COVER SHEET SITE PLAN SITE DETAILS STORM DRAIN DRAINAGE AREA MAP UTILITY PROFILES UTILITY PROFILES SEDIMENT AND EROSION CONTROL PLAN SEDIMENT AND EROSION CONTROL DETAILS SEDIMENT AND EROSION CONTROL DETAILS SWM EXISTING DRAINAGE AREA MAP SWM PROPOSED DRAINAGE AREA MAP SWM PLAN AND DETAILS SWM PROFILES AND DETAILS 14 SWM PROFILES AND DETAILS SWM SOIL BORINGS 16 LANDSCAPE PLAN N 22*00′34* w-N 06 48'H' W --SUBJECT PARCEL Proposed Building N 530250 Sequence of Operations L Obtain all necessary permits for construction. S 50°00'00° W ---2. Notify Howard County Office of Inspections and Permits (410) 313-1855 at least 48 hours in advance of starting any construction (2 days). 3. Notify Engineer in charge of the as-built inspection at (410) 296-3333 at least 24 hours in advance of starting any construction. OVERALL PROPERTY PLAN 4. Install utility lines along temporary swale at sediment trap % and across loop road to pond, using utility outside sediment control note found on sheet 8 of 16. SCALE 1" = 200' 5. Clear and grub for and install sediment controls only, except for super silt fence at swm pond #1. Install pipe outlet to manhole Z from sediment trap #1. 14 INSTALL SUPER SILT FENCE IN SWM POND #1. 15. CONSTRUCT FOREBAY AND MAKE NECESSARY 6. With the approval of the erosion and sediment controlinspector, clear and grub remainder of site. DO NOT DISTURB SWM POND #1 AT THIS TIME. ADJUSTMENTS TO EX. 18" STORMDRAIN 7. Mass grade site and provide dust control as needed. Contractor 16 UPON COMPLETION OF POND IMPROVEMENTS, shall maintain positive drainage to Sediment Trap #2 in borrow area. FINE GRADE AND STABILIZE ALL DISTURBED NOTE: FRONT AND REAR 8. Begin building construction, install remaining utilities. Block aliproposed ELEVATIONS ARE EQUAL inlets. Stabilize all non-active graded surfaces with temporary seeding. 9. Fine grade all paved surfaces, install curb and gutter. Apply road subbase. 10. Fine grade alliawn areas and stabilize with permanent seeding. II. Complete building construction. 2. CONSTRUCT MEDIAN AT NEW ENTRANCE. \13. Pave all parking areas and driveways. 17. With the prior permission of the Sediment Controlinspector and the Howard County Sediment Control Division, remove sediment controls which convey flow to sediment traps. 18. Fine grade and stabilize area around Sediment Trap "Land adjacent" earth dikes to design contours as shown on sheet 2 of 16 of site plan. 19. Fine grade and stabilize area draining to outer sit fence. BUILDING ELEVATION 20. Remove outer silt fence. 21, install landscaping.

SHEET INDEX

DESCRIPTION

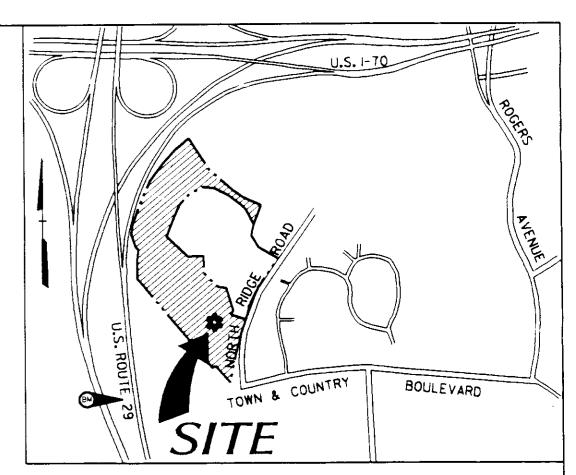
SITE DEVELOPMENT PLAN **FOR**

The Heartlands Residence

An Assisted Living Facility

- I. All construction shall be performed in accordance with the latest standards and specifications of Howard County, plus MSHA standards and specifications if applicable
- 2. 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 soperation shall be repaired immediately at the contractor's expense.
- 3. The contractor shall test pit existing utilities at least—five (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.
- 4. The contractor shall notify •Miss Utility• at I-800-257-777 at least 48 hours prior to any excavation work being done, and shall notify the Department of Public Works/Bureau of Engineering/Construction Inspection Division at (410) 313-1880 at least five (5) working days prior to the start of work.
- 5. Traffic control devices, markings, and signing shall be in accordance with the latest edition of the Manual of Uniform Traffic Control Levices (MUTCD). All street and regulatory signs shall be in place prior to the placement of any asphalt.
- All plan dimensions are to face of curb unless otherwise noted.
- There are WETLANDS THAT EXIST IN AND AROUND THE EXISTING SWM POND \$ 1. THEY HAVE BEEN FIELD 9. Starm Water Quantity and QUALITY MANAGEMENT WILL BE PROVIDED ON-SITE BY RETROFITTING AN EXISTING PRIVATE STORMWATER MANAGEMENT POND. (POND #1)
- 10 The Existing topography is taken from a field run survey with the two foot contour intervals prepared by Daft McCune Walker, Inc., dated February, 1996
- II. All inlets shall be constructed in accordance with Howard County Standards or MSHA
- 12. Operating existing valves, switches, services or start up of new services shall be coordinated with the owner's representative.
- 13. Required soil erosion and sedimentation control plans shall be provided, installed and
- 4. 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 owner-s property, and heeled into a mulch holding bed for future use by the owner in locations other than those involved in the contract work.
- 15. 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
- 16. Public water per Capital Project No. S-6204.
- 17. There are no known grave sites or cemeteries on this site.
- 18. The coordinates shown hereon are based upon the Howard County geodetic control which is based upon the Maryland State plane coordination system. Howard County monument numbers 3443003 and 3342001 were used for this project.
- 19. No traffic study is required for this project. 20. SEE ARCHITECTURAL PLANS FOR ALL BUILDING DIMENSIONS AND BUILDING DETAILS.

SITE ANALYSIS DATA CHART				
ener	al Site Data			
1.	Present Zoning: POR			
٥.	Applicable DPZ File References: F-79-03, S-81-24, F-82-09, F-82-76, F-86-77, PLAT NO. 6551-6553, WP 90)- <u> 30</u>		
	Proposed Use of Site or Structure(sh. ASSISTED LIVING FACILITY 68 UNITS			
I.	Proposed Water and Sewer Systems: YES Public - YES (WALER)			
	Any Other Information Which May be Relevant: PUBLIC WATER & SEWER SYSTEMS PROVIDED UNDER CAPITAL PROJECT NO. 5-6204			
	a Tabulation			
3.	Total Project Area: 30.917 (PARCEL B-7) Acres			
	(Indicate by Section and Area As Shown on Final Plat or As Shown on Deed)			
٥.	Net Area of Site: Acres			
	(Indicate by Section and Area As Shown on Final Plat)			
C.	Area of This Plan Submission: Limit of Disturbed Area: Building Coverage of Site: 0.36 Acres and 12 % of Gross Area (Proposed)			
ď.	Limit of Disturbed Area: 8.20 Acres			
e. f.	Maximum number of beds: Acres and % of Gross area throposedi			
) pei	n Space Data			
o.	Open Space Required on Site: N/A Acres	rea		
b.	Open Space Proposed N/A Acres % of POR Area			
 Par	king Space Data			
	588I s.f. Basement			
	16466 s.f. First Floor			
۵.	Floor Space on Each Level per Bullding(s) per Use: 16466 s.f. Second Floor 16466 s.f. Third Floor			
	Number of Parking Spaces Required by Zoning Regulations 40 space per 2 beds or 37 sp	oce		
b.				
b. с.	Total Number of Parking Spaces Provided On-Site: 38 Number of Handicapped Parking Spaces Provided: 2			

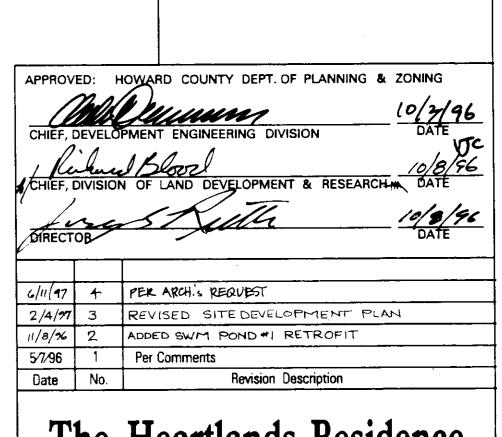


LOCATION MAP

SCALE: I" = 1000

ELEVATION 469.057 CONTROL STATION 3342001 BENCHMARK: HOWARD COUNTY, MARYLAND BEING A CONCRETE MONUMENT ON TOP OF HOGSBACK BETWEEN MD. RTE. 29 NORTH AND SOUTH, 4000'+/- NORTH OF U.S. RTE. 40

	ADDRESS CHART
PARCEL NUMBER	STREET ADDRESS
PARCEL B-7	3000 NORTH ROLE ROAD
	·



The Heartlands Residence An Assisted Living Facility

Howard County, Maryland OWNER /DEVELOPER

> THE HEARTLANDS RETIREMENT COMMUNITY -ELLICOTT CITY I, INC.

