

VICINITY MAP
SCALE 1" = 2000'

HOWARD COUNTY SOIL CONSERVATION
STANDARD SPECIFICATIONS REQUIREMENTS

James M. John 2-10-89
DATE

Robert W. Ziehm 2/10/89
DATE

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS
HOWARD COUNTY HEALTH DEPARTMENT

John John 2-15-89
COUNTY HEALTH OFFICER DATE

APPROVED HOWARD COUNTY OFFICE OF PLANNING & ZONING

[Signature] 2-23-89
DIRECTOR DATE

[Signature] 2-17-89
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT DATE LKS

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE
STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

[Signature] 2-15-89
DIRECTOR DATE

[Signature]
CHIEF BUREAU OF ENGINEERING DATE

PARKING DATA

50' x 40' 50' FT. OFFICE SPACE
250 SQ. FT. / 1 EMPLOYEE
1,998 SQ. FT. OFFICE SPACE YIELDS 7,992 EMPLOYEES

7 PARKING SPACES REQUIRED/10 EMPLOYEES
219 EMPLOYEES REQUIRE 152 PARKING SPACES

222 PARKING SPACES REQUIRED
222 PARKING SPACES PROVIDED (INCLUDING 7 HANDICAP SPACES)

1 HANDICAP PARKING SPACE 9' X 13'
19 HANDICAP PARKING SPACES 13' X 18'

NOTES

1. TOTAL AREA OF SITE = 7.659 AC. (333,426 SF)
2. PLANNED GREEN AREA = 10.5 AC. (457,200 SF)
3. TOTAL GREEN AREA PROVIDED = 5.10 AC. (221,120 SF)
4. BUILDING COVERAGE OF SITE = 34.24% (147,804 SF)
5. LANDSCAPED ISLANDS REQUIRED = 11,988 SF (16.6%)
6. LANDSCAPED ISLANDS PROVIDED = 11,988 SF (16.6%)

LANDSCAPED ISLANDS REQUIRED (5% OF PARKING AREA) = 3610.4 SF
LANDSCAPED ISLANDS PROVIDED = 11,988 SF (16.6%)

NOTES

1. SEE SHEET NO. 2 FOR BLDG. DIMENSIONS
2. HANDICAP PARKING SIGN (H) LOCATED IN FRONT OF EACH HANDICAP PARKING SPACE - SEE SHEET 2 OF 5 FOR SIGN DETAILS
3. SIDEWALK ADJACENT TO PRIVATE ENTRANCE DR. - CONFORMS TO PROPOSED SIDEWALK ALONG DORSEY HALL DRIVE - SEE HOWARD COUNTY DESIGN MANUAL VOL. IV STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION (TYPICAL SECTION LOCAL STREETS) FOR SIDEWALK CONNECTION
4. REFERENCE S 78-20 P 34-27 P 86-26 P 85-16 P 85-56 AND VP 87/97 P 48-37 P 29-35 AND PLANNING BOARD CASE NO. 184

LOT NUMBER	STREET ADDRESS
GROUP A	5052 DORSEY HALL DRIVE
GROUP B	5054 " " " "
GROUP C	5056 " " " "
GROUP D	5058 " " " "
GROUP E	5060 " " " "
GROUP F	5062 " " " "
GROUP G	5064 " " " "
GROUP H	5066 " " " "
GROUP I	5068 " " " "
GROUP J	5070 " " " "
GROUP K	5072 " " " "
GROUP L	5074 " " " "
GROUP M	5076 " " " "
GROUP N	5078 " " " "
GROUP O	5080 " " " "
GROUP P	5082 " " " "
GROUP Q	5084 " " " "
GROUP R	5086 " " " "
GROUP S	5088 " " " "
GROUP T	5090 " " " "
GROUP U	5092 " " " "
GROUP V	5094 " " " "
GROUP W	5096 " " " "
GROUP X	5098 " " " "
GROUP Y	5100 " " " "
GROUP Z	5102 " " " "

SUBDIVISION NAME: DORSEY HALL
SECT./AREA: 2 / 5
LOT/PARCEL: N-1

PLAT # OR CASE: 1999
BLOCK # ZONE: 4 FOR
TAX/ZONE MAP: 50
ELEC. DIST: 2
COUNTY: 02301

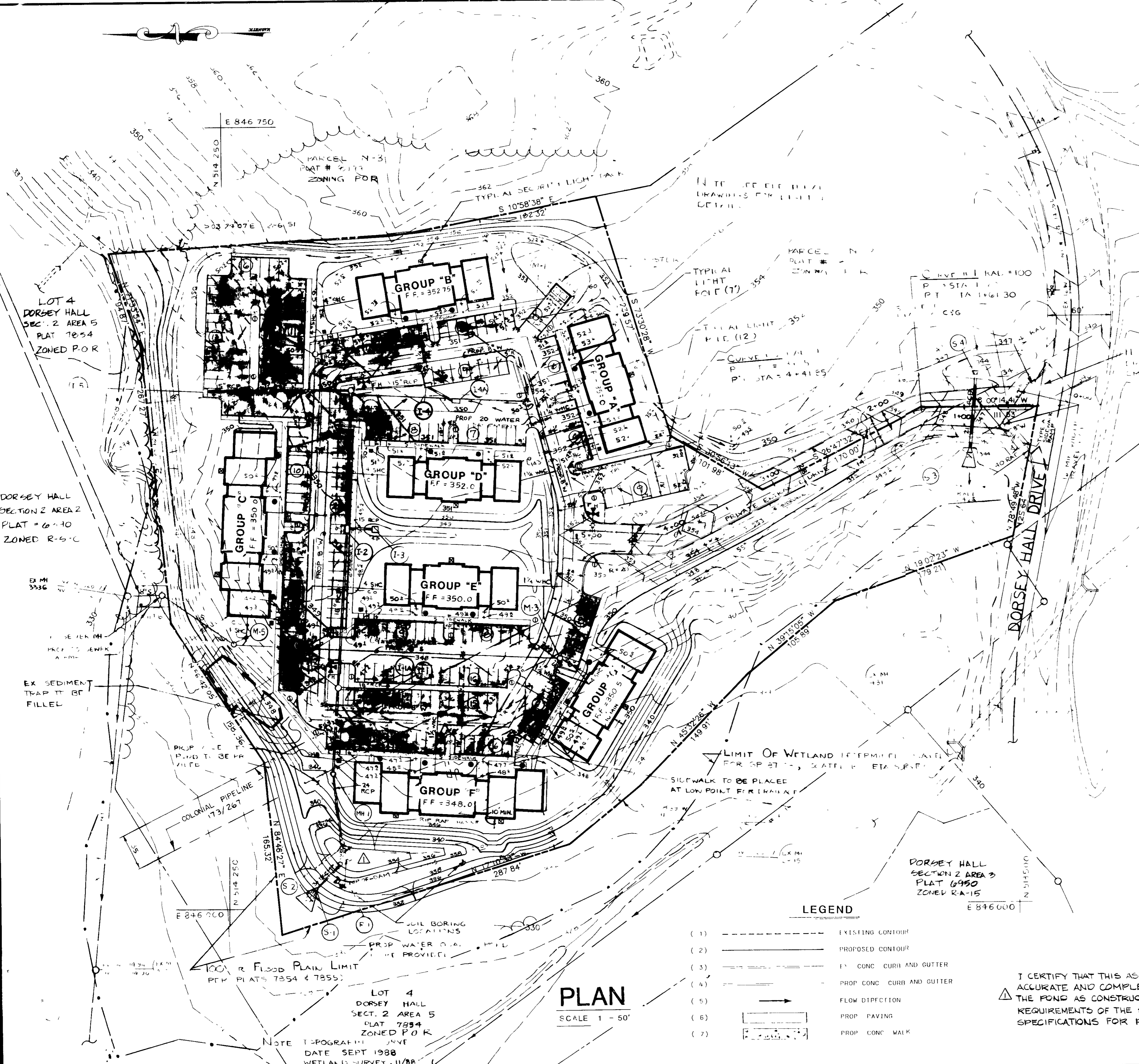
WATER CODE: F02
SEWER CODE: S750000

I CERTIFY THAT THIS AS-BUILT IS ACCURATE AND COMPLETE AND THAT THE POND AS CONSTRUCTED MEETS THE REQUIREMENTS OF THE STANDARDS AND SPECIFICATIONS FOR PONDS.

James M. John 2-1-89
DATE
LKS

- LEGEND
- (1) --- EXISTING CONTOUR
 - (2) --- PROPOSED CONTOUR
 - (3) --- CONC. CURB AND GUTTER
 - (4) --- PROP. CONC. CURB AND GUTTER
 - (5) --- FLOW DIRECTION
 - (6) --- PROP. PAVING
 - (7) --- PROP. CONC. WALK

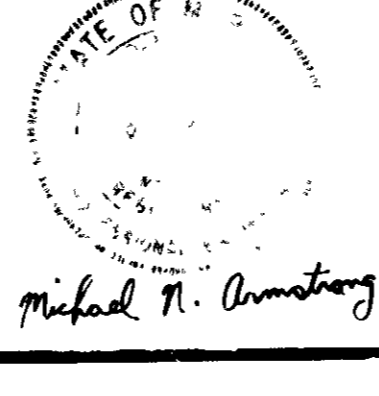
PLAN
SCALE 1" = 50'



