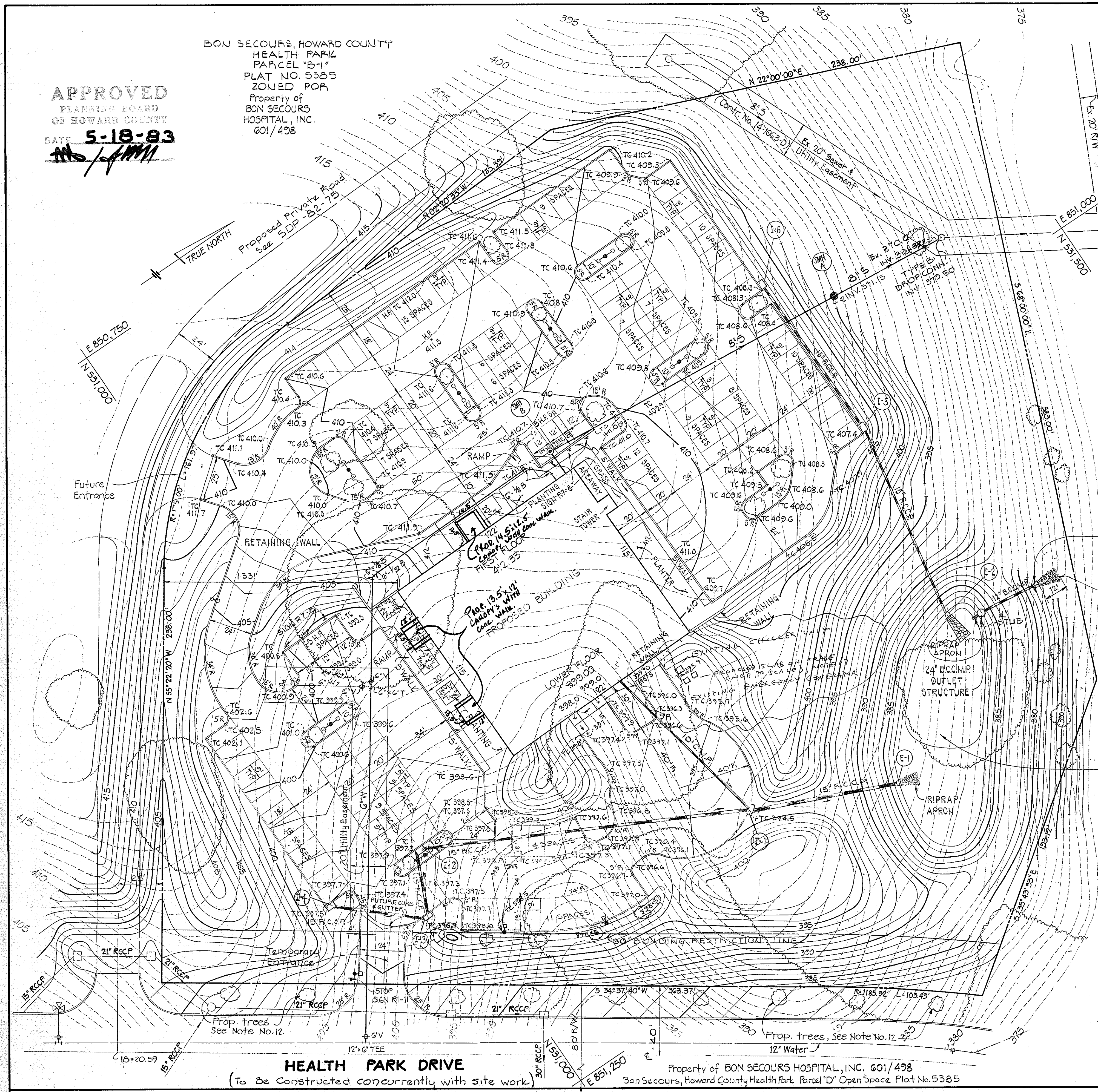


**APPROVED**  
PLANNING BOARD  
OF HOWARD COUNTY

DATE **5-18-83**  
*MS/AMM*

BON SECOURS, HOWARD COUNTY  
HEALTH PARK  
PARCEL "B-1"  
PLAT NO. 5385  
ZONED POP  
Property of  
BON SECOURS  
HOSPITAL, INC.  
601/498



**NOTES**

- Drawing and page numbers shown hereon are referenced to the Howard County Standard Specifications and Details for Construction.
- The location of existing utilities show hereon are based on latest available information.
- All workmanship and materials shall be in accordance with the Howard County Standard Specifications and Details for Construction unless otherwise specified.
- All roads and driveways within the limits of submission are private roadways.
- Water main in Health Park Drive to be constructed under Contract No. 14-1063-D.
- Handicapped facilities to be provided.
- Public water & public sewerage are available.
- All slopes to be 3:1 maximum.
- Horizontal and vertical datum are referenced to Howard County Geodetic Control.
- All curbs to be standard 7" combination curb and gutter 12.3:1. Where surface water flows away from curb, the gutter slope is to be reversed.
- Landscaping along parking lot adjacent to Health Park Drive shall be 2 1/2" caliper evergreen trees @ 30ft on center.
- Street trees along Health Park Drive shall be a hardwood variety and a minimum of 2 1/2" trunk diameter with 40' minimum spacing. Trees to be placed as shown.
- Health Park Drive to be constructed under Developers Agreement under Final Plan F-82-76.
- Directional signs for the various building entrances will be provided.
- For Sediment Control on Health Park Drive, See F-82-76.
- At the time this development uses Parcel B-1 for ingress and egress into Health Park Drive, an access easement shall be provided by parcel B-1 to this parcel, and revision to the site plan will be made at that time.
- SEE SEE FIGURES 1 AND 3 FOR NEW AST CONSTRUCTION DETAILS

Property of  
BON SECOURS  
HOSPITAL, INC.  
601/498

ZONED POP

12" B.C.C.M.P.  
STANDARD END SECTION

RIPRAP APRON

STORM WATER  
MANAGEMENT FACILITY  
SEE DETAIL SHEET 2 OF 3

**OWNER**

BON SECOURS MEDICAL OFFICE  
BUILDING LIMITED PARTNERSHIP  
2000 W. BALTIMORE STREET  
BALTIMORE, MARYLAND 21223

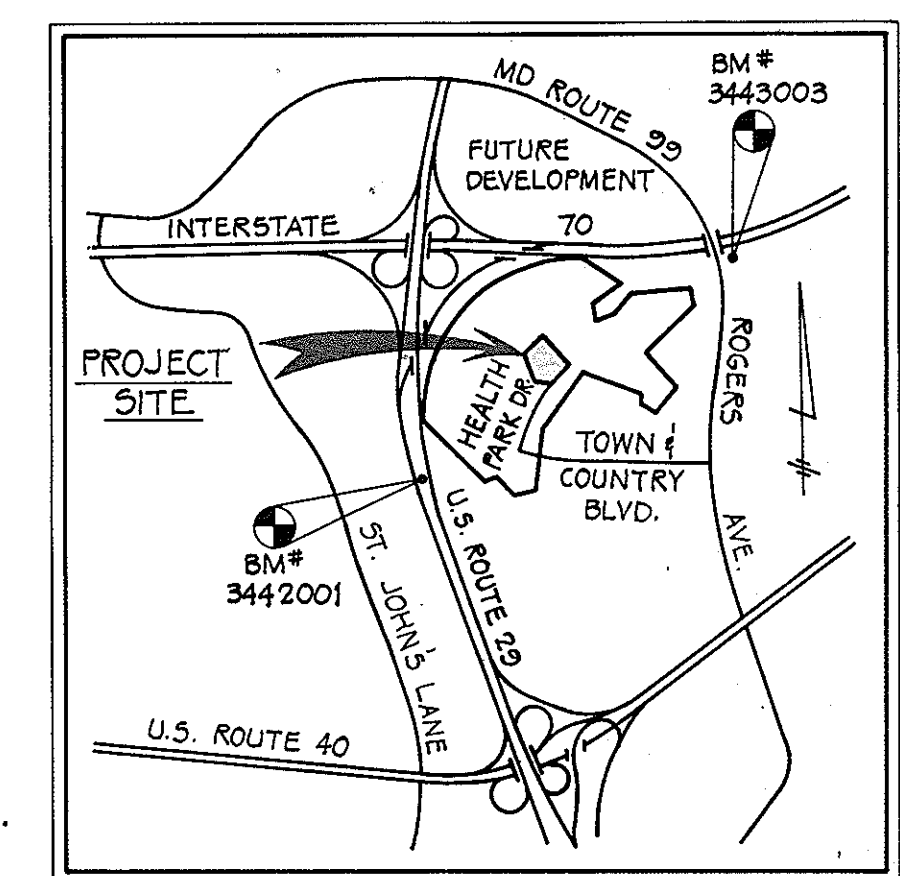
**DEVELOPER**

BON SECOURS HOSPITAL, INC.  
2000 W. BALTIMORE STREET  
BALTIMORE, MARYLAND 21223

**PROFESSIONAL ENGINEER**

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.

