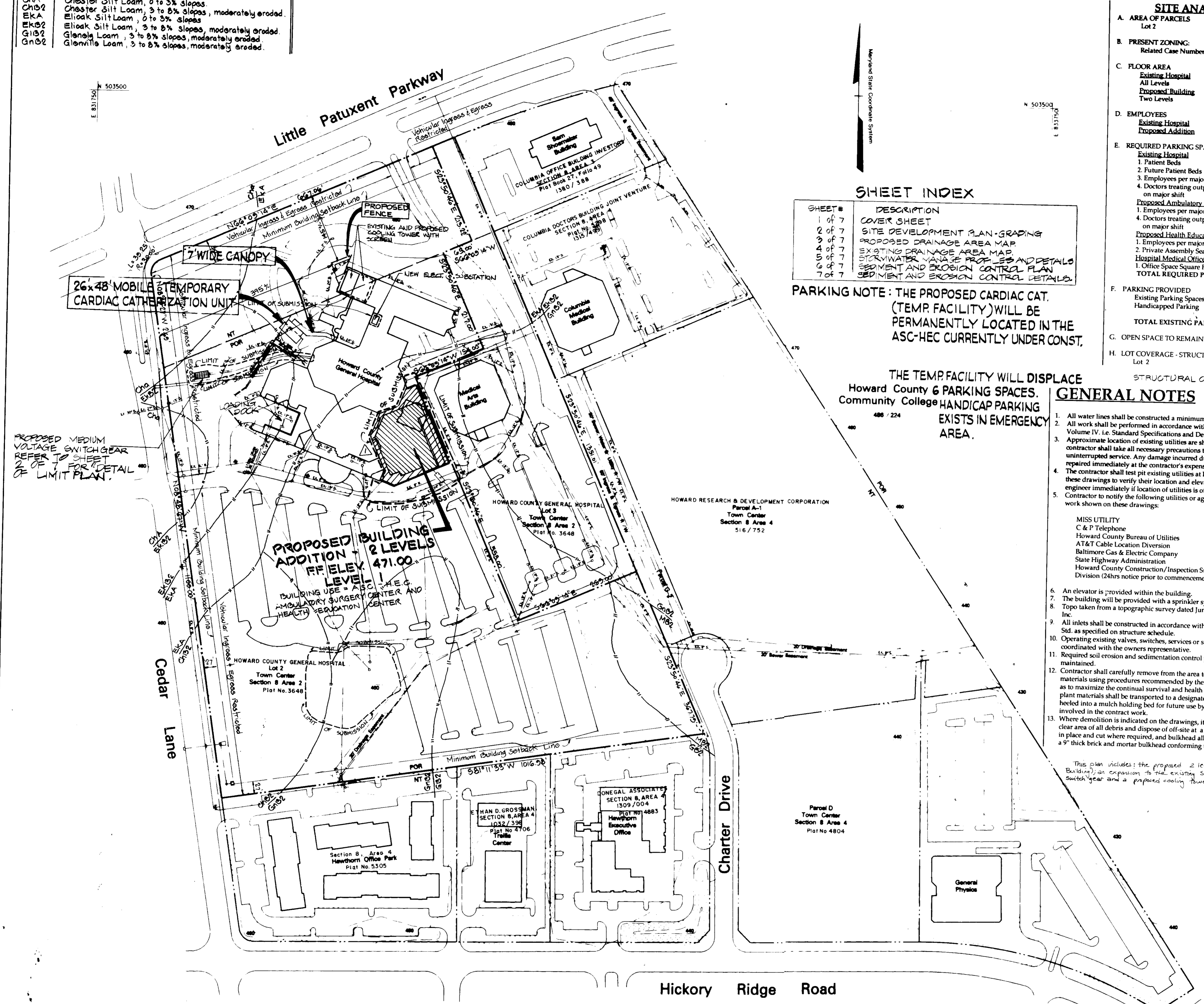


SOILS CLASSIFICATION

ChA	Chester Silt Loam, 0 to 3% slopes.
ChB2	Chester Silt Loam, 3 to 8% slopes, moderately eroded.
EKs2	Elkton Silt Loam, 0 to 3% slopes
G1s2	Glenora Silt Loam, 3 to 8% slopes, moderately eroded.
GnB2	Glenville Loam, 3 to 8% slopes, moderately eroded.



PROPOSED MEDIUM VOLTAGE SWITCH GEAR REFER TO SHEET 2 OF LIMIT PLAN.

SHEET INDEX

SHEET #	DESCRIPTION
1 of 7	COVER SHEET
2 of 7	SITE DEVELOPMENT PLAN - GRADING
3 of 7	PROPOSED DRAINAGE AREA MAP
4 of 7	EXISTING DRAINAGE AREA MAP
5 of 7	STORMWATER MANAGEMENT PROFILES AND DETAILS
6 of 7	SEDIMENT AND EROSION CONTROL PLAN
7 of 7	SEDIMENT AND EROSION CONTROL DETAILS

PARKING NOTE: THE PROPOSED CARDIAC CAT. (TEMP. FACILITY) WILL BE PERMANENTLY LOCATED IN THE ASC-HEC CURRENTLY UNDER CONST.

THE TEMP FACILITY WILL DISPLACE HOWARD COUNTY 6 PARKING SPACES. COMMUNITY COLLEGE HANDICAP PARKING EXISTS IN EMERGENCY AREA.

SITE ANALYSIS

A. AREA OF PARCELS
Lot 2 854,037 S.F. 19.606 Acres

B. PRESENT ZONING: Lot 2 (NT/POR)
Related Case Numbers - SDP-86-207, FDP-83, SDP-85-17, F-76-101, SDP-86-269, S-90-32, PB 266

C. FLOOR AREA
Existing Hospital All Levels 184,225 S.F.
Proposed Building Two Levels 38,000 S.F. Δ

D. EMPLOYEES
Existing Hospital 350
Proposed Addition 55

E. REQUIRED PARKING SPACES
Existing Hospital
1. Patient Beds 204 (1 per 2 beds) 102
2. Future Patient Beds 36 (1 per 2 beds) 18
3. Employees per major shift 350 (1 per employee) 350
4. Doctors treating outpatients 4 (4 per Doctor) 16
Proposed Ambulatory Surgery Center
1. Employees per major shift 49 (1 per employee) 49
4. Doctors treating outpatients 4 (4 per Doctor) 16
Proposed Health Education Center
1. Employees per major shift 2 (1 per employee) 2
2. Private Assembly Seating 225 (1 per 6 seats) 40
Hospital Medical Offices
1. Office Space Square Footage 5,000 (5 per 1000 Sq. Ft.) 25
TOTAL REQUIRED PARKING SPACES 671 Δ

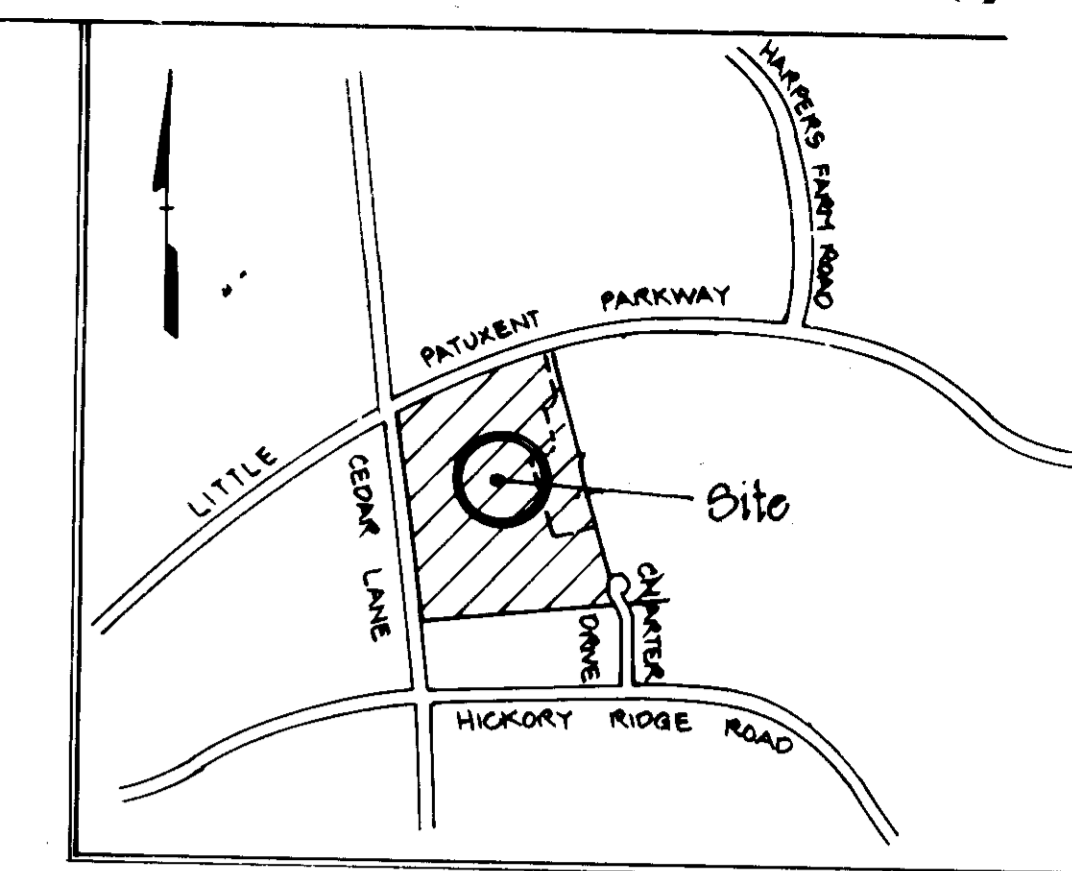
F. PARKING PROVIDED
Existing Parking Spaces 671
Handicapped Parking 41
TOTAL EXISTING PARKING SPACES 712