REVISIONS

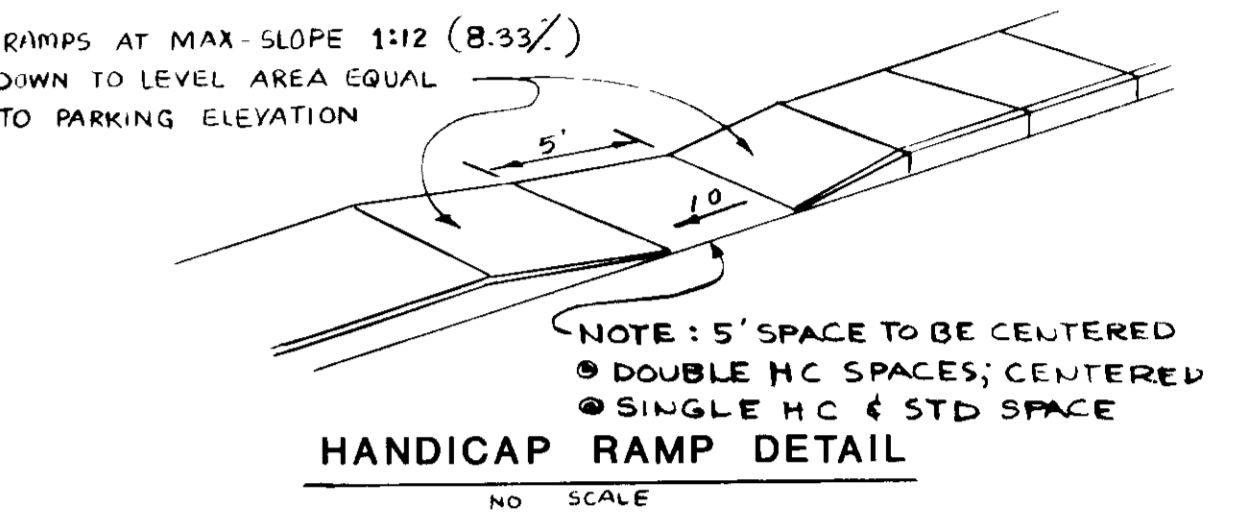
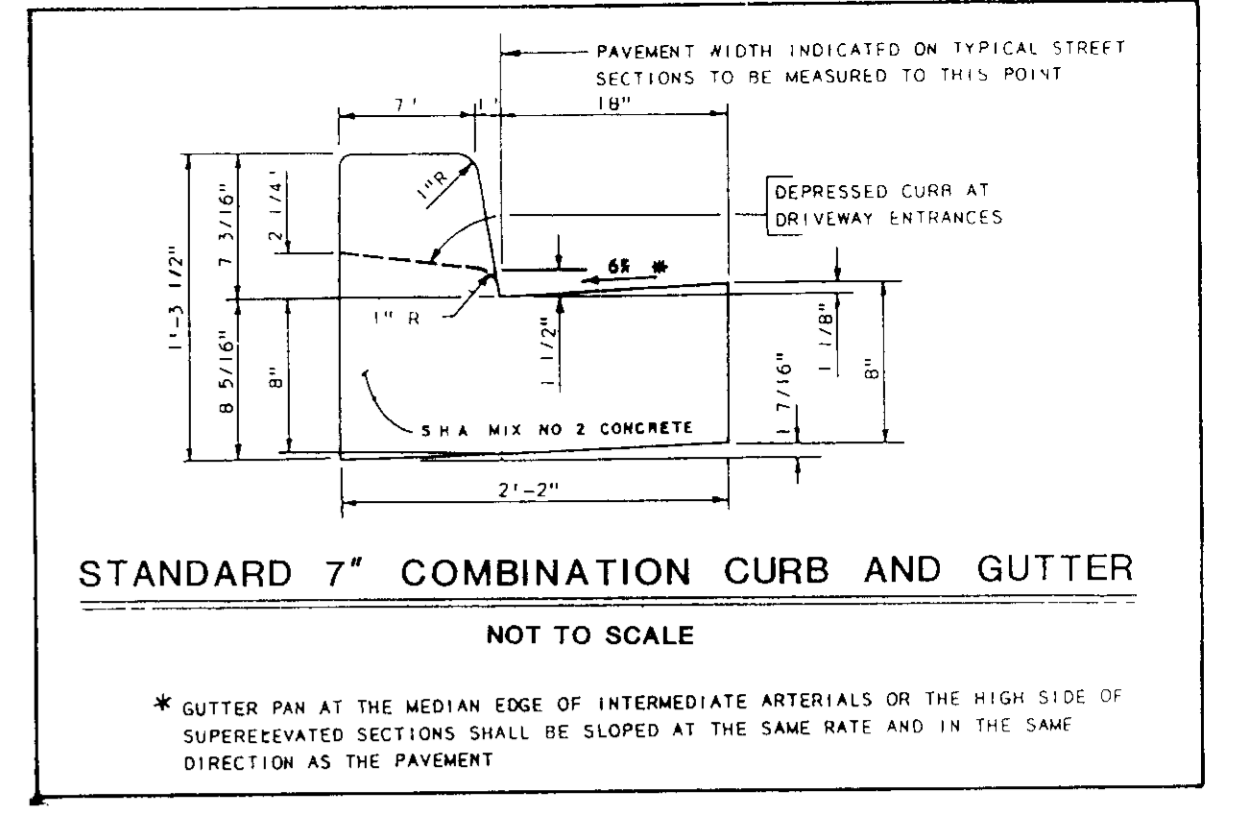
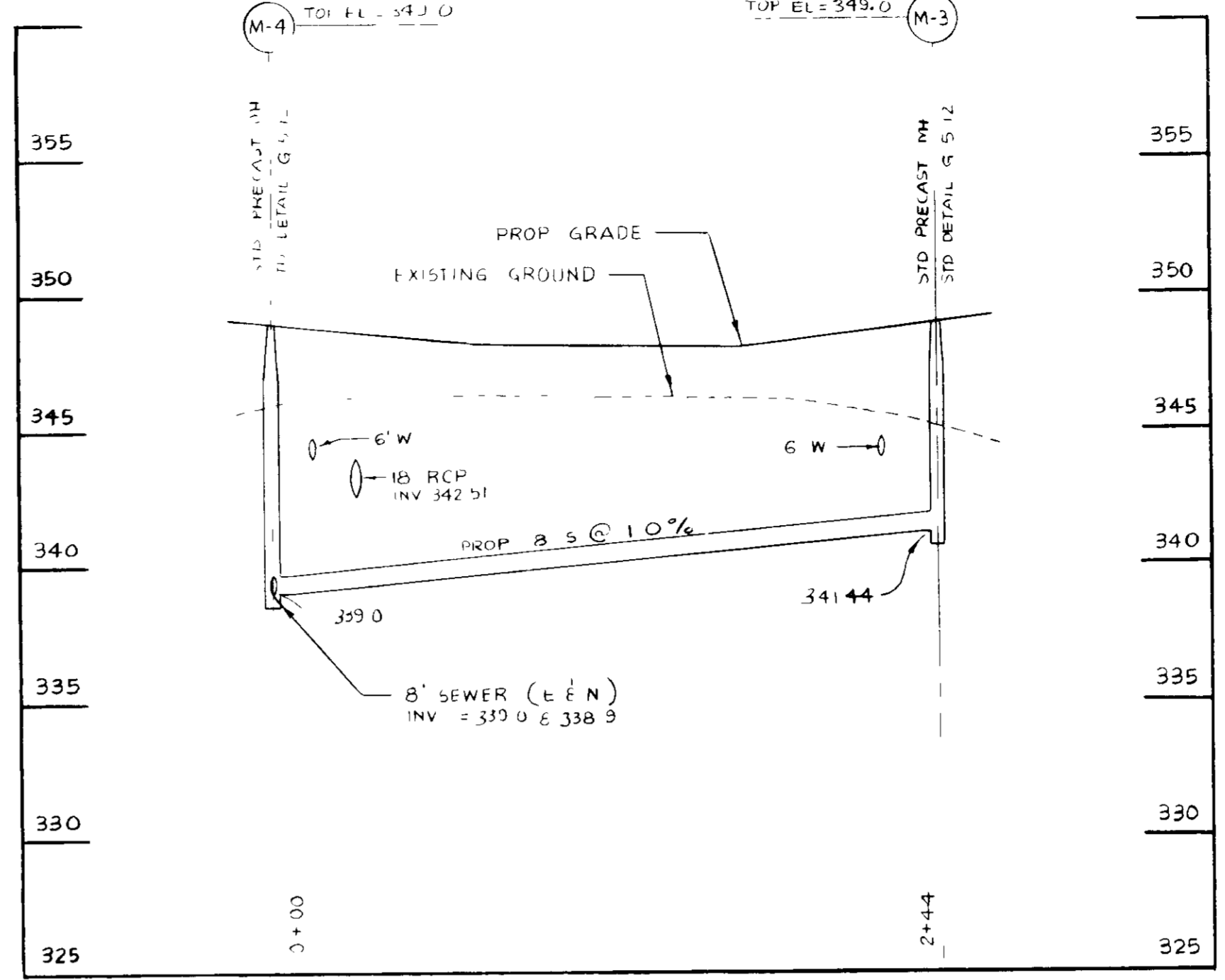
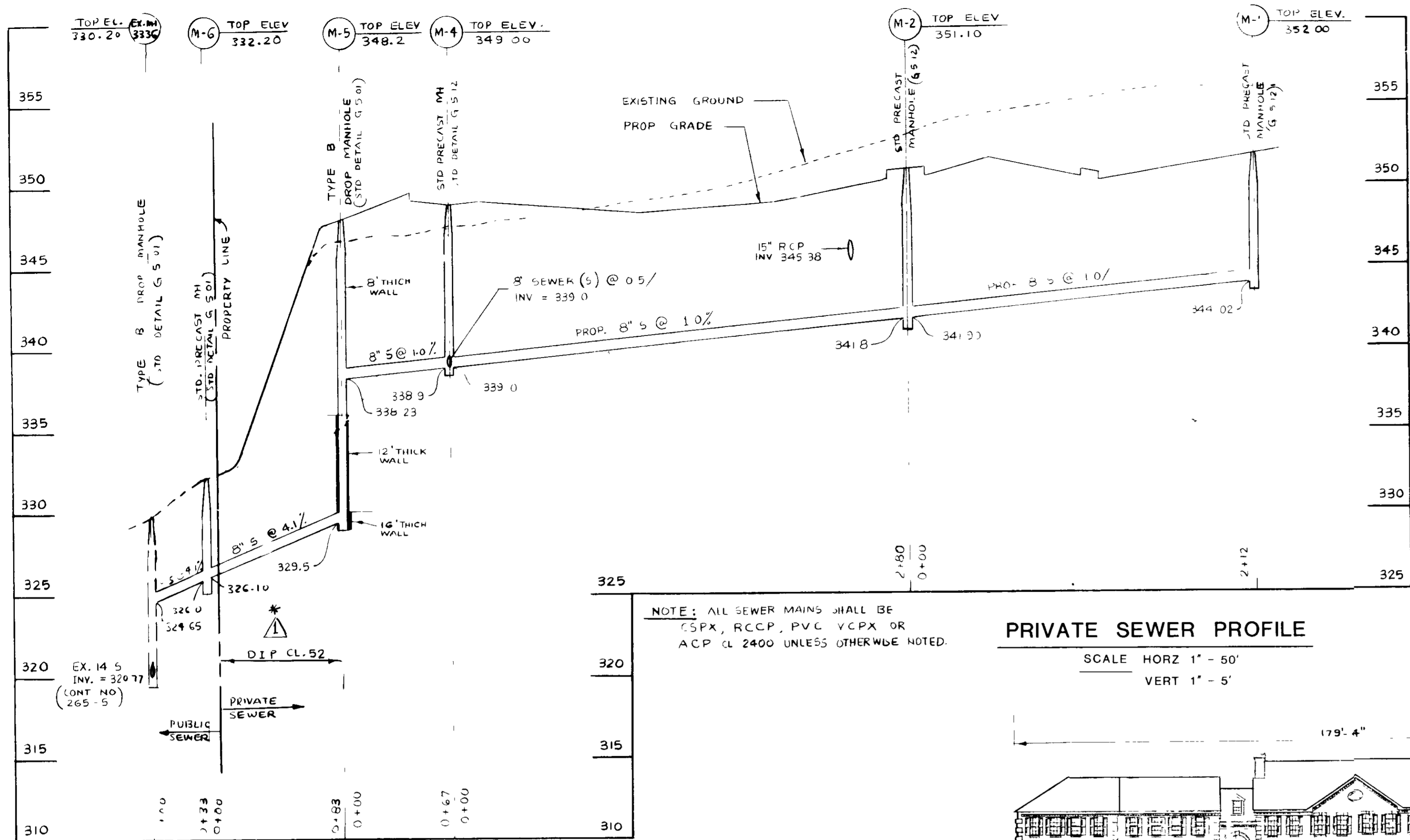
DESIGNED	DATE	BY	DESCRIPTION
MNA	6/5/92	SP	AS-BUILT
DRAWN	10/88		
CHECKED	12/88		
APPROVED			