C/O CONSTELLATION HEALTH SERVICES, INC. 8815 CENTRE PARK DRIVE, SUITE 308 COLUMBIA, MARYLAND 21045

Towson, Maryland 21286 (410) 296-3333

A Team of Land Planners Landscape Architects Engineers, Surveyors &

Parcel B-7

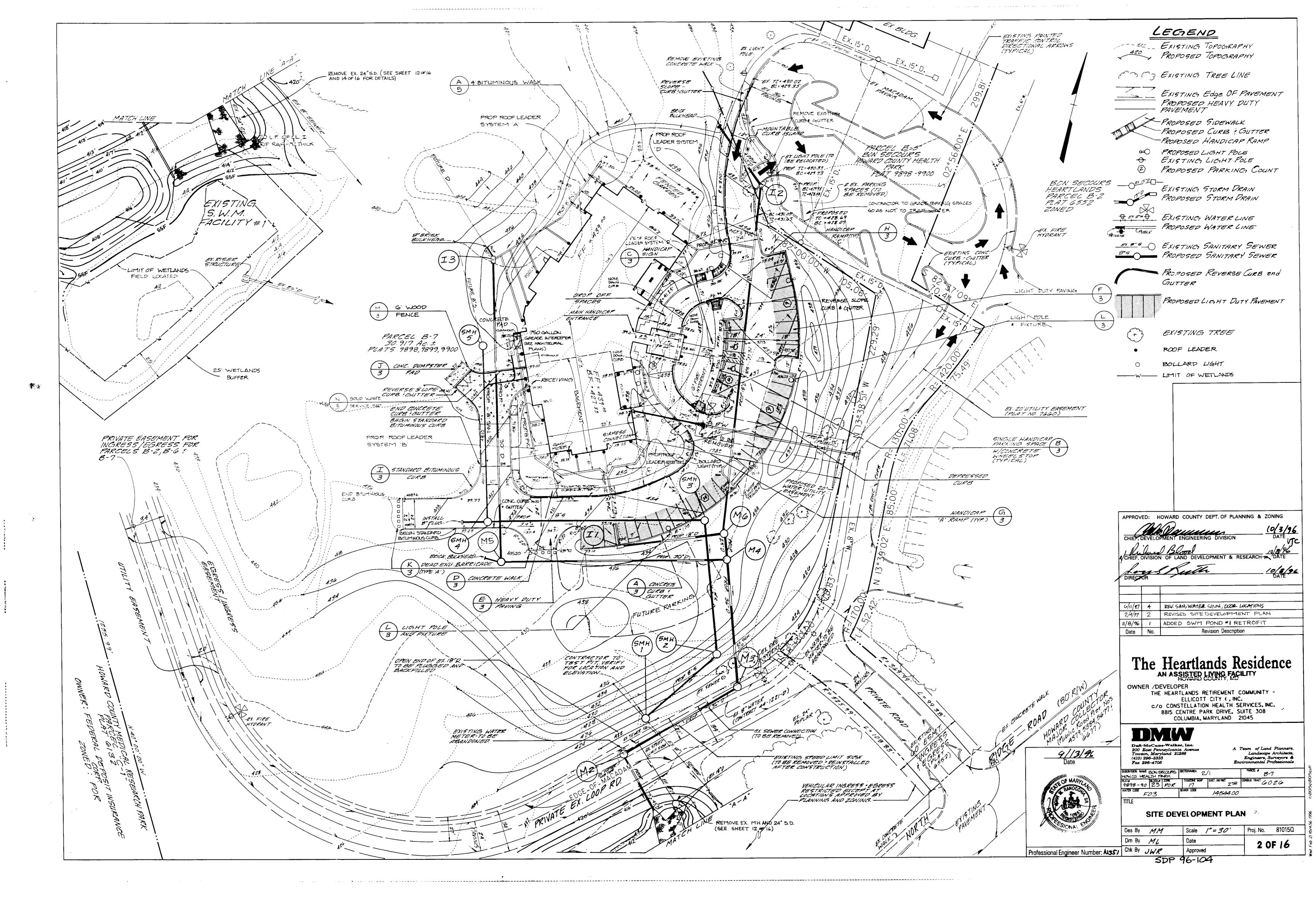
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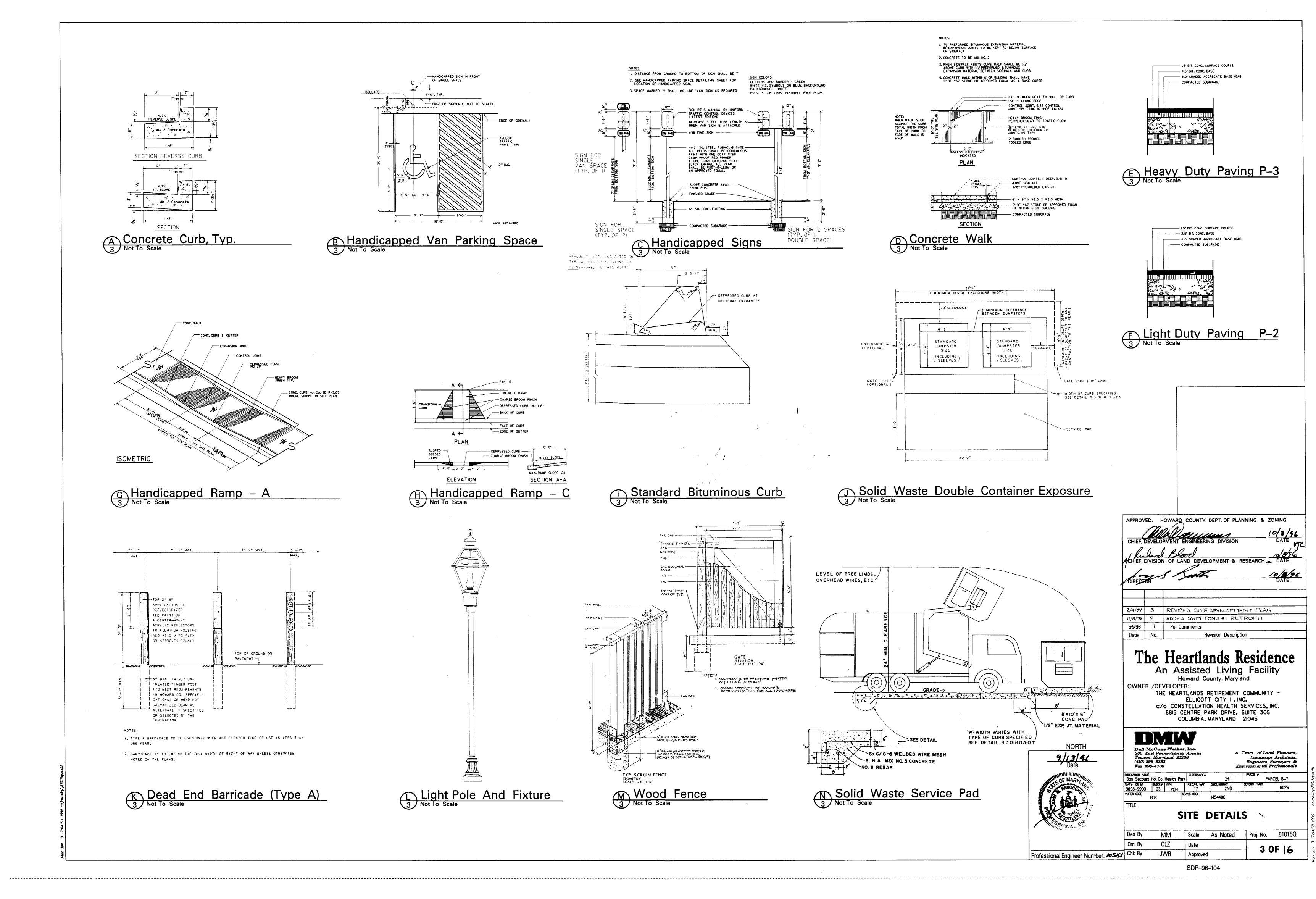
Professional Engineer Number: (USE) Chk By

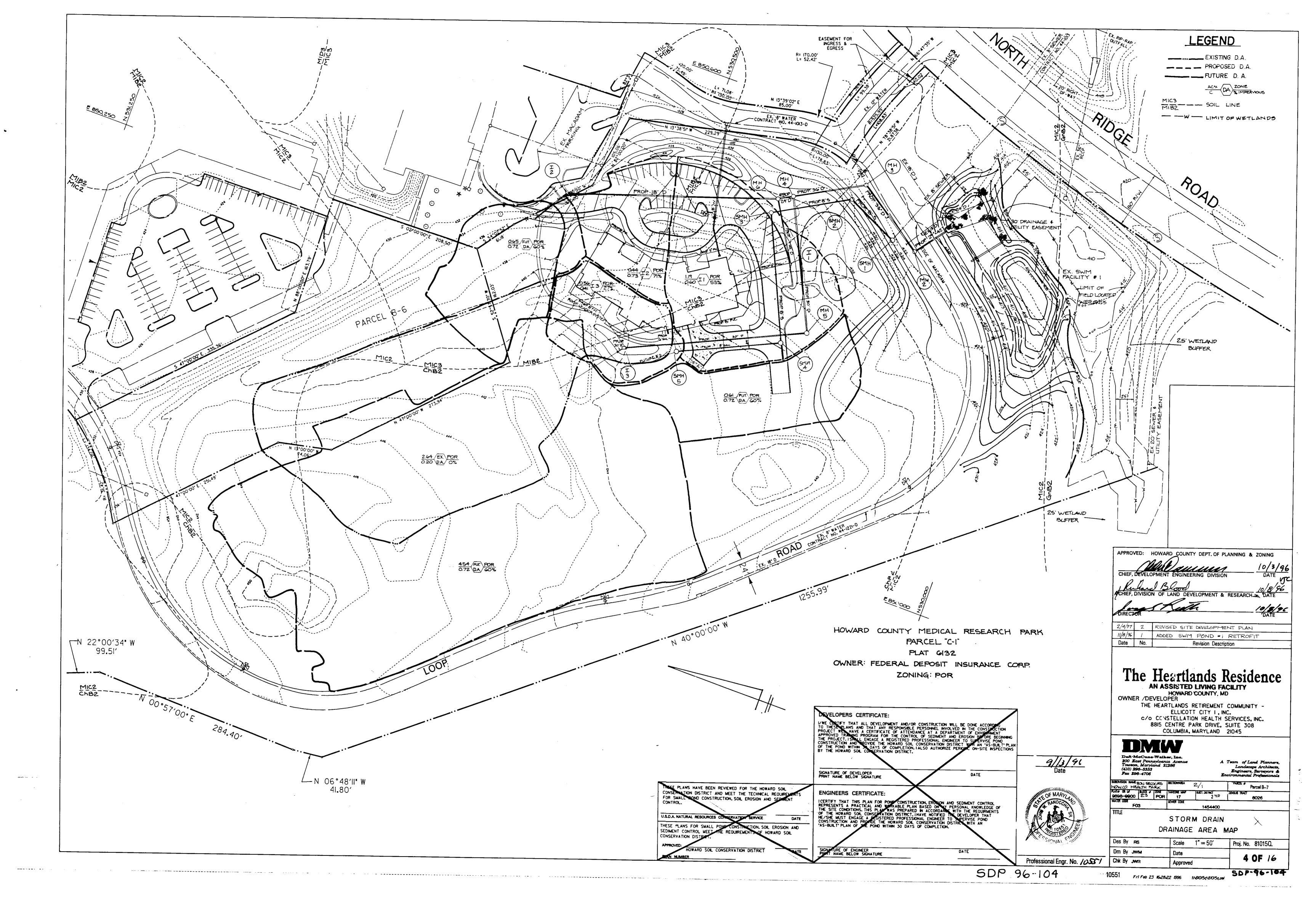
COVER SHEET

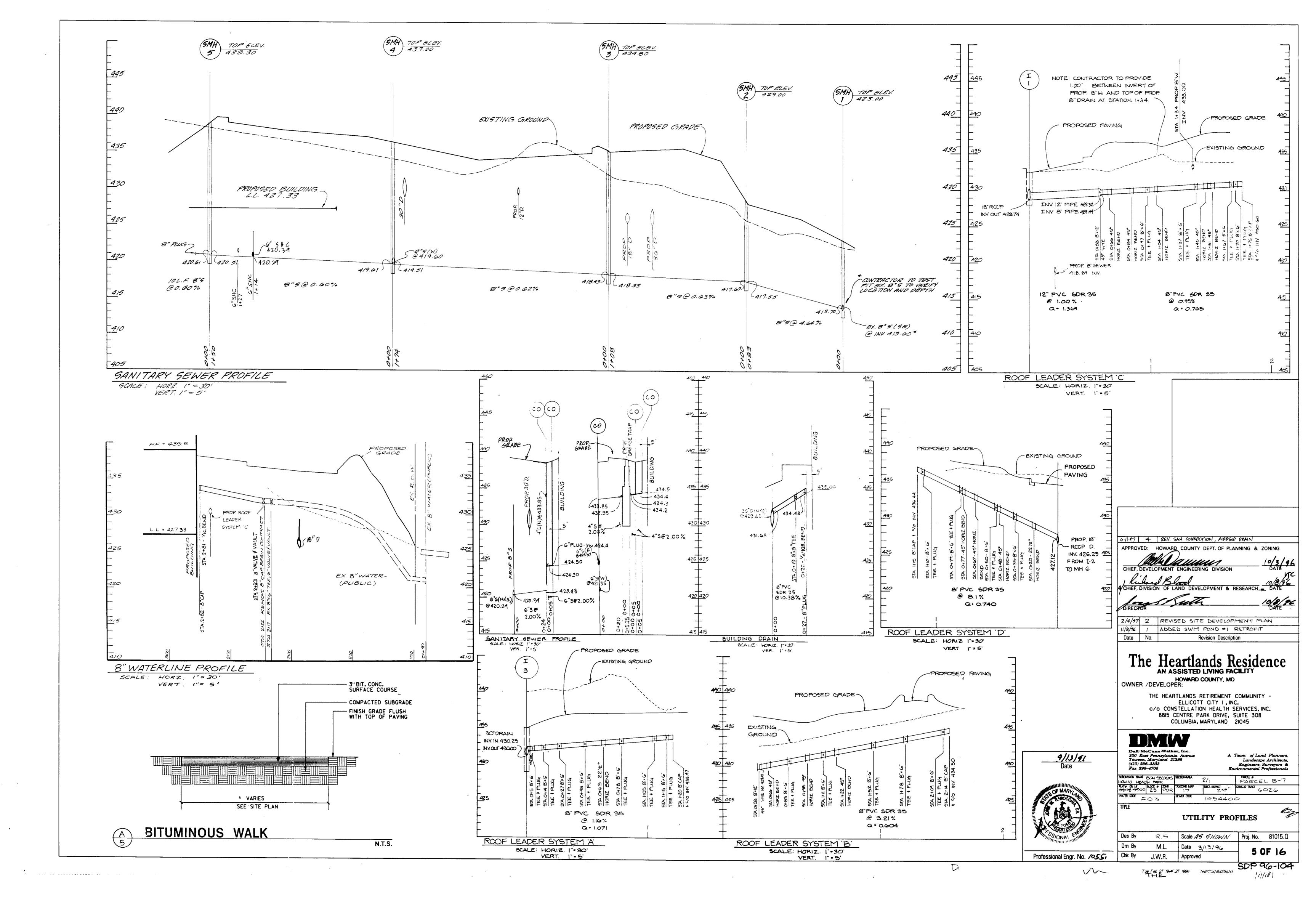
Scale AS SHOWN Proj. No. 81015Q ММ CLZ Date 2-22-96 JWR