G. OPEN SPACE TO REMAIN ON SITE: Lot 2 10,375 Ac. / 92% of site

H. LOT COVERAGE - STRUCTURE
Existing Hospital 62,485 S.F.
New Building 13,850 S.F.
STRUCTURAL COVERAGE = 3.9% Δ

- GENERAL NOTES**
- All water lines shall be constructed a minimum of 42" cover below finished grade.
 - All work shall be performed in accordance with the Howard County Design Manual, Volume IV, i.e. Standard Specifications and Details for Construction, 1990 Amendments.
 - Approximate location of existing utilities are shown from best available information. The contractor shall take all necessary precautions to protect the existing utilities and maintain uninterrupted service. Any damage incurred due to contractor's operation shall be repaired immediately at the contractor's expense.
 - The contractor shall test pit existing utilities at least (5) days before starting work shown on these drawings to verify their location and elevation. The contractor shall notify the engineer immediately if location of utilities is other than shown.
 - Contractor to notify the following utilities or agencies at least five days before starting work shown on these drawings:
MISS UTILITY 1-800-257-7777
C & P Telephone 725-9976
Howard County Bureau of Utilities 313-4900
AT&T Cable Location Diversion 393-3553
Baltimore Gas & Electric Company 685-0123
State Highway Administration 531-5533
Howard County Construction/Inspection Survey 792-7272
 - An elevator is provided within the building.
 - The building will be provided with a sprinkler system.
 - Topo taken from a topographic survey dated June 28, 1986 by Fisher, Collins and Carter, Inc.
 - All inlets shall be constructed in accordance with Howard County Standards or MSHA Std. as specified on structure schedule.
 - Operating existing valves, switches, services or start up of new services shall be coordinated with the owners representative.
 - Required soil erosion and sedimentation control plans shall be provided, installed and maintained.
 - Contractor shall carefully remove from the area to be disturbed all trees, shrubs and plant materials using procedures recommended by the American Nurseryman's Association so as to maximize the continual survival and health of the materials. These trees, shrubs and plant materials shall be transported to a designated location on the hospital property and heeled into a mulch holding bed for future use by the hospital in locations other than those involved in the contract work.
 - Where demolition is indicated on the drawings, it means to completely demolish feature, clear area of all debris and dispose of off-site at a legal dumpsite. Abandon means to leave in place and cut where required, and bulkhead all cut ends with a plug or cap or construct a 9" thick brick and mortar bulkhead conforming to existing utility materials.

This plan includes: the proposed 2 level building addition (west of the Medical Arts Building), an expansion to the existing SWM ponds, the addition of a medium voltage switch gear and a proposed cooling tower with accessories.



LOCATION MAP
Scale: 1" = 1000'
ELEVATIONS HEREON ARE BASED ON THE GRID MERIDIAN OF THE MARYLAND COORDINATE SYSTEM AND DERIVED FROM THE FOLLOWING HOWARD COUNTY CONTROL SYSTEM: 2639003 3/4" IRON BAR ELEV. = 479.559

SUBDIVISION NAME	SEC./AREA	LOT PARCEL
HOWARD COUNTY GENERAL HOSPITAL, INC.	8/2	2 / 276
PLAT OR L/F/BLOCK #	TAX MAP/ELEC. DIST.	CENSUS TRACT
3648 5	POR/NT 35 5	6083.02
WATER CODE 106	SEWER CODE 5522500	
ADDRESS CHART		
LOT 2	5755 CEDAR LANE	COLUMBIA, MD. 21044

- BM #1 Grid point No. B-3: A PK Nail in the Bituminous Concrete Paving Driveway Entrance. ELEV. 474.73. 1929 U.S.C.G.S. General Datum
- BM #2 Grid point No. F-3: A PK Nail in the Bituminous Concrete Paving Doctors' Parking Lot West of the Main Building. ELEV. 470.44. 1929 U.S.C.G.S. General Datum.
- BM #3 Square cut in top of Southeast Corner of Concrete Pedestal Light Base Main Parking Lot Southeast Section. ELEV. 463.79. 1929 U.S.C.G.S. General Datum.
- REFERENCE: S90-32, AA-90-09, WP-90-106, BA-90-36V, SDP-86-269, SDP-86-207, SDP-85-17, FDP-83, F-76-101, F-91-65, SDP-90-190

9-1-95 Δ ADD PSYCH. UNIT PATIO FENCE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT
Jane M. ... 1/4/94
COUNTY HEALTH OFFICER DATE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC RECORDS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
... 12/30/93
DIRECTOR DATE

APPROVED: HOWARD COUNTY DEPT. OF PLANNING AND ZONING
... 1/18/94
CHIEF DIVISION OF COMMUNITY PLANNING & RESEARCH DATE

Date	No.	Revision Description
5-1-95	Δ	TO ADD TEMP CARDIAC CAT. UNIT
8-3-94	Δ	TO REVISE BUILDING FOOTPRINT AND ADJUST SITE ANALYSIS

ASC - HEC

OWNER / DEVELOPER
HOWARD COUNTY GENERAL HOSPITAL, INC.
5755 Cedar Lane Columbia, MD. 21044

DMW
Daft · McCune · Walker, Inc.
A Team of Land Planners, Landscape Architects, Engineers, Surveyors & Environmental Professionals
200 East Pennsylvania Avenue
Towson, Maryland 21286
410 296 3333
Fax 296 4705

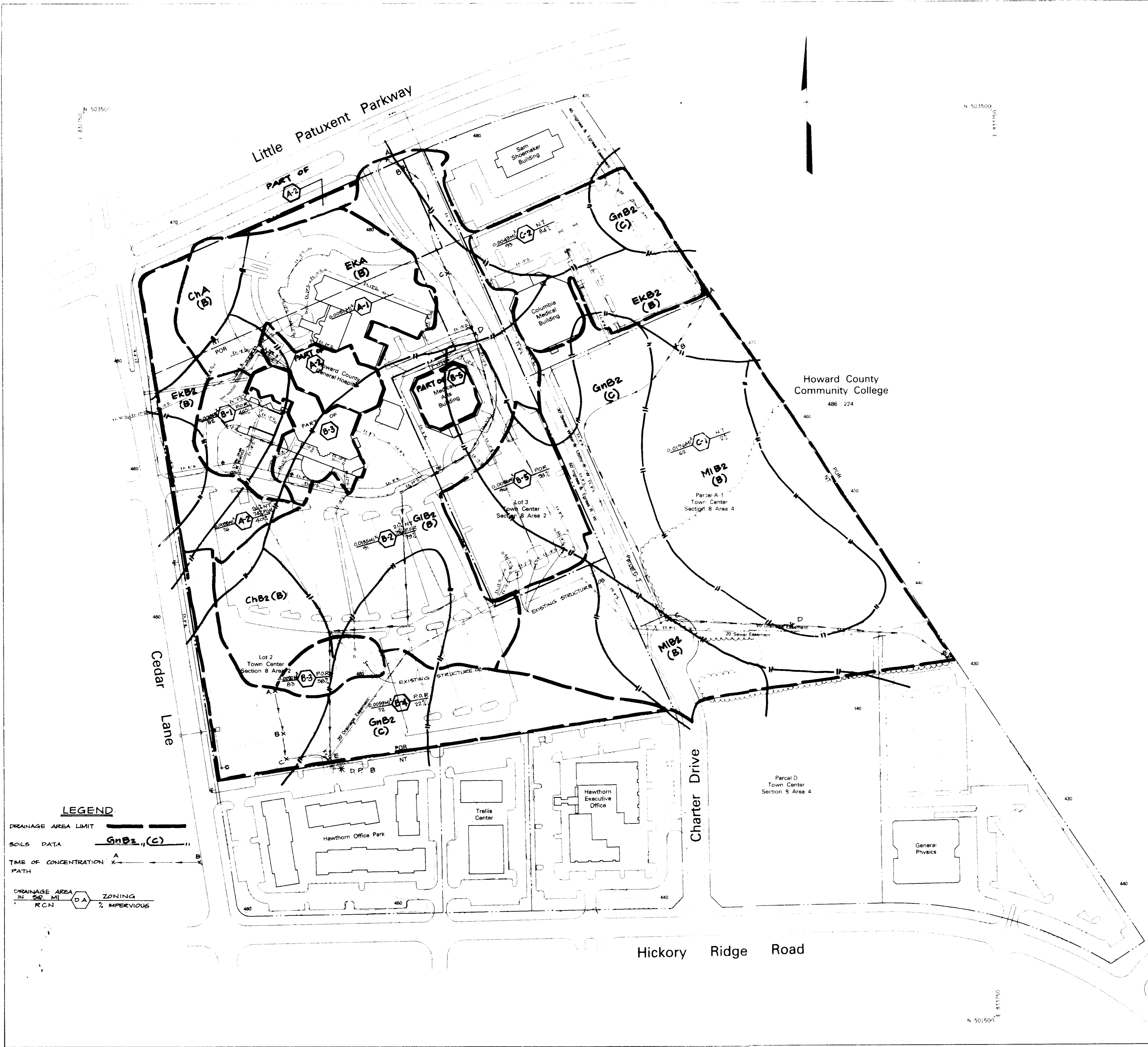
HOWARD COUNTY GENERAL HOSPITAL, INC.
TOWN CENTER SECTION 8, AREA 2
TAX MAP 35 LOT 3 / PARCEL 276
5TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND

TITLE
COVER SHEET
SITE DEVELOPMENT PLAN

Des By T.P.D. Scale 1" = 100' Proj. No. 80019-K1
Dwn By T.P.D. Date 6/25/93
Chk By M.W.F./T.H.R. Approved 1 OF 7

11/23/93
Date

Professional Engr. No.



