances, Stone Outlet Sediment Traps, etc.) as well as "unlocated" type devices (e.g. Temporary Seeding Areas, Temporary Stockpile Sediment Control, Borrow Pit Sediment Control, etc.) which may not be specifically located on the Plan. All controls must be provided as required to filter sediment and control erosion. No disturbed areas are allowed to drain directly off-site.
- Tentative Plan and Schedule shown below have been approved. Contractor has an option to submit this plan, or his own plan and/or schedule for use as Final Approved Plan.
- The developer is responsible for the acquisition of any easement, rights-of-way, etc. required for any construction operation.
- Inspection by Howard County Department of Public Works Inspections and Permits Department (HCIPD). Notify HCIPD Ellicott City, MD at least three (3) days prior to the start of work. (301) 992-2417.
- Before starting work give HCIPD Inspector a copy of Final Approved Plan and Schedule.
- Location adjustments shall be made as field conditions require. Provide temporary seeding and mulching immediately upon installation for all grading type sediment control measures (dikes, swales, berms, basins, etc.).
- The Contractor is responsible for assuring that all sediment control devices are functional on a day to day basis.
- As work progresses cut and fill slopes shall be harrowed, or tracked with a cleared bulldozer to create serrations, to minimize erosion.
- Temporary stockpiles must be surrounded by straw bales, except if stockpile is over 500 c.y. get separate plan approval from HCIPD.
- Get written approval from HCIPD of waste and borrow areas. Either use areas having current valid sediment control approvals, or submit separate sediment control plan and get approvals as required. Get approvals from HCIPD. Give copy of approval to HCIPD Inspector.
- FOLLOWING INITIAL SOILS DISTURBANCE OR REDISTURBANCE, PERMANENT OF TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN:
  - 7 CALENDAR DAYS AS TO THE SURFACE OF ALL PERIMETER CONTROL DIKES, SWALES, DITCHES, PERIMETER SLOPES AND ALL SLOPES GREATER THAN 3:1.
  - 14 DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE THEN FOLLOWED BY PERMANENT SEEDING AND MULCHING AT CONTRACTOR'S OPTION, MULCH STABILIZATION MAY BE OMITTED IF TOPSOIL AND PERMANENT SEEDING AND MULCHING IS SUBSTITUTED, OR TEMPORARY SEEDING AND MULCHING FOLLOWED BY LATER PERMANENT SEEDING IS SUBSTITUTED.
- Complete final surfaces (pavements, lawns, turf, etc.). Get HCIPD Inspectors approval of grass growth. After approval of Inspector, remove temporary Sediment Control measures.
- Topsoil, permanent seeding and mulching: Place when ground is thawed and air temperature exceeds 32°F.
  - Place topsoil, disc, rake and fine grade,
  - place lime, fertilizer and MSHA Seed Mix No. 1 at 110 to 130 lbs. per acre.
  - Place mulch at 2 tons per acre and secure with asphaltic tack or 2 1/2 tons per acre and secure with mulch anchoring tool.
- Temporary seeding and mulching: Place when ground is thawed.
  - Disc soil to 3 inch depth, and fine grade.
  - Place fertilizer and MSHA temporary seeding. Mix No. 1 130+ lbs. per acre,
  - place mulch at 2 tons per acre and secure by peg and string or asphalt tack, or 2 1/2 tons per acre and secure with mulch anchoring tool.
  - Replace with topsoil, permanent seed and mulch; (14 above).
- Mulch Stabilization: Place at any time.
  - Place mulch at 2 tons per acre, secure by peg string or by asphalt tack or at 2 1/2 tons per acre and secure with mulch anchor tool.
  - Replace with topsoil, permanent seed and mulch (14 above).
- Tentative Schedule:
  - Obtain permits, meet HCIPD Inspector on site and give Inspector final approved Plan and Schedule 3 days.
  - Clear and grub for installation of Sediment Control and install all controls according to plan. 6 days
  - Install riser and barrel of Sediment Basin: Excavate lower half of sediment basin and bring Old Farm Road to subgrade from Sta. 0+00 to Sta. 6+00. Construct temporary swale across Old Farm Road at Sta. 0+00 to Sta. 3+00. approx. 5 weeks
  - Block low orifice so as not to allow sediment runoff into system. Excavate remainder of sediment basin and stabilize tall slopes with inspector's approval. 4 weeks
  - Construct pipe system and outfall ditches for the following: (Block all inlets after completion)
    - 1-2 to S-3 2 weeks
    - 1-4 to S-4 2 weeks
  - Build temporary ditch along east side of Old Post Lane and divert water into sediment basin for a temporary time 3 days.