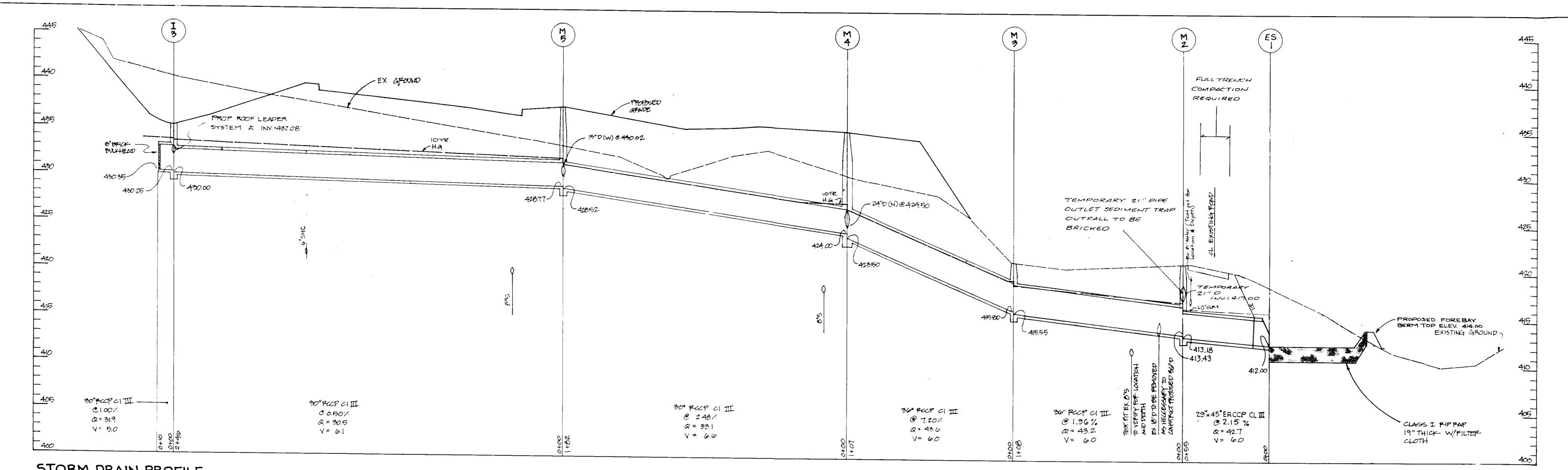
SDP-96-104







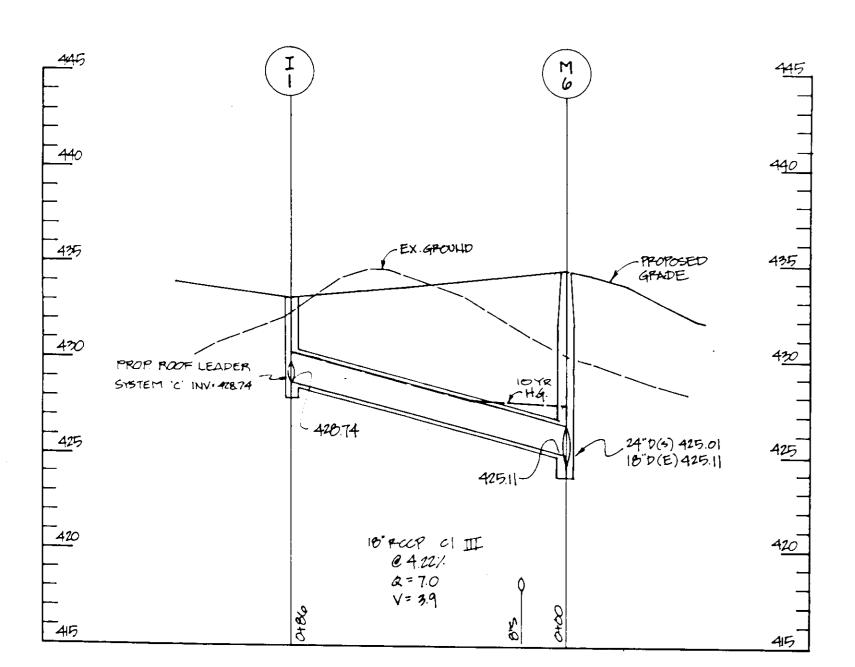




STORM DRAIN PROFILE

SCALE: HONZONTAL: 1": 50"

VENTICAL: 1": 5"



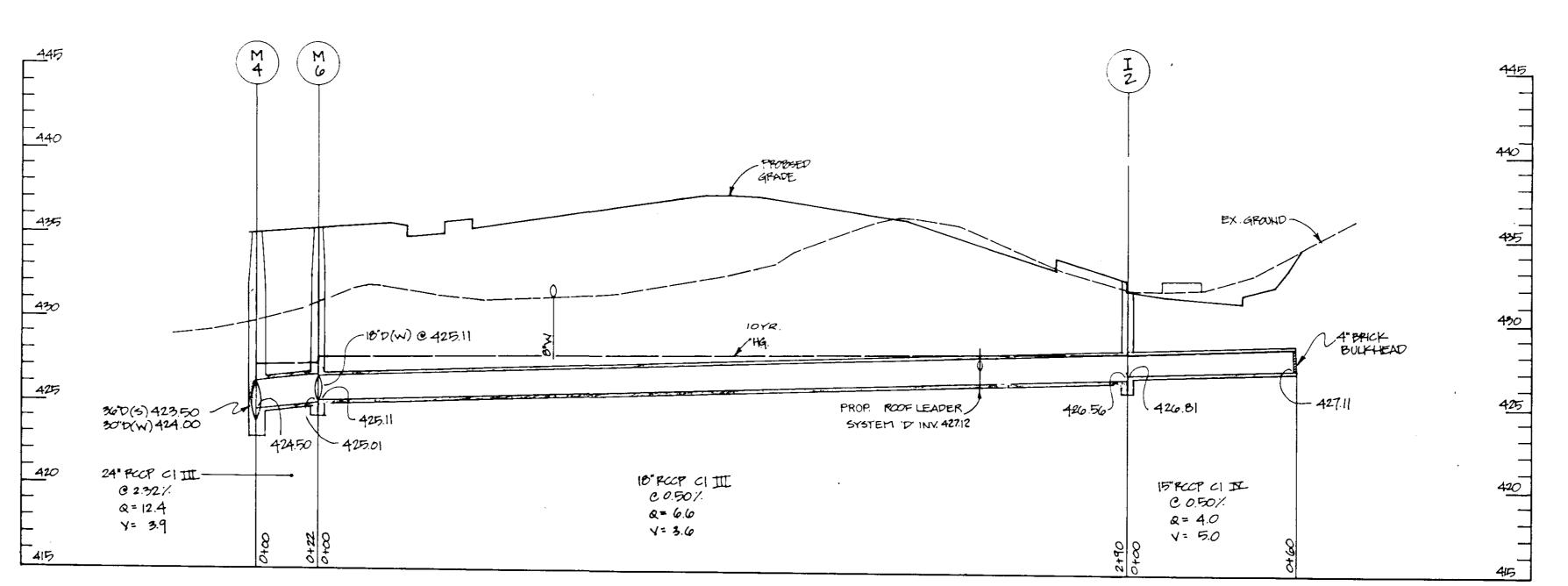
STORM DRAIN PROFILE

SCALE: HORIZONTAL 17-50'
VERTICAL: 17-5'

INLET SCHEDULE				
NO.	TYPE	Q	INV. OUT	TOP ELEY.
1	'A-10' INLET	7.0	428.74	433.10 *
2	'A-D' INLET	2.7	426.56	431.65 *
3	'D'INLET GRATE	2.2	130.00	435.00 **

* INDICATES TOP OF CUPS ELEVATION

** IHDICATES ELEVATION AT THROAT OPENING



STORM DRAIN PROFILE SCALE: HORIZONTAL: 1"=30" VERTICAL: 1"=5"

MANHOLE SCHEDULE				
No.	TYPE	SIZE	TOP ELEV.	PESCRIPTION
1	SHALLOW MH	60"	418.30	95.13
2	SHALLOW MH	60°	SET IN FIELD	95.13
3	SHALLOW MH	60"	SET IH FIELD	95.13
4	HM CHACHAR	60"	435.00	45.13
5	STANDARD MH	60"	437.30	95.13
6	STANDARD MH	60"	434.80	, G5.13
B51	CONCRETE SHO SECTION	36"	SET IN FIELD	SO 5.51

		· · · · · · · · · · · · · · · · · · ·
APPROV	ÆD:	HOWARD COUNTY DEPT. OF PLANNING & ZONING
		Maure 10/3/96
CHIEF,	DEVELO	
. //	2:0	1 RO-1 1/86
CHIEF, I	DIVISIO	N OF LAND DEVELOPMENT & RESEARCH DATE
/		I River and the latest
DIRECT	OR	DATE DATE
2/4/97	2	REVISED SITE DEVELOPMENT PLAN
11/8/96	1	ADDED SWM POND +1 RETROFIT
, -, -		

The Heartlands Residence

AN ASSISTED LIVING FACILITY
OWNER /DEVELOPER: HOWARD COUNTY, MD

THE HEARTLANDS RETIREMENT COMMUNITY ELLICOTT CITY I, INC.
C/O CONSTELLATION HEALTH SERVICES INC.
8815 CENTRE PARK DRIVE, SUITE 308
COLUMBIA, MARYLAND 21045

DMW

Daft McCune Walker, Inc. 200 East Pennsylvania Avenue Towson, Maryland 21286 (410) 296–3333 Fax 296–4706

9/13/40

Professional Engr. No. 10557

A Team of lead Planener

Landson American

Enginem Jurangeore

Environmenta Parkamana

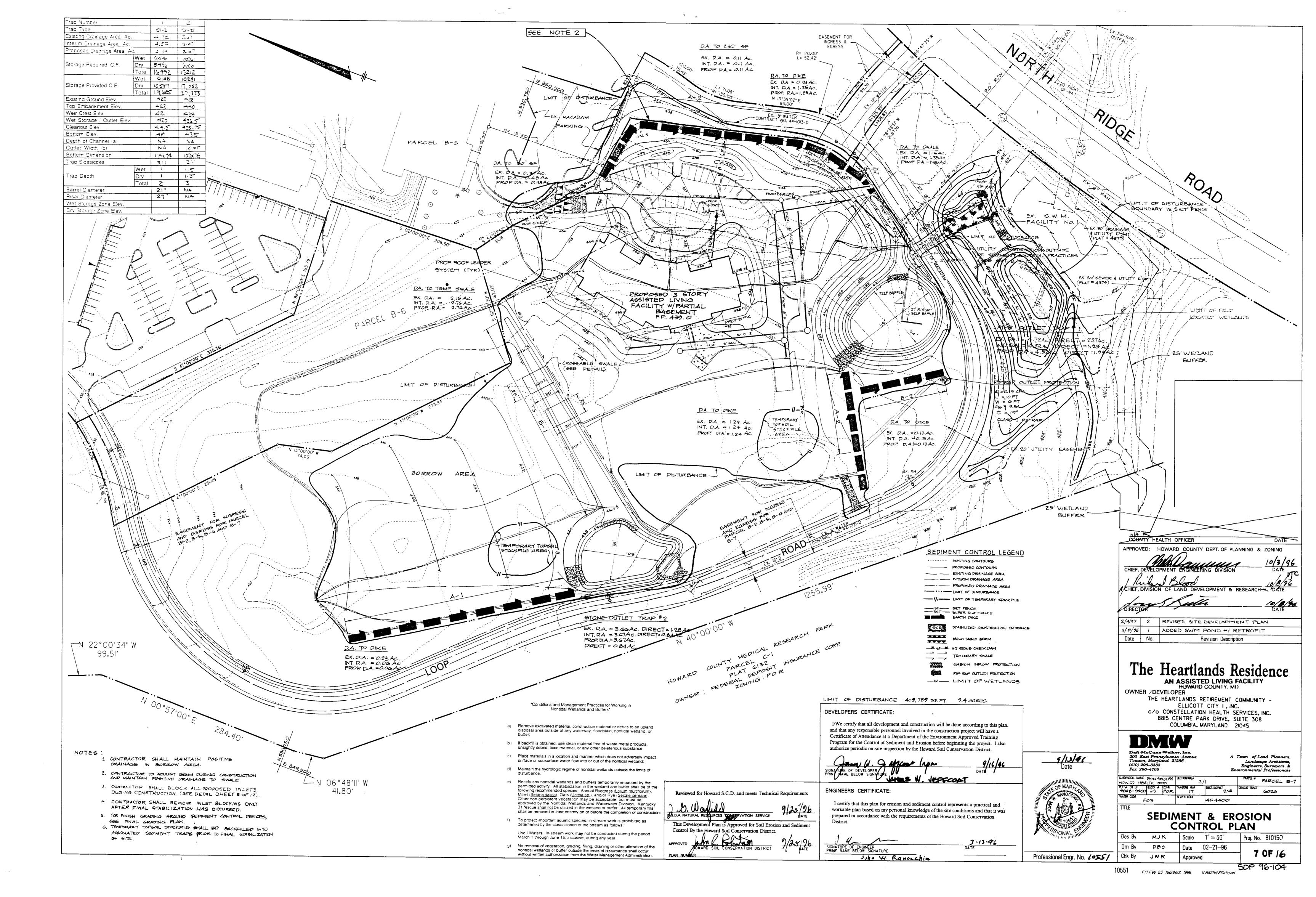
SUBDIMISION NAME BON SECOURS SECTIONAREA 2/1 PARCE #
HOW.CO. HEALTH PARK
PLATE OR LF BLOCK # ZONE TAXZONE MAP BLECT. DISTINCT 2 MD
WATER CODE
SEWER CODE 1454400 ,