ENGINEERING TECHNOLOGIES ASSOCIATES, INC.
ENGINEERS * PLANNERS * SURVEYORS
3458 ELLICOTT CENTER DRIVE SUITE 101
ELLICOTT CITY, MARYLAND 21043
BALTO 461-9920 WASH 621-4690



OWNER / DEVELOPER
ELLICOTT RIDGE CORPORATION II
DYSON CONSTRUCTION CO, INC
3440 ELLICOTT CENTER DRIVE SUITE 101
ELLICOTT CITY, MARYLAND 21043
(301) 461-4188

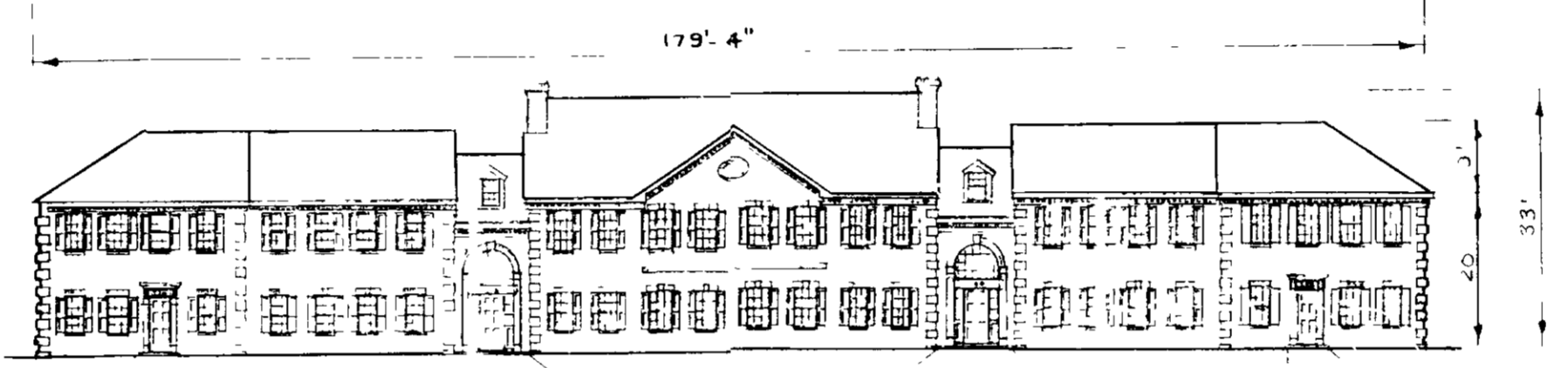
SITE DEVELOPMENT PLAN
DORSEY HALL
(OFFICE CONDOMINIUMS)
SECTION - 2 AREA - 5 PARCEL N-1
2ND ELECTION DISTRICT, HOWARD COUNTY, MARYLAND
SCALE: AS SHOWN CONTRACT NO. DATE: 1988



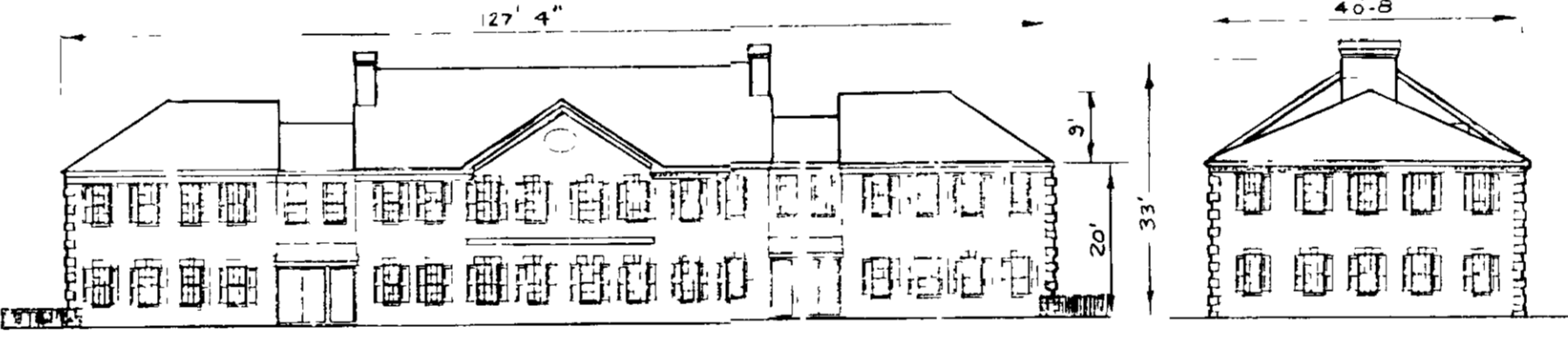
NOTE: ALL SEWER MAINS SHALL BE CSPX, RCCP, PVC VCPX OR ACP CL 2400 UNLESS OTHERWISE NOTED.

PRIVATE SEWER PROFILE

SCALE HORZ 1" = 50'
VERT 1" = 5'

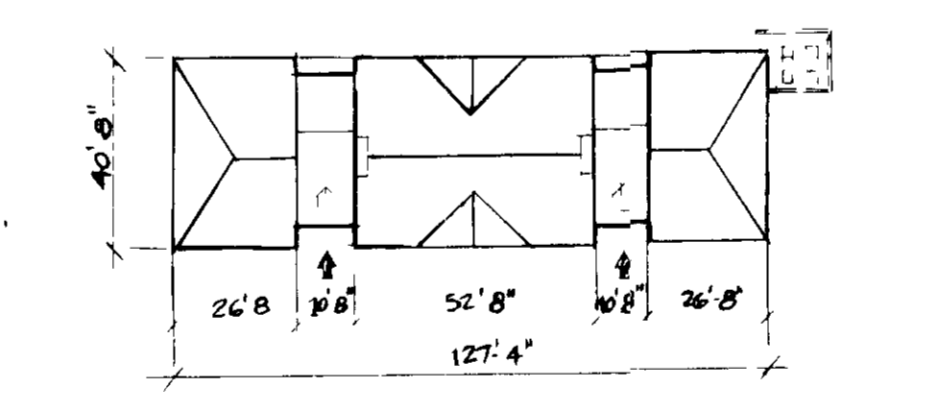


BUILDING PROFILE (GROUP C AND F)

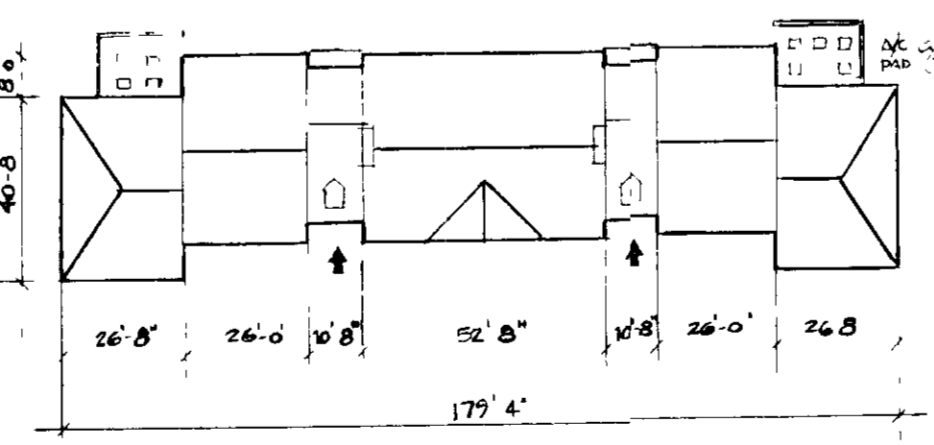


BUILDING PROFILE (GROUP A, B, D, E, AND G)