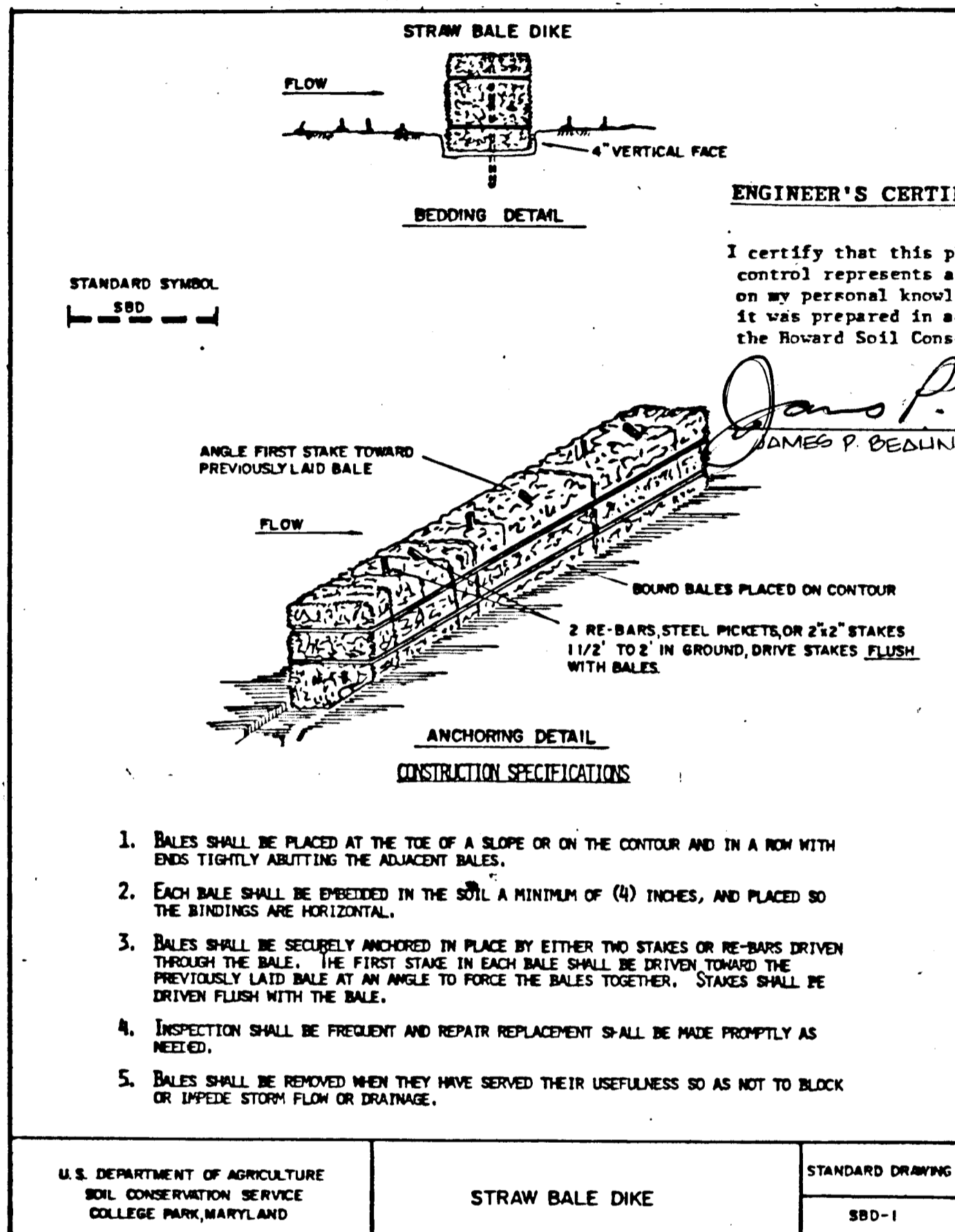
- Construct pipe system S-6 to S-5 (including I-5 and I-6) 1 week.
- Divert ditch along east side of Old Post Lane into Structure S-6. Grade Old Post Lane to sub-grade 2 weeks.
- Place silt fence along Meadow Ridge Road (MD Rte 103). Rough grade and then fine grade Meadow Ridge Road. Place curb and gutter and pave Meadow Ridge Road. Stabilize all slopes and remove silt fence with approval of HCIPD Inspector. 6 weeks.
- Install water and sewer lines and all appurtenances. Install curb & gutter and place sub-grade material on roadways. 8 weeks.
- Pave roadways removing sediment control with approval of HCIPD Inspector. 2 weeks.
- Complete all remaining stabilizing work and clean up area 1 week.