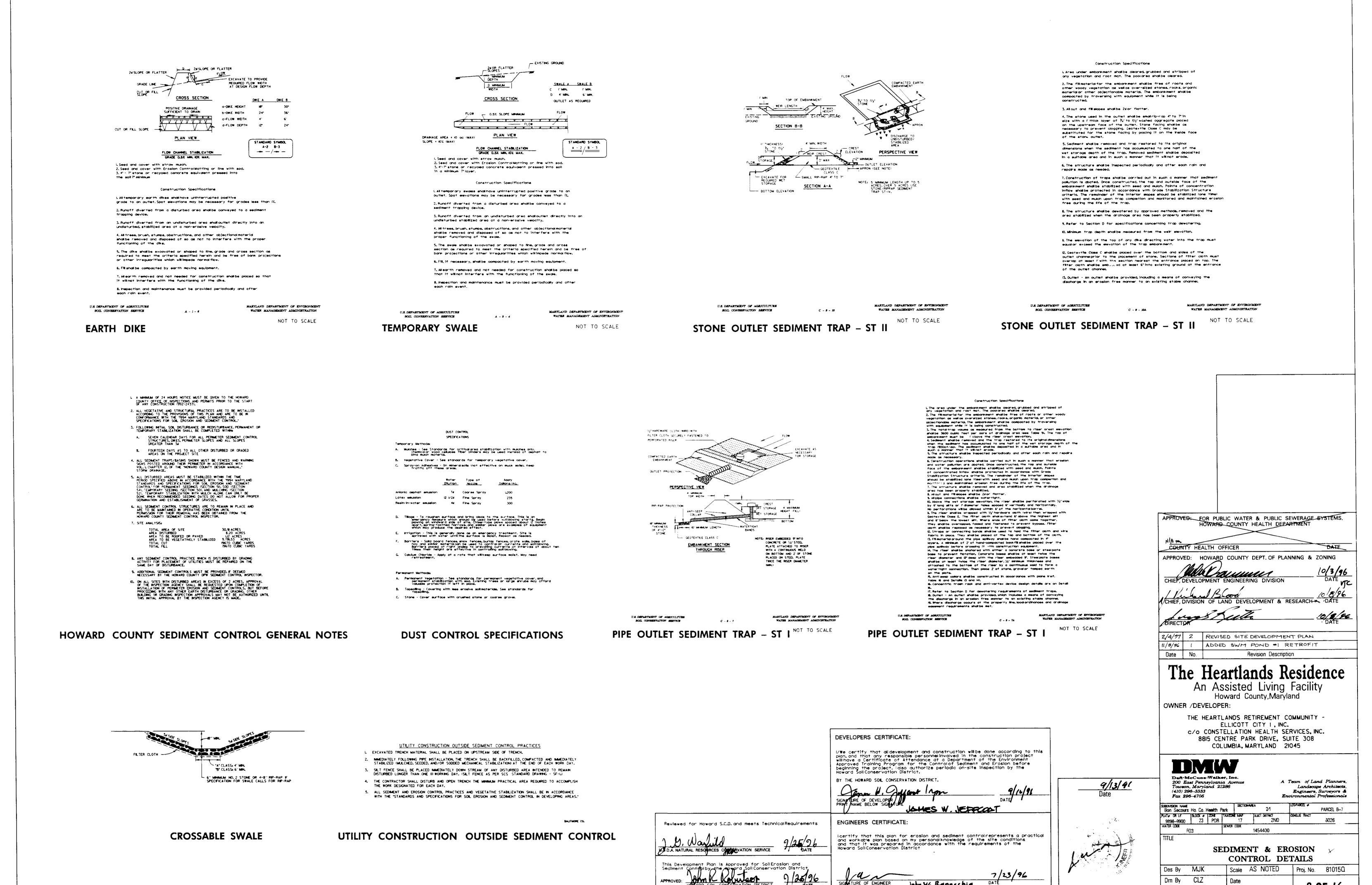
UTILITY PROFILES

By PS Scale AS SHOWN Proj. Nr. 8000150
By MEP Date 3/13/96
By JWR Approved

6 16

SDP - 96 - 10 4 SDP 6 - 104 Wed Mar 6 1243124 1996 CNcarrle\81015qut3





SDP-96-104

Approved

8 OF 16

Dm By

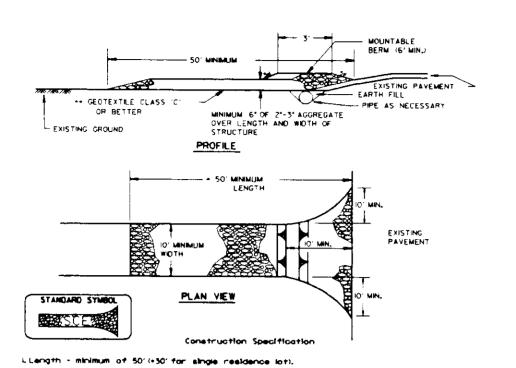
Chk By

Professional Engr. No. 10557

SIGNATURE OF ENGINEER John W. Rancachia

CLZ

JWR



2. Width - 10' minimum, should be flared at the existing road to provide a turning

3. Geotextile fabric (filter cloth) shall be placed over the existing ground prior

to placing stone. **The plan approval authority may not require single family residences to use geotextile. 4. Stone - gruehed aggregate (2" to 3") or recialmed or recycled congrete equivalent shall be placed at least 6" deep over the length and width of the

5. Surface Water - all surface water flowing to or diverted toward construction entrances shallbe piped through the entrance, maintaining positive drainage. Pipe installed through the stabilized construction entrance shallbe protected with a to be sized according to the drainage. When the SCE is located at a high spot an has no drainage to convey a pipe will not be necessary. Pipe should be sized according to the amount of runoff to be conveyed. A 6 minimum will be required.

6. Location - A stabilized construction entrance shallbe located at every point where construction traffic enters or leaves a construction sits. Yehicles leaving the site must travelover the entire length of the stabilized construction entrance.

U.S. DEPARTMENT OF AGRICULTURE

MARYLAND DEPARTMENT OF ENVIRONMEN

STABILIZED CONSTRUCTION ENTRANCE

SEDIMENT BASIN BAFFLES

MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

NOT TO SCALE

EXISTING GROUND

D = DISTANCE BETWEEN
INFLOW AND OUTFLOW A = AREA OF NORMAL POOL

FORMULA: $\frac{L_{\bullet}}{W_{\bullet}} \ge 2$

- RISER (OUTLET)

∠INFLOW POINT

- RISER (OUTLET)

We = EFFECTIVE WIDTH = A/D

Le TOTAL DISTANCE FROM THE INFLOW POINT AROUND THE BAFFLES TO THE RISER

FILTER CLOTH

OR GRADED

AGGREGATE FILTER

DISCHARGE TO UNCONFINED

OUTLET (FLARED OUTLET) (MINIMUM TAILWATER CONDITION)

EX. STABILIZED

RIP RAP TO BE EMBEDDED IN PROPOSED TRANSITION SECTION FILTER CLOTH OR GRADED ___ SEE RIP RAP STANDARD & SPECIFICATIONS AGGREGATE FILTER

SECTION A-A

RIPRAP OUTLET PROTECTION

PROFILE ALONG CENTERLINE

LiGablon Inflow protection shall be constructed of 9" x 3" x 9" gablon

2. Geotextile Class C shall be installed under all gabion baskets. 3. The stone used to fill the gabion baskets shall be 4' - 7'

4. Gabilions shall be installed in accordance with manufacturers recommendations, 5. Gablon Inflow Protection shallbe used where concentrated flow is present

U.S. DEPARTMENT OF AGRICULTURE MARYLAND DEPARTMENT OF ENVIRONMENT

NOT TO SCALE

GABION INFLOW PROTECTION

<u>Permanent Seeding Notes</u> Apply to graded or cleared areas not subject to immediate further disturbance where a permanent long-fived vegetative cover is needed, <u>Seecbed Preparation</u> - Loosen upper 3 inches of soliby ricking, disking, or other acceptable means before seeding, if not previously loosened.

SoftAmendments; In Seu of solitest recommendations, use one of the following schedules:

L. Preferred - Apply 2 tons per cores dolonific Smeatone (92 ba_/L000 sq. ft.) and L000 ba. per core 10-10-10 fertilizer (14 bs./L000 sq. ft.) before seeding. Horrow or disk into upper 3 inches of soil, At time of seeding, apply 400 bs. per core 30-0-0 ureaform

Acceptable - Apply 2 tones per done dolomitic fimestone (92 lbs./L000 sq. ft.) and L000 lbs. per done 10-10-10 fertilizer (23 lbs./L000 sq. ft.) before seeding. Harrow or disk into upper 3 inches of soft.

Seeding - For the periods March Ithrough April 30, and August Ithrough October 15, seed with 60 lbs. per core (L4 lbs./L000 sq. ft.) of Kentucky 31Tail Fescue. For the period May I through July 31 seed with 60 lbs. Kentucky 31Tail Fescue per core and 2 lbs. per core (L05 lbs./L000 sq. ft.) of weeping lovegrass. Durling the period of October 15 through February 28, protect site by i Option (8 - 2 tones per core of well anchored straw much and seed as soon as possible in the spring, Option (2) - Use sod, Option (3) - Seed with 60 lbs./core Kentucky 31Tail Fescue and mulch with 2 tons/core well anchored straw.

Mulching - Apoly IV2 to 2 tons per one (10 to 90 bs./L000 sq. ft.) of unrotted small grain strow immediately after seeding. Anchor mulch immediately after applications using mulch anchoring tool or 28 gallons per ocre (5 gal./L000 sq. ft.) of emulsified asphalt on flat areas. On stopes 8 feet or higher, use 348 gallons per ocre (8 gal./L00 sq. ft.) for anchoring.

<u>Maintenance</u> - inspect all seeding and make needed repairs, replacements and reseeding.

Temporary Seeding Notes

SEEDING NOTES

Apply to graded or cleared areas likely to be redistributed where a short-term vegetative cover is needed. <u>Setabled Preparation</u> - Loosen upper 3 inches of soliby ricking, diakling, or other acceptable means before seeding, if not previously loosened. Soll Amendments - Apply 600 lbs. per core 10-10-10- fertilizer (M abs./1000 eq. ft.)

Seeding - For the periods Manch Ithrough April 30, and August Ithrough October 15, seed with 2 1/2 bushelper core of annualitys (3.2 bs./L000 sq. ft]. For the period May Ithrough August 14, seed with 3 bs. per core of weeping lovegrass (.07 bs./L000 sq. ft]. For the period November 16 through February 28, protect afte by applying 2 tons per core of velianohored straw mulch and seed as soon as possible in the spring, or use sod. Mulching - Apply 11/2 to 2 tons per agre (70 to 90 bs./L000 sq. ft.) of unrotted small grain strow immediately after seeding. Anchor much immediately after applications using mulch anchoring toolor 28 gallons per agre (5 gal/L000 sq. ft.) of emulsified dephats on flat areas. On slopes 8 feet or higher, use 348 gallons per agre (8 gal/L00 sq. ft.) for anchoring.

Refer to the 1983 Maryland Standards and Specifications for SollErosion and Sediment Controlfor additionalizates and methods not covered.

DRIVEN A MINIMUM OF 16" INTO GROUND - 16' MINIMUM HEIGHT OF 36' MINIMUM FENCE FENCE POST SECTION MINIMUM 20' ABOVE
GROUND TINTO TO THE TINE TIME THE GROUND EMBED GEOTEXTH . CLASS F FENCE POST DRIVEN A
MINIMUM OF 16" INTO
THE GROUND A MINIMUM OF BY PERTICALLY INTO THE GROUND CROSS SECTION JOHNING TWO ADJACENT SILT Construction Specifications). Fence posts shall be a minimum of 36" long driven 16" minimum into the ground. Wood posts shall be $f/2^* \times f/2^*$ square (minimum) cut, or $i\frac{1}{2}$ 4 diameter (minimum) round and shallbe of sound quality hardwood. Steel posts will be standard T or U section weighting not less than LOO pond per linear foot 2. Geatextile shall be fastened securely to each fence post with wire ties or staples at top and mid-section and shall meet the following requirements Tensile Strength 50 bs/in (min.) Test: MSMT 509
Tensile Modulus 20 bs/in (min.) Test: MSMT 509
Flow Rate 0.3 gotft / fillnute (mox.) Test: MSMT 322

PLAN VIEWS

Marie Rome

SHEETS OF 4'X 8'X 1/2" EXTERIOR GRADE PLYWOOD OR EQUIVALENT

BAFFLE DETAIL

C - 10 - 28

L⊕ = L |+ L 2

io= L | + L 2 i 3 L 4

Le= L + L 2 L 3 L 4

8' CENTER TO CENTER

POSTS MINIMUM

1/4" SQUARE OR 2" ROUND SET

AT LEAST 3' INTO

THE GROUND

U.S. DEPARTMENT OF AGRICULTURE

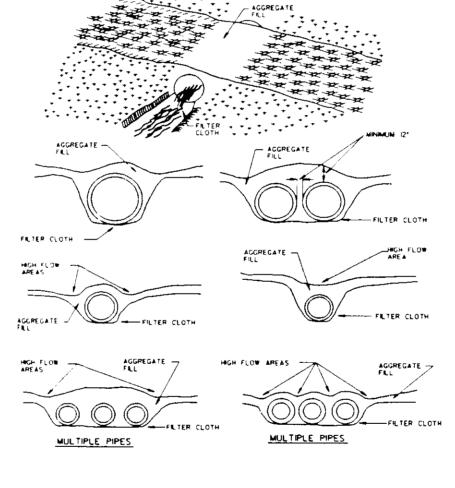
SOIL CONSERVATION SERVICE

Testi MSMT 322 ${\bf x}$. Where ends of geotextile fabric come together, they shall be overlapped, folded and stapled to prevent sediment bypass.