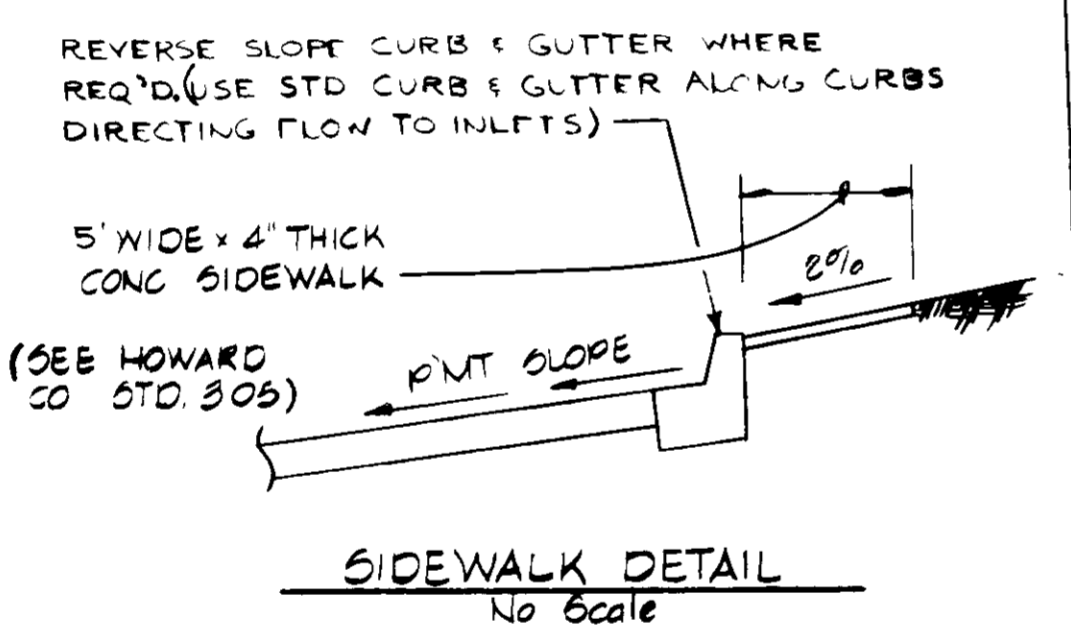
SIDE ELEVATION



FOOTPRINT - TYPICAL (GROUP A, B, D, E, AND G)



FOOTPRINT - TYPICAL (GROUP C AND F)



SIDEWALK DETAIL

* NOTE: SEWER FROM M-5 TO M-6 TO BE 8" DIP

SEC. NO.	ROAD AND STREET CLASSIFICATION	PAVEMENT INTERIERS	CANALIZATION ALTERNATIVE
P-1	LOCAL AREA AND TRAVELWAY	1" BIT CONG SURFACE	1" BIT CONG SURFACE
	TRAVELWAY AND TRAVELWAY	4" BIT CONG SURFACE	4" BIT CONG SURFACE



HANDICAPPED PARKING SIGN DETAIL (NO SCALE)

GENERAL NOTES

- ALL WORK SHALL BE DONE IN ACCORDANCE WITH HOWARD COUNTY STANDARDS SPECIFICATIONS AND DETAILS FOR CONSTRUCTION
- ANY DAMAGE TO PUBLIC RIGHT-OF-WAY OR EXISTING UTILITIES WILL BE CORRECTED AT THE EXPENSE OF CONTRACTOR
- ALL UTILITY COMPANIES MUST BE NOTIFIED 24 HOURS IN ADVANCE OF AN CONSTRUCTION
- THE LAND INCLUDED IN THIS PLAN IS ZONED : POR (Planned Office & Research)
- THE AREA SHOWN IN THIS SUBMISSION IS LOCATED ON ZONE MAP NO. 30
- TYPE OF SOIL : MANOR LOAM
- THE CONTRACTOR OR DEVELOPER SHALL CONTACT THE CONSTRUCTION INSPECTION/SURVEY DIVISION, 24 HOURS IN ADVANCE OF COMMENCEMENT OF WORK AT 792-7272"
- SITE ANALYSIS
 - A TOTAL AREA OF SITE = 7,659 AC
 - B TOTAL AREA OF PARKING = 72,208 SF
 - C TOTAL BLDG COVERAGE = 31,249 SF
 - D OPEN SPACE (GREEN AREA) = 222,169 SF

James M. Hester
Soil Conservation Service
2-10-89
Date

Robert W. Ziehm
Howard Soil Conservation District
2-10-89
Date

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS
HOWARD COUNTY HEALTH DEPARTMENT
3/15/89
DATE

APPROVED HOWARD COUNTY OFFICE OF PLANNING & ZONING
2/22/89
DATE

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE
STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
3/15/89
DATE

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE
STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
3-13-89
DATE

REVISIONS			
DESIGNED	DATE	BY	DESCRIPTION
KAP	10/88		
DRAWN	10/88	KAP	ADDED NOTE
CHECKED	10/88		
APPROVED			

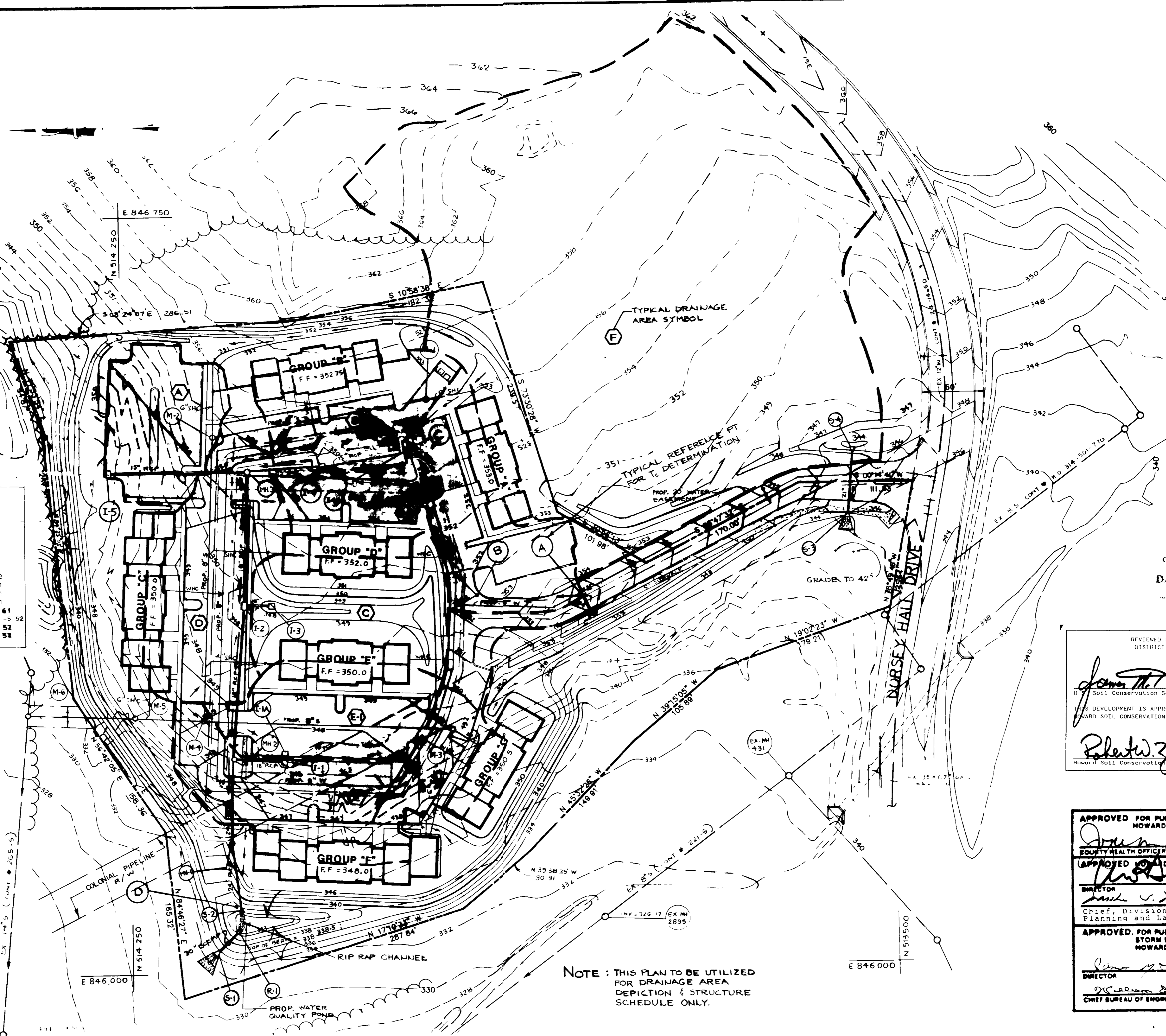
ENGINEERING TECHNOLOGIES ASSOCIATES, INC.
ENGINEERS, SURVEYORS, CONSTRUCTION MANAGERS
3458 ELLICOTT CENTER DRIVE
ELLICOTT CITY, MD. 21043
(301) 461-9920

Michael N. Armstrong

OWNER / DEVELOPER
ELLICOTT RIDGE CORPORATION II
DYSON CONSTRUCTION CO, INC
3440 ELLICOTT CENTER DRIVE, SUITE 101
ELLICOTT CITY, MARYLAND 21043
(301) 461-4188