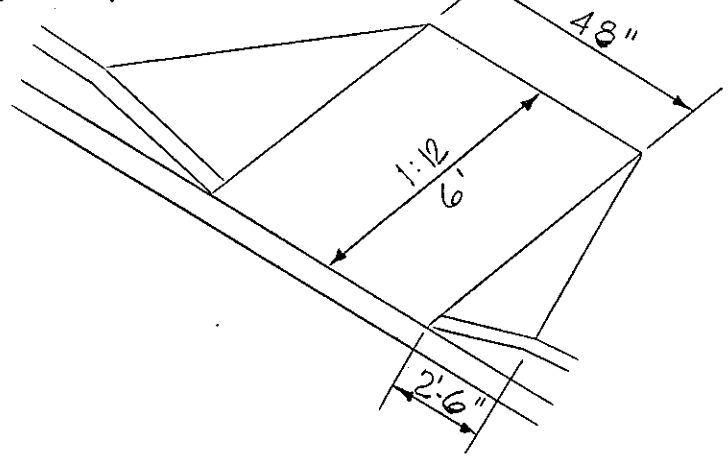
WILLIAM G. RASCH II  
DATE



**VICINITY MAP**  
SCALE: 1"=2640'

**SITE ANALYSIS**

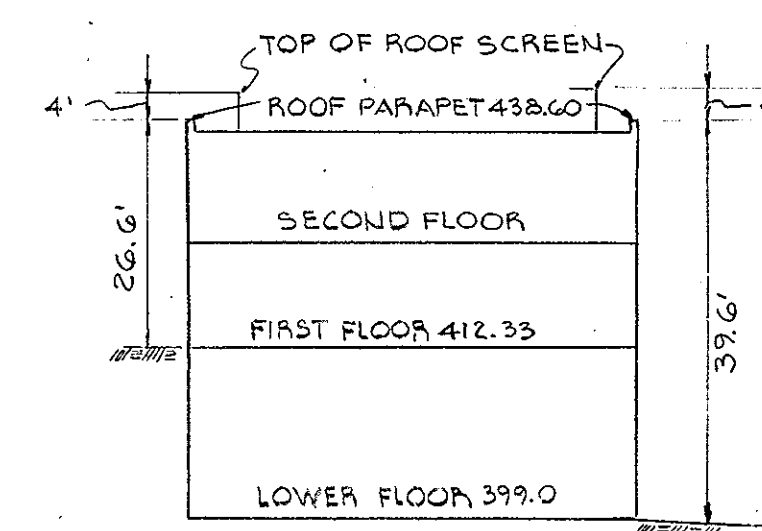
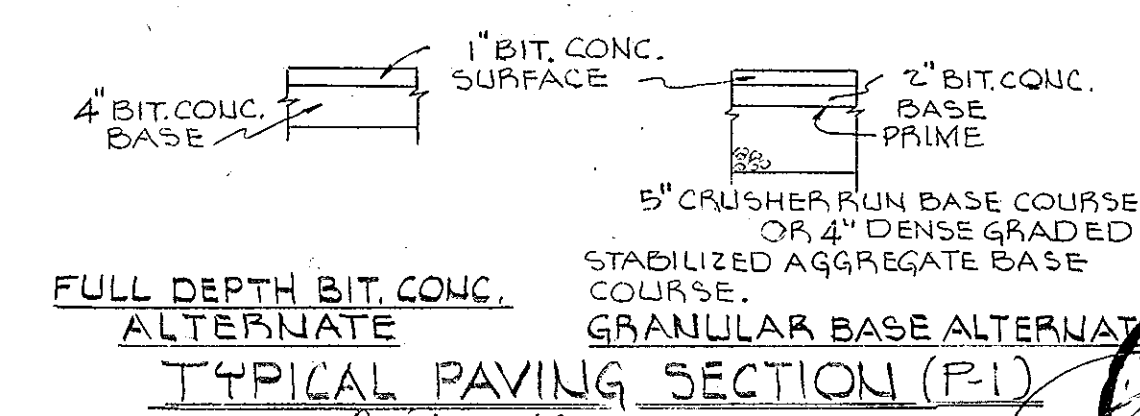
1. TOTAL AREA OF SITE	5.304 Ac. ±
2. LIMIT OF SUBMISSION	5.304 Ac. ±
3. PRESENT ZONING	POP.
4. LOT COVERAGE - STRUCTURES - 14030 S.F.	61%
5. OPEN SPACE	53%
<b>6. PARKING ANALYSIS:</b>	
NET FLOOR AREA 1 <sup>ST</sup> FLOOR + 2 <sup>ND</sup> FLOOR	22,000 S.F.
REQ'D SPACES @ 1 SPACE / 200 S.F. FLOOR AREA	110
LOWER FLOOR 1 SPACE / 2 BEDS + NO BEDS + 5	
1 PER STAFF x 25 PERSONS = 25	
4 PER DOCTOR x 5 DOCTORS = 20	
SPACES REQUIRED	50
TOTAL SPACES REQUIRED	160
TOTAL SPACES PROVIDED (INCLUDING 6 HANDICAPPED SPACES)	165
7. AREA OF PARKING LOT PAVING	7,710 S.Y.
AREA OF LANDSCAPED ISLANDS WITHIN PROPOSED PARKING LOTS	475 S.Y.
LANDSCAPED ISLANDS - % OF TOTAL PAVED AREA	6.2%
8. PARKING AREA LIGHTING FACILITIES SHOWN THUS 0-0-0 175 W. METAL HALIDE ON 25' POLE. EXTERIOR LIGHTING SHALL BE REFLECTED / DIRECTED AWAY FROM PUBLIC RIGHTS-OF-WAY.	
9. SEE PB CASE NO. 142	



**HANDICAPPED DAMP**

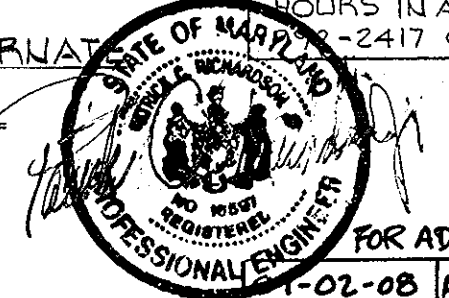
**SIGN LEGEND**

- R1-1 : STOP
  - R7-B : HANDICAPPED PARKING SPACE
- SIGNS IN ACCORDANCE WITH MARYLAND UNIFORM TRAFFIC CONTROL DEVICES.



**BUILDING PROFILE**  
NO SCALE

THE CONTRACTOR OR DEVELOPER SHALL CONTACT THE CONSTRUCTION INSPECTION / SURVEY DIVISION 20 DAYS IN ADVANCE OF COMMENCEMENT OF WORK, AT 2-2417 OR 792-7272.



**FOR ADDITION OF CANOPIES ONLY**

APPROVED  
For public water and public sewerage systems  
Howard County Health Department.

HOWARD COUNTY CONSERVATION DISTRICT  
Reviewed for Howard Conservation District  
and meets technical requirements.

*James Mitchell* 3-6-89  
SIGNATURE DATE

This development plan is approved for soil erosion and sediment control by the Howard Soil Conservation District.

*Joyce M. Boyd M.O. J.M.A.* 3/9/89  
COUNTY HEALTH OFFICER DATE

*Richard Zickler* 3-4-89  
HOWARD SOIL CONSERVATION DISTRICT DATE

**PURDUM & JESCHKE**  
CONSULTING ENGINEERS  
LAND SURVEYORS  
1023 North Calvert Street  
Baltimore, Maryland 21202 301/837-0194

DEVELOPER  
I certify that all development & construction will be done according to this plan and any responsible person involved in the construction project will have a certificate of attendance at the Dept. of Natural Resources approved training program for the control of any sediment erosion before beginning the project.

*WMS* 3-1-84  
SIGNATURE DATE

PLANNING BOARD  
*William F. Neuman* 3-7-80  
*William D. Ryan* 3-7-80  
DATE

PLANNING BOARD  
*John M. Weisman* 3-12-84  
*John M. Weisman* 3-12-84  
DATE

PROFESSIONAL ENGINEER  
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.