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

*James P. Beal*  
Professional Engineer No. #9954  
Date 11-06-84

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

*Robert J. Zehn*  
Howard Soil Conservation District  
Date 11-22-84

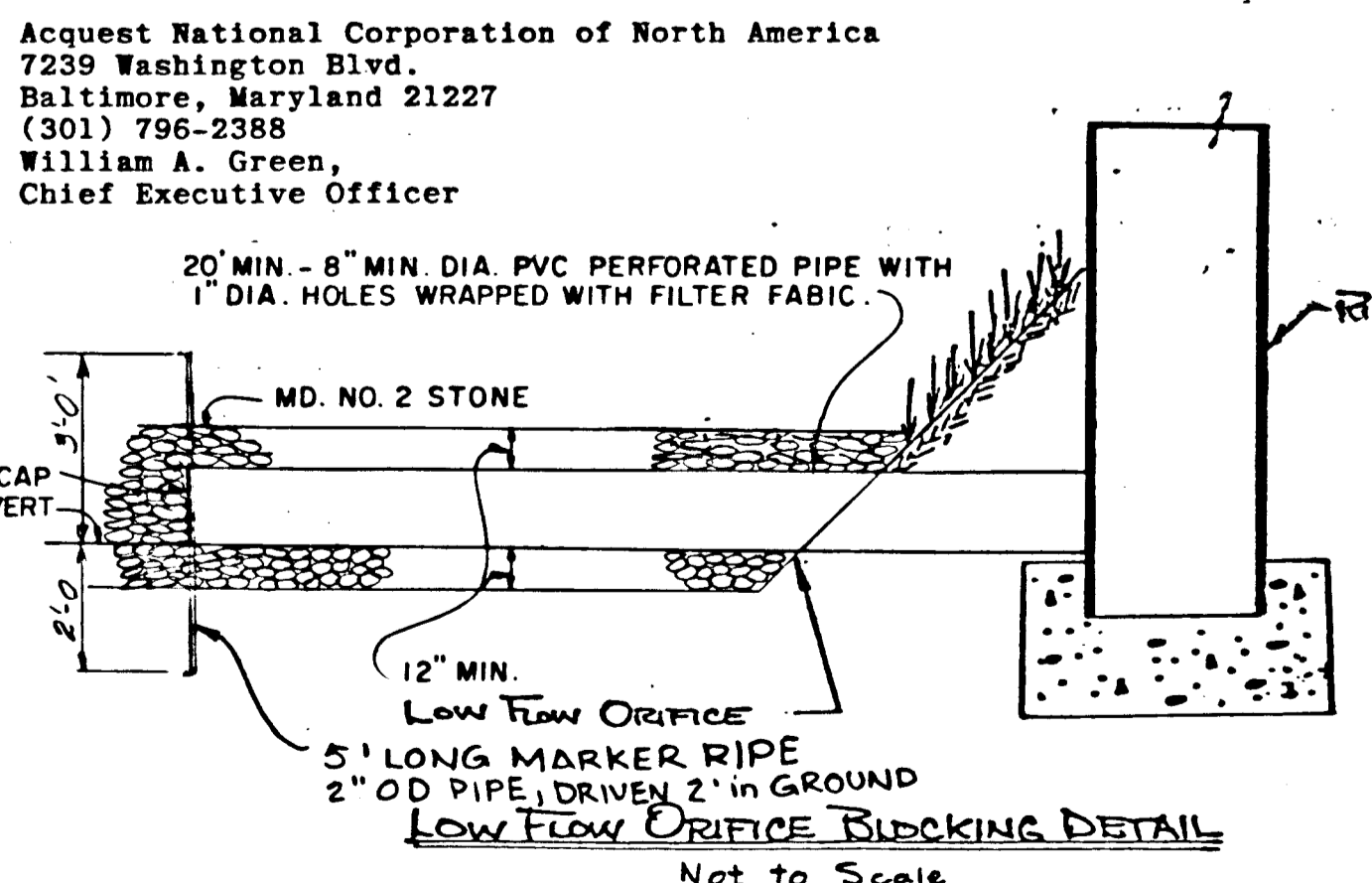


**Developers Certification**

"I/We certify that all development and construction will be done according to this plan, and that any responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of Natural Resources Approved Training Program for the Control of Sediment and Erosion before beginning the project."