4. Slit Fence shall be inspected after each rainfall event and maintained when bulges occur or when sediment occumulation reached 50% of the fabric height. U.S. DEPARTMENT OF AGRICULTURE MARTLAND DEPARTMENT OF ENVIRONMENT

SILT FENCE

NOT TO SCALE



I.S. DEPARTMENT OF AGRICULTURE

·· ## - 13 TEMPORARY ACCESS CULVERT MARTLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

NOT TO SCALE

Construction Specifications

LiRestrictions - No Construction or removal of a temporary April 30 for Class Bland Class IV Trout Baters or between March Ithrough June 15 for non-trout waterways. 2. Culvert Strength - All culverts shall be strong enough to

support their cross sectional area under maximum expected 3. Culvert Size - The size of the culvert pipe shallbe the largest pipe diameter that will fit into the existing channel without major excavation of the waterway channel or without major approach fills, if a channel width exceeds 3 feet, additional pipes may be used until the cross sectional area of

the pipes is greater than 60 percent of the cross sectional area of the existing channel. The minimum size culvert that may be used is a 12" diameter pipe. In all cases, the pipe(s) shall be large enough to convey normal stream flows. 4. Culvert Length - The autvent(s) shall extend a minimum of one foot beyond the upstream and downstream toe to the aggregate placed around the culvent. In no case shall the culvert exceed 40 feet in length.
5. Filter Cloth - Filter oloth shallbe placed on the atreambed and atreambanks prior to placement of the pipe culvert(s) and aggregate. The filter cioth shall cover the

streambed and extend a minimum six inches and a maximum one

foot beyond the end of the outvert and bedding material. Filter cloth reduces settlement and Improves arossing 6. Culvert Placement - The Invert elevation of the culvert shall be installed on the natural streambed grade to minimize Interference with fish migration (free passage of fish), 7. Culvert Protection - The oulvert(s) shall be covered with a minimum of one foot of aggregate, if multiple culverts are

used they shall be separated by at least 12" of compacted aggregate fill. 8. Stabilization - Alianeas disturbed during outvert Installation and be atabilized within M colendar days of the disturbance in accordance with the Standard for "Critical

TEMPORARY ACCESS CULVERT

U.S. DEPARTMENT OF AGRICULTURE

NOT TO SCALE

9/13/81

Date

OF MAR

MARTLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

The Heartlands Residence An Assisted Living Facility Howard County, Maryland

Revision Description

APPROVED: FOR PUBLIC WATER & PUBLIC SEWERAGE SYSTEMS,

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING

CHIEF, DIVISION OF LAND DEVELOPMENT & RESEARCH DATE

Milaum

2/4/77 3 REVISED SITE DEVELOPMENT PLAN

CHIEF, DEVELOPMENT ENGINEERING DIVISION

Per comments

HOWARD COUNTY HEALTH DEPARTMENT

DATE

OWNER /DEVELOPER:

COUNTY HEALTH OFFICER

THE HEARTLANDS RETIREMENT COMMUNITY -ELLICOTT CITY I. INC.

c/o CONSTELLATION HEALTH SERVICES, INC. 8815 CENTRE PARK DRIVE, SUITE 308

COLUMBIA, MARYLAND 21045

200 East Pennsylvania Avenue Towson, Maryland 21286 Fax 296-4705

5/7/96

Date No.

A Team of Land Planners Landscape Architects Engineers, Surveyors &

Bon Secours Ho. Co. Health Park PARCEL 8-7 9898-9900 23 POR 2ND F03

SEDIMENT & EROSION CONTROL DETAILS MJK Scale AS NOTED Proj. No. 810150 CLZ Date

Dm By Professional Engr. No. 1955

- SOLID STEEL PLATE -INLET

INLET BLOCK DETAIL NOT TO SCALE

Reviewed for Howard S.C.D. and meets Technical Requirements [his Development Plan is Approved for SollErosion and SIGNATURE OF ENGINEER PRINT NAME BELOW SIGNATURE

ISMES W. JEFFCOST **ENGINEERS CERTIFICATE:**

BY THE HOWARD SOIL CONSERVATION DISTRICT

DEVELOPERS CERTIFICATE:

Icertify 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

I/We certify that alidevelopment and construction will be done according to this pian, 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.

SDP-96-104

JWR

9 OF 16 Approved

Sequence of Construction

- 1. Obtain all necessary permits for construction.
- 2. Notify Howard County Office of Inspections and Permits (410) 313-1855 a minimum of 48 hours prior to the start of any construction. Notify the Maryland Department of the Environment Nontidal Wetlands and Waterways Inspection and Compliance Division (410) 631-3510 at least five (5) days prior to any instream construction.
- 3. Notify the engineer-in-charge of the As-built inspection at (410) 296-3333.
- 4. Clear, grub for and install sediment control measures only. Coordinate all work with the approved erosion and sediment control plan sequence of operations. Also refer to the notes "Conditions and Management Practices for Working in Nontidal Wetlands and Buffers" shown on this sheet.
- Excavate for the forebay and water quality wet pool. Remove appropriate storm drain manholes and sections of 18" and 36" storm drain pipes as shown on plans, and immediately install proposed storm drain pipe sections and end sections as shown on plans.
- 6. Install rip rap inflow protection, construct forebay berm and place rip rap protection along entire face of berm, install gabion basket forebay weir.
- Stabilize disturbed areas with seed and mulch.
- 8. With prior approval of the Sediment Control Inspector and the Howard County Sediment Control Division, remove sediment controls. Fine grade and stabilize
- Conduct "as-built" survey of storm drain modifications, forebay, water quality wet pool, and outfall areas and submit to appropriate agencies within 30 days

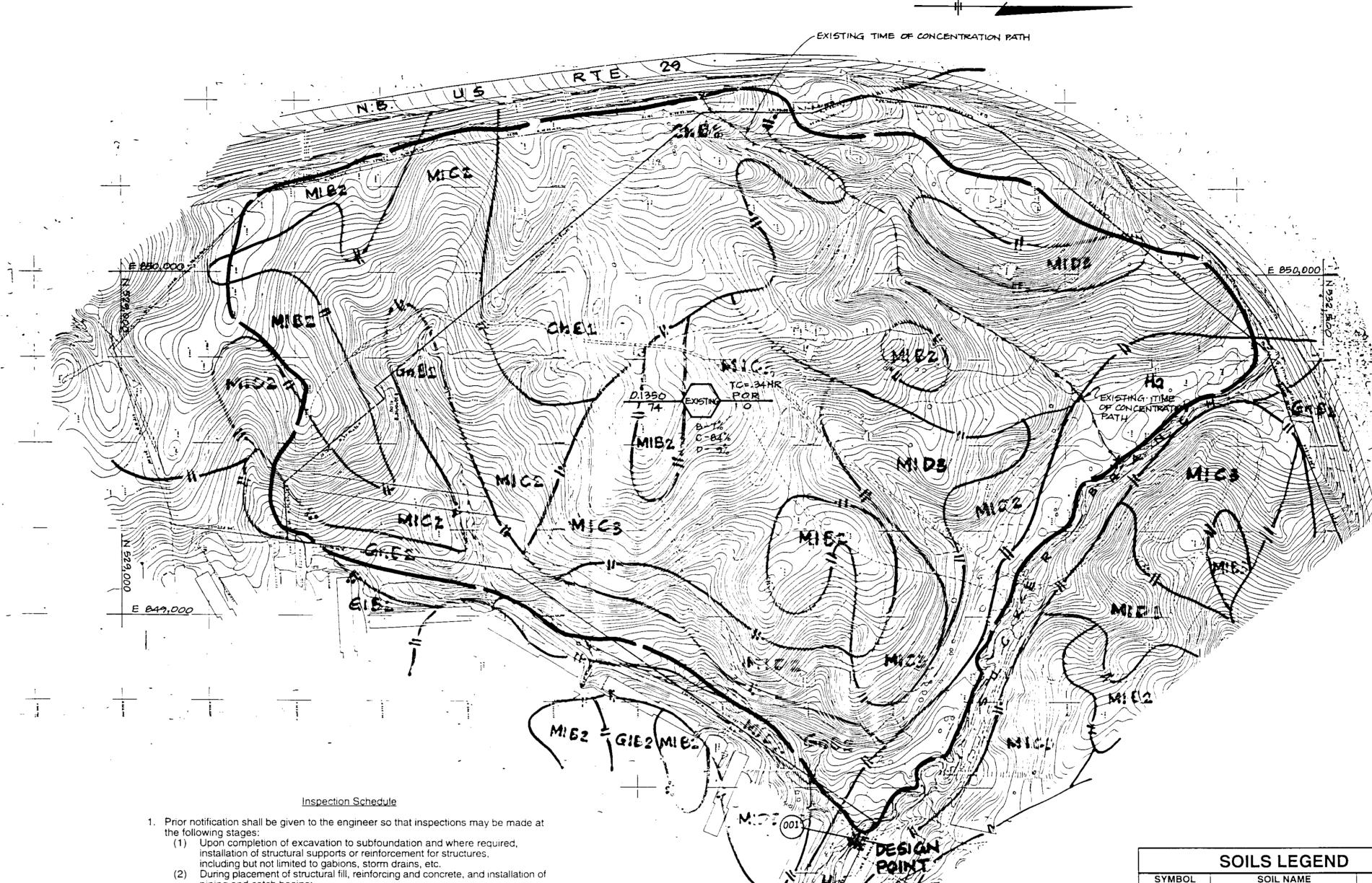
OPERATION AND MAINTENANCE SCHEDULE OF PRIVATELY OWNED AND MAINTAINED STORMWATER MANAGEMENT FACILITY WET POND

ROUTINE MAINTENANCE

- 1. Facility shall be inspected annually and after major storms. Inspections should be performed during wet weather to determine if the pond is functioning properly.
- 2. Top and side slopes of the embankment shall be moved a minimum of two (2) times a year, once in June and once in September. Other side slopes and maintenance access should be mowed as needed.
- 3. Debris and litter shall be removed during regular mowing operations and as needed.
- 4. Visible signs of erosion in the pond as well as riprap outlet area shall be repaired as soon as it is noticed.

NON-ROUTINE MAINTENANCE

- 1. Structural components of the pond such as the dam, the riser, and the pipes shall be repaired upon the detection of any damage. The components should be inspected during routine maintenance operations.
- 2. Sediment should be removed FROM THE POND no later than when the capacity of the pond is half full of sediment, when deemed necessary for aesthetic reasons, or when deemed necessary by the Howard County's Department of Public Works.



GROUP Chester silt loam ChB2 GIB2 Gleneig loam GnB2 Glenville silt loam Ha Hatboro silt loam MIB2 Manor loam Manor :oam MIC3 Manor loam MID2 Manor loam EXISTING DRAINAGE AREA MAP MID3 Manor loam SCALE: 1"= 200"

Remove excavated material, construction material or debris to an upland

- disposal area outside of any waterway, floodplain, nontidal wetland, or
- b) If backfill is obtained, use clean material free of waste metal products, unsightly debris, toxic material, or any other deleterious substance.
- Place materials in a location and manner which does not adversely impact surface or subsurface water flow into or out of the nontidal wetland;

"Conditions and Management Practices for Working in Nontidal Wetlands and Buffers"

- d) Maintain the hydrologic regime of nontidal wetlands outside the limits of
- e) Rectify any nontidal wetlands and buffers temporarily impacted by the permitted activity. All stabilization in the wetland and buffer shall be of the following recommended species: Annual Ryegrass (Lolium multiflorum), Millet (Setaria italica), Oats (Uniola sp.), and/or Rye (Secale cereale). Other non-persistent vegetation may be acceptable, but must be approved by the Nontidal Wetlands and Waterways Division. Kentucky 31 fescue snall not be utilized in the wetland or buffer. All temporary fills shall be removed in their entirety on or before the completion of construction;
- To protect important aquatic species, in-stream work is prohibited as determined by the classification of the stream as follows:

Use I Waters. In-stream work may not be conducted during the period March 1 through June 15, inclusive, during any year.