SEWER PROFILE AND DETAILS
DORSEY HALL
SECTION - 2 AREA - 5 PARCEL N-1
2ND ELECTION DISTRICT, HOWARD COUNTY, MARYLAND
SCALE AS SHOWN CONTRACT NO. DATE 10-88 SHEET 2 OF 9

U.S. ROUTE 29



STRUCTURE SCHEDULE

Structure	INV IN	INV OUT	TOP EL	TYPE AND DETAIL
I-1A--		342.94	*347.68	"S" Comb Inlet Ho Co S D -4 32
I-1--	342.88	342.78	*346.58	"S" Comb Inlet Ho Co S D -4 32
I-2--	343.86	343.68	*348.38	"S" Comb Inlet Ho Co S D -4 32
I-3--		346.88	*347.88	"S" Inlet Ho Co S D -4 22
I-4A--		346.48	*358.28	"S" Comb Inlet Ho Co S D -4 32
I-4--	346.18	346.88	*358.48	"S" Comb Inlet Ho Co S D -4 32
I-5--		346.88	*349.68	"S" Comb Inlet Ho Co Std S D -4 32
MH-1--	339.38	333.64	346.28	Std Precast Manhole Ho Co Std 65 11
MH-2--	342.14	348.12	348.88	Std Precast Manhole Ho Co Std 65 11
MH-3--	345.28	345.18	351.88	Std Precast Manhole Ho Co Std 65 11
S-1--			331.58	Metal End Section Ho Co Std S D -5 61
S-2--			333.88	Concrete End Section Ho Co Std S D -5 52
S-3--			342.58	Concrete End Section Ho Co Std S D -5 52
S-4--	343.58			Curb End Section Ho Co Std S D -5 52

* Top of Curb E1

DRAINAGE TABULATION

D A	AREA (AC)	C	STRUCTURE (INLET NO)	% IMPERVIOUS DRAINAGE AREA
A	0.43	0.73	I-5	75.1
B-1	0.76	0.70	I-4A	73.7
B	0.39	0.70	I-4	74.4
C	0.49	0.36	I-3	22.4
D	0.66	0.69	I-2	69.7
E-1	0.41	0.71	I-1A	75.6
E	0.84	0.71	I-1	75.0

DATE 2-1-89
LKS

REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND METIS TECHNICAL REQUIREMENTS

James M. Helm 2-10-89
Soil Conservation Service Date

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

Robert W. Ziehm 2-10-89
Howard Soil Conservation District Date

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS HOWARD COUNTY HEALTH DEPARTMENT

James M. Helm 3-15-89
COUNTY HEALTH OFFICIAL DATE

APPROVED HOWARD COUNTY OFFICE OF PLANNING & ZONING

[Signature] 3-22-89
DIRECTOR DATE

[Signature] 3-22-89
Chief, Division of Community Planning and Land Development DATE

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE STORM DRAINAGE SYSTEMS AND PUBLIC ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

[Signature] 3-22-89
DIRECTOR DATE

[Signature] 3-13-89
CHIEF BUREAU OF ENGINEERING DATE

NOTE: THIS PLAN TO BE UTILIZED FOR DRAINAGE AREA DEPICTION & STRUCTURE SCHEDULE ONLY.

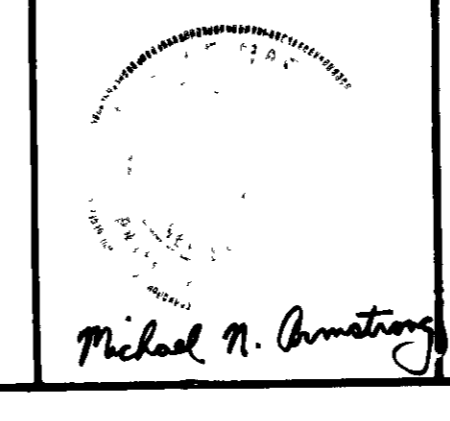
DESIGNED	JAG	10/88	DATE
DRAWN	MNA	10/88	DATE
CHECKED	MNA	10/88	DATE
APPROVED			DATE

REVISIONS		
DATE	BY	DESCRIPTION

ENGINEERING TECHNOLOGIES ASSOCIATES, INC.

ENGINEERS, SURVEYORS, CONSTRUCTION MANAGERS

3458 ELLICOTT CENTER DRIVE
ELLICOTT CITY, MD. 21043
(301) 461-9920



OWNER / DEVELOPER

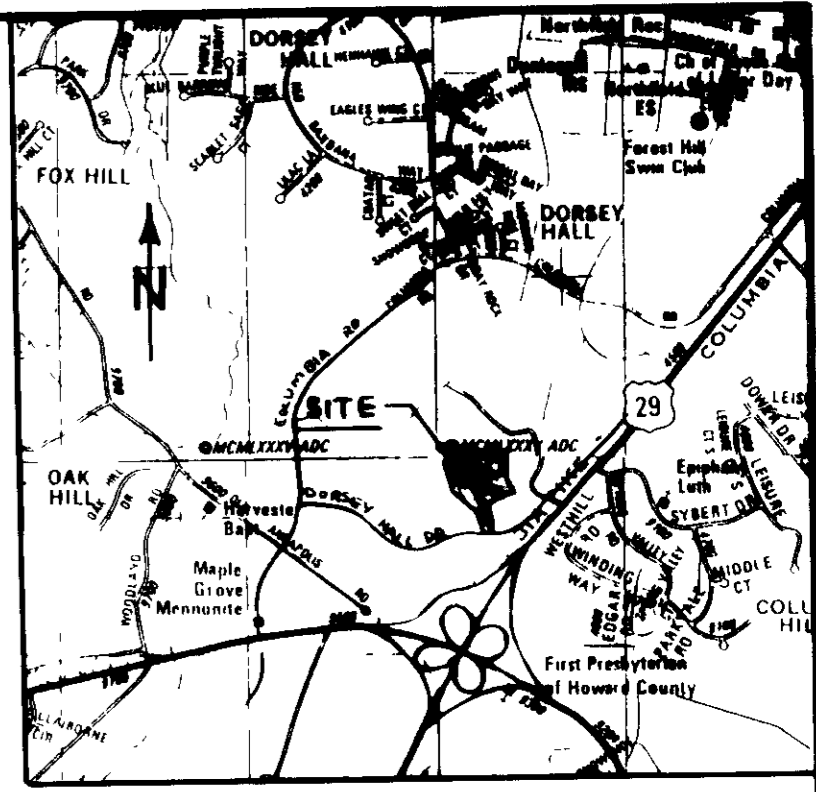
ELLCOTT RIDGE CORPORATION II
DYSON CONSTRUCTION CO, INC
3440 ELLICOTT CENTER DRIVE SUITE 101
ELLICOTT CITY, MARYLAND 21043
(301) 461-4188