LEGEND

DRAINAGE AREA LIMIT

SOILS DATA GNB2 (C)

TIME OF CONCENTRATION PATH

DRAINAGE AREA IN 50 MI RCN ZONING % IMPERVIOUS

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS,
HOWARD COUNTY HEALTH DEPARTMENT
James M. Boydland 1/4/94
COUNTY HEALTH OFFICER DATE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE
STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
James G. ... 1/30/93
DIRECTOR DATE

David ... 12/30/93
CHIEF BUREAU OF ENGINEERING DATE

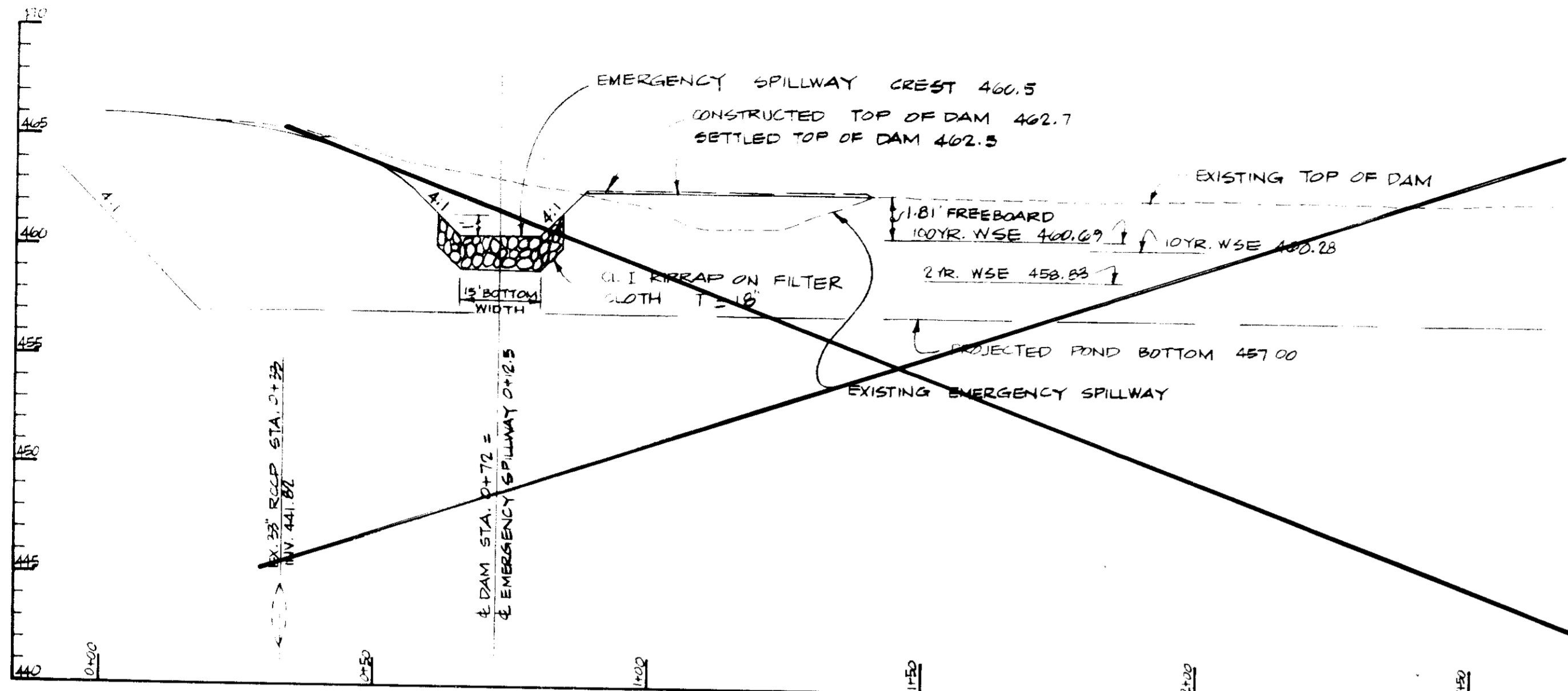
APPROVED: HOWARD COUNTY DEPT. OF PLANNING AND ZONING
John ... 1/10/94
CHIEF DIVISION OF COMMUNITY PLANNING AND RESEARCH DATE

Date	No.	Revision Description
		ASC-HEC
		OWNER / DEVELOPER
		HOWARD COUNTY GENERAL HOSPITAL, INC. 5755 CEDAR LANE COLUMBIA, MARYLAND 21044
		DMW Daft · McCune · Walker, Inc. A Team of Land Planners, Landscape Architects, Engineers, Surveyors & Environmental Professionals
		HOWARD COUNTY GENERAL HOSPITAL, INC. TOWN CENTER SECTION 8 AREA 2 TAX MAP 35 LOT 2 / PARCEL 276 5TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
		TITLE PRAINAGE AREA MAP EXISTING CONDITION STORMWATER MANAGEMENT PLAN
Des By	JMG	Scale 1" = 100'
Drn By	DBS	Date
Chk By	EIS	Approved
Proj. No.	99015 KI	4 OF 7

11/15/93
Date

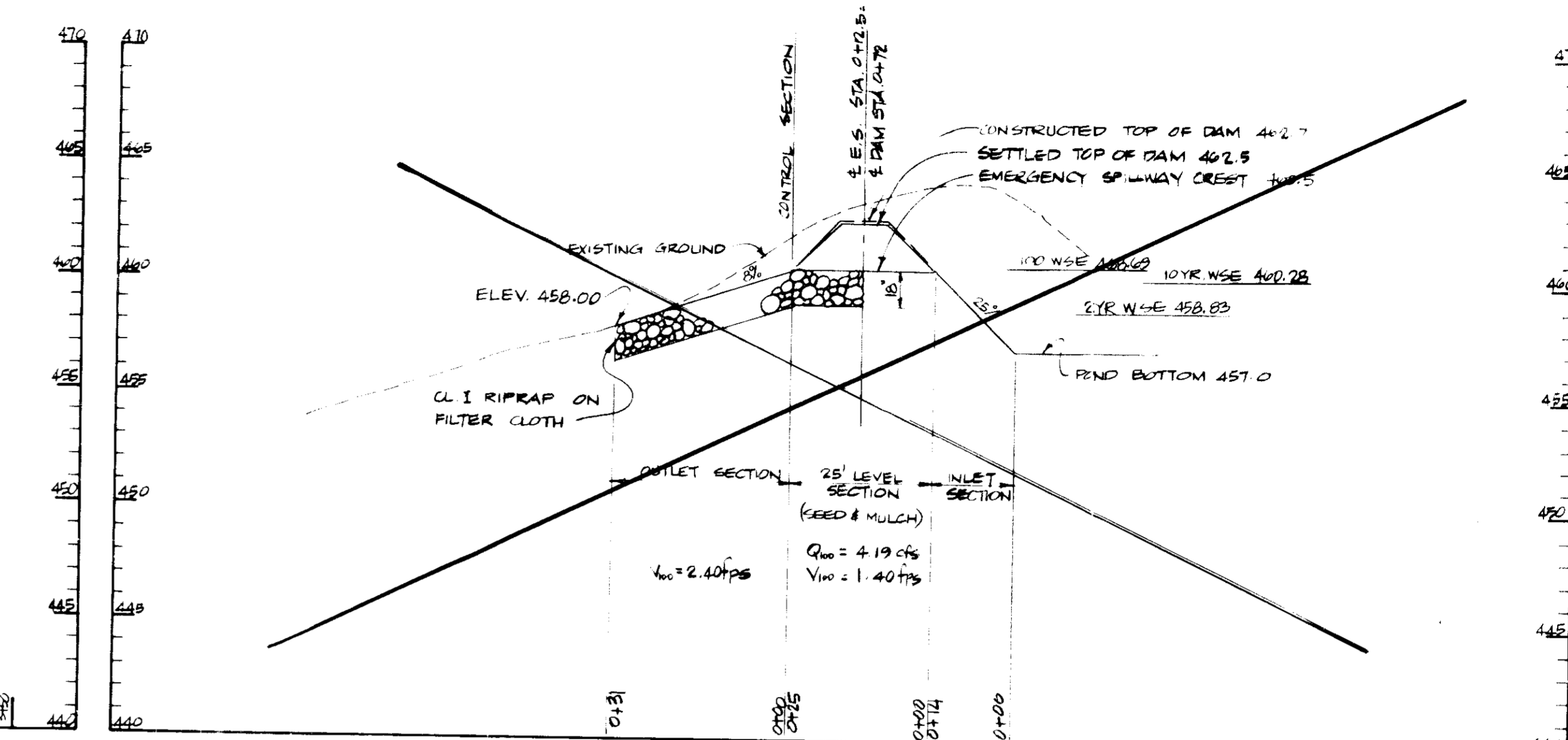
Professional Engr. No. 16580

SOP-94-04



PROFILE ALONG & DAM

SCALE HORIZ 1" = 20'
VERT 1" = 5'

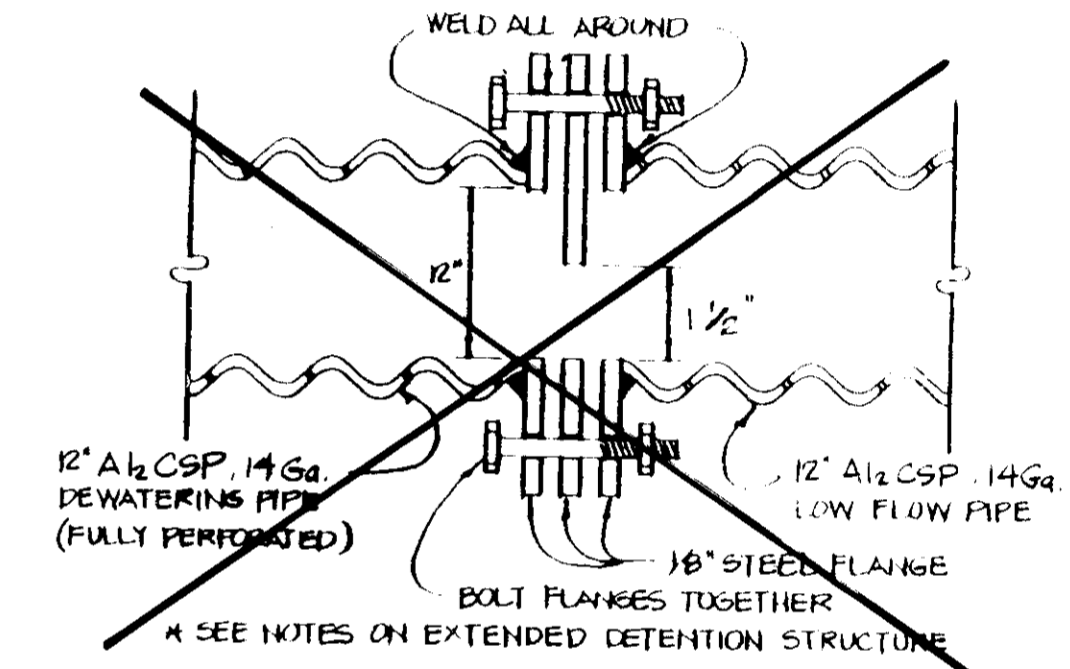


PROFILE ALONG & EMERGENCY SPILLWAY

SCALE HORIZ 1" = 20'
VERT 1" = 5'