No removal of vegetation, grading, filling, draining or other alteration of the nontidal wetlands or buffer outside the limits of disturbance shall occur without written authorization from the Water Management Administration.

REVISION ELIMINATED STORM CEPTOR DESIGN DRAWINGS, ADDED SWM POND #1
RETROFIT DRAWINGS INTHEIR PLACE, WATER QUALITY WILL HOW BE PROVIDED BY FOREBAY IN POND #1.

CHIEF, DEVELOPMENT ENGINEERING DIVISION F. DIVISION -CHIEF, DIVISION OF LAND DEVELOPMENT 2/20/97 REVISED SITE DEVELOPMENT PLAN Revision Description

HOWARD COUNTY DEPT. OF PLANNING & ZONING

PARK ESTATES

Exit-87

ACRES Patapsco

TOWN AND

LOCATION MAP

ELEVATION 469.057 CONTROL STATION 3342001

ELEVATION: HOWARD COUNTY, MARYLAND
BEING A CONCRETE MONUMENT ON TOP OF HOGSBACK
BETWEEN MD. RTE 29 NORTH AND SOUTH, 40000'+/- NORTH
OF U.S. RTE. 40.

COUNTRY WEST SONIE

REPLACEMENT SHEET

The Heartlands Residence

An Assisted Living Facility Howard County, Maryland

OWNER /DEVELOPER THE HEARTLANDS RETIREMENT COMMUNITY -ELLICOTT CITY I, INC.

C/O CONSTELLATION HEALTH SERVICES, INC. 8815 CENTRE PARK DRIVE. SUITE 308 COLUMBIA, MARYLAND 21045

Daft McCune Walker, Inc. 200 East Pennsylvania Avenue Towson, Maryland 21286 (410) 296-3333 Fax 296-4705

2.6.97

Date

Professional Engineer Number: 16872

A Team of Land Planners, Landscape Architects,

SUBCINSON NAME BON SECOURGESTIONARY 2/1 PARCEL B-7 PLATE OR LE BLOCKE THE TAXONE MAY LEST DETRICT PRISE 9900 23 POR 17 2 6026 F03 1454400

EXISTING DRAINAGE AREA MAP

| Scale | 1" = 200' | Proj. No. **81015** QX Dm By DBS Date 7-26-96 10 OF 16 Chk By MK Approved

DELINEATION THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL **DEVELOPERS CERTIFICATE:** CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT

ZONING

LEGEND

RUN OFF CURVE NUMBER

U.S.D.A. NATURAL RESOURCES CONSERVATION SERVICE

THESE PLANS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND

SEDIMENT CONTROL MEET THE REQUIREMENTS OF HOWARD SOIL

HOWARD SOIL CONSERVATION DISTRICT

CONTROL.

CONSERVATION DISTRICT.

PLAN NUMBER

DRAINAGE AREA BOUNDARY

I/WE CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I SHALL ENGAGE A REGISTERED PROFESSIONAL ENGINEER TO SUPERVISE POND CONSTRUCTION AND PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN "AS-BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT.

2-1-97 SIGNATURE OF DEVELOPER PRINT NAME BELOW SIGNATURE DATE

ENGINEERS CERTIFICATE:

piping and catch basins;

stabilization.

charge of the as-built.

378 November, 1992.

Construction and Materials.

General Notes:

SDP-90-204.

(3) During backfill of foundations and trenches:

approves the work previously completed.

be provided to the designated engineer in charge of the as-built.

C. Maryland Department of Transportation State Highway

This site lies within the Patapsco River watershed.

Administration, October, 1993, Standard Specifications for

4. Two, 10 and 100 year stormwater management is required and provided.

6. Current (1995) Conditions peak discharge rates are taken from the approved

7. For Current (1995) Conditions Drainage Area Map refer to SDP-82-75 sheet 23

This facility is private and shall be maintained by the developer.

(4) Upon completion of final grading and establishment of permanent

No work shall proceed until the engineer inspects and

3. A copy of all material supply tickets must be given to the designated engineer in

2. Geotechnical compaction testing of the facility fill area is required. Certification must

Unless otherwise noted, all construction and workmanship shall be in accordance

5. Drainage Area limit and Pre-Developed peak discharge rates are taken from sheet 9 of the approved SDP 82-75 titled "Bon Secours, Howard County Health Park,"

A. Howard County standards and specifications.B. Maryland Soil Conservation Service Standards and Specifications Pond Code

ICERTIFY 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 REQUIRMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT. I HAVE NOTIFIED THE DEVELOPER THAT HE/SHE MUST ENGAGE A REGISTERED PROFESSIONAL ENGINEER TO SUPERVISE POND CONSTRUCTION AND PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN "AS-BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION.

2.6.97 SIGNATURE OF ÉNGINEER PRINT NAME BELOW SIGNATURE MAX Kantzer

SDP 96-104

STORMWATER MANAGEMENT POND

GENERAL CONSTRUCTION SPECIFICATIONS

All stormwater management facilities shall be constructed in accordance with Howard County's "Design Manual, Volume I - Storm Drainage (1995)" and the N.R.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, fences rubbish and other objectionable material unless otherwise designated on the plans. Trees, brush and stumps shall be cut approximately level with the ground surface. For dry stormwater management ponds, a minimum of a 50 foot radius around the inlet structure shall be cleared.

All cleared and grubbed material shall be disposed of outside and below the limits of the dam and reservoir as directed by the owner or his representative. When specified, a sufficient quantity of topsoil will be stockpiled in 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 area. It shall be free of roots, stumps, wood, rubbish, stones greater than 6", frozen or other objectionable materials.

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.

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 structure. Under no circumstances shall equipment be driven over any part of a concrete structure or pipe, unless there is a compacted fill of 24 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

reworked to meet the requirements or removed and replaced by acceptable fill. The bottoms of such excavations shall be finished flat or gently curving and at the sides 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.

PIPE CONDUITS

All pipes shall be circular in cross section.

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

- Materials Reinforced concrete pipe shall have bell and spigot joints and shall equal or exceed ASTM Designation C-76.
- Laying Pipe Bell and spigot pipe shall be placed with the bell end upstream. Joints shall be made in accordance with recommendations of the manufacturer of the material.
- Backfilling shall conform to "Structural Backfill".
- Connections All connections (to manholes, end sections, etc.) shall be watertight.

CONCRETE

Concrete shall meet the requirements of Maryland Department of Transportation, State Highway Administration Standard Specifications for Construction and Materials, Sections 414 and 902, Mix No. 3.

Supply mixture for approval prior to application. Contractor shall supply load and mix tickets for each truckload. No partial field mixes shall be allowed.

ROCK RIP-RAP

Rock rip-rap shall meet the requirements of Maryland Department of Transportation. State Highway Administration Standard Specifications for Construction and Materials, Section 901.02.

LEGEND

DRAINAGE AREA BOUNDARY



SOILS DELINEATION

EROSION AND SEDIMENT CONTROL

STABILIZATION

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.

2.7.97

DATE

The rip-rap shall be placed to the required thickness in one operation. The

place shall be reasonably homogeneous with the larger rocks uniformly

rock shall be delivered and placed in a manner that will insure the rip-rap in

and shall meet the requirements of Maryland Department of Transportation,

State Highway Administration Standard Specifications for Construction and

All work on permanent structures shall be carried out in areas free from water.

cofferdams, drainage channels, and stream diversions necessary to protect the

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

maintenance of the structure. Stream diversions shall be maintained until the full flow can be passed through the permanent works. The removal of water

from the required excavation and the foundation shall be accomplished in a manner and to the extent that will maintain stability of the excavated slopes

and bottom of required excavations and will allow satisfactory performance of

all construction operations. During the placing and compacting of material in

required excavations, the water level at the locations being refilled shall be

maintained below the bottom of the excavation at such locations which may

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

require draining the water to sumps from which the water shall be pumped.

outlet works and so as not to interfere in any way with the operation or

The Contractor shall construct and maintain all temporary dikes, levees,

areas to be occupied by the permanent works. The contractor shall also furnish, install, operate, and maintain all necessary pumping and other

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 12.

All disturbed areas shall be controlled by an Erosion and Sediment Control Plan which has been approved by the Howard Soil Conservation District

<u>SEEDING</u> Seeding, fertilizing and mulching shall be as follows:

Seed Mix: 90% Forager Tall Fescue 10% Kenblue -Applied at a rate of 300 lbs. per acre.

2 tons/acre Dolomitic Limestone. 600 lbs./acre 10-10-10 fertilizer before seeding,

400 lbs./acre 30-0-0 ureaform fertilizer at time of seeding. Straw at 4,000 lbs. per acre.

Mulching tool or emulsified asphalt binder at a rate of 8 gal. per 1,000 square feet.

All filter cloth shall conform to Mirifi 140N, Dupont Typar 3341 or 3401, Supac 5P or approved equal.

Lime:

All gabions shall be P.V.C. coated wire baskets. Stone size shall be 4 inches to 7 inches.

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.

SYMBOL Chester silt loam Glenelg loam GnB2 Glenville silt loam

MID3

Hatboro silt loam Ha MIB2 Manor loam MIC2 Manor loam MIC3 Manor loam MID2 Manor loam

SOILS LEGEND

SOIL NAME

Manor loam

GROUP

... ...

PROPOSED DRAINAGE AREA MAP SCALE: 1"= 200

EVELOPMENT ENGINEERING DIVISION 2/20/97 2-3-97 | REVISED SITE DEVELOPMENT PLAN

u wammen

HOWARD COUNTY DEPT. OF PLANNING & ZONING

REPLACEMENT SHEET

Revision Description

The Heartlands Residence An Assisted Living Facility

Howard County, Maryland

OWNER /DEVELOPER THE HEARTLANDS RETIREMENT COMMUNITY -ELLICOTT CITY I. INC.

C/O CONSTELLATION HEALTH SERVICES, INC. BBIS CENTRE PARK DRIVE, SUITE 308 COLUMBIA, MARYLAND 21045

Professional Engineer Number:16872 Chk By MK

Daft McCune-Walker, Inc. 200 East Pennsylvania Avenue Towson Maryland 21286 (410) 296-3333

A Team of Land Planners, Landscape Architects, Engineers, Surveyors &

SUBDIVISION NAME BON SECOURS SECTIONARES PARCEL B-7 HO. CO. HEALTH PARK

PLATE OR LE 32XE ZONE TAYZONE MAP

9898-9900 23 FOR 17 F03 1454400

PROPOSED DRAINAGE AREA MAP

Proj. No. 81015, QX Des By CJN Scale: 1" = 200 Date 7-26-96 Dm By DBS 11 OF 16

Approved

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.

U.S.D.A. NATURAL RESOURCES CONSERVATION SERVICE

PLAN NUMBER

SEDIMENT CONTROL MEET THE REQUIREMENTS OF HOWARD SOIL CONSERVATION DISTRICT. 5 1 35 HOWARD SOIL CONSERVATION DISTRICT

THESE PLANS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND

DEVELOPERS CERTIFICATE:

SIGNATURE OF DEVELOPER PRINT NAME BELOW SIGNATURE

I/WE CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I SHALL ENGAGE A REGISTERED PROFESSIONAL ENGINEER TO SUPERVISE POND CONSTRUCTION AND PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN "AS-BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT.

accompanying drawings.

Materials, Section 921.09.