DRAINAGE AREA MAP & STRUCTURE SCHEDULE

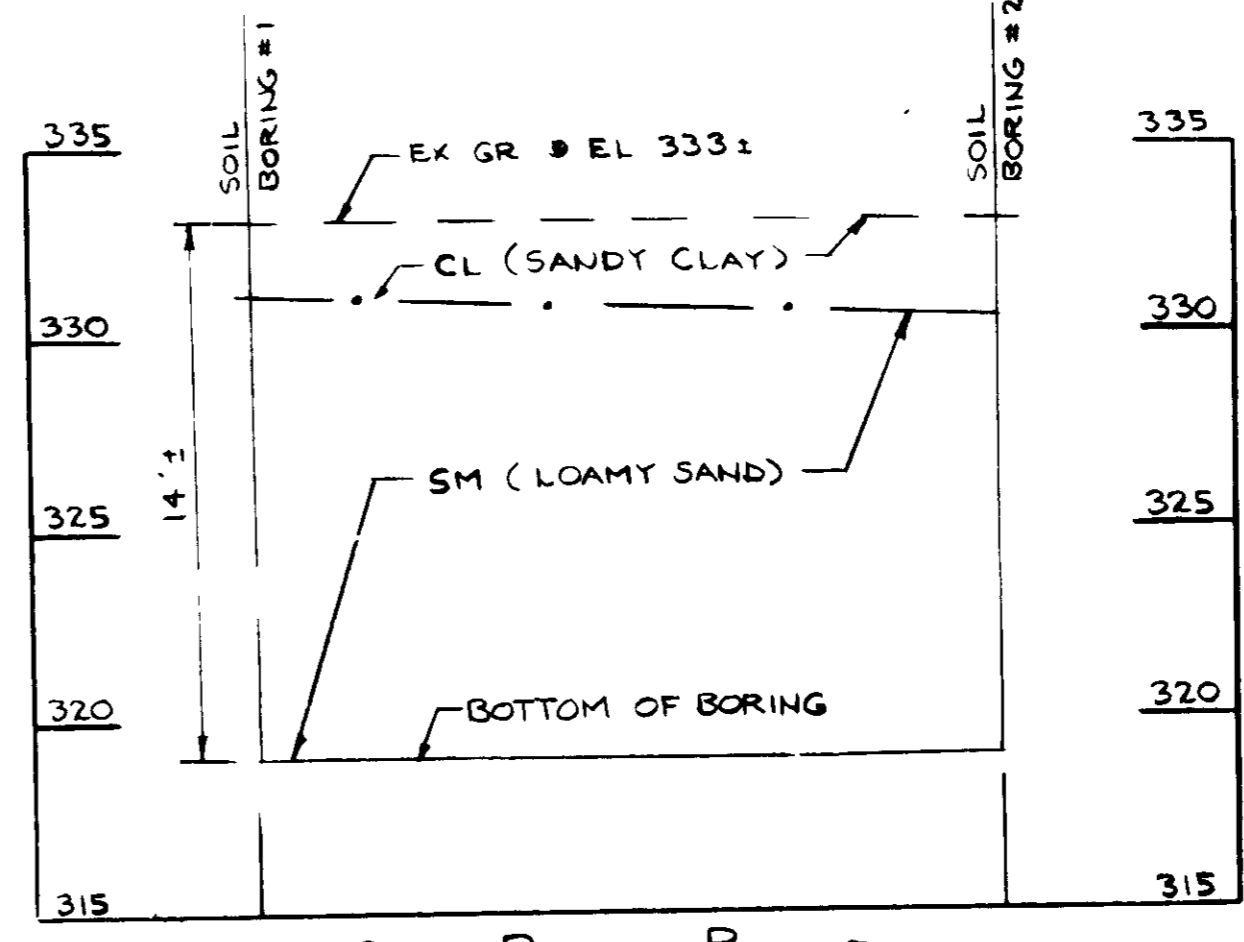
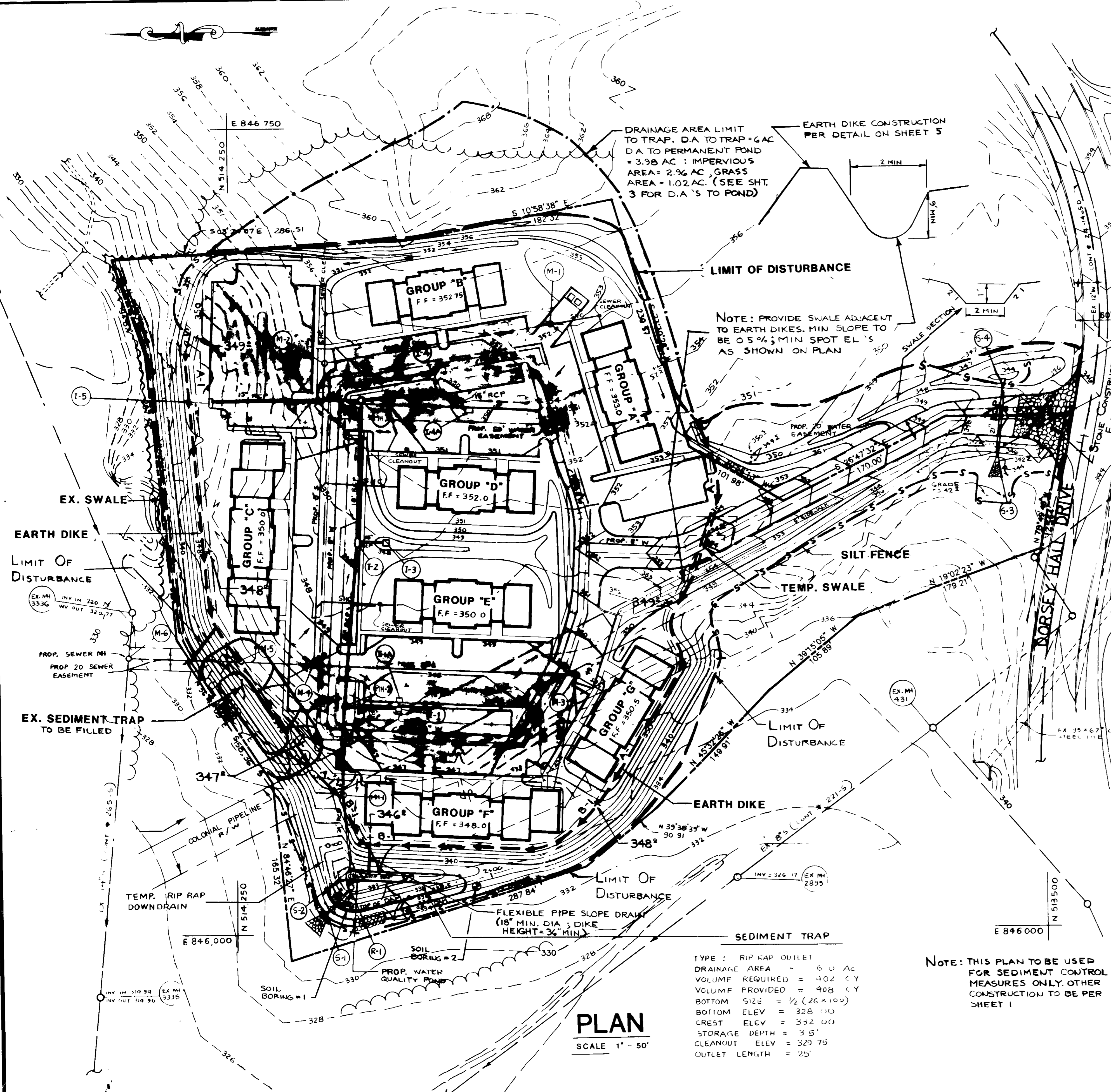
DORSEY HALL
(OFFICE CONDOMINIUMS)
SECTION - 2 AREA - 5 PARCEL N-1
2ND ELECTION DISTRICT, HOWARD COUNTY, MARYLAND.

SCALE 1"=50' CONTRACT NO. DATE 10/88 SHEET 3 OF 9

SDP-89-72



VICINITY MAP
SCALE 1" = 2000'



SEDIMENT CONTROL & POND CONSTRUCTION

() By the Developer
I hereby certify that all development and/or construction will be done according to these plans, and that any responsible personnel involved in the construction project will have a certificate of attendance at a Department of Natural Resources Approved Training Program for the Control of Sediment and Erosion before beginning the project. I will provide the plan of the pond within 30 days of completion. I also authorize periodic on-site inspections by the Howard Soil Conservation District.

Michael N. Armstrong 12/6/88
Signature of Developer Date
Douglas M. Dyson

() By the Engineer
I certify that this plan for pond construction, erosion and sediment control represents a practical and workable plan based on my personal knowledge of the site conditions. This plan was prepared in accordance with the requirements of the Howard Soil Conservation District. I have notified the developer that to meet provide the Howard Soil Conservation District with an "as-built" plan of the pond within 30 days of completion.

Michael N. Armstrong 12/6/88
Signature of Engineer Date
Howard Soil Conservation District

REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS

Robert W. Ziehm 2-10-89
Signature of District Director Date
Howard Soil Conservation District

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

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS
HOWARD COUNTY HEALTH DEPARTMENT

James Bruden 3-11-89
Signature of Health Officer Date
Howard County Health Department

APPROVED FOR HOWARD COUNTY OFFICE OF PLANNING & ZONING

Mark S. J. Campbell 2-22-89
Signature of Director Date
Howard County Office of Planning & Zoning

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE
STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

James E. Ryan 2-13-89
Signature of Director Date
Howard County Department of Public Works

ENGINEER'S CERTIFICATE
I HEREBY 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.

Michael N. Armstrong 12/6/88
Signature of Engineer Date

DEVELOPER'S CERTIFICATE
"I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY."