*William G. Rasch II* 2-1-84  
DATE



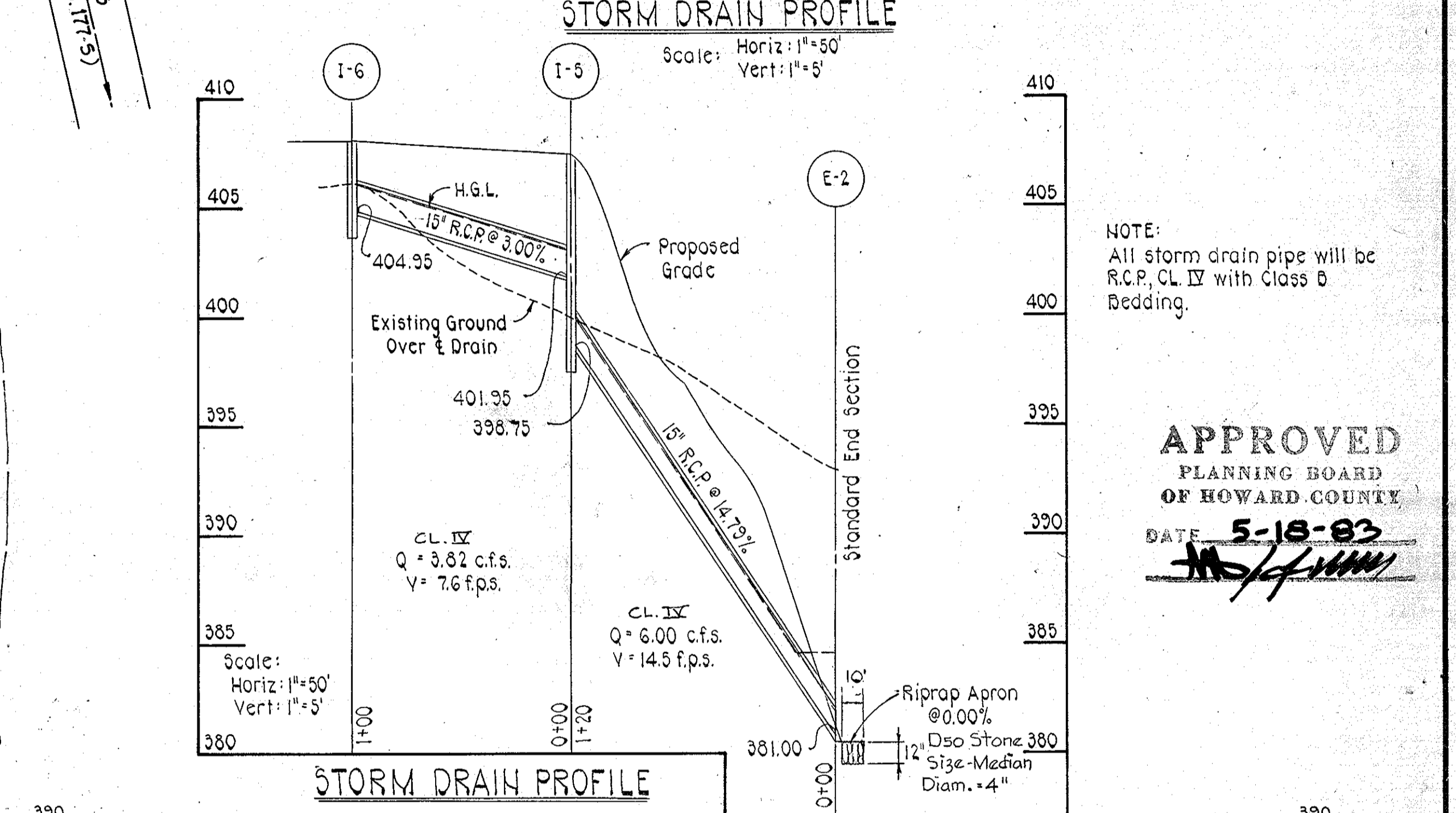
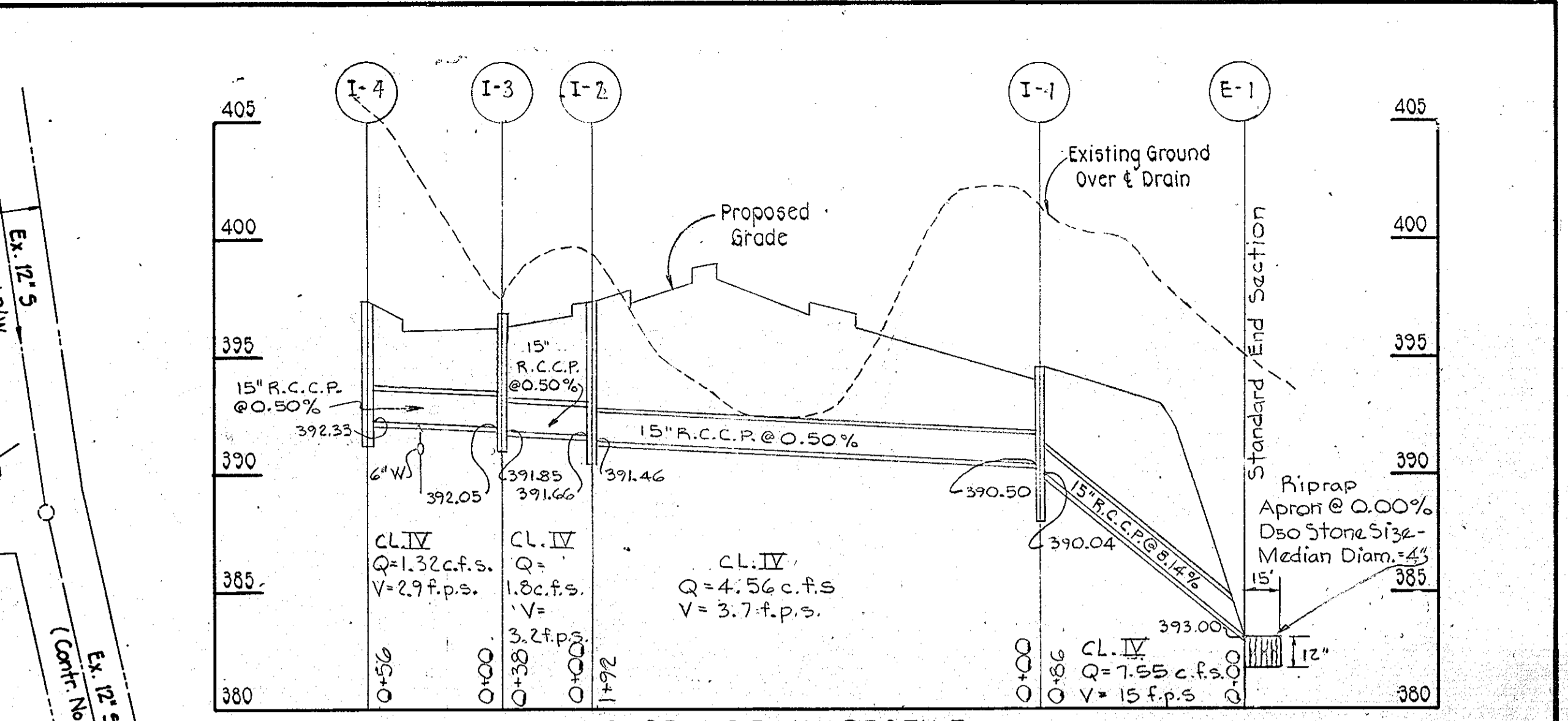
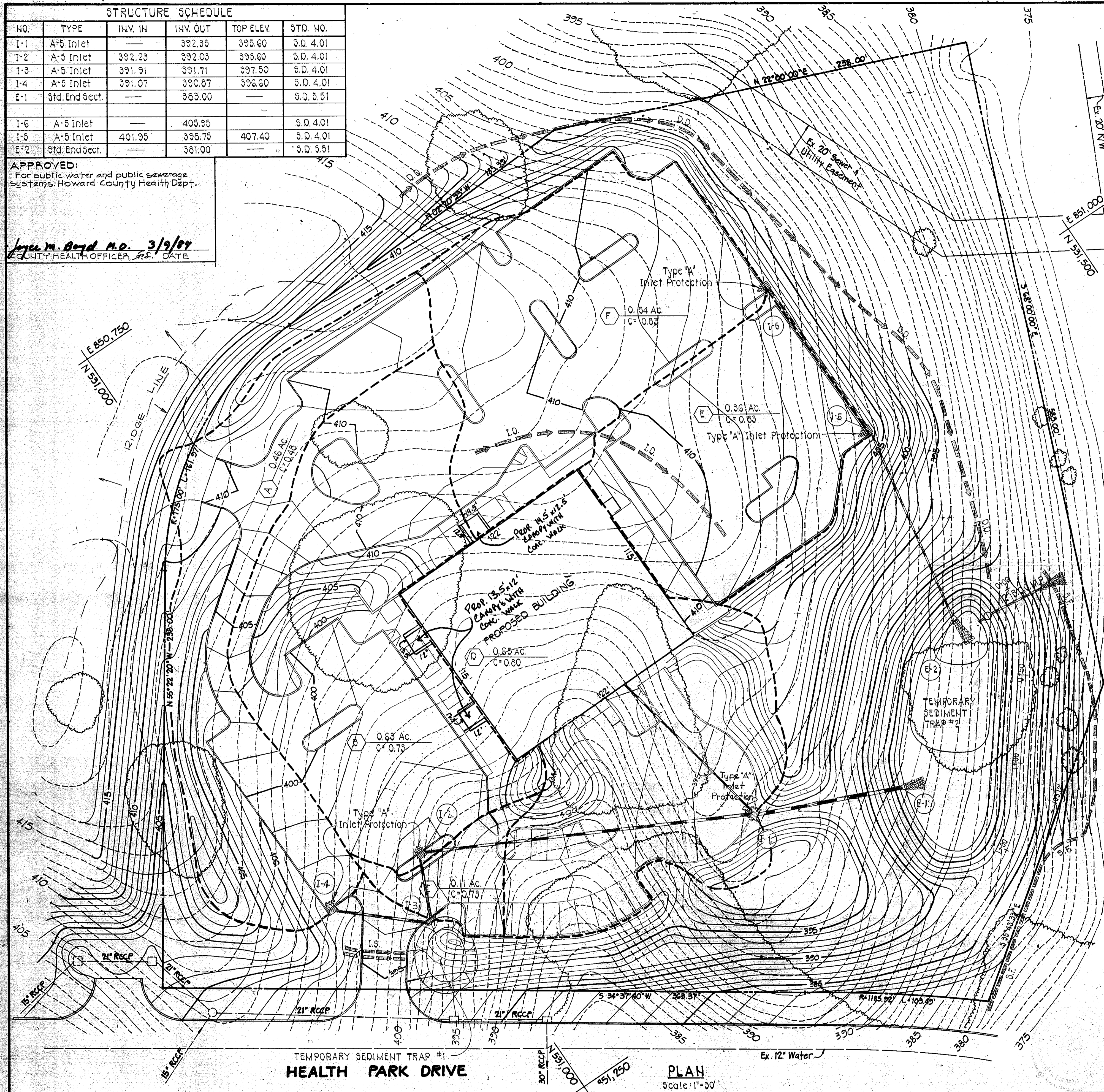
**BON SECOURS MEDICAL OFFICE BUILDING**  
BON SECOURS, HOWARD COUNTY HEALTH PARK  
PARCEL E, SEC. 2, AREA 1, PLAT NO. 5385  
SITE DEVELOPMENT PLAN  
2<sup>ND</sup> ELECTION DISTRICT HOWARD COUNTY, MD.  
TAX MAP 17 PARCEL NO. 80  
SCALE: 1"=30' FEBRUARY 23, 1983