CARE OF WATER DURING CONSTRUCTION

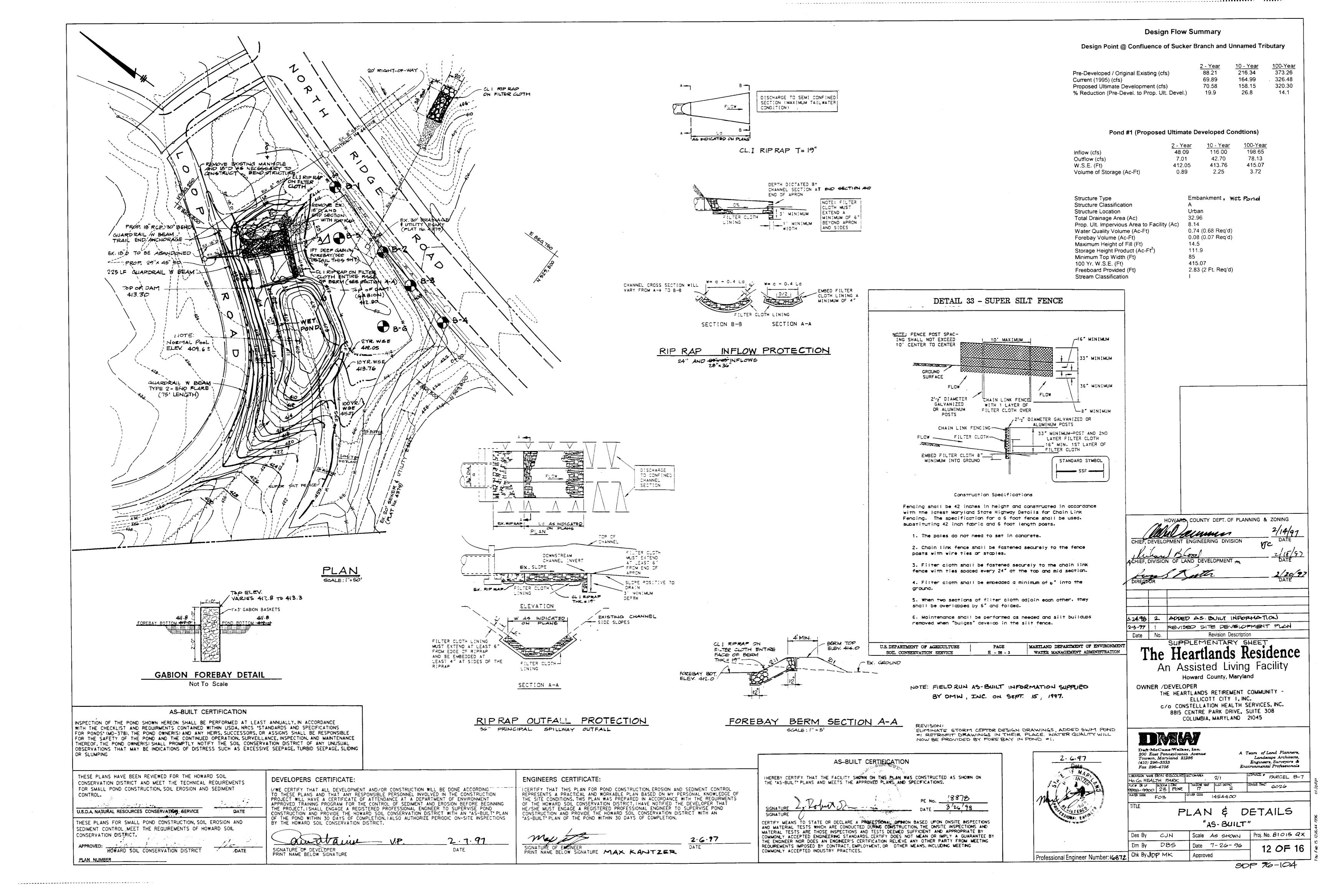
OF THE HOWARD SOIL CONSERVATION DISTRICT. IHAVE NOTIFIED THE DEVELOPER THAT HE/SHE MUST ENGAGE A REGISTERED PROFESSIONAL ENGINEER TO SUPERVISE POND CONSTRUCTION AND PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN "AS-BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION. SIGNATURE OF ENGINEER PRINT NAME BELOW SIGNATURE MAX KANTZER

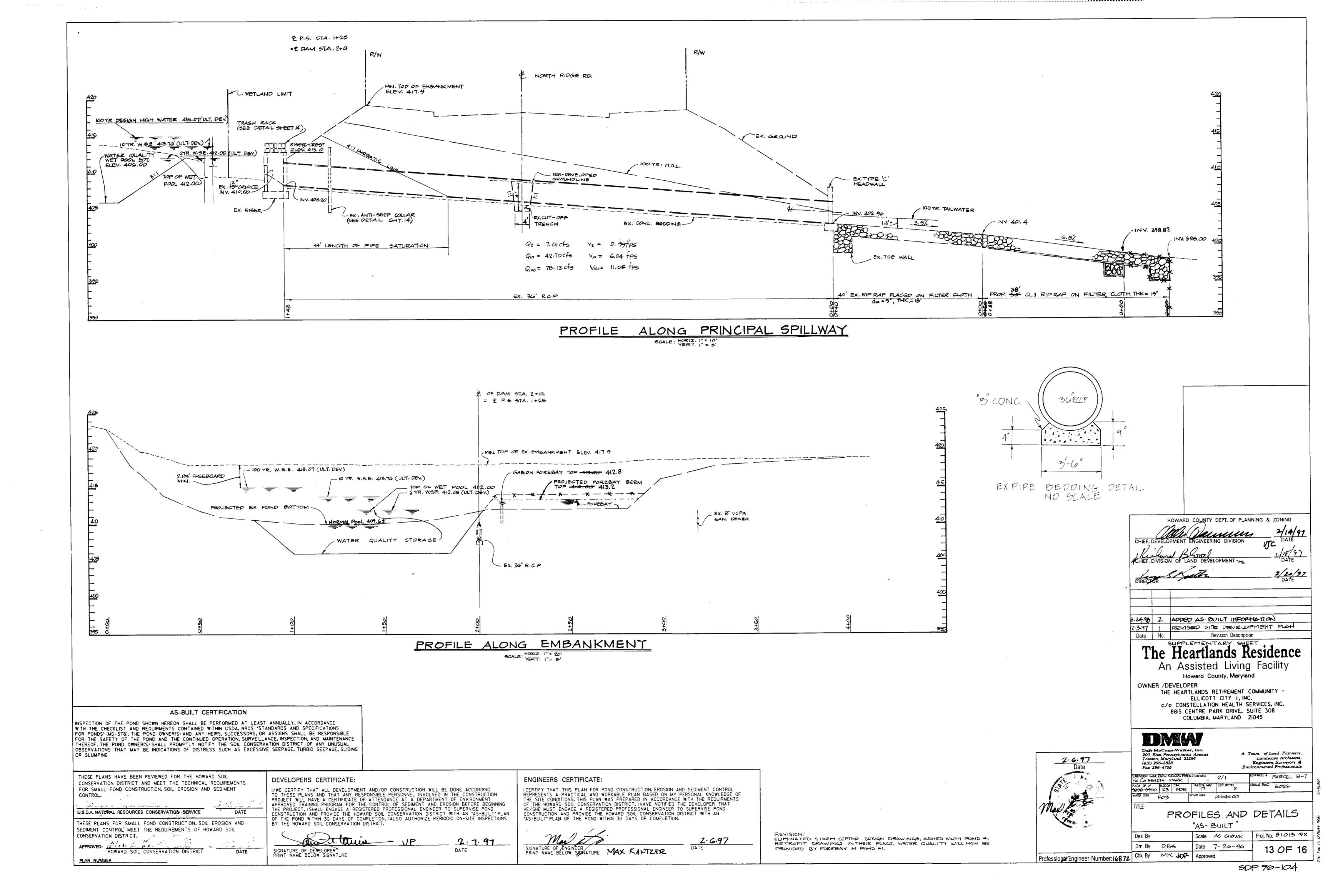
ICERTIFY THAT THIS PLAN FOR POND CONSTRUCTION, EROSION AND SEDIMENT CONTROL

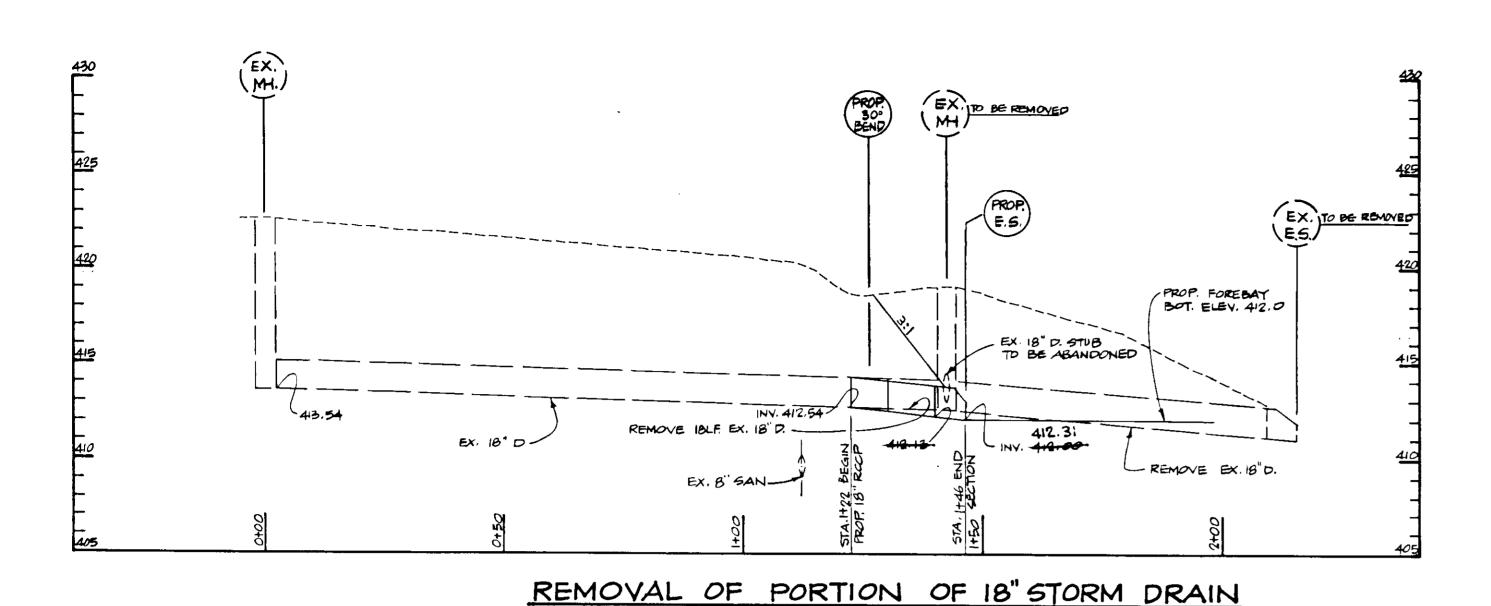
REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIRMENTS

ENGINEERS CERTIFICATE:

ELIMINATED STORM CEPTOR DESIGN DRAWINGS, ADDED SWM POND#1 RETROFIT DRAWINGS IN THEIR PLACE, WATER QUALITY WILL HOW BE PROVIDED BY FOREBAY IN POND #1.



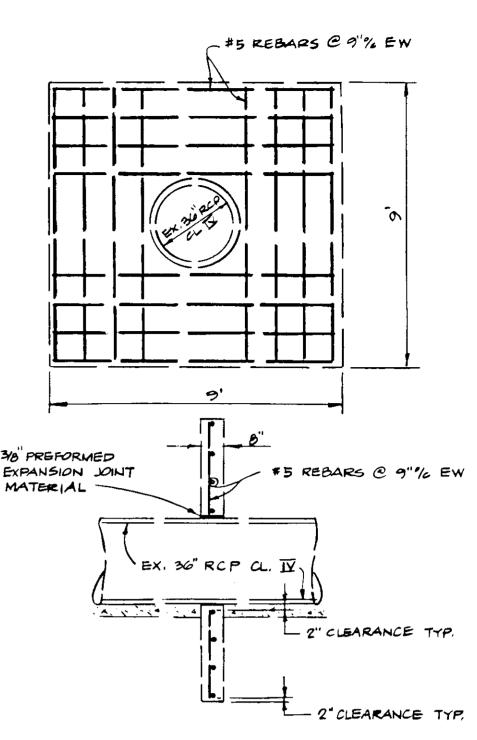




TACK WELD AT CONTACT INV. 15" ORIFICE ELEV. 410,00 INV. 36" RCP ELEV. 408.30 EXISTING RISER AND TRASH RACK DETAIL

REBAR SCREEN #3 BARS@ 3"% EW

TRASH RACK REBARS



EXISTING ANTI SEEP COLLAR

A letter of authorization #96-NT-0728/199665144 has been issued by the state of Maryland to allow 4,800 S.F. of disturbance to the 25 foot non-tidal wetland buffer. The work also includes extension of rip-rap outlet protection at the SWM pond pipe outfall. The work is subject to the following conditions:

STANDARD CONDITIONS:

<u>Validity</u>: Authorization is valid only for use by Authorized Person. uthorization may be transferred only with prior written approval of the Administration. In the event of transfer, transferee agrees to comply with all terms and conditions of Authorization.

Initiation of Work, Modifications, and Extension of Term: Authorized Person shall initiate authorized activities within two (2) years of the Effective Date of this Authorization or the Authorization shall expire. Authorized Person may submit written requests to the Administration for (a) extension of the period for initiation of work, (b) modification of Authorization, including the approved plan, or, (c) not later than 45 days prior to Expiration Date, an extension of the term. Requests for modification shall be in accordance with applicable regulations and shall state reasons for changes, and shall indicate the impacts on nontical wetlands, streams, and the floodplain, as applicable. The Administration may grant a request at its sole discretion.