Michael N. Armstrong 12-6-88
Signature of Developer Date

REVISIONS			
DESIGNED	DATE	BY	DESCRIPTION
KAP	10/88		
DRAWN	10/88		
CHECKED	10/88		
APPROVED			

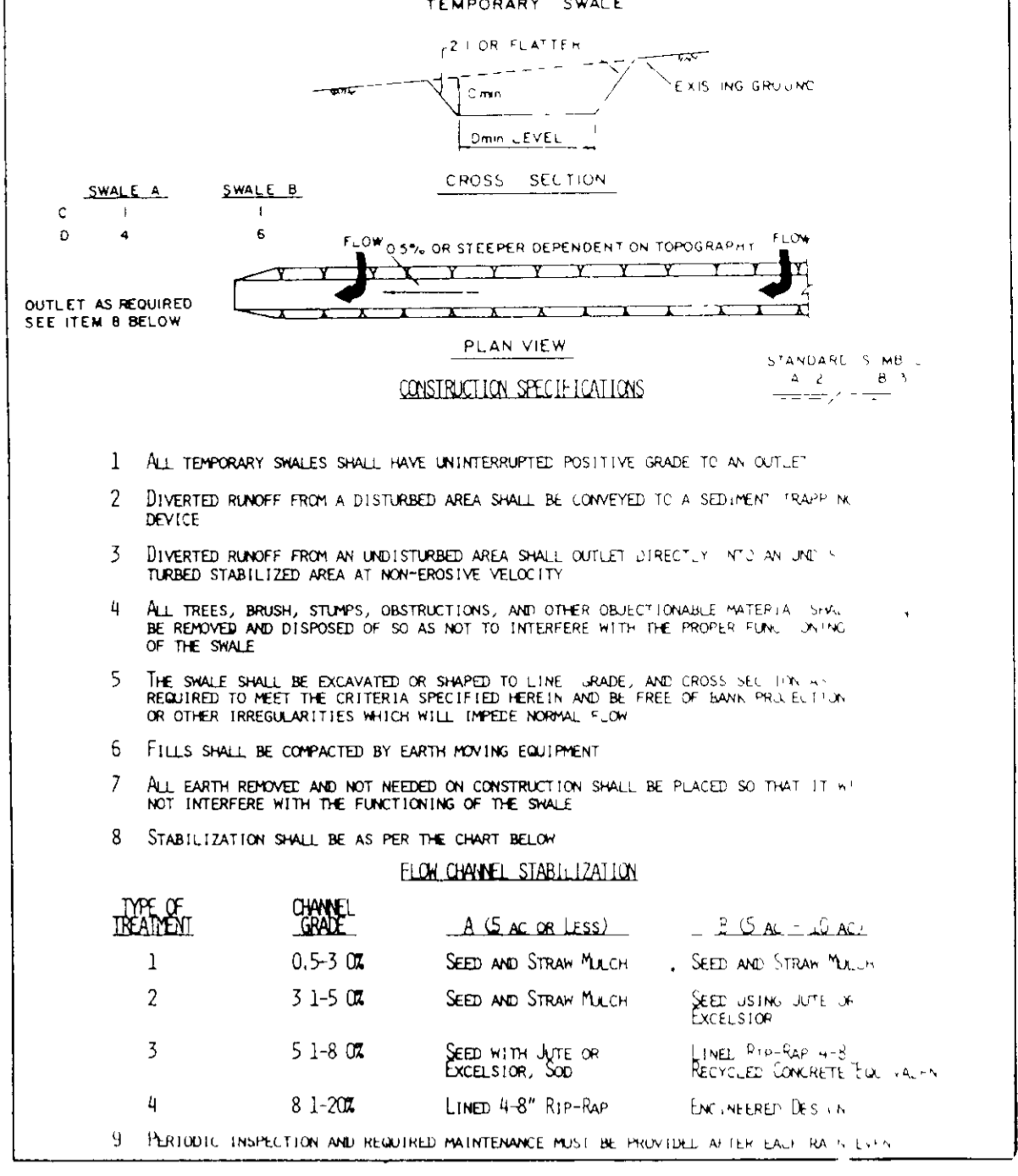
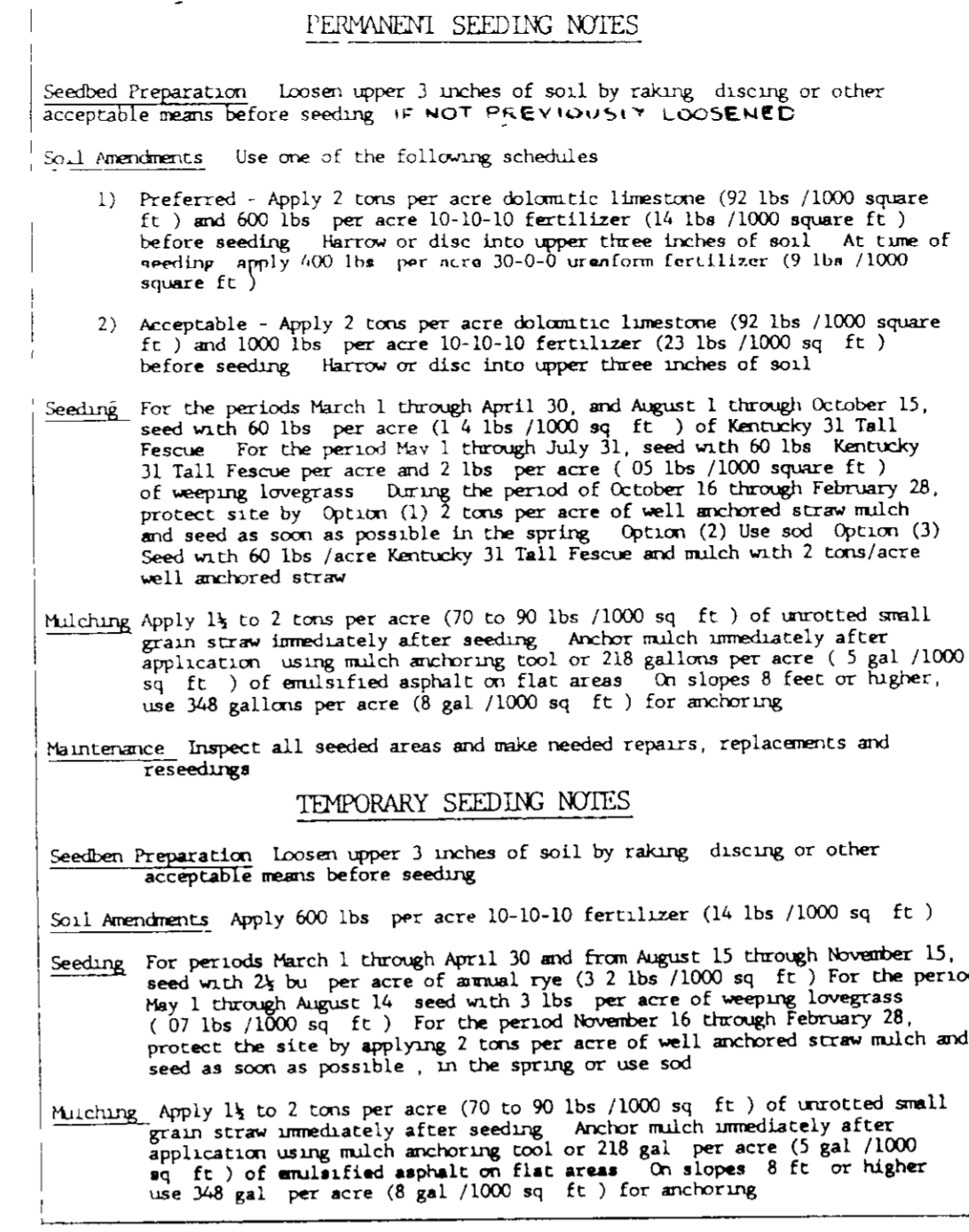
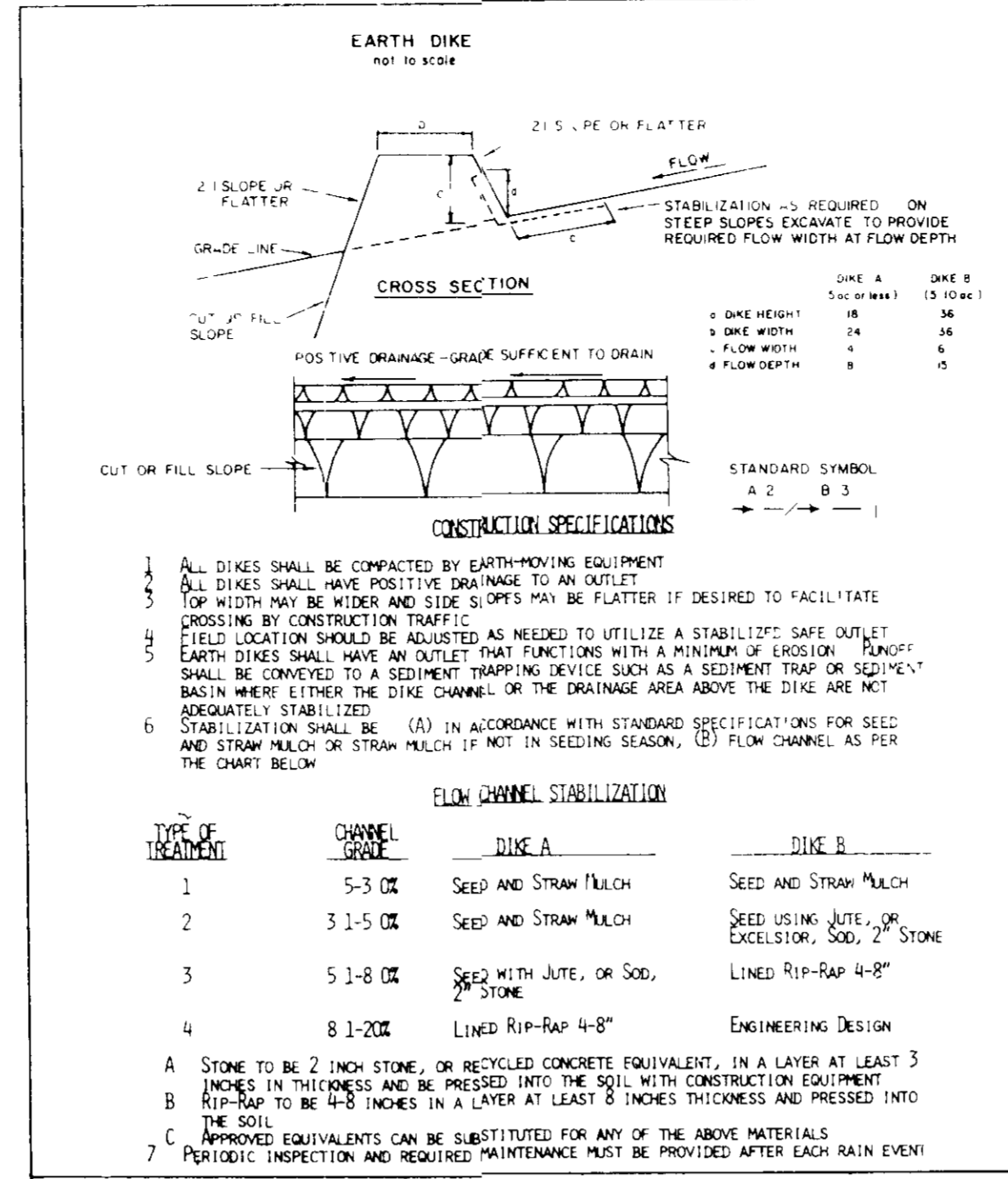
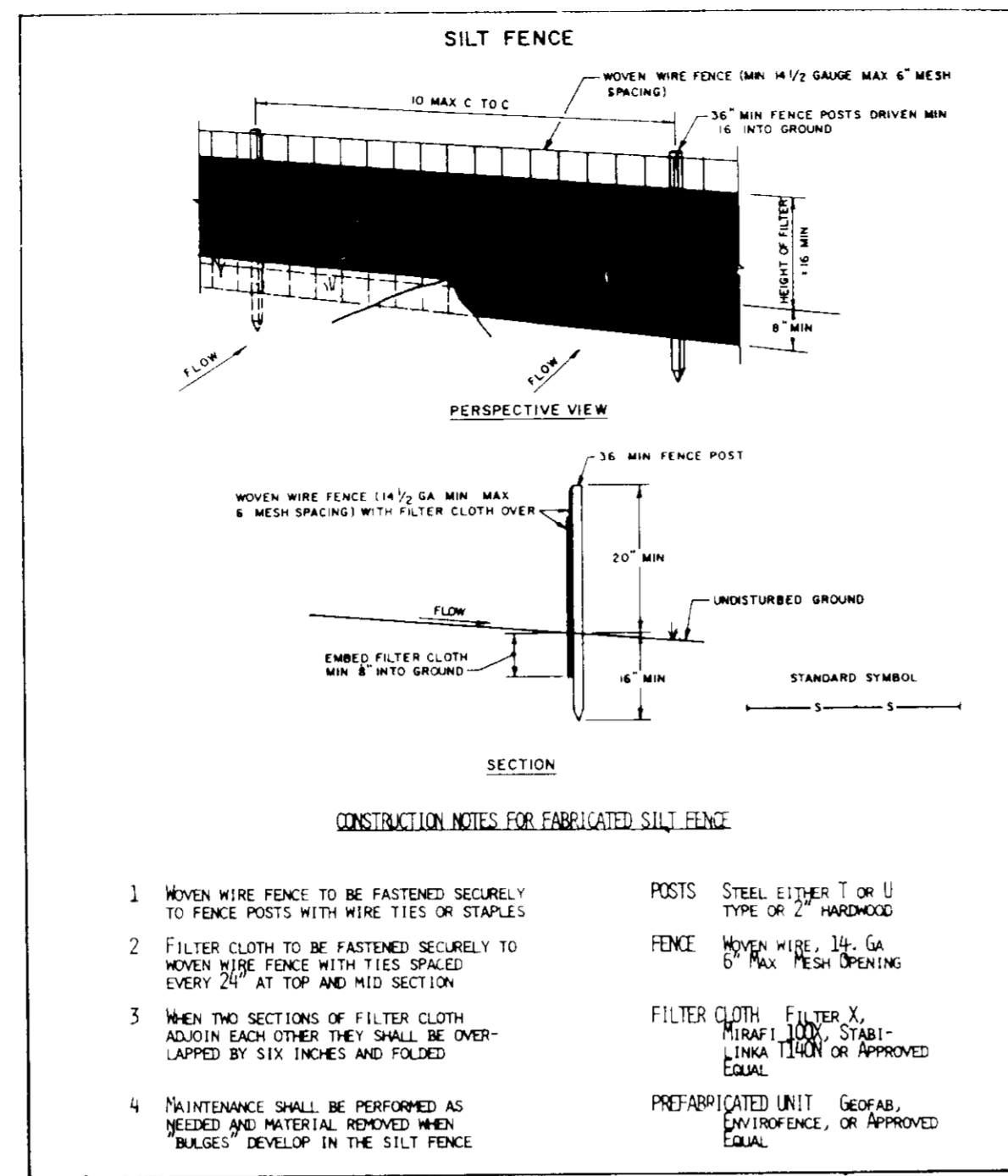
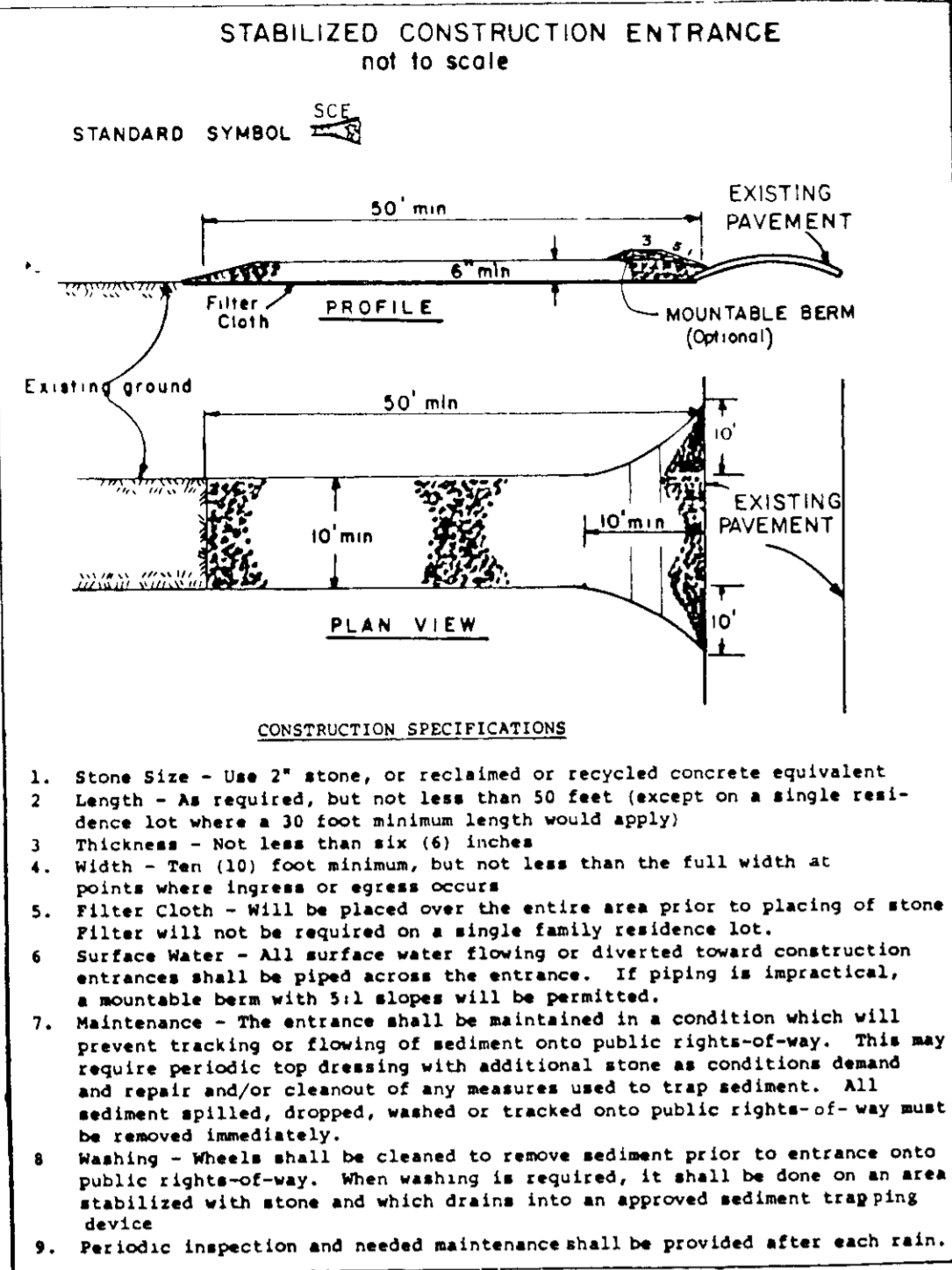
ENGINEERING TECHNOLOGIES ASSOCIATES, INC.
ENGINEERS * PLANNERS * SURVEYORS
3458 ELLICOTT CENTER DRIVE SUITE 101
ELLICOTT CITY, MARYLAND 21043
BALTO 461-9920 WASH 621-4690