SHEET 1 OF 3  
Revised: 4-15-83  
Revised: 1-15-84 (Paving Section)  
Revised: 9-14-89 (AST INSTALLATION)  
DES: WGR  
DRAWN: REC  
CHKD: WGR

STRUCTURE SCHEDULE					
NO.	TYPE	INV. IN	INV. OUT	TOP ELEV.	STD. NO.
I-1	A-5 Inlet	—	392.35	395.60	S.D. 4.01
I-2	A-5 Inlet	392.23	392.03	395.60	S.D. 4.01
I-3	A-5 Inlet	391.91	391.71	397.50	S.D. 4.01
I-4	A-5 Inlet	391.07	390.87	396.60	S.D. 4.01
E-1	Std. End Sect.	—	383.00	—	S.D. 3.51
I-6	A-5 Inlet	—	405.95	—	S.D. 4.01
I-5	A-5 Inlet	401.95	398.75	407.40	S.D. 4.01
E-2	Std. End Sect.	—	381.00	—	S.D. 3.51

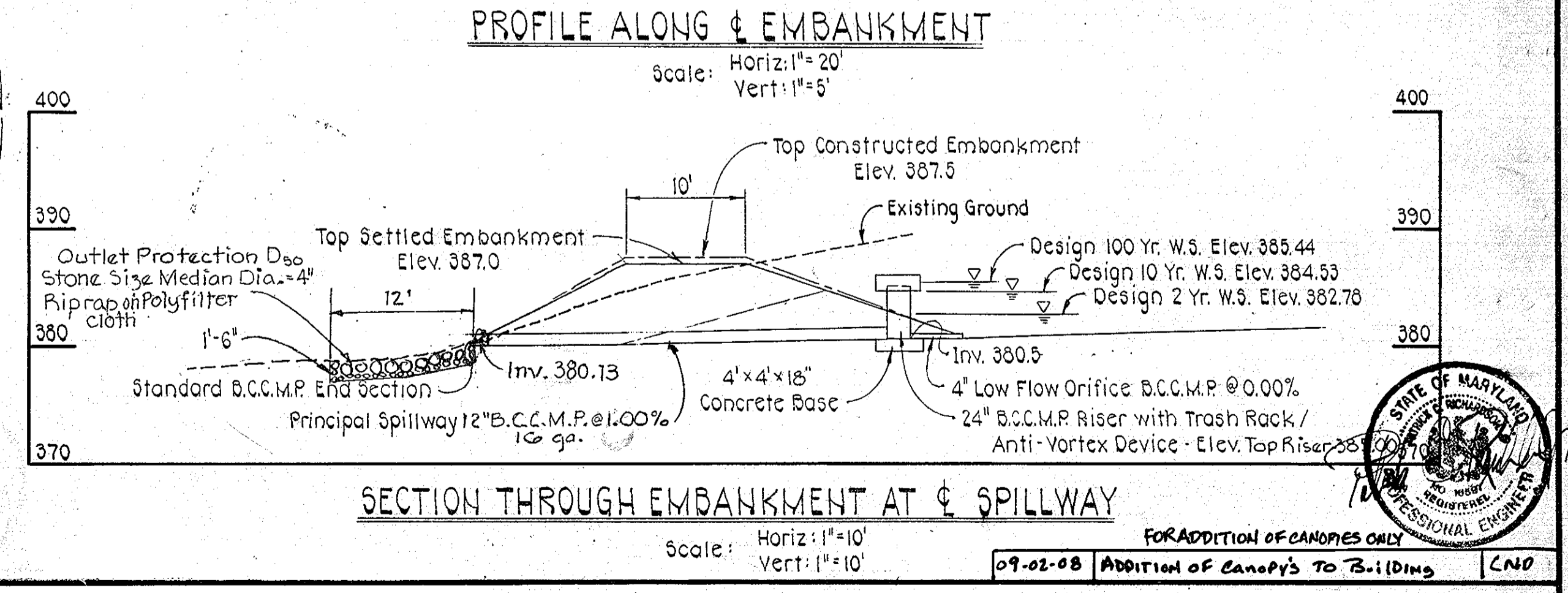
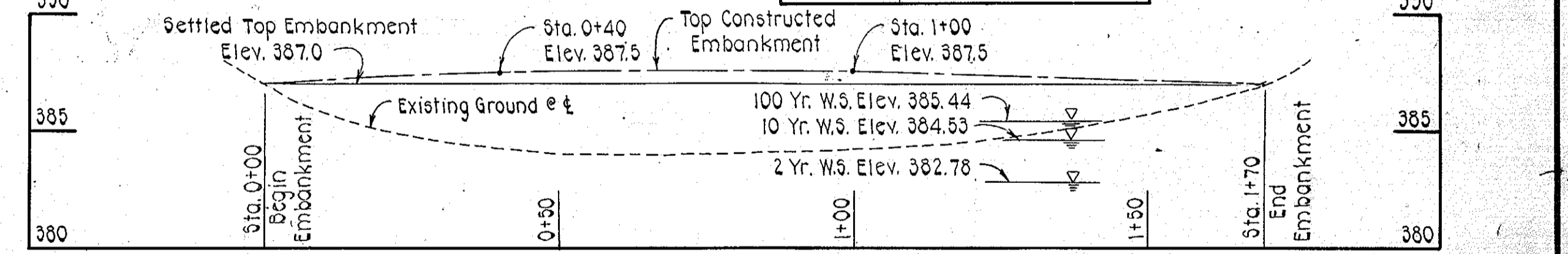
APPROVED:  
For public water and public sewerage systems. Howard County Health Dept.

*James M. Boyd* M.O. 3/9/84  
COUNTY HEALTH OFFICER DATE



NOTE:  
All storm drain pipe will be R.C.P., CL. IV with Class B Bedding.

APPROVED  
PLANNING BOARD  
OF HOWARD COUNTY  
DATE 5-18-83  
*[Signature]*



**PURDUM & JESCHKE**  
CONSULTING ENGINEERS  
LAND SURVEYORS  
1023 North Calvert Street  
Baltimore, Maryland 21202 301/837-0194

DEVELOPER  
I certify that all development & construction will be done according to this plan and any responsible personnel involved in the construction project will have a certificate of attendance at the Dept. of Natural Resources approved training program for the control of any sediment erosion before beginning the project.  
DATE 3-1-84

APPROVED:  
For public water, public sewerage, storm drain age and roads Howard County Department of Public Works.  
DATE 3-7-84

APPROVED:  
Howard County Office of Planning and Zoning  
DATE 3-6-84

HOWARD SOIL CONSERVATION DISTRICT  
Reviewed for Howard Conservation District and meet technical requirements.  
DATE 3-4-84

PROFESSIONAL ENGINEER  
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.  
DATE 3/1/84

**BON SECOURS**  
MEDICAL OFFICE BUILDING  
BON SECOURS HOWARD COUNTY HEALTH PARK  
PARCEL E, SEC. 2, AREA 1, PLAT NO. 5385  
STORM DRAINAGE, SEDIMENT CONTROL AND S.W.M.  
2<sup>ND</sup> ELECTION DISTRICT  
TAX MAP 17  
SCALE: AS SHOWN

SHEET 2 OF 3  
Revised: 4-15-83  
DES: WGR  
DRAWN: ARW  
CHKD: WGR

**SOIL CONSERVATION SERVICE**  
**MANUAL**  
**CONSTRUCTION SPECIFICATIONS**  
**FOR**  
**PODS**

These specifications are appropriate to pods within the scope of the Standard for practice 3M.

**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 pod or reservoir will be cleared of all trees, brush, logs, fences, rocks and other objectionable material unless otherwise designated on the plans. Trees, brush and stumps shall be cut approximately level with the ground surface.  
 All cleared and grubbed material shall be disposed of outside and below the limits of the dam and reservoir as directed by the owner or his representative. When specified, a sufficient quantity of topsoil will be stockpiled in a suitable location for use on the embankment and other designated areas.