CONSTRUCTION SPECIFICATIONS

- GENERAL**
All stormwater management facilities shall be constructed in accordance with Howard County's "Design Manual, Volume I - Storm Drainage (1990)" and the S.C.S. Maryland "Standard and Specifications for Ponds" (MD-378, 1992).
These specifications are appropriate to all ponds within the scope of the Standard Practice MD-378. All references to ASTM and AASHTO specifications apply to the most recent version.
- SITE PREPARATION**
Areas designated for borrow areas, embankment, and structural works shall be cleared, grubbed and stripped of topsoil. All trees, vegetation, roots and other objectionable material shall be removed. Channel banks and 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, fence 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 a suitable location for use on the embankment and other designated areas.
- EARTH FILL**
MATERIAL The fill material shall be taken from approved designated borrow areas. It shall be free of roots, stumps, wood, rubbish, stones greater than 4" (rocks 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 not less than one tread track of the equipment or compaction shall be achieved by a minimum of four complete passes of a sheepsfoot, rubber tired or vibratory roller. Fill material shall contain sufficient moisture such that the required degree of compaction will be obtained with the equipment used. The fill material shall contain sufficient moisture so that if formed into a ball it will not crumble yet not be so wet that water can be squeezed out.
All compaction is to be not less than 95 percent of the maximum dry density as determined by AASHTO Specification T-99 (Standard Proctor) with a moisture content within ± 2 percent of 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.
- STRUCTURAL BACKFILL**
Backfill adjacent to pipes or structures shall be of the type and quality conforming to that specified for the adjoining fill material. The fill shall be placed in horizontal layers not to exceed 4 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 4 feet, measured horizontally, to any part of a concrete structure or pipe, unless there is a compacted fill of 24 inches or greater over the structure or pipe.
REMOVAL AND REPLACEMENT OF DEFECTIVE FILL
Fill placed at densities lower than specified minimum density or at moisture contents outside the specified acceptable range of moisture content or otherwise not conforming to the requirements of the specifications shall be removed to meet the requirements of removed and replaced by acceptable fill. The bottom of such excavations shall be finished flat or gently curving and at the side of such excavations the adjacent sound fill shall be trimmed to a slope not steeper than 3 feet horizontally to 1 foot vertically extending from the bottom of the excavation to the fill surface.
- ROCK RIP-RAP**
Rock riprap shall meet the requirements of Maryland Department of Transportation, State Highway Administration Standard Specifications for Construction and Materials, Section 905.
The rip-rap shall be placed to the required thickness in one operation. The rock shall be delivered and placed in a manner that will insure the rip-rap 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 rip rap 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 filled shall be maintained below the bottom of the excavation at such locations which may require draining the water to sumps from which the water shall be pumped.
- STABILIZATION**
All borrow areas shall be graded to provide proper drainage and left in a sightly 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.
All disturbed areas shall be controlled by an Erosion and Sediment Control Plan which has been approved by the Howard County Soil Conservation District (HCS.C.D.).
- SEEDING**
Seeding, fertilizing and mulching shall be as follows:
Seed Mix: 90% Forage Tall Fescue, 10% Kentucky Bluegrass, Applied at a rate of 300 lbs. per acre.
Lime: 2 tons/acre Dolomitic Limestone.
Fertilizer: 600 lbs./acre 10-10-10 fertilizer before seeding, 400 lbs./acre 30-0-0 ureaform fertilizer at time of seeding.
Mulch: Straw at 4,000 lbs. per acre.
Anchoring: Mulching tool or emulsified asphalt binder at a rate of 8 gal. per 1,000 square feet.
- FILTER CLOTH**
All filter cloth shall conform to Mirfil 140N, Dupont Tyvar 3341 or 3401, Supac 5P or approved equal.
- CONSTRUCTION INSPECTION BY DESIGNATED ENGINEERS**
The construction of the pond and embankment, and certification that the pond and embankment have been built in accordance with the plans shall be under the supervision of a Registered Professional Engineer. The Engineer shall be notified sufficiently in advance of construction in order that arrangements can be made for (1) inspection of pipe trench and bedding, (2) inspection of riser and anti-seep collars and (3) supervision of embankment construction and compaction testing. The Engineer shall direct the handling of water during construction, minor changes not affecting the integrity of the dam in order to compensate for unusual soil conditions, and the removal and replacement of defective fill.