Responsibility and Compliance: Authorized Person is fully responsible for work performed and activities authorized by this Authorization shall be performed in compliance with this Authorization and approved plan. Authorized Person agrees that a copy of the Authorization and approved plan shall be kept at the construction site and provided to its employees. agents and contractors. A person (including Authorized Person, its employees, agents or contractors) who violates or fails to comply with the terms and conditions of this Authorization, Approved plan or administrative order may be subject to penalties in accordance with §5-514 and §5-911. Environment Article, Annotated Code of Maryland. Failure to Comply: If Authorized Person, its employees, agents or

contractors fail to comply with this Authorization or approved plan, the Administration may, in its discretion, issue an administrative order requiring Authorized Person, its employees, agents and contractors to cease and desist any activities which violate this Authorization, or the Administration may take any other enforcement action available to it by law, including filing civil or criminal charges. Suspension or Revocation: Authorization may be suspended or revoked by the Administration, after notice of opportunity for a hearing, if

Authorized Person: (a) submits false or inaccurate information in Permit application or subsequently required submittals; (b) deviates from the approved plan, specifications, terms and conditions: (c) violates, or is about to violate terms and conditions of this Authorization; (d) violates. or is about to violate, any regulation promulgated pursuant to Title 5. Environment Article, Annotated Code of Maryland as amended; (e) fails to allow authorized representatives of the Administration to enter the site of authorized activities at any reasonable time to conduct inspections and evaluations; (f) fails to comply with the requirements of an administrative action or order issued by the Administration; or (g) does not have vested rights under this Authorization and new information. changes in site conditions, or amended regulatory requirements necessitate

revocation or suspension. Other Approvals: Authorization does not authorize any injury to private property, any invasion of rights, or any infringement of federal, State or local laws or regulations, nor does it opviate the need to optain required authorizations or approvals from other State, federal or local agencies as required by law.

Site Access: Authorized Person shall allow authorized representatives of the Administration access to the site of authorized activities during normal business hours to conduct inspections and evaluations necessary to assure compliance with this Authorization. Authorized Person small provice necessary assistance to effectively and safely conduct such inspections

and evaluations.

Inspection Notification: Authorized Person shall notify the Administration's Enforcement Division at least five (5) days before starting authorized activities and five (5) days after completion. For Frederick, Washington, Allegany and Garrett counties, Authorized Person snall call (301) 689-8494. For all other counties, call the Baltimore office at (410) 631-3510.

<u>Segiment Control</u>: Authorized Person shall obtain approval from the <u>Howard</u> <u>Soil Conservation District</u> for a grading and sediment control plan specifying soil erosion control measures. The approved grading and sediment control plan shall be included in the approved plan, and shall be available at the construction site.

Federally Mandated State Authorizations:

X Water Quality Certification: Authorized activities shall be performed in accordance with Maryland Department of the Environment Water Quality N/A Coastal Zone Consistency: This Authorization constitutes official notification that authorized activities are consistent with the Maryland Coastal Zone Management Program, as required by Section 307 of the Federal Coastal Zone Management Act of 1972, as amended. Activities within the following counties are not subject to this requirement: Allegany, Carroll Frederick, Garrett, Howard, Montgomery, and Washington. 11. <u>Best Management Practices During Construction</u>: Authorized Person, its employees, agents and contractors shall conduct authorized activities in a manner consistent with the Best Management Practices specified by the

SCALE: HORIZ. 1" = 20'

Administration. Disposal of Excess: Unless otherwise shown on the approved plan, all . spoil material, debris, and construction material shall be disposed of outside of nontidal wetlands, nontidal wetlands buffers, and the 100-year floodplain, and in a location and manner which does not adversely impact surface or subsurface water flow into or out of nontigal

Temporary Stading Areas: Temporary construction trailers or structures staging areas and stockpiles shall not be located within nontidal wetland nontidal wetlands buffers, or the 100-year floodplain unless specifically included on the Approved plan.

Tamporary Stream Access Crossings: Temporary stream access crossings shall not be constructed or utilized unless snown on the approved plan. If temporary stream access crossings are determined necessary prior to initiation of work or at any time during construction, Authorized Person, its employees, agents or contractors shall submit a written request to the Administration and secure the necessary permits or approvals for such crossings before installation of the crossings. Temporary stream access crossings shall be removed and the disturbance stabilized prior to completion of authorized activity or within one (1) year of installation. Discharge: Runoff or accumulated water containing sediment or other

suspended materials shall not be discharged into waters of the State unless

treated by an approved sediment control device or structure. Instream Construction Promibition: To protect important aquatic species. motor driven construction equipment shall not be allowed within stream channels unless on authorized ford crossings. Activities within stream channels are prohibited as determined by the classification of the stream (COMAR 26.08.02.08): <u>Sucker Branch</u> is a Use <u>I</u> waterway; in-stream work may not be conducted from <u>March 1 through June 15</u>, inclusive, of any year.

Instream Blasting: Authorized Person shall obtain prior written approval from the Administration before blasting or using explosives in the stream 18. Minimum Disturbance: Any disturbance of stream banks, channel bottom. wetlands, and wetlands buffer authorized by Permit or approved plan snall be the minimum necessary to conduct permitted activities. All disturbed areas small be stabilized vegetatively no later than seven (7) days after construction is completed or in accordance with the approved grading or

sediment and erosion control plan. Restoration of Construction Site: Authorized Person shall restore the construction site upon completion of authorized activities. Undercutting, meandering or degradation of the stream banks or channel bottom, any deposition of sediment or other materials, and any alteration of wetland vegetation, soils, or hydrology, resulting directly or indirectly from construction or authorized activities, shall be corrected by Authorized Person as directed by the Administration.

CONDITIONS AND MANAGEMENT PRACTICES FOR WORK CONDUCTED IN NONTIDAL WETLAND AND BUFFER

Remove excess fill or construction material or debris to an upland disposal

Place materials in a location and manner which does not adversely impact surface or subsurface water flow into or out of remaining nontidal wetland

Maintain the hydrologic regime of the nontidal wetlands upstream, downstream, or adjacent to the regulated activity: Repair and maintain any serviceable structure or fill so there is no permanent loss of montidal wetlands in excess of montidal wetlands lost under the original structure or fill.

HOWARD COUNTY DEPT. OF PLANNING & ZONING DEVELOPMENT ENGINEERING DIVISION 2/20/5 124-76 2. ADDED AS-BUILT INFORMATION REVISED SITE DEVELOPMENT PLAN Revision Description SUPPLEMENTARY SHEET The Heartlands Residence

An Assisted Living Facility

Howard County, Maryland OWNER /DEVELOPER

THE HEARTLANDS RETIREMENT COMMUNITY -ELLICOTT CITY I. INC. C/O CONSTELLATION HEALTH SERVICES, INC. 8815 CENTRE PARK DRIVE, SUITE 308

COLUMBIA, MARYLAND 21045

Daft McCune Walker, Inc. 200 East Pennsylvania Avenue Towson, Maryland 21286 (410) 296-3333

A Team of Land Planners, Landscape Architects,

Engineers, Surveyors & Fax 296-4705 PARCEL B-7 HO, CO, HEALTH PARK 9898-9900 23 POR F03 1454400

PROFILES AND DETAILS

"AS - BUILT Des By しょん Scale AS SHOWN Proj. No. 81015 QX Dm By Des Date 7-20-96 Professional Engineer Number: 16872 Chk By MK 40F Approved

AS-BUILT CERTIFICATION

INSPECTION OF THE POND SHOWN HEREON SHALL BE PERFORMED AT LEAST ANNUALLY, IN ACCORDANCE WITH THE CHECKLIST AND REQUIRMENTS CONTAINED WITHIN USDA, NRCS "STANDARDS AND SPECIFICATIONS FOR PONDS' (MD-378). THE POND OWNER(S) AND ANY HEIRS, SUCCESSORS, OR ASSIGNS SHALL BE RESPONSIBLE FOR THE SAFETY OF THE POND AND THE CONTINUED OPERATION, SURVEILLANCE, INSPECTION, AND MAINTENANCE THEREOF. THE POND OWNER(S) SHALL PROMPTLY NOTIFY THE SOIL CONSERVATION DISTRICT OF ANY UNUSUAL OBSERVATIONS THAT MAY BE INDICATIONS OF DISTRESS SUCH AS EXCESSIVE SEEPAGE, TURBID SEEPAGE, SLIDING OR SLUMPING

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.

U.S.D.A. NATURAL RESOURCES CONSERVATION SERVICE

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

APPROVED: HOWARD SOIL CONSERVATION DISTRICT DEVELOPERS CERTIFICATE:

I/WE CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION TO THESE PLANS AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT. WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I SHALL ENGAGE A REGISTERED PROFESSIONAL ENGINEER TO SUPERVISE POND CONSTRUCTION AND PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN "AS-BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT.

2.7.91 DATE

ENGINEERS CERTIFICATE:

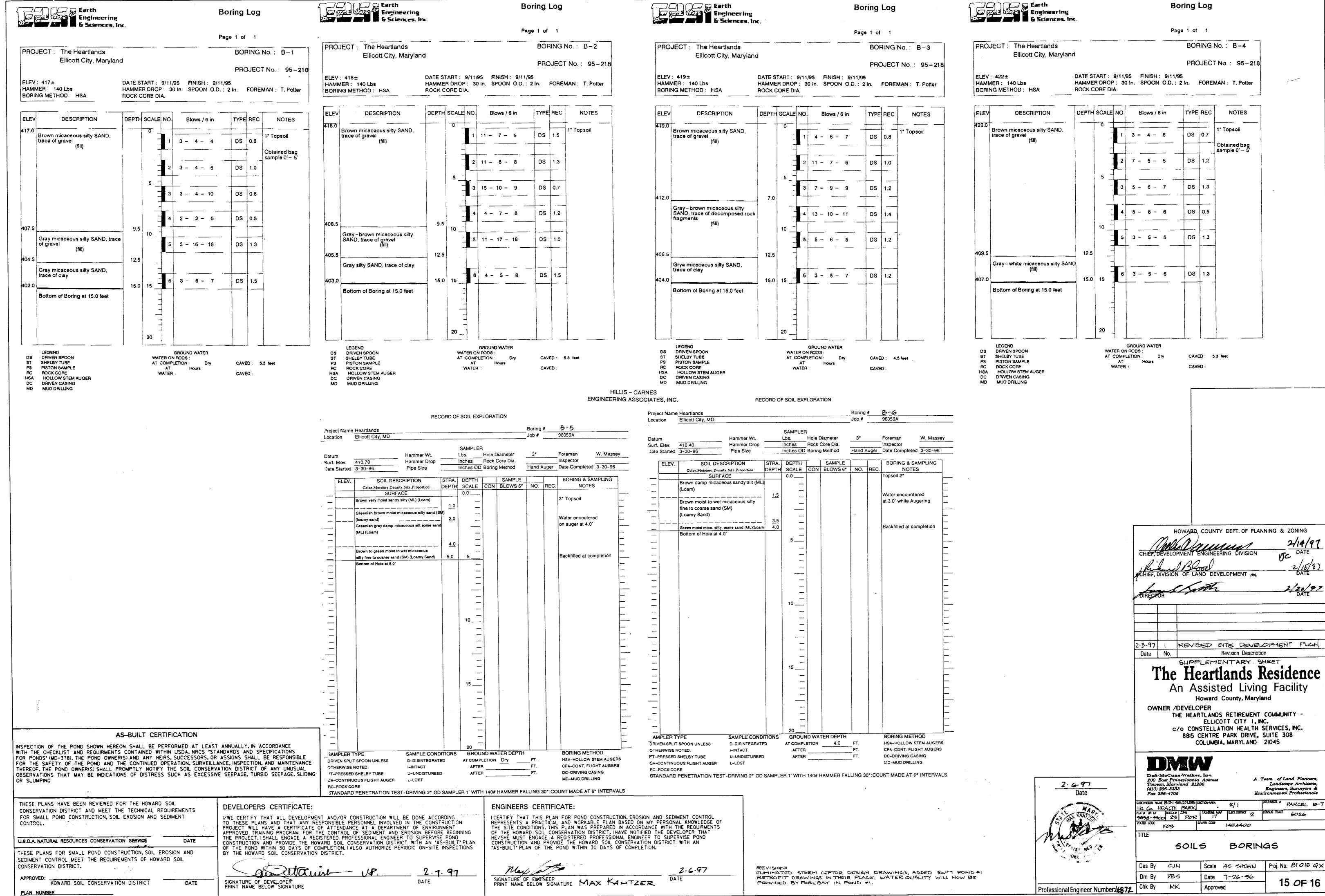
ICERTIFY THAT THIS PLAN FOR POND CONSTRUCTION, EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIRMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT. I HAVE NOTIFIED THE DEVELOPER THAT HE/SHE MUST ENGAGE A REGISTERED PROFESSIONAL ENGINEER TO SUPERVISE POND CONSTRUCTION AND PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN "AS-BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION.

ELIMINATED STORM CEPTOR DESIGN DRAWINGS, ADDED SWM POND #1 RETROFIT DRAWINGS IN THEIR PLACE. WATER QUALITY WILL HOW BE PROVIDED BY FOREBAY IN POND #1.

SDP 96-104

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SIGNATURE OF DEVELOPER PRINT NAME BELOW SIGNATURE



Boring Log

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