**II. EARTH FILL**  
**Material**  
 The fill material shall be taken from approved designated borrow area or areas. It shall be free of roots, stumps, wood, rubbish, oversize stones, frozen or other objectionable materials. The embankment shall be constructed on an elevation which provides for sufficient settlement to the design elevation. The fill height all along the length of the embankment shall be increased above the design elevation (including frostboard) 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 track of the equipment or compaction shall be achieved by a minimum of four complete passes of a sheepsfoot, rubber tire or vibratory roller. Fill material shall contain sufficient moisture such that the required degree of compaction can be obtained with the equipment used.  
 Where a minimum required density is specified, each layer of fill shall be compacted as necessary to obtain that density and is to be certified by the Engineer.  
**Cutoff Trench**  
 Where specified, a cutoff trench shall be excavated along or parallel to the centerline of the embankment as shown on the plans. The bottom depth 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 achieve 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 used to fill completely all spaces under and adjacent to the pipes. 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 CONNECTIONS**  
 All pipes shall be circular in cross section.  
**A. Corrugated Metal Pipe**  
**1. Materials - (Steel Pipe)** - This pipe and its appurtenances shall be galvanized and fully bituminous coated and shall conform to the requirements of ASTM Specification A-132 Type A with water tight coupling bands. Any bituminous coating damaged or otherwise removed shall be replaced with cold applied bituminous coating compound.  
**2. Connections** - All connections with pipes must be completely watertight. The drain pipe or barrel connection to the riser shall be welded all around when the pipe and riser are metal. Watertight coupling bands or flanges shall be used at all joints. Rust-proof collars shall be connected to the pipe in such a manner as to the completely watertight. Dipole bands are not considered to be watertight.  
**3. Bedding** - The pipe shall be firmly and uniformly bedded throughout its entire length. Where rock or soft, spongy or other unstable soil is encountered, all such material shall be removed and replaced with suitable earth compacted to provide adequate support.  
**4. Laying pipe** - The pipe shall be placed with inside circumferential laps pointing downstream and with the longitudinal laps at the sides.  
**5. Backfilling** shall conform to structural backfill as shown above.  
**6. Other details** (rust-proof collars, valves, etc.) shall be as shown on the drawings.

**B. Aluminum Pipe**  
**1. Materials - (Aluminum Pipe)** - This pipe and its appurtenances shall conform to the requirements of ASTM Specification M-22 with water tight coupling bands or flanges.  
**2. Connections** - All connections with pipes must be completely watertight. The drain pipe or barrel connection to the riser shall be welded all around when the pipe and riser are metal. Watertight coupling bands or flanges shall be used at all joints. Rust-proof collars shall be connected to the pipe in such a manner as to the completely watertight. Dipole bands are not considered to be watertight.  
**3. Bedding** - The pipe shall be firmly and uniformly bedded throughout its entire length. Where rock or soft, spongy or other unstable soil is encountered, all such material shall be removed and replaced with suitable earth compacted to provide adequate support.  
**4. Laying pipe** - The pipe shall be placed with inside circumferential laps pointing downstream and with the longitudinal laps at the sides.  
**5. Backfilling** shall conform to structural backfill as shown above.  
**6. Other details** (rust-proof collars, valves, etc.) shall be as shown on the drawings.

**C. Steel Pipe with Polymeric Coatings**  
 Steel pipes with polymeric coatings shall have a minimum coating thickness of 0.01 inch (1 mil) on both inside and outside of the pipe. The following coatings are commercially available: Merox, Plast-Coat, Bisc-Kit, and Benth-Co-Loy. Corrugated coated steel pipe shall meet the requirements of ASTM A-132 and A-133.  
**Materials - (Aluminum Pipe)** - This pipe and its appurtenances shall conform to the requirements of ASTM Specification M-22 with water tight coupling bands or flanges.  
**Materials - (Aluminum Pipe)** - This pipe and its appurtenances shall conform to the requirements of ASTM Specification M-22 with water tight coupling bands or flanges.  
**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. Rust-proof collars shall be connected to the pipe in such a manner as to the completely watertight. Dipole 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** (rust-proof collars, valves, etc.) shall be as shown on the drawings.

**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.

**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 law concerning pollution abatement will be followed. Construction plans shall detail erosion and sediment control measures to be employed during the construction process.

**APPROVED**  
**PLANNING BOARD**  
**OF HOWARD COUNTY**  
**DATE 5-18-83**  
*[Signature]*

**APPROVED:**  
 For public water, public sewerage, storm drainage and roads, Howard County Department of Public Works.  
*Way F. Nemej* 3-7-84  
 DIRECTOR DATE

**APPROVED:**  
 Howard County Office of Planning and Zoning.  
*John M. ...* 3-7-84  
 PLANNING DIRECTOR DATE

**PURDUM & JESCHKE**  
**CONSULTING ENGINEERS**  
**LAND SURVEYORS**  
 1023 North Calvert Street  
 Baltimore, Maryland 21202 301/837-0194

**DEVELOPER**  
 I certify that all development construction will be done according to this plan and any responsible personnel involved in the construction project will have a certificate of attendance at the Dept. of Natural Resources approved training program for the control of any sediment erosion before beginning the project.  
*[Signature]* 3-1-84  
 SIGNATURE DATE

**APPROVED:**  
 For public water and public sewerage systems, Howard County Health Department.  
*John M. ...* 3/1/84  
 COUNTY HEALTH OFFICER DATE

**HOWARD SOIL CONSERVATION DISTRICT**  
 Reviewed for Howard Conservation District and meets technical requirements.  
*[Signature]* 3-6-84  
 SIGNATURE DATE  
 The development plan is approved for soil erosion and sediment control by the Howard Soil Conservation District.  
*[Signature]* 3-4-84  
 HOWARD SOIL CONSERVATION DISTRICT DATE

**PROFESSIONAL ENGINEER**  
 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.  
*[Signature]* 3/1/84  
 WILLIAM G. JESCHKE II DATE

**BON SECOURS**  
**MEDICAL OFFICE BUILDING**  
 BON SECOURS HOWARD COUNTY HEALTH PARK  
 PARCEL E, SEC. 2, AREA 1, PLAT NO. 5385  
 SEDIMENT CONTROL AND S.W.M. DETAILS  
 2ND ELECTION DISTRICT HOWARD COUNTY  
 TAX MAP 17 PARCEL 110.80  
 SCALE: AS SHOWN FEBRUARY 24, 1983

**SHEET 3 OF 3**  
 Revised: 4-15-83  
 DES: WGR  
 DRAWING: L.P.  
 CHKD: WGR

**CONSTRUCTION SEQUENCE**

1. Obtain grading permit.
2. Install diversion dikes and silt fence along west and north perimeters of construction. (Install silt fence east side of Health Park Drive in conjunction with P-82-76).
3. Begin construction of storm water management facility. (Temporary sediment facility).
4. Clear and grade site.
5. Install storm drain systems. Block all inlets.
6. Install sediment trap at Inlet 2.
7. Install silt fence at Inlet 4.
8. Install water, sewer and electrical services. Repair sediment control devices disturbed by utility installation.
9. Seed all disturbed areas outside of limits of paving.
10. Install curb and gutter. Pave access roads and parking areas.
11. Remove temporary sediment control devices after approval of sediment control inspection after areas are stabilized.

**CONVERSION SEQUENCE FOR SEDIMENT BASIN TO STORMWATER MANAGEMENT POND**

1. Remove standing water by pumping over riser to barrel.
2. Remove all sediment and restore areas to design grades.
3. Spread sediment in spoil area shown on plan.
4. Stabilize spoil area per sediment control note No. 4.