Michael N. Armstrong

OWNER / DEVELOPER
ELLICOTT RIDGE CORPORATION II
DYSON CONSTRUCTION CO, INC
3440 ELLICOTT CENTER DRIVE SUITE 101
ELLICOTT CITY, MARYLAND 21043
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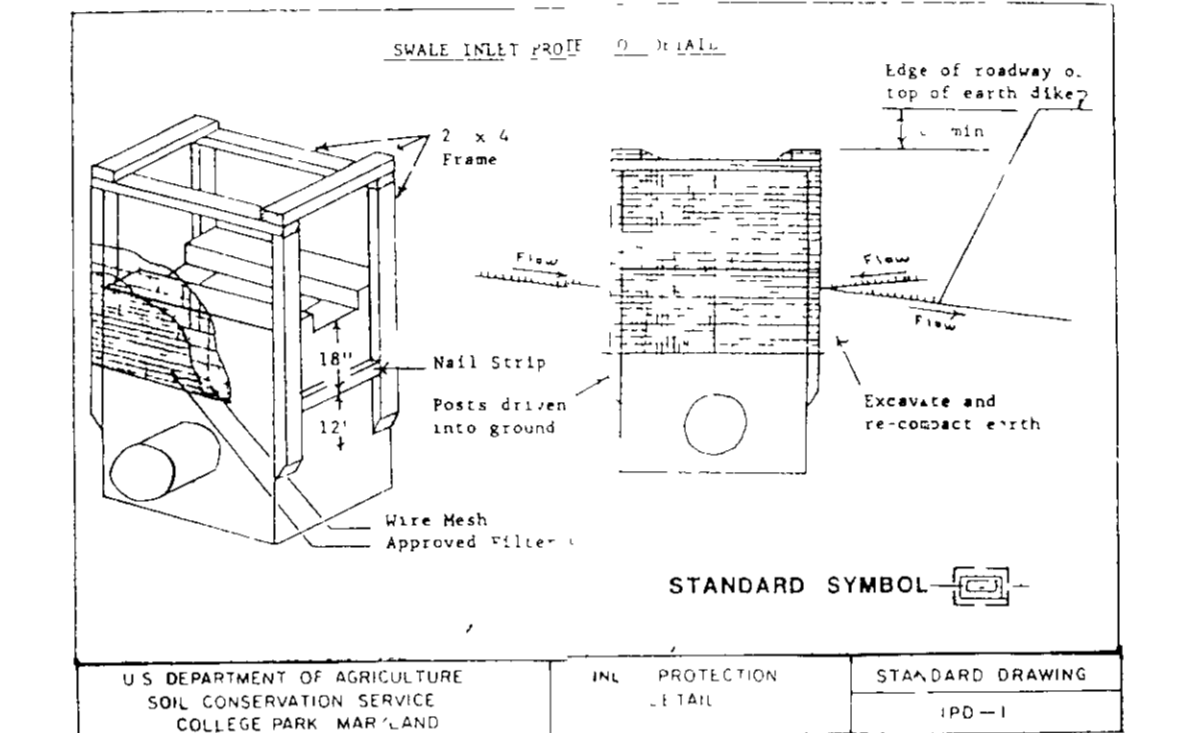