*William A. Green*  
Date 9/20/84

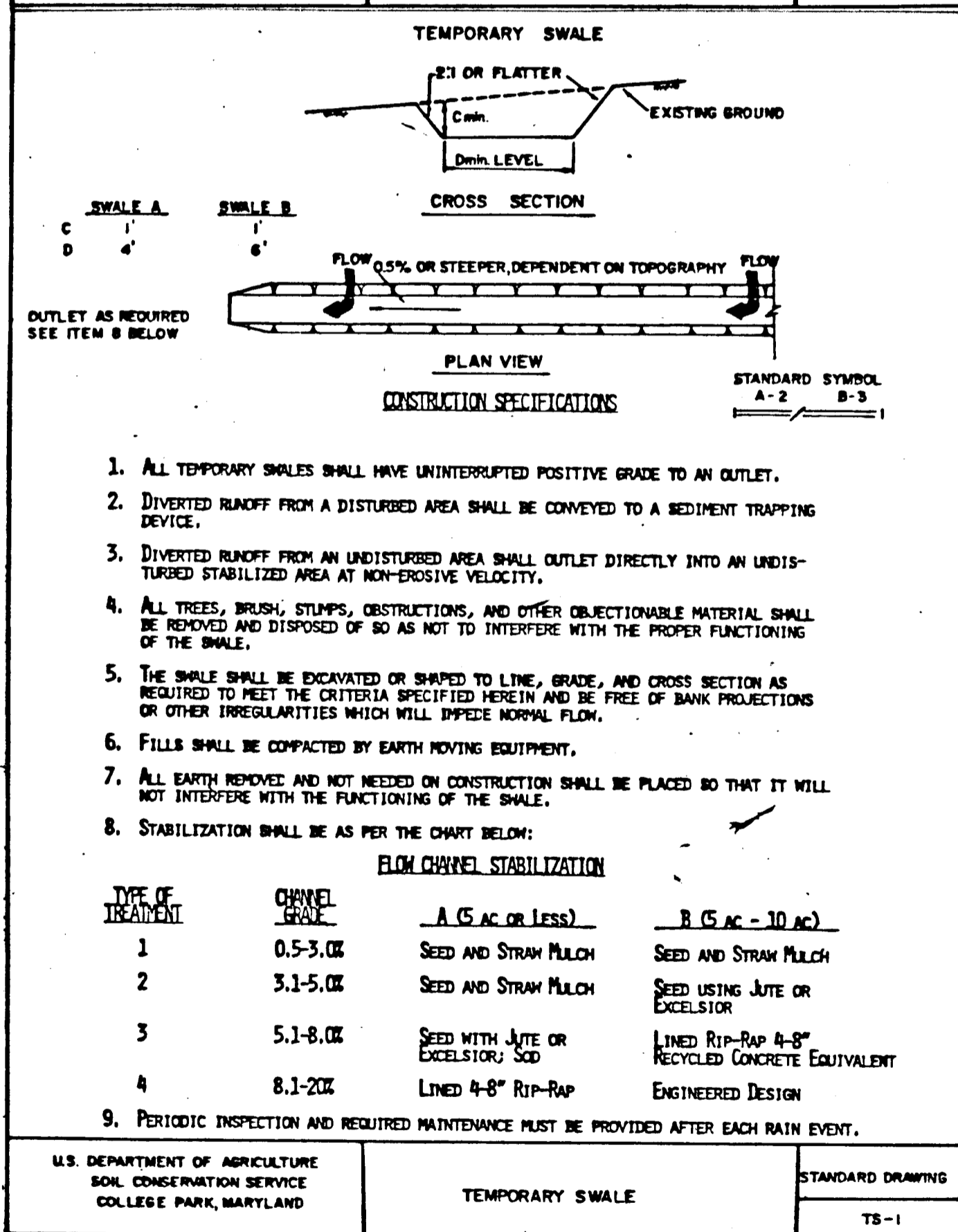
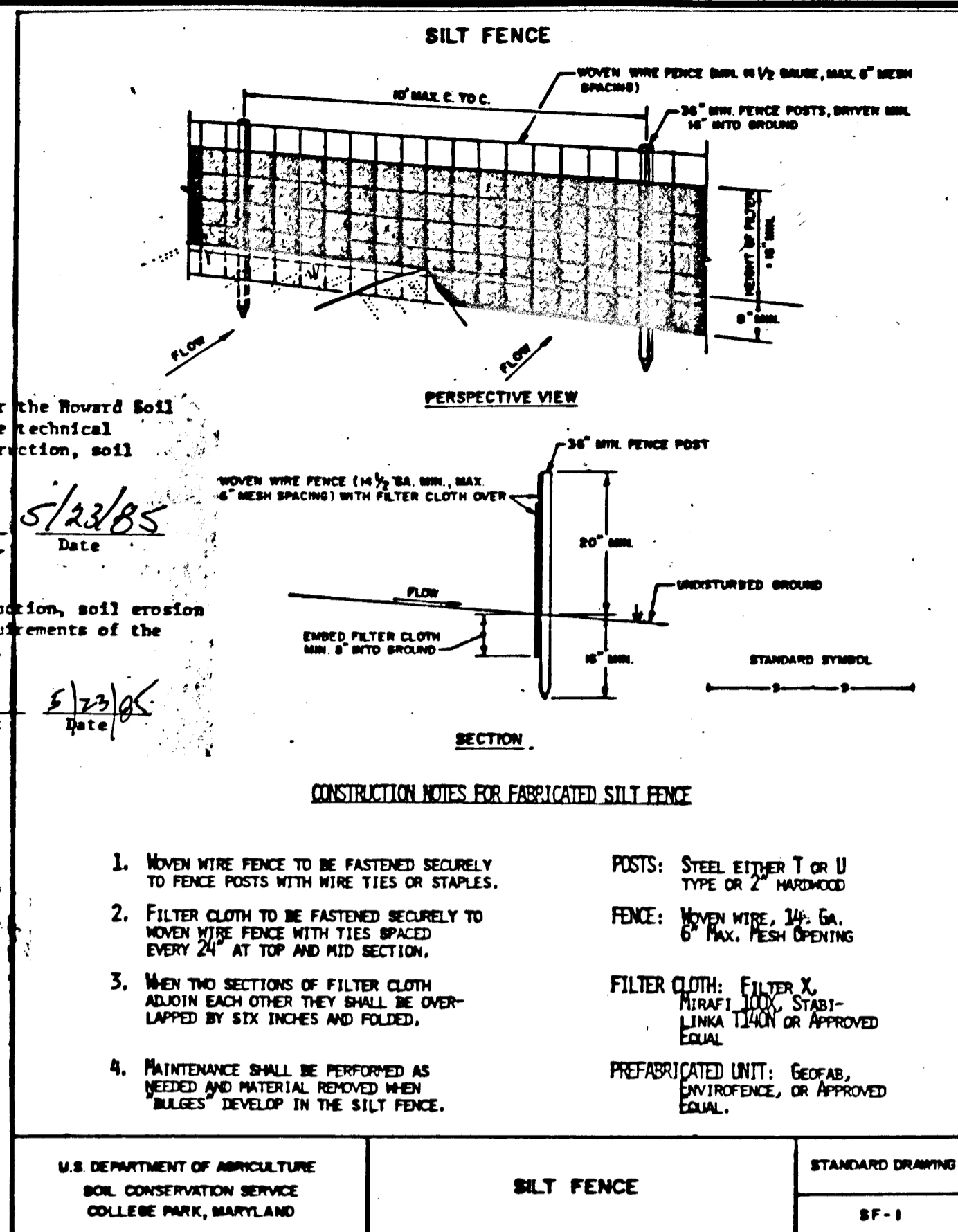
Acquest National Corporation of North America  
7239 Washington Blvd.  
Baltimore, Maryland 21227  
(301) 796-2388  
William A. Green,  
Chief Executive Officer



**Site Analysis**

Total Area of Site 76.34 Ac.  
Area Disturbed 6.20 Ac.  
Area To Be Paved 1.43 Ac.  
Area To Be Vegetatively Stabilized 5.01 Ac.  
Total Area Section I 73.9 Ac.