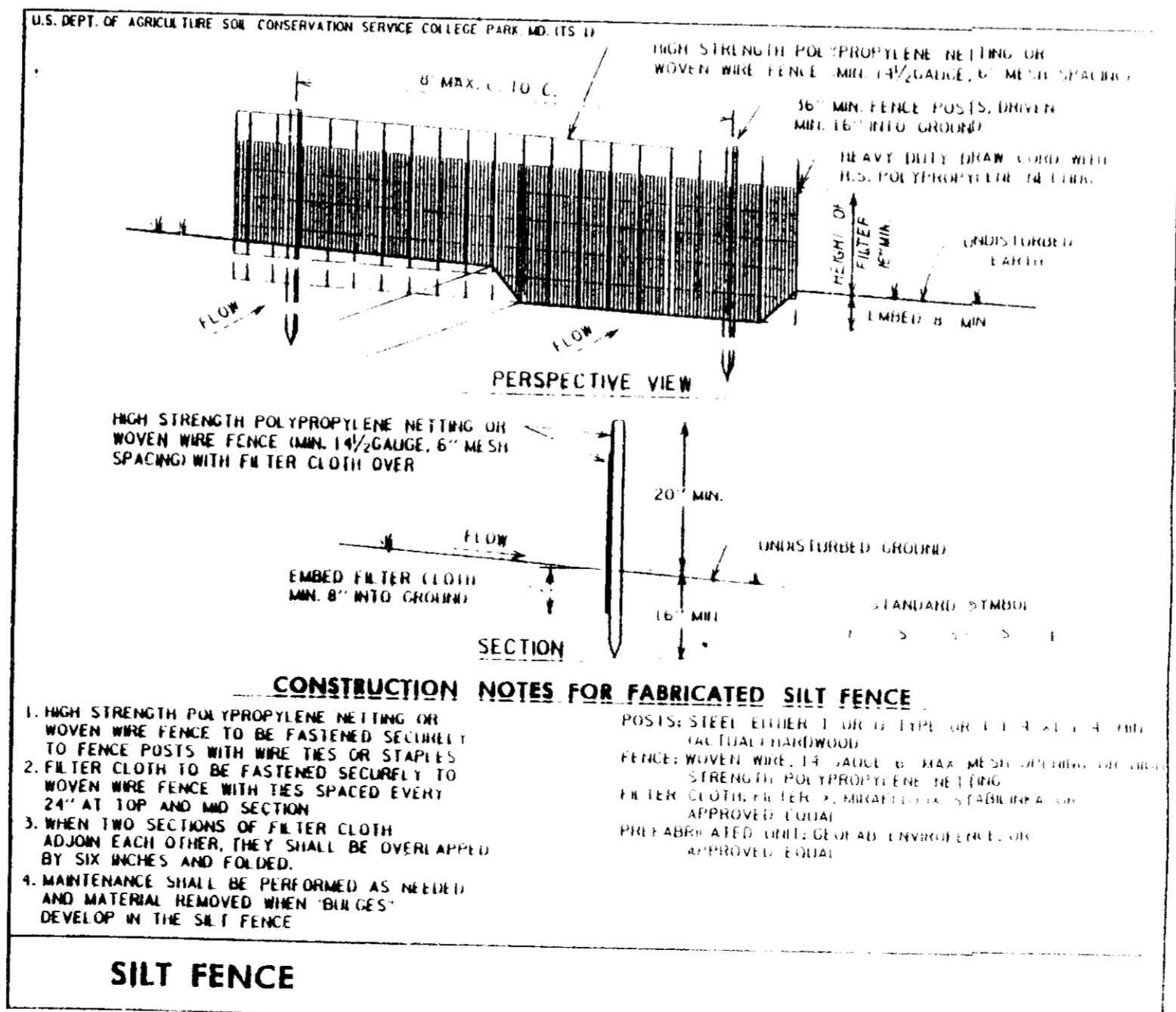


WELDING DETAIL

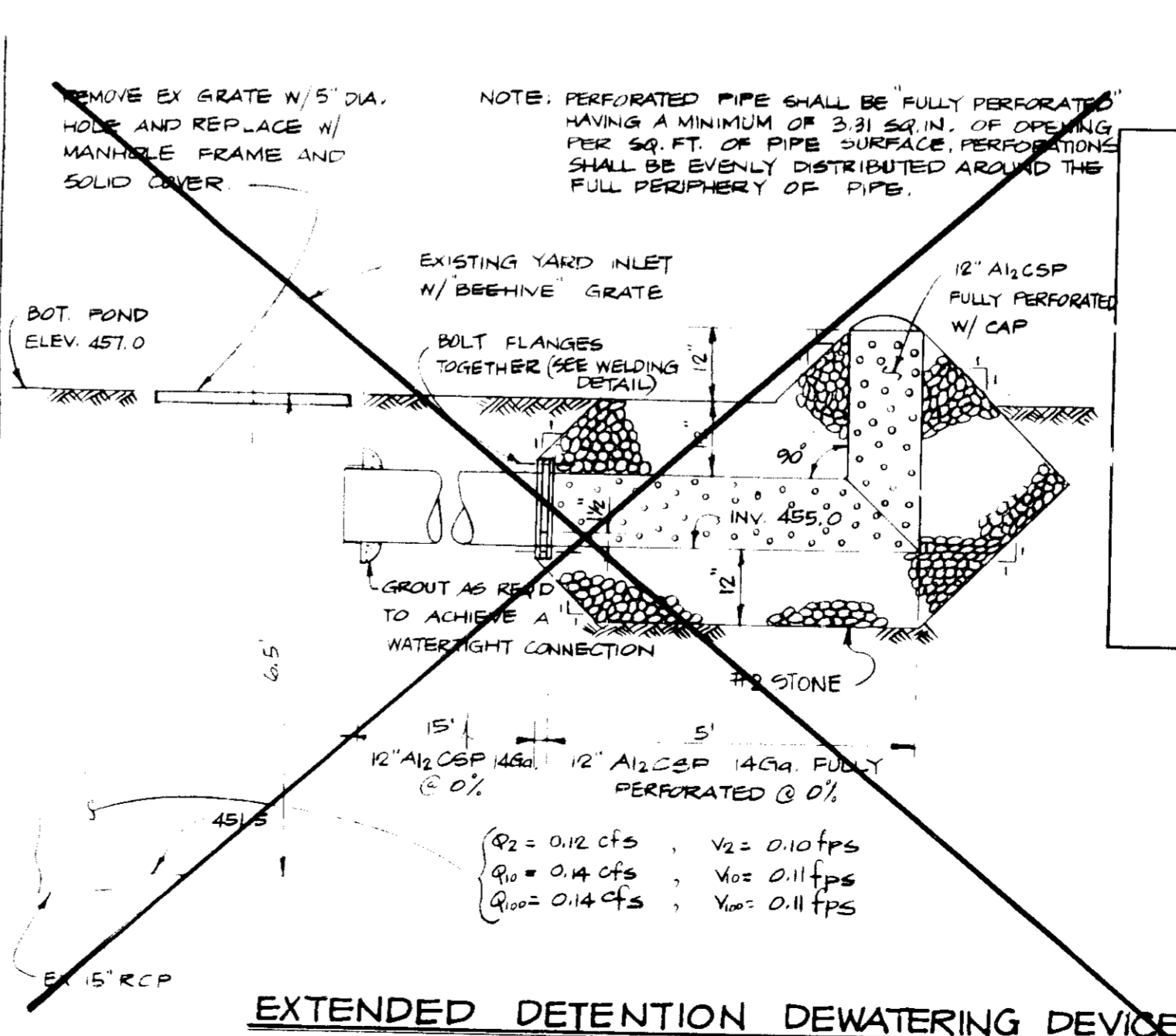
NO SCALE

THE STORMWATER MANAGEMENT FACILITY SHOWN ON THIS SHEET HAS BEEN SUPERSEDED BY SDP 95-114. CONSTRUCTION OF THE EXTENDED DETENTION POND STRUCTURE IS TO BE COMPLETED PER SDP 95-114.

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT	
<i>[Signature]</i> COUNTY HEALTH OFFICER	1/4/94 DATE
APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS	
<i>[Signature]</i> DIRECTOR	6/20/93 DATE
APPROVED: HOWARD COUNTY DEPT. OF PLANNING AND ZONING	
<i>[Signature]</i> CHIEF DIVISION OF COMMUNITY PLANNING & RESEARCH	1/16/94 DATE



SILT FENCE



EXTENDED DETENTION DEWATERING DEVICE

Professional Engr. No. 16580
Date: 1/13/93

02-06-94	REMOVE SWM POND 02 FROM CONTRACT	Revision Description
Date	No.	
ASC - HEC		
OWNER / DEVELOPER		
HOWARD COUNTY GENERAL HOSPITAL INC. 5755 Cedar Lane Columbia MD 21044		
DMW Daft · McCune · Walker, Inc. A Team of Land Planners, Architects, Engineers, Surveyors & Environmental Professionals 300 East Pennsylvania Avenue Annapolis, Maryland 21403 410.296.3333 410.296.4725		
AREA: HOWARD COUNTY GENERAL HOSPITAL INC. TOWN CENTER SECTION 8 AREA 3 5TH ELECTION DISTRICT OF HOWARD COUNTY, MARYLAND TAX MAP 33 LOT 27 PARCEL 276		
TITLE: STORMWATER MANAGEMENT PROFILES & DETAILS		
Des By: J.M.G.	Scale: AS SHOWN	Proj. No. 89019 KI
Drn By: D.B.S.	Date:	
Chk By: E.I.S.	Approved:	5 OF 7

TEMPORARY SEEDING NOTES

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

Seedbed Preparation: Loosen upper three inches of soil by raking, disking or other acceptable means before seeding, if not previously loosened.

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

Seeding: For the periods March 1 thru April 30, and August 15 thru October 15, seed with 2-1/2 bushel per acre of annual ryegrass (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 weed free 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 additional rates and methods not covered.

PERMANENT SEEDING NOTES

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

Seedbed Preparation: Loosen upper three inches of soil by raking, disking or other acceptable means before seeding, if not previously loosened.

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

- 1) Preferred:** Apply 2 tons per acre dolomitic limestone (92 lbs/1000 sq. ft.) and 1000 lbs. per acre 10-10-10 fertilizer (14 lbs./1000 sq.ft.) before seeding. Harrow or disk into upper three inches of soil. At time of seeding, apply 400 lbs. per acre 30-0-0 ureaform fertilizer (9 lbs./1000 sq.ft.)
- 2) 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 disk 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 sod. Option (3) - 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 applications using mulch anchoring tool or 218 gallons 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 seeding area and make needed repairs, replacements and reseeded.

SEDIMENT CONTROL LEGEND

- EXISTING CONTROLS
- - - - - LIMIT OF DISTURBANCE
- x - x - CONSTRUCTION FENCE WITH FILTER FABRIC
- [Hatched Box] STABILIZED CONSTRUCTION ENTRANCE
- [Box with IP] INLET PROTECTION

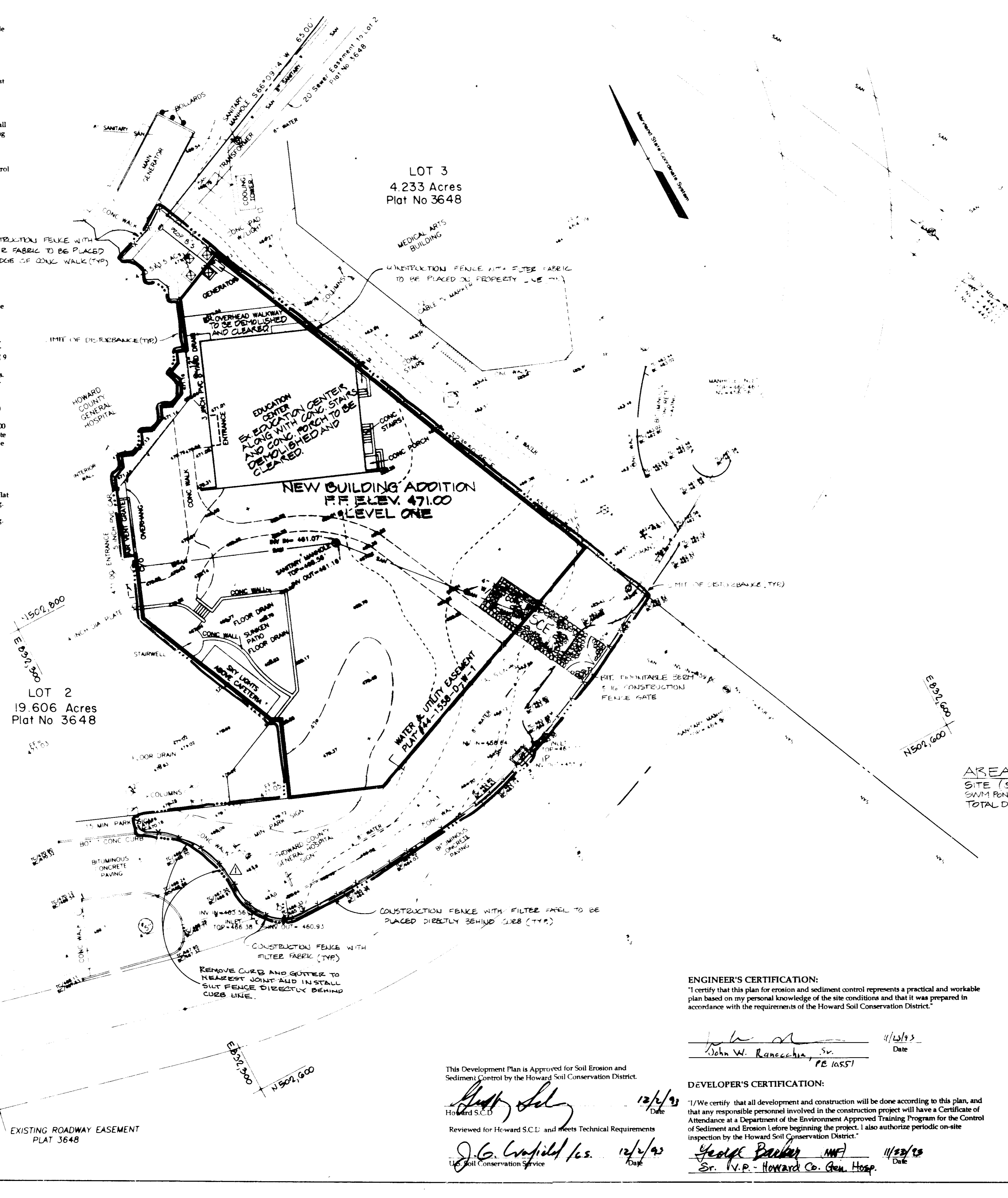
STANDARD SEDIMENT CONTROL NOTES

- A minimum of 48 hours notice must be given to the Howard County Department of Inspections, Licenses and Permits, Sediment Control Division prior to the start of any construction. (313 - 1850).
- All vegetative and structural practices are to be installed according to the provisions of this plan and are to be in conformance with the most current "MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL", and revisions thereto.
- Following initial soil disturbance or redisturbance, permanent or temporary stabilization shall be completed within a) 7 calendar days for all perimeter sediment control structures, dikes, perimeter slopes and all slopes greater than 3:1, b) 14 days as to all other disturbed or graded areas on the project site.
- All sediment traps/basins shown must be fenced and warning signs posted around their perimeter in accordance with Vol. 1, Chapter 12, of the HOWARD COUNTY DESIGN MANUAL, Storm Drainage.
- 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 seeding (Sec. 51), sod (Sec. 54), temporary seeding (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.
- 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.