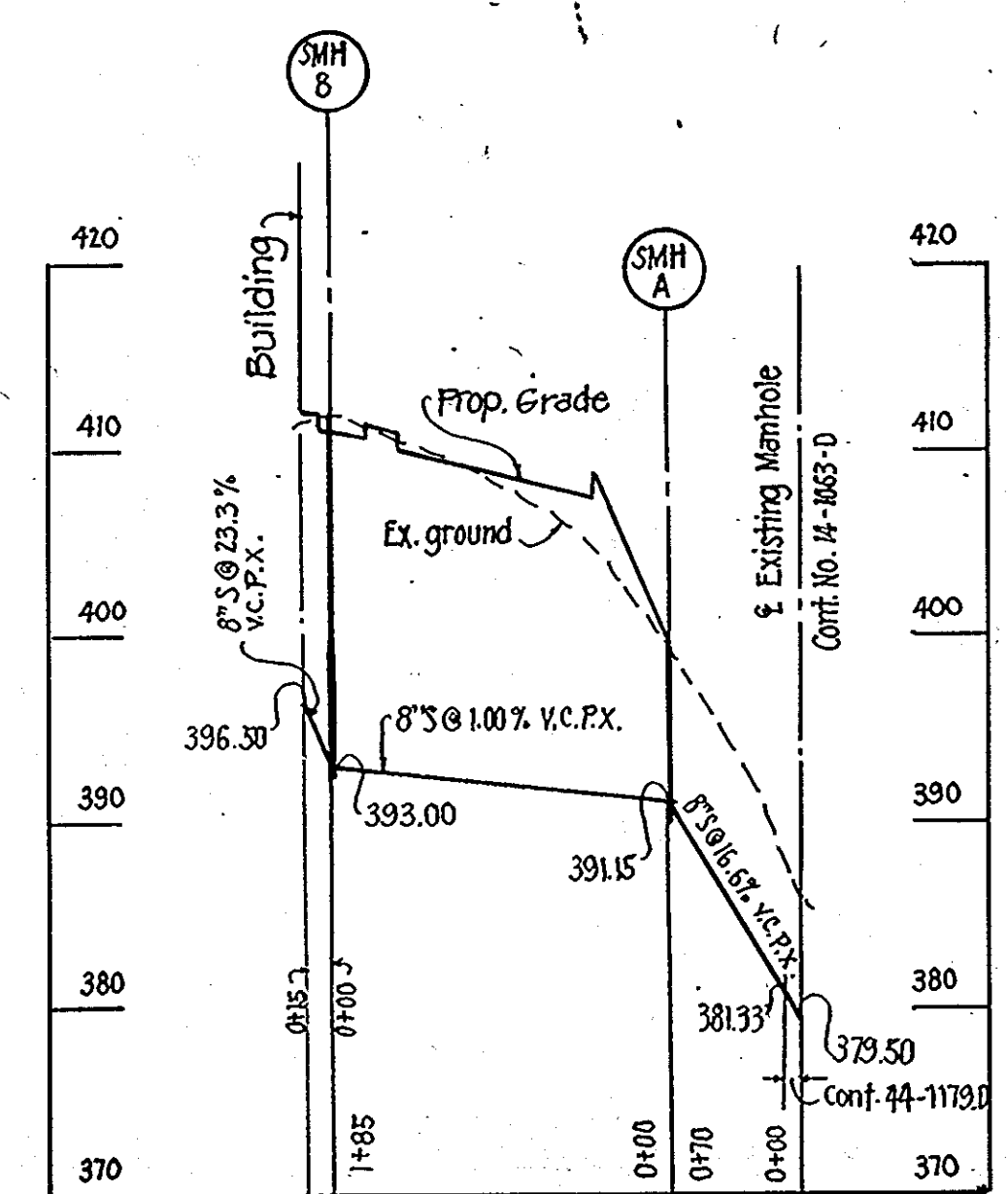
**SITE ANALYSIS**

Total Area of Site 5.304 ac. ±  
 Area to be Disturbed 4.63 ac. ±  
 Area to be Paved & Building Area 2.49 ac. ±  
 Area to be Revegetated 2.14 ac. ±

**TEMPORARY SEDIMENT TRAP DATA**

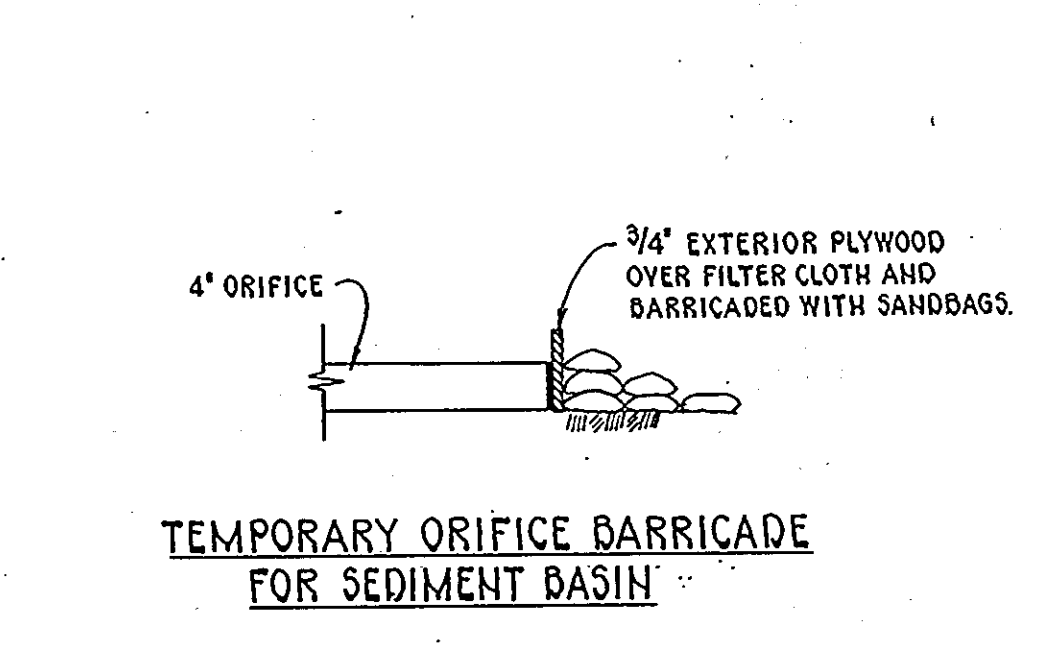
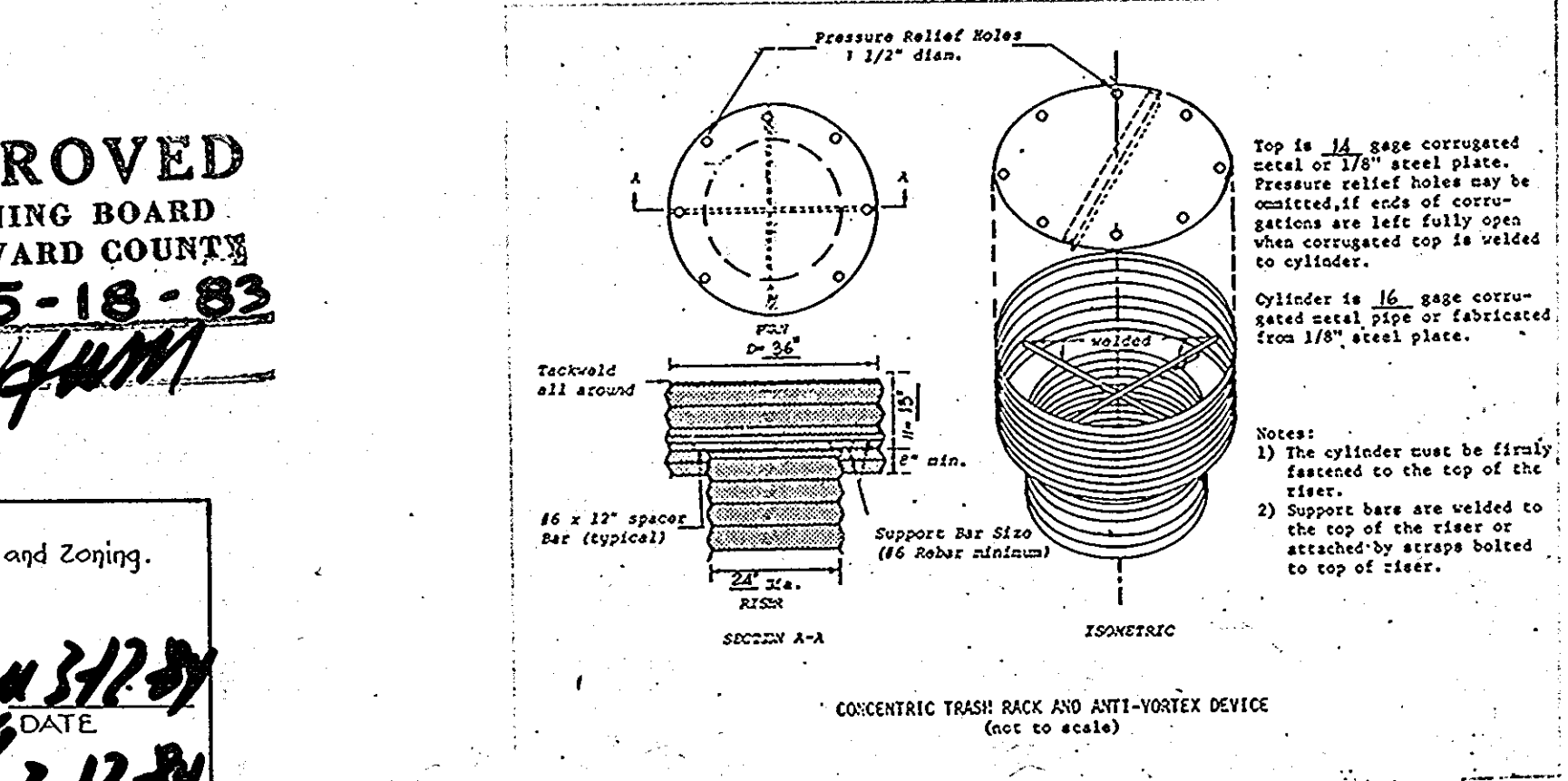
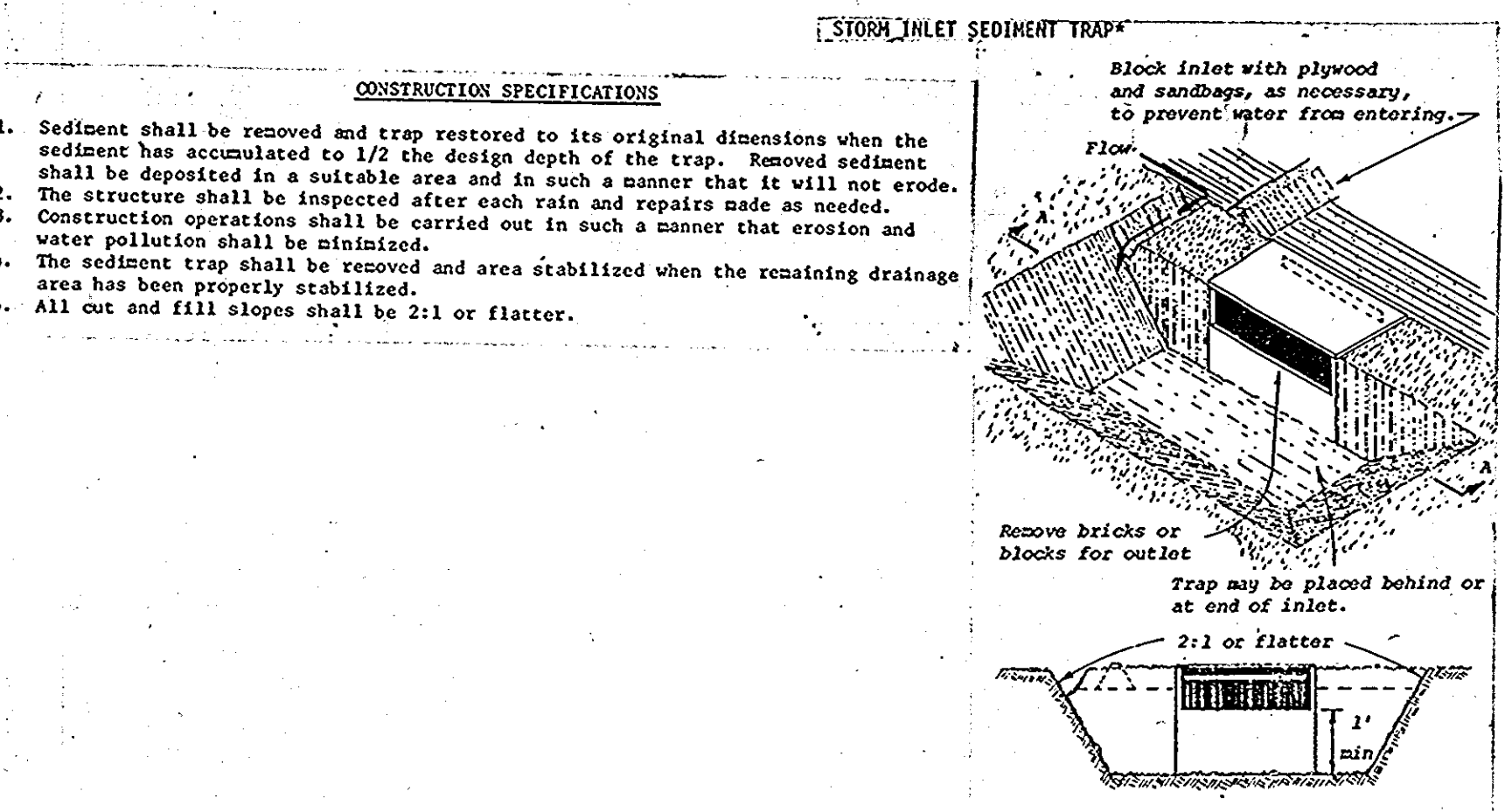
**Trap #1 - Inlet Sediment Trap**  
 Drainage Area 1.27 ac.  
 Trap Volume Required 2300 c.f.  
 Trap Volume Provided 2560 c.f.  
 Bottom Elevation 392.0  
 Overflow Elevation 395.0  
 Cleanout Elevation 393.5