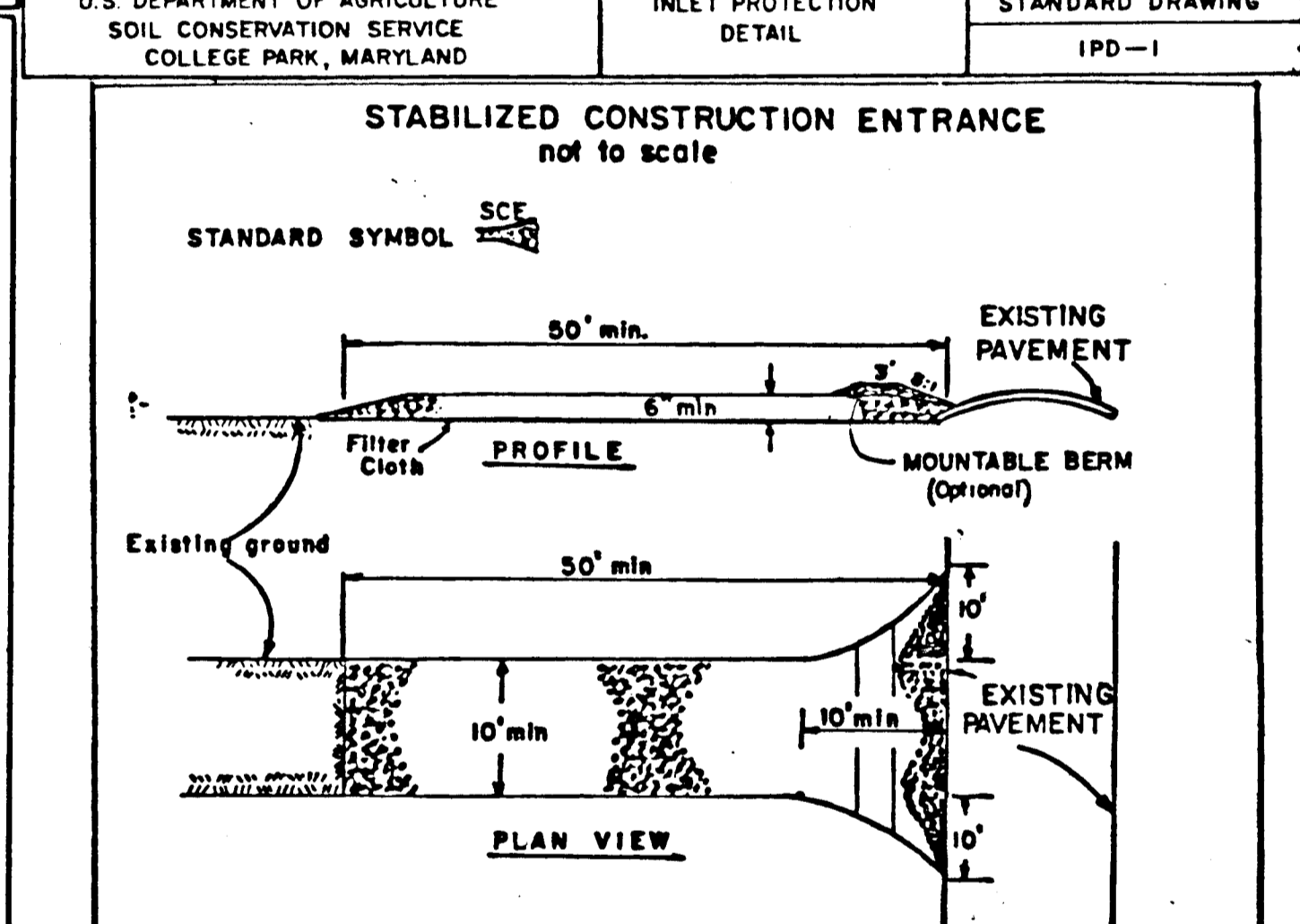
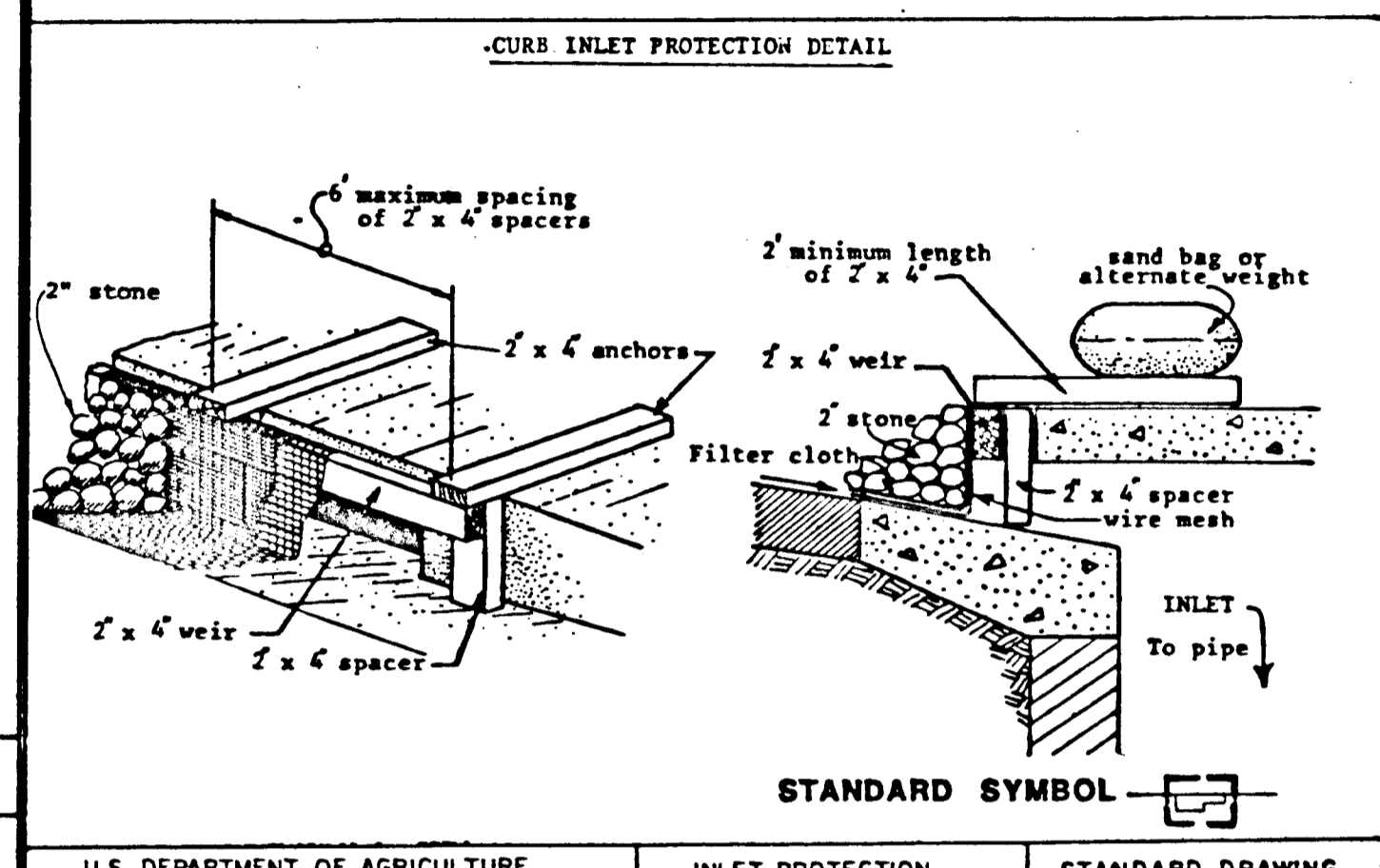