SITE ANALYSIS:

Total Area of Site	19.61 Acres +/-
Area Disturbed	0.64 Acres +/-
Area to be roofed or paved	0.47 Acres +/-
Area to be vegetatively stabilized	0.17 Acres +/-
Total Cut	12,725 Cu. Yds +/-
Total Fill	0 Cu. Yds +/-
Offsite waste/borrow area location	EXCESS CUT TO BE TAKEN TO A SITE WITH AN APPROVED SEDIMENT AND EROSION CONTROL PLAN

- Sequence of Construction**
- Obtain a grading permit.
 - Notify the Howard County Office of Inspection and Permits (992-2437) a minimum of 48 hours prior to the start of any construction.
 - Clear and grub for and install sediment and erosion control measures or devices. (1 week)
 - Clear, grub, and complete demolition of existing structures. (1 month)
 - Stabilize all nonactive graded surfaces with temporary seeding. (1 day)
 - Begin building addition construction. Install utilities. (1 year)
 - With the prior permission of the Sediment Control Inspector and the Howard County Sediment Control Division, remove sediment controls. Fine grade and stabilize these areas. (3 days)



AREA DISTURBED
 SITE (SHEET 5 of 6) 0.64 AC.
 SWM POND (SHEET 3 of 6) 0.55 AC.
 TOTAL DISTURBED AREA 1.19 AC.

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.
 [Signature] COUNTY HEALTH OFFICER 11/23/93 DATE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.
 [Signature] DIRECTOR 11/23/93 DATE

APPROVED: HOWARD COUNTY DEPT. OF PLANNING AND ZONING, [Signature] CHIEF DIVISION OF COMMUNITY PLANNING & RESEARCH 11/23/93 DATE

83-94	REVISION L.O.D. AND SUT FENCE LOCATION
Date No.	Revision Description

ASC - HEC

OWNER / DEVELOPER
 HOWARD COUNTY GENERAL HOSPITAL, INC.
 5755 Cedar Lane Columbia, MD 21046

DMW
 Daft · McCune · Walker, Inc.
 A Team of Land Planners, Landscape Architects, Engineers, Surveyors & Environmental Professionals
 200 East Pennsylvania Avenue, Towson, Maryland 21286
 410 296 3333 Fax 410 296 4705

HOWARD COUNTY GENERAL HOSPITAL, INC.
 TOWN CENTER SECTION 6 AREA 2
 TAX MAP 89 LOT 3 / PARCEL 278
 5TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND

TITLE SITE DEVELOPMENT PLAN
 SEDIMENT & EROSION CONTROL PLAN

Des By CRW Scale 1" = 60' Proj. No. 88019-10
 Dwn By CRW Date 11/25/93
 Chk By EIS Approved 6 OF 7

Professional Engr. No. 16580
 SDP 94-84

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.

[Signature] 11/23/93 Date
 John W. Rancaccia, Sr. P.E. (ASST)

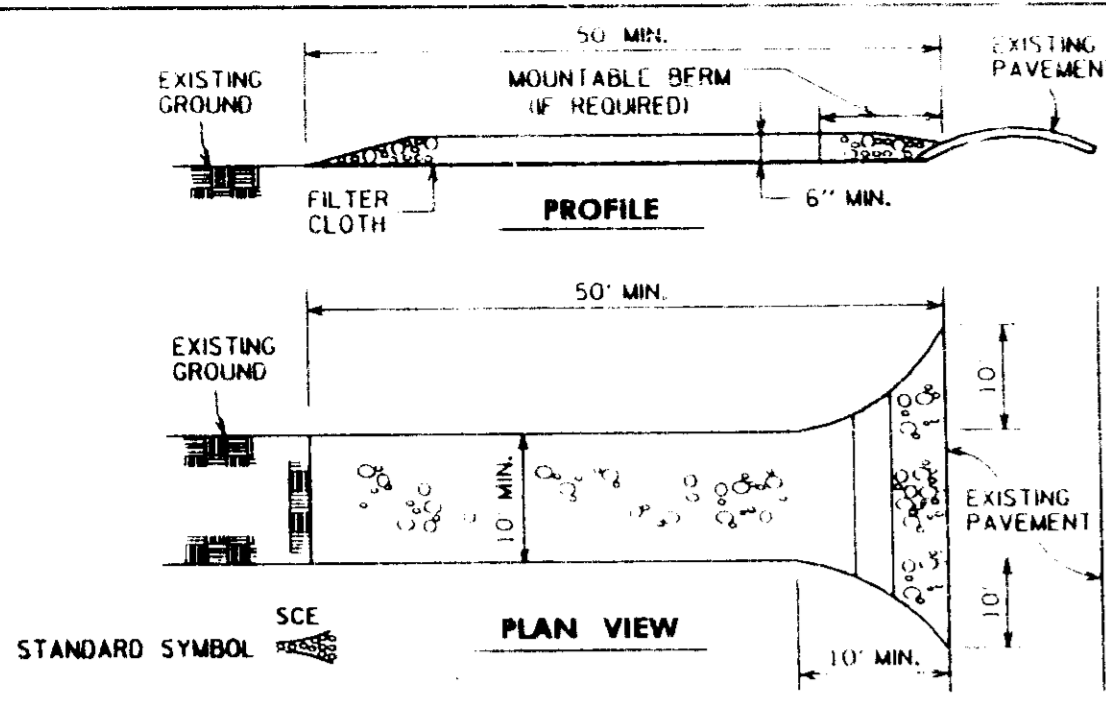
DEVELOPER'S CERTIFICATION:
 I/We certify that all development and construction will be done according to this plan, and that any responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of the Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project. I also authorize periodic on-site inspection by the Howard Soil Conservation District.

[Signature] 11/23/93 Date
 Sr. N.P. - Howard Co. Gen. Hosp.

This Development Plan is Approved for Soil Erosion and Sediment Control by the Howard Soil Conservation District.

[Signature] 12/2/93 Date
 Howard S.C.D.

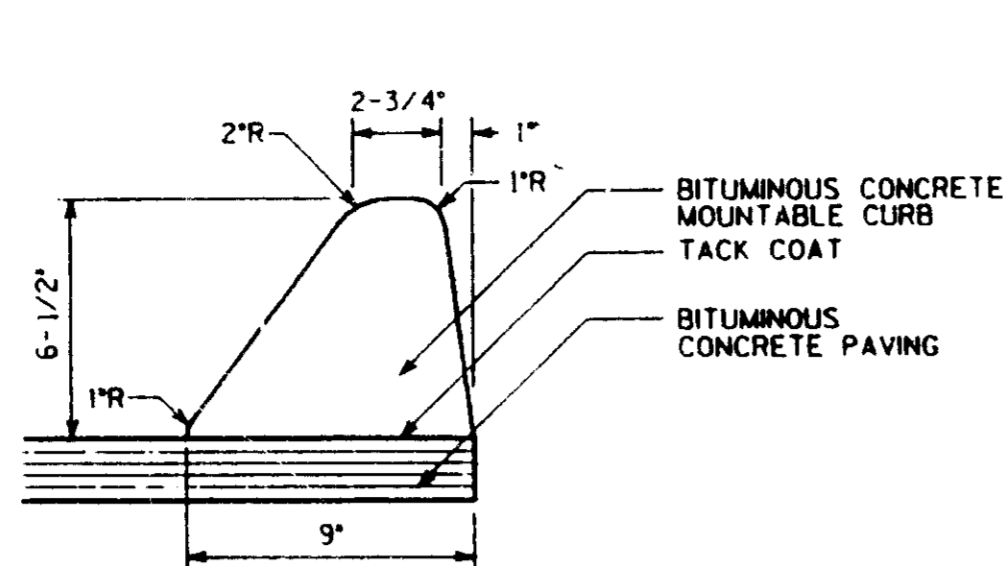
Reviewed for Howard S.C.D. and meets Technical Requirements
 [Signature] 12/2/93 Date
 J.G. Confield, P.E. Howard Soil Conservation Service



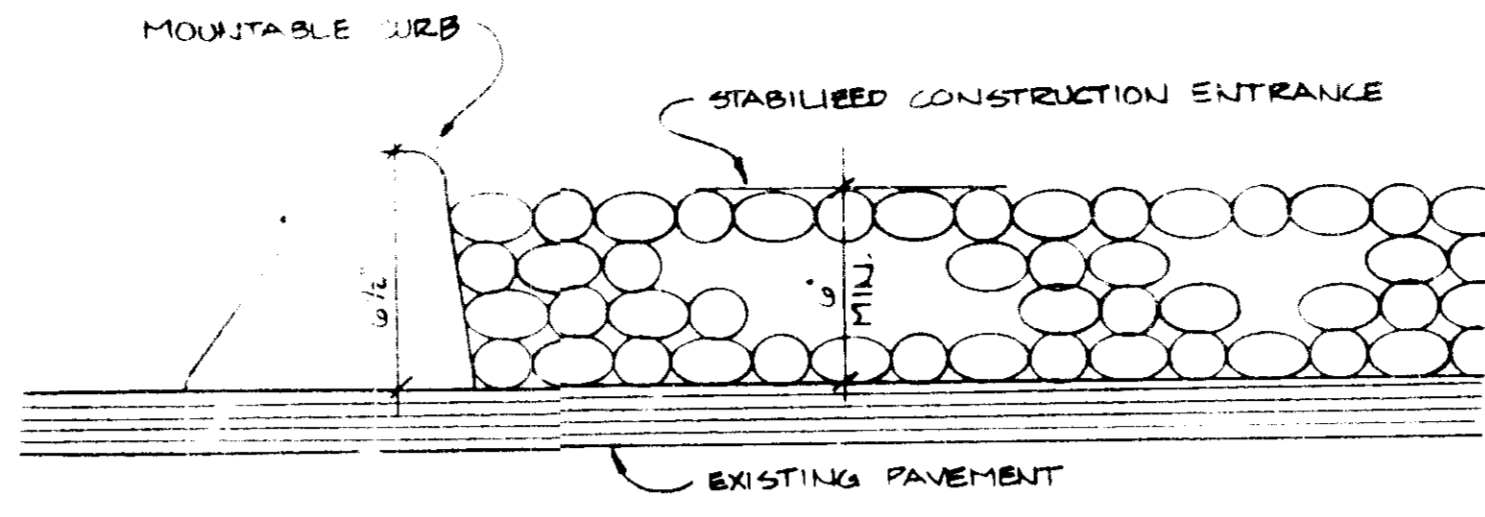
STABILIZED CONSTRUCTION ENTRANCE

CONSTRUCTION SPECIFICATIONS:

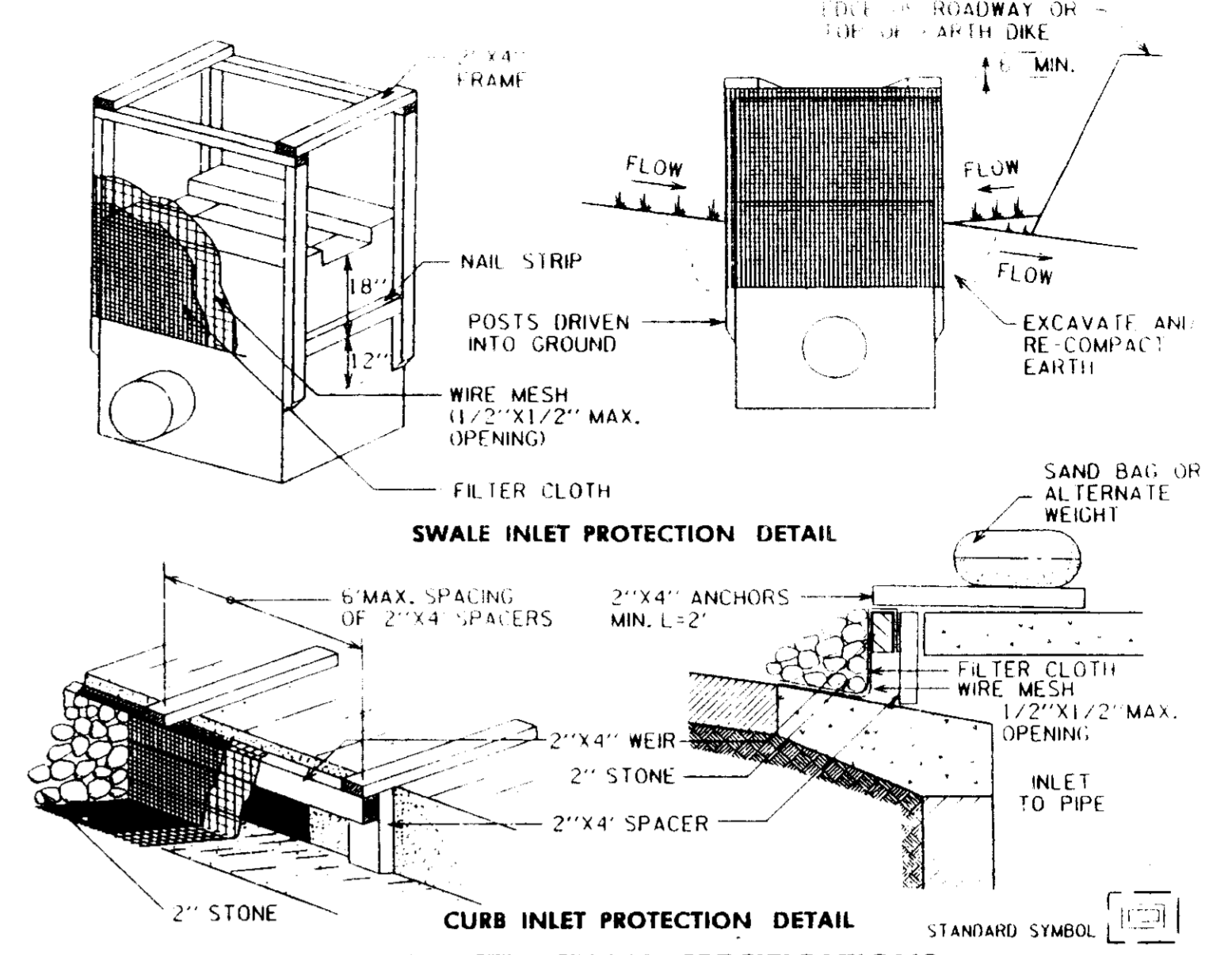
- STONE SIZE - USE 2" STONE OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
- LENGTH - AS REQUIRED BUT NOT LESS THAN 50 FEET EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30 FOOT MINIMUM LENGTH WOULD APPLY.
- THICKNESS - NOT LESS THAN 6 INCHES.
- WIDTH - TEN (10) FEET MINIMUM BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.
- FILTER CLOTH - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE. FILTER WILL NOT BE REQUIRED ON A SINGLE FAMILY RESIDENCE LOT.
- SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5% SLOPES WILL BE PERMITTED.
- MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS OF WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS OF WAY MUST BE REMOVED IMMEDIATELY.
- WASHING - WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHTS OF WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
- PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.



BIT. CONC. MOUNTABLE CURB
SCALE: 2" = 1'-0"

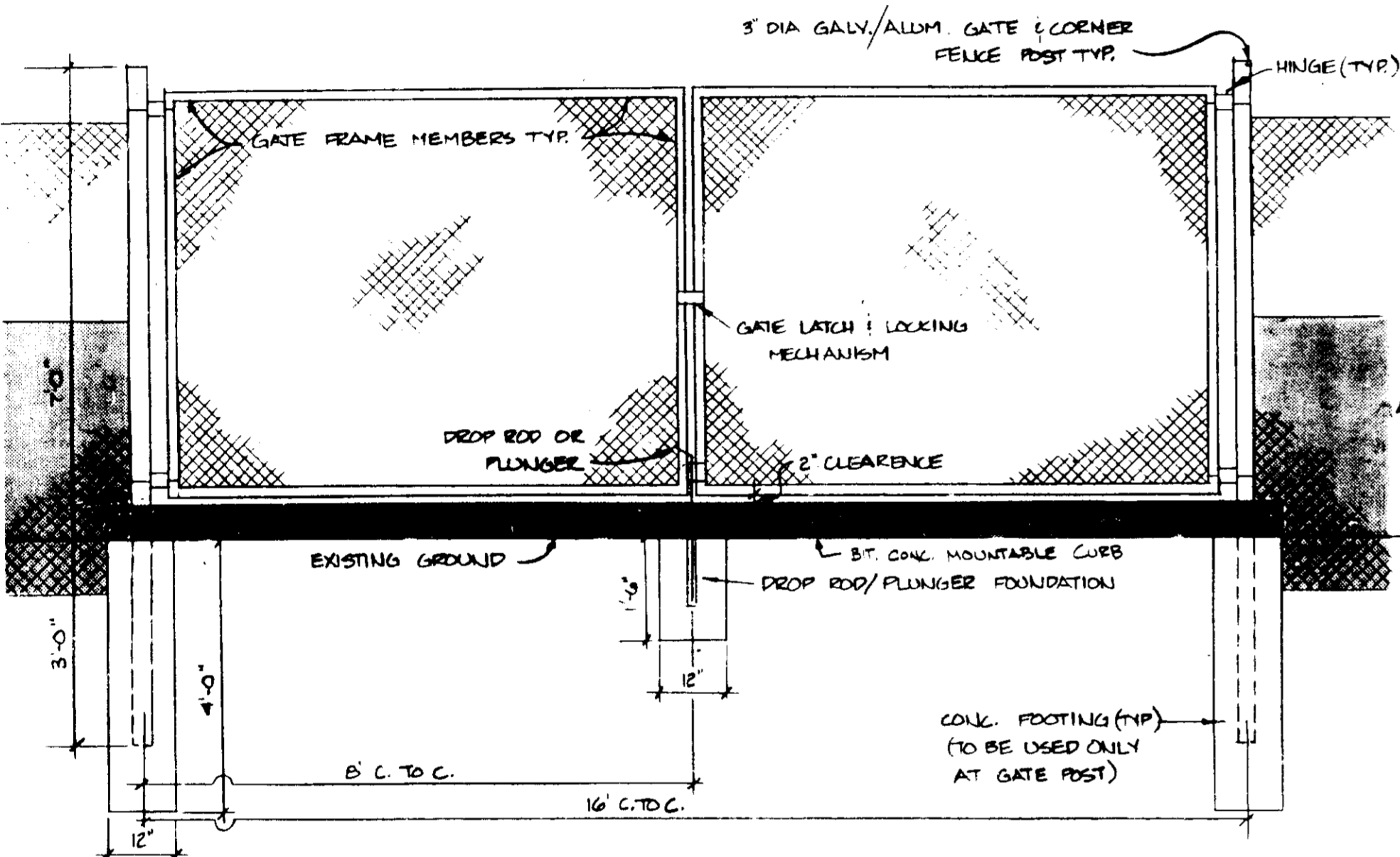


BIT. CONC. MOUNTABLE CURB & STABILIZED CONSTRUCTION ENTRANCE JUNCTURE
2" = 1'-0"