**Trap #2 - Stormwater Management Pond w/ Inlet Blocking**  
 Drainage Area 3.36 ac.  
 Trap Volume Required 6048 c.f.  
 Trap Volume Provided 22,300 c.f.  
 Bottom Elevation 380.5  
 Overflow Elevation 385.0  
 Cleanout Elevation 383.0

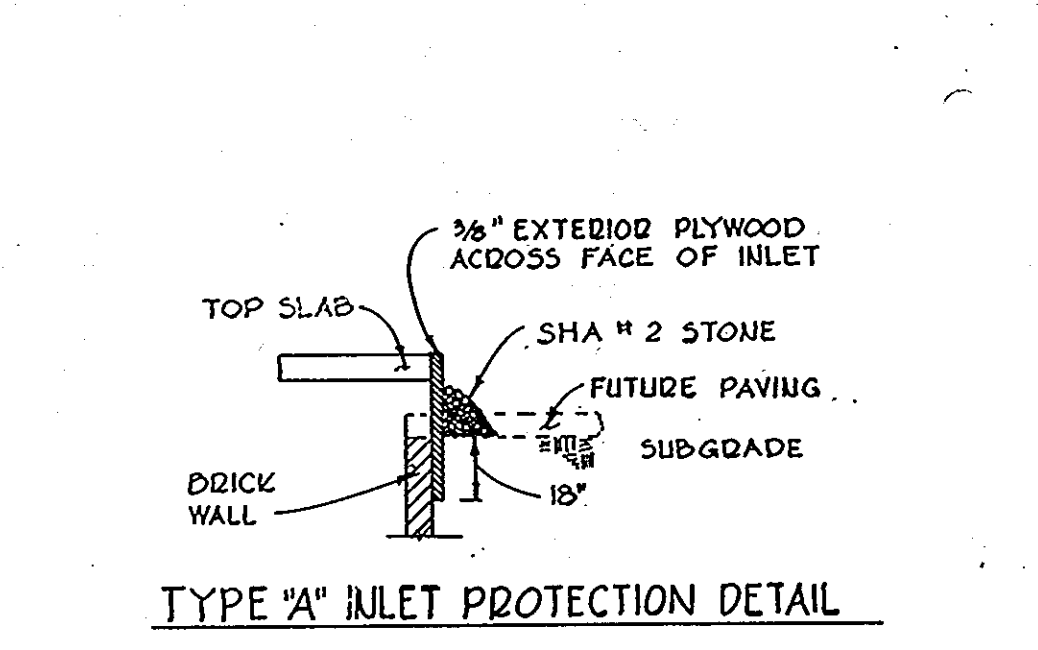


**PRIVATE SEWER HOUSE CONNECTION**  
**PROFILE - SCALE: Hor. 1"=100'; Ver. 1/4"=10'**

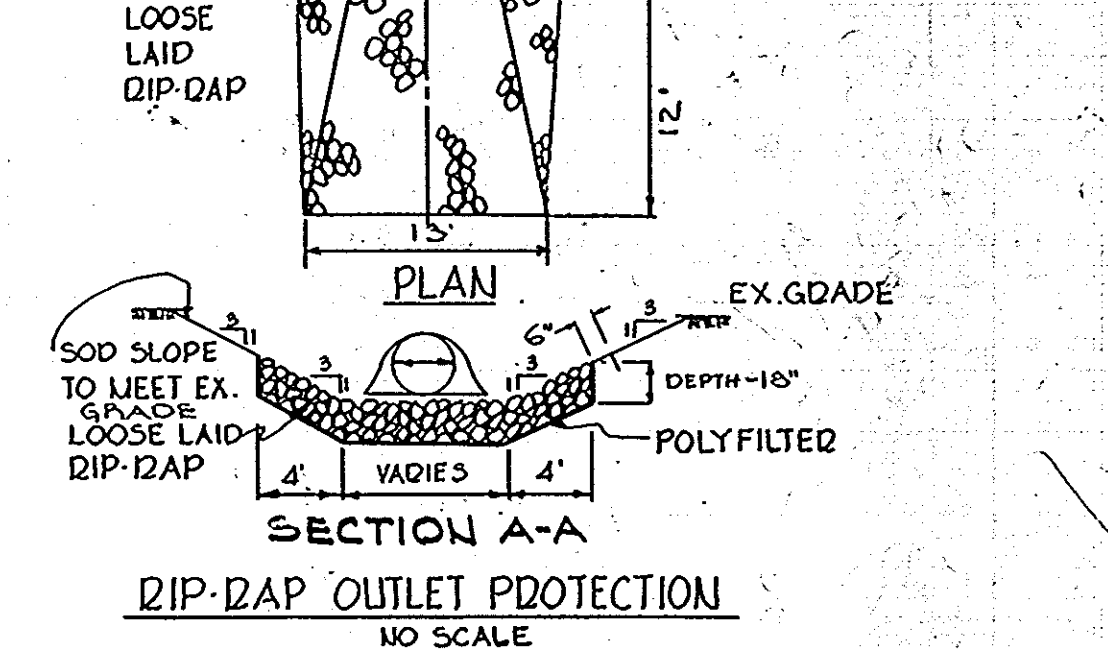
- SEDIMENT CONTROL NOTES**
1. Specifications for the Sediment Control Details shown herein are included in the U.S.D.A. Soil Conservation Service "Standards and Specifications for Soil Erosion and Sediment Control in Developing Areas."
  2. The developer shall notify the Howard County Office of Inspection and Permit at least 24 hours prior to beginning any construction above herein (992-2435 or 993-2435).
  3. All sediment control structures to remain in place until permission for their removal has been obtained from the Howard County Office of Inspection and Permit (992-2435 or 993-2435).
  4. All graded areas shall be stabilized in accordance with the following requirements:
    - A. Site Preparation:
      - (1) Barrow or disc the areas to be seeded with the following materials at the specified rate to a depth of 3":
        - (a) Polyurethane Insecticide at 1/4 tons/acre.
        - (b) Commercial fertilizer 10-10-10 at 3/4 tons/acre.
        - (c) Super phosphate at 600 lbs./acre.
      - (2) The seed shall be covered to a depth of 1/8-inch and the area compacted with a cultipacker or other approved method.
    - B. Seeding:
      - (1) Sow the following seed mixture at the specified rate with a mechanical spreader:
        - (a) Temporary - Italian or Perennial Blygrass (1 lb./1000 sq. ft.)
        - (b) Permanent - (Slopes flatter than 3:1) - Common Kentucky Bluegrass 40%, Wren Bluegrass 40%, Red Fescue 20% (3 lb./1000 sq. ft.)
        - (c) Slopes steeper than 3:1 - Ground cover (50 lb./1000 sq. ft.)
      - (2) The seed shall be covered to a depth of 1/8-inch and the area compacted with a cultipacker or other approved method.
    - C. Mulching:
      - (1) Seeded areas shall be uniformly mulched immediately after seeding with unweathered small grain straw at the rate of 1 to 2 tons/acre.
      - (2) The mulch down with liquid asphalt at 0.1 gal./sq. yd. or emulsified asphalt at 0.04 gal./sq. yd.
    - D. Sodding:
      - (1) Apply 10-10-10 fertilizer at 1000 lbs./acre. (15 lbs./1000 sq. ft.)
      - (2) Apply ground agricultural limestone at 2000 lbs./acre. (50 lbs./1000 sq. ft.)
      - (3) Incorporate both lime and fertilizer into soil by discing. Firm up after incorporation.
      - (4) Lay sods to a tight fit. Roll to ensure contact with underlying soil. Water as necessary for first two weeks (60 number) to ensure establishment.
    - E. Ground Cover:
      - (1) Crown vetch (monocultured) at 15 lbs./acre, and Kentucky 31 Tall Fescue (certified) at 40 lbs./acre. (211 minimum slope)
  5. The contractor shall place plywood braced with sand bags at the inlet end of unfinished drain pipes at the end of each work day.
  6. All excavations shall be protected with straw-bale dikes, silt fences, or other approved sediment control devices.
  7. Specific control measures shown on this plan may be altered, with previous approval of the sediment control inspector, in location or extent as required to fit changed conditions encountered at the site.