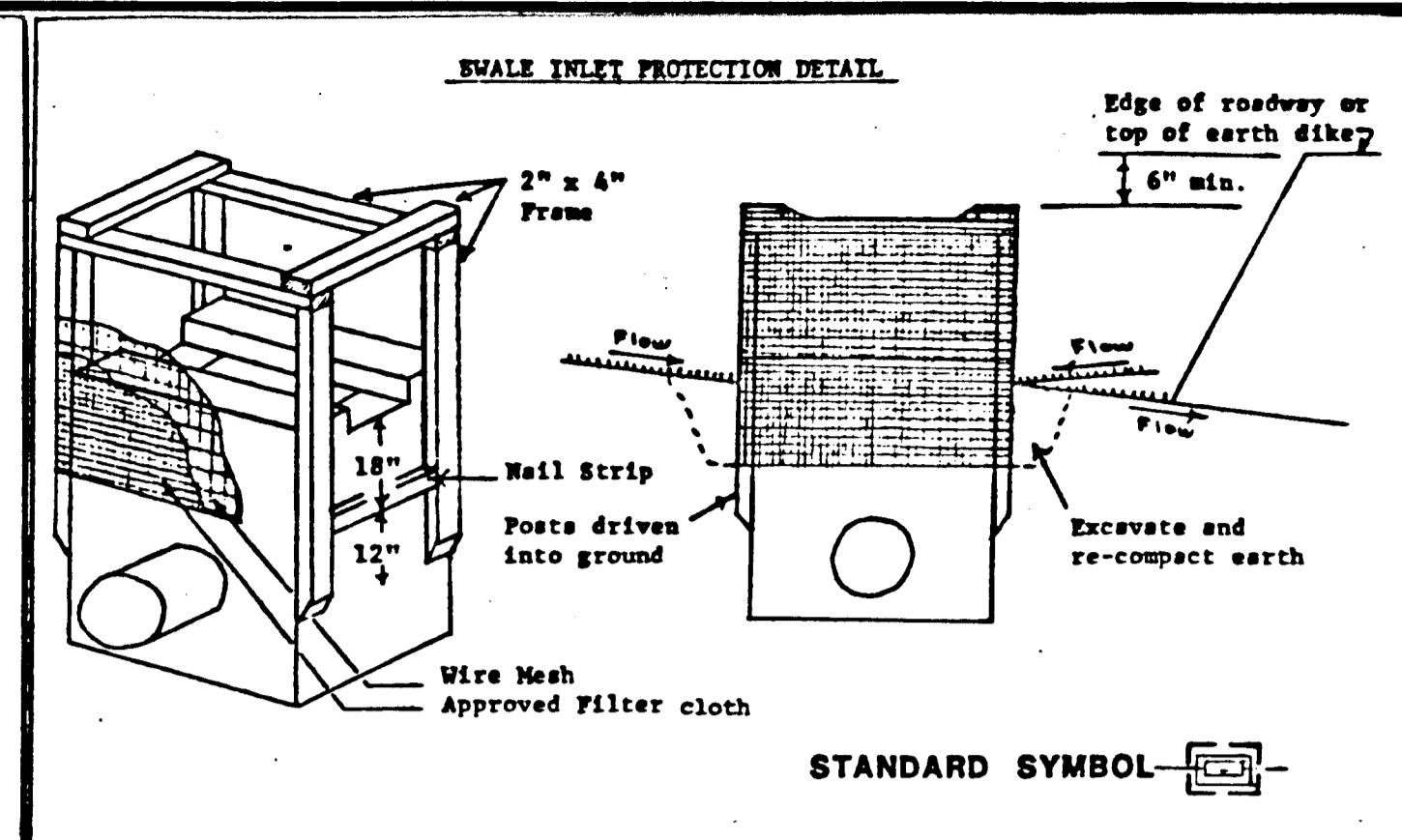
Fill 2000 C.Y.  
Total Area Section I 73.9 Ac.