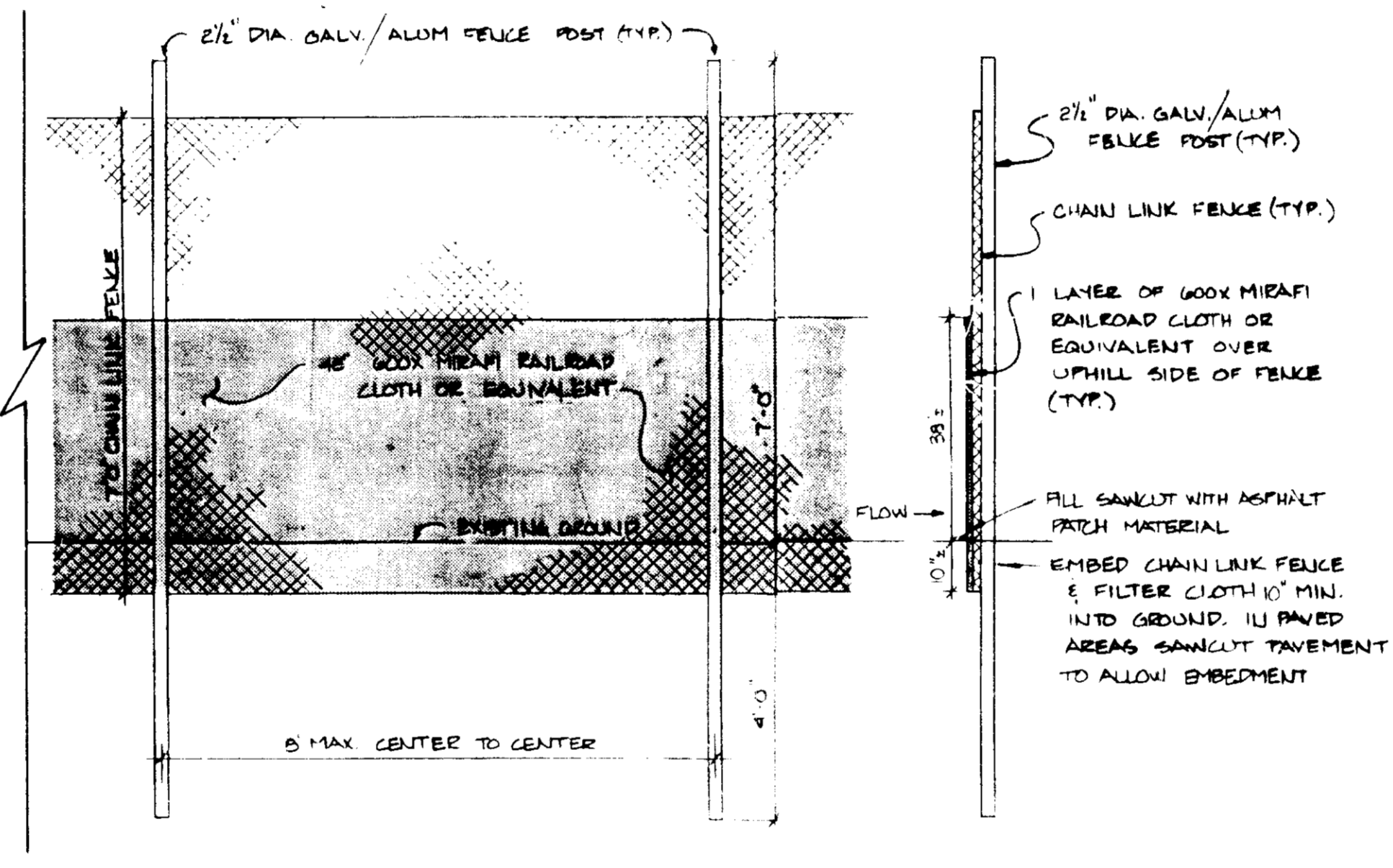


CONSTRUCTION SPECIFICATIONS

- SWALE, DITCHLINE, OR YARD INLET PROTECTION.
 - EXCAVATE COMPLETELY AROUND INLET TO A DEPTH OF 18" BELOW NOTCH ELEVATION.
 - DRIVE 2" X 4" POST INTO GROUND AT FOUR CORNERS OF INLET. PLACE NAIL STRIPS BETWEEN POSTS ON ENDS OF INLET. ASSEMBLE TOP PORTION OF 2" X 4" FRAME USING OVERLAP JOINT SHOWN.
 - STRETCH WIRE MESH TIGHTLY AROUND FRAME AND FASTEN SECURELY. ENDS MUST MEET AT POST.
 - STRETCH FILTER CLOTH TIGHTLY OVER WIRE MESH. THE CLOTH MUST EXTEND FROM TOP OF FRAME TO 18" BELOW INLET NOTCH ELEVATION. FASTEN SECURELY TO FRAME. ENDS MUST MEET AT POST, BE OVERLAPPED, AND FOLDED, THEN FASTENED DOWN.
 - BACKFILL AROUND INLET IN COMPACTED 6" LAYERS UNTIL LAYER OF EARTH IS EVEN WITH NOTCH ELEVATION ON ENDS AND TOP ELEVATION ON SIDES.
 - IF INLET IS NOT IN A LOW POINT, CONSTRUCT A COMPACTED EARTH DIKE IN THE DITCHLINE BELOW IT. THE TOP OF THIS DIKE IS TO BE AT LEAST 6" HIGHER THAN THE TOP OF THE FRAME (WEIR).
 - THIS STRUCTURE MUST BE INSPECTED FREQUENTLY AND THE FILTER FABRIC REPLACED WHEN CLOGGED.
- CURB INLET PROTECTION.
 - ATTACH A CONTINUOUS PIECE OF WIRE MESH (30" MINIMUM WIDTH BY THROAT LENGTH PLUS 4") TO THE 2" X 4" WEIR (MEASURING THROAT LENGTH PLUS 2" AS SHOWN ON THE STANDARD DRAWING).
 - PLACE A PIECE OF APPROVED FILTER CLOTH (40-85 GRADE) OF THE SAME DIMENSIONS AS THE WIRE MESH OVER THE WIRE MESH AND SECURELY ATTACH TO THE 2" X 4" WEIR.
 - SECURELY NAIL THE 2" X 4" WEIR TO 9" LONG VERTICAL SPACERS TO BE LOCATED BETWEEN THE WEIR AND INLET FACE (MAXIMUM 6" APART).
 - PLACE THE ASSEMBLY AGAINST THE INLET THROAT AND NAIL ANCHORS (MINIMUM 2" LENGTHS OF 2" X 4" TO THE TOP OF THE WEIR AT SPACER LOCATIONS. THESE 2" X 4" ANCHORS SHALL EXTEND ACROSS THE INLET TOP AND BE HELD IN PLACE BY SANDBAGS OR ALTERNATE WEIGHT.
 - THE ASSEMBLY SHALL BE PLACED SO THAT THE END SPACERS ARE A MINIMUM 1" BEYOND BOTH ENDS OF THE THROAT OPENING.
 - FORM THE WIRE MESH AND FILTER CLOTH TO THE CONCRETE CUTTER AGAINST THE FACE OF CURB ON BOTH SIDES OF THE INLET. PLACE CLEAN 2" STONE OVER THE WIRE MESH AND FILTER FABRIC IN SUCH MANNER TO PREVENT WATER FROM ENTERING THE INLET UNDER OR AROUND THE FILTER CLOTH.
 - THIS TYPE OF PROTECTION MUST BE INSPECTED FREQUENTLY AND THE FILTER CLOTH AND STONE REPLACED WHEN CLOGGED WITH SEDIMENT.
 - ASSURE THAT STORM FLOW DOES NOT BYPASS INLET BY INSTALLING TEMPORARY EARTH OR ASPHALT DIKES DIRECTING FLOW INTO INLET.



CONSTRUCTION FENCE GATE



WITH SUPER SILT FENCE

- Notes**
- Refer to specifications for material sized, types and construction requirements.
 - Refer to the specifications for footing sizes and depths.
 - Submit shop drawings for approval prior to construction.
 - Provide keeper at gates.
 - Fencing and Super Silt Fence

Fencing shall be chain link fence, height as noted in detail, constructed in accordance with the latest Maryland State Highway Administration Standard Detail 890.01 and 890.02. The specifications for a 6'-0" fence shall be used substitute 6' or 7' fabric as shown on detail and 132" posts. Posts shall be placed without concrete embedment, EXCEPT AS SHOWN IN DETAIL.

- Chain link fence to be fastened securely to fence posts with ties or staples.
- Filter cloth to be fastened securely to chain link fence with ties spaced every 24" at top of mid section.
- When two sections of filter cloth adjoin each other they shall be overlapped by 6" and folded.
- Maintenance shall be performed as needed and material removed when bulges develop in the silt fence.

CONSTRUCTION FENCE
1" = 2'

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.

John W. Rubeccia, Jr.
PE 10551
Date: 11/23/93

DEVELOPER'S 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 the Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project. I also authorize periodic on-site inspection by the Howard Soil Conservation District.

John W. Rubeccia, Jr.
Date: 11/23/93

This Development Plan is Approved for Soil Erosion and Sediment Control by the Howard Soil Conservation District.

John W. Rubeccia, Jr.
Date: 11/23/93

Reviewed for Howard S.C.D. and meets Technical Requirements

John W. Rubeccia, Jr.
Date: 11/23/93

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS,
HOWARD COUNTY HEALTH DEPARTMENT
John M. Boyd
COUNTY HEALTH OFFICER
DATE: 11/23/93

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE
STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
John M. Boyd
CHIEF BUREAU OF ENGINEERING
DATE: 11/23/93

APPROVED: HOWARD COUNTY DEPT. OF PLANNING AND ZONING
John M. Boyd
CHIEF, DIVISION OF COMMUNITY PLANNING
& RESEARCH
DATE: 11/23/93

DATE: No. Revision Description

ASC - HEC

OWNER / DEVELOPER

HOWARD COUNTY GENERAL HOSPITAL, INC.
5755 Cedar Lane Columbia, MD 21044

DMW
Daft · McCune · Walker, Inc.
A Team of Land Planners, Surveyors, Engineers, Surveyors & Environmental Professionals

HOWARD COUNTY GENERAL HOSPITAL, INC.
TOWN CENTER SECTION 8, AREA 2
TAX MAP 35 LOT 2 / PARCEL 276
5TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND

TITLE: **SITE DEVELOPMENT PLAN**
SEDIMENT & EROSION CONTROL DETAILS

Des By: CRW Scale: AS NOTED Proj. No.: 9905K1
Drn By: CRW Date: 6/25/93
Chk By: E.S. Approved 7 OF 7