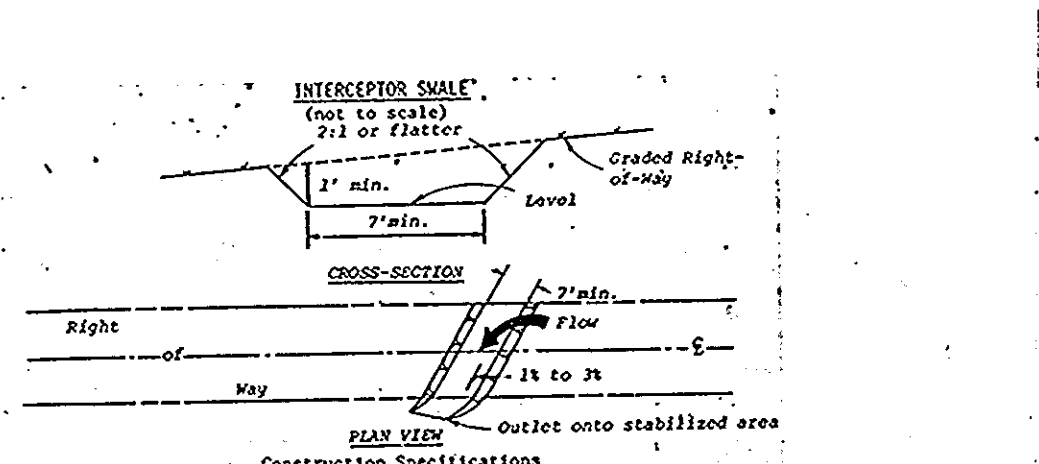
**TEMPORARY ORIFICE BARRICADE FOR SEDIMENT BASIN**



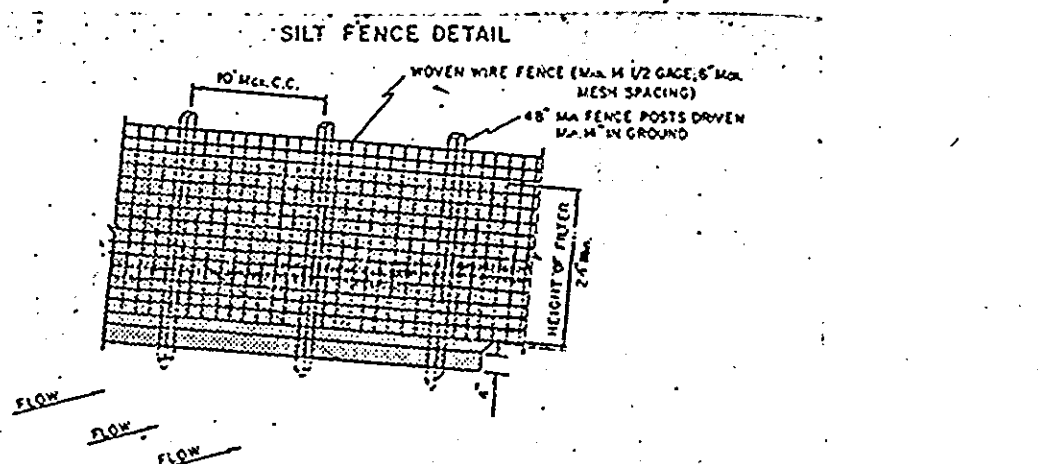
**TYPE "A" INLET PROTECTION DETAIL**



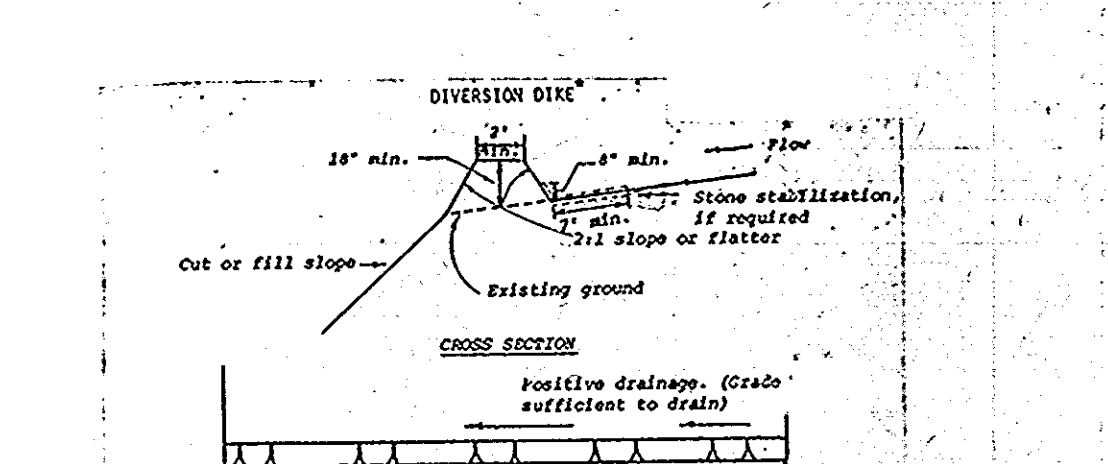
**RIP-RAP OUTLET PROTECTION**



1. All trees, brush, stumps, obstructions, and other objectionable material shall be removed and disposed of so as not to interfere with the proper functioning of the site.
2. The male shall be constructed or shaped to line, grade, and cross section as required to meet the criteria specified herein and be free of bank projections or other irregularities which will impede normal flow.
3. Fills shall be compacted as needed to prevent unequal settlement that would cause damage in the complete male.
4. All earth removed and not needed in construction shall be spread or disposed of so that it will not interfere with the functioning of the male.
5. Interceptor males shall have a minimum grade of one percent and the bottom shall be level.
6. An interceptor male shall have an outlet that functions with a minimum of erosion.
7. Runoff shall be conveyed to a sediment trapping device such as a sediment trap or sediment basin.
8. The orifice location may need to be adjusted to meet field conditions in order to utilize the most suitable outlet.
9. Stabilization shall be (1) in accordance with the Standard and Specifications for Grassed Waterway; or (2) by installing the flow area with stone that meets MSHA size No. 2 or ASTM 953 and is placed in a layer at least 3 inches in thickness and pressed into the soil. The lining shall extend across the bottom and up both sides of the channel a height of at least 8 inches vertically above the bottom.
10. Periodic inspection and required maintenance shall be provided.



1. All fences shall be machine compacted.
2. A. Diversion dikes shall have positive drainage to an outlet. B. Diverted runoff from a protected or stabilized area shall outlet directly to another protected or stabilized area or into a level spreader or grade stabilization structure.
3. Diversion dikes from a disturbed or exposed upland area shall be conveyed to a sediment trapping device such as a sediment trap or a sediment basin or to an area protected by any of these practices.
4. Stabilization, as specified by the plans, shall be: (1) in accordance with Standard and Specifications for Grassed Waterway, and the area to be stabilized shall be the channel (flow area); or (2) the flow area shall be lined with stone that meets MSHA size No. 2 or ASTM 953 and is placed in a layer at least 3 inches thick and pressed into the soil. The area covered by the stone shall be as shown on the drawings above.
5. Periodic inspection and required maintenance shall be provided.



1. All dikes shall be machine compacted.
2. A. Diversion dikes shall have positive drainage to an outlet. B. Diverted runoff from a protected or stabilized area shall outlet directly to another protected or stabilized area or into a level spreader or grade stabilization structure.
3. Diversion dikes from a disturbed or exposed upland area shall be conveyed to a sediment trapping device such as a sediment trap or a sediment basin or to an area protected by any of these practices.
4. Stabilization, as specified by the plans, shall be: (1) in accordance with Standard and Specifications for Grassed Waterway, and the area to be stabilized shall be the channel (flow area); or (2) the flow area shall be lined with stone that meets MSHA size No. 2 or ASTM 953 and is placed in a layer at least 3 inches thick and pressed into the soil. The area covered by the stone shall be as shown on the drawings above.
5. Periodic inspection and required maintenance shall be provided.