**Engineers Certification**

I hereby certify that this plan has been prepared in accordance with the "1983 Maryland Standards and Specifications for Soil Erosion and Sediment Control", and the Howard County Department of Public Works Storm Water Management Ordinance, Bill 28, Section 18.904, as amended.

*James P. Beal*  
Professional Engineer No. #9954  
Date 11-06-84



**OWNER/DEVELOPER:**

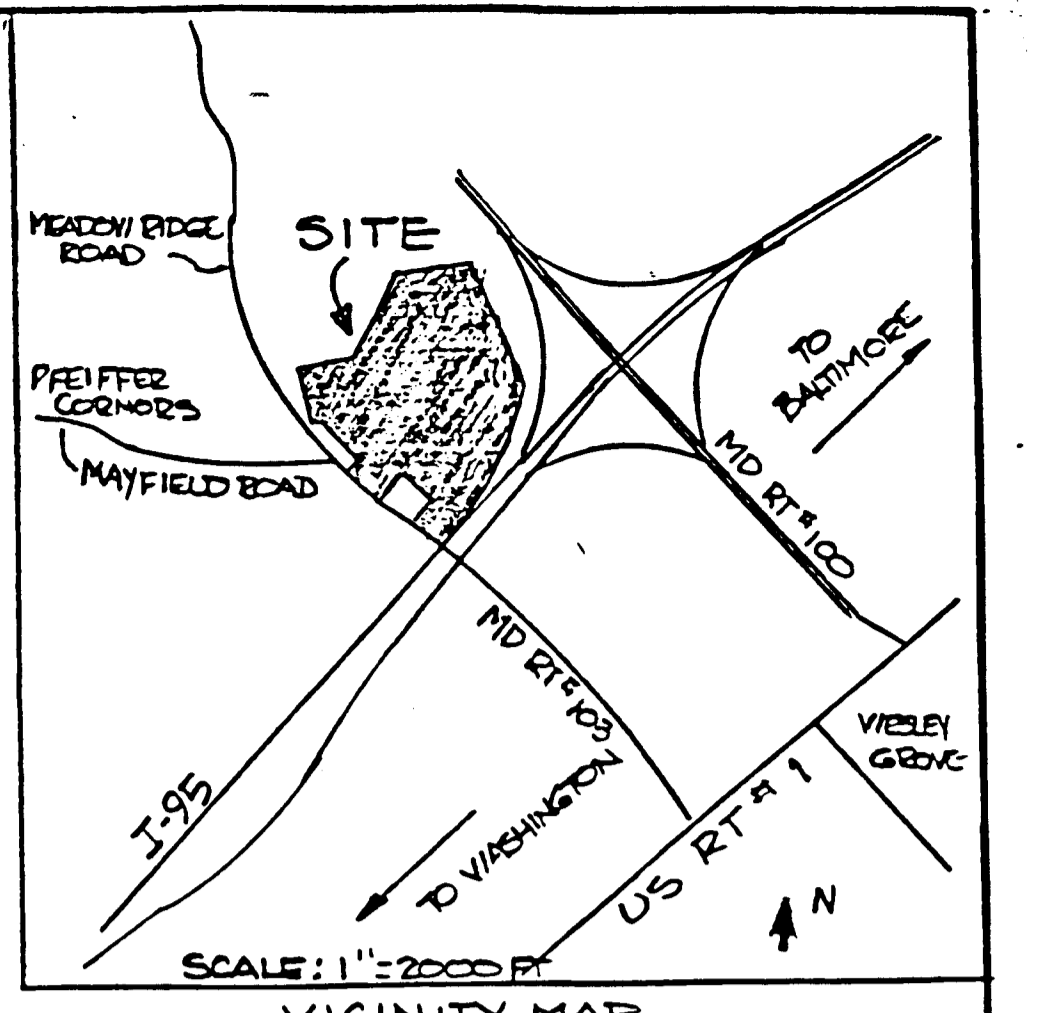
ACQUEST NATIONAL CORPORATION  
OF NORTH AMERICA  
7239 Washington Boulevard  
Baltimore, Maryland 21227

CASELL ENGINEERING, INC. PLANNERS AND SURVEYORS. KENNEDY, PORTER & ASSOC. INC. CONSULTING ENGINEERS	APPROVED: DEPARTMENT OF PUBLIC WORKS HOWARD CO., MARYLAND DATE 11-06-84	APPROVED: OFFICE OF PLANNING AND ZONING HOWARD CO., MARYLAND DATE 11-06-84	SEDIMENT CONTROL NOTES & DETAILS	GREEN MEADOW FARMS SECTION I ROAD AND DRAINAGE PLANS 1ST ELECTION DISTRICT-ELKRIDGE TAX MAP NO. 37	DRAWING NO. 10 OF 11	SCALE AS NOTED	DES: DRWN: CH'D:
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**ENGINEER'S CERTIFICATE**

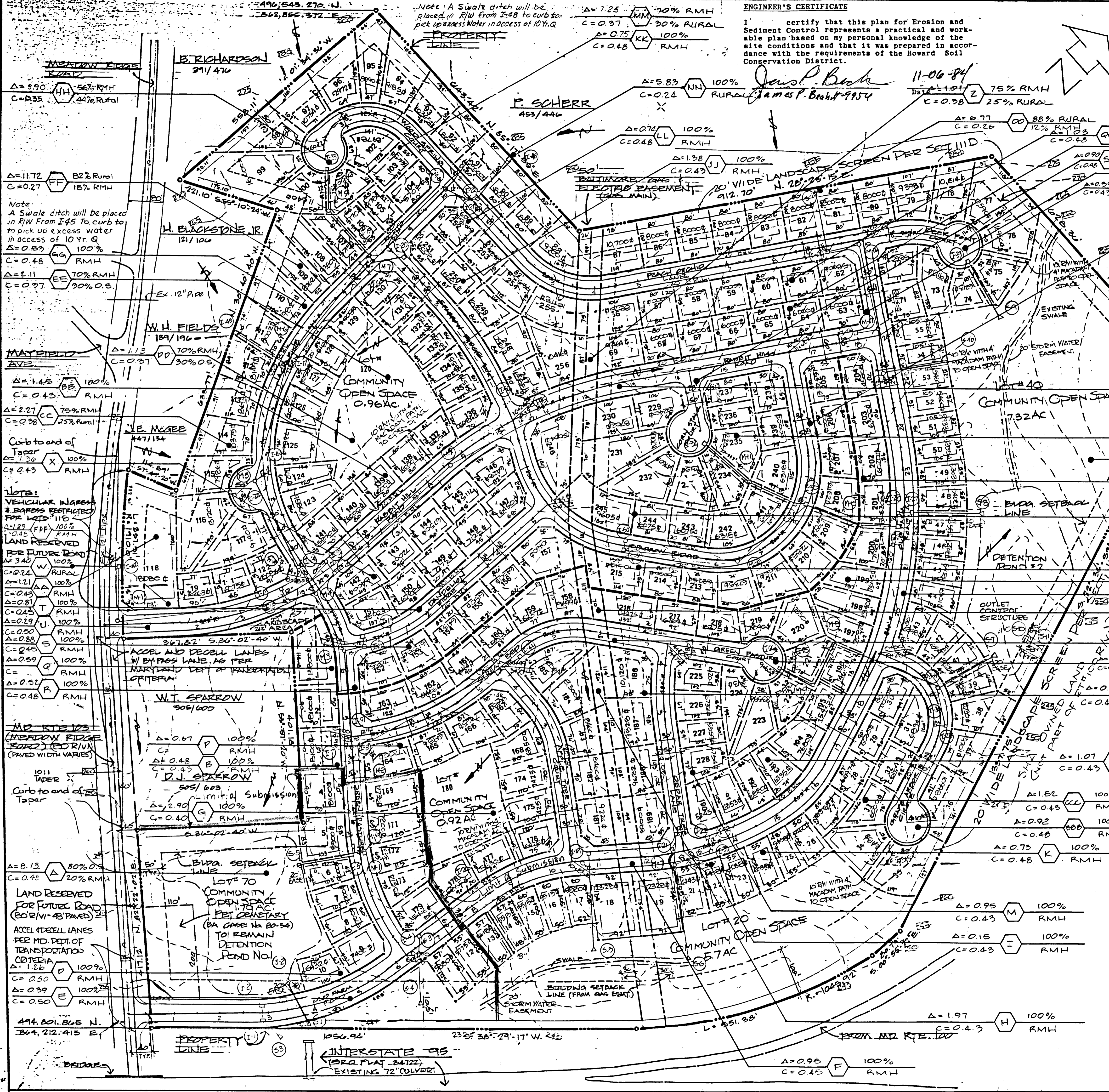
I certify that this plan for Erosion and Sediment Control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District.

*James P. Beck*  
 DATE: 11-06-84  
 PROJECT: #9954



- LEGEND**
- EXISTING CONTOUR --- E.S.
  - PROPOSED STORM DRAIN --- S.D.
  - BUILDING RESTRICTION LINE: B.R.L.
  - SHADED AREA --- 20' WIDE STORM DRAINAGE EASEMENTS

*James P. Beck*  
 #9954 11-06-84  
 PROFESSIONAL ENGINEER



Note: A Swale ditch will be placed in R/W from I-45 to curb to pick up excess water in excess of 10 Yr. Q.

**NOTES:**  
 VEHICULAR INGRESS & EGRESS RESTRICTED FOR LOTS 110, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000.

**SITE DATA**

1. ZONE: RMH  
 2. AREA: 76,342 AC  
 3. AREA TABULATION

GREEN AREA	76,342 AC
FLOOD PLAIN	0.00 AC
NET AREA	76,342 AC
A. ROADWAY DEDICATION	16,516 AC @ 0.48 RMH
B. OPEN AREA PROVIDED:	
1) LOT # 25	5.7 AC
2) LOT # 40	7.32 AC
3) LOT # 180	0.92 AC
4) LOT # 120	0.96 AC
5) LOT # 70	1.70 AC
TOTAL OPEN AREA	16,606 AC
C. LANDSCAPED AREAS	4.09 AC
TOTAL OPEN SPACE (INCL. LANDSCAPED AREAS) PROVIDED	2069 AC
TOTAL OPEN SPACE (INCL. LANDSCAPED AREAS) REQ'D (2%)	15,274 AC

4. MIN. LOT SIZE PER ORDINANCE: 4000 SQ. FT.  
 MIN. LOT SIZE PER DESIGN: 5000 SQ. FT.  
 5. 10' WIDE RIGHT-OF-WAY WITH 4' WIDE MANDATED PATHWAY TO OPEN SPACE

- GENERAL NOTES**
- THE PROPERTY SHOWN IS LOCATED ON TAX MAP 37 PARCEL NO. 133.
  - THE PROPERTY SHOWN IS ON SOILS MAP NO. 25 LEONARD SILT LOAM, GILTY CLAY, MINOR PROBLEM, NEGLECTABLE AGRIC. PROBLEM
  - THE TOPOGRAPHY WAS COMPILED FROM BOTH AERIAL & GROUND SURVEY.
  - DOUBLE SEWER & WATER TO BE UTILIZED
  - INSTALLATION OF TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF UNIFORM TRAFFIC DEVICES
  - SEDIMENT & EROSION CONTROL MEASURES TO BE DECIDED WITH THE SUBMISSION OF THE SITE DEVELOPMENT AND ROAD CONSTRUCTION PLANS
  - SEE OFFICE OF PLANNING & ZONING FILE NO. DBA-31

APPROVED: DEPT. OF PUBLIC WORKS  
 APPROVED: MD. CO. OFFICE OF PLANNING & ZONING ADMINISTRATION

**GREEN MEADOW FARMS**  
 DRAINAGE AREA MAP  
 SECTIONS 1 THRU 4  
 1ST ELECTION DIST. HOWARD COUNTY, MD.

SCALE	1" = 100'	OWNER/DEVELOPER	ACQUEST NATIONAL CORP.	ORIG. SUBMITTED	2/15/84
DESIGNED	JEV/DR	OF NORTH AMERICA	(WILLIAM A. GREEN-CEO)	REVISIONS	1) 5/11/84 - COUNTY COMMISSIONER RHC
DRAWN	JEV/DR	7239 WASHINGTON BLVD.	BALTO., MD. 21227		
CHECKED	RHC	ENGINEER (EVSION)	CASSELL ENGINEERING INC.		
DRAWING	11 OF 11	105 TRICKLING BROOK RD.	HUNT VALLEY, MD. 21030		
		(301) 628-1950			

F-85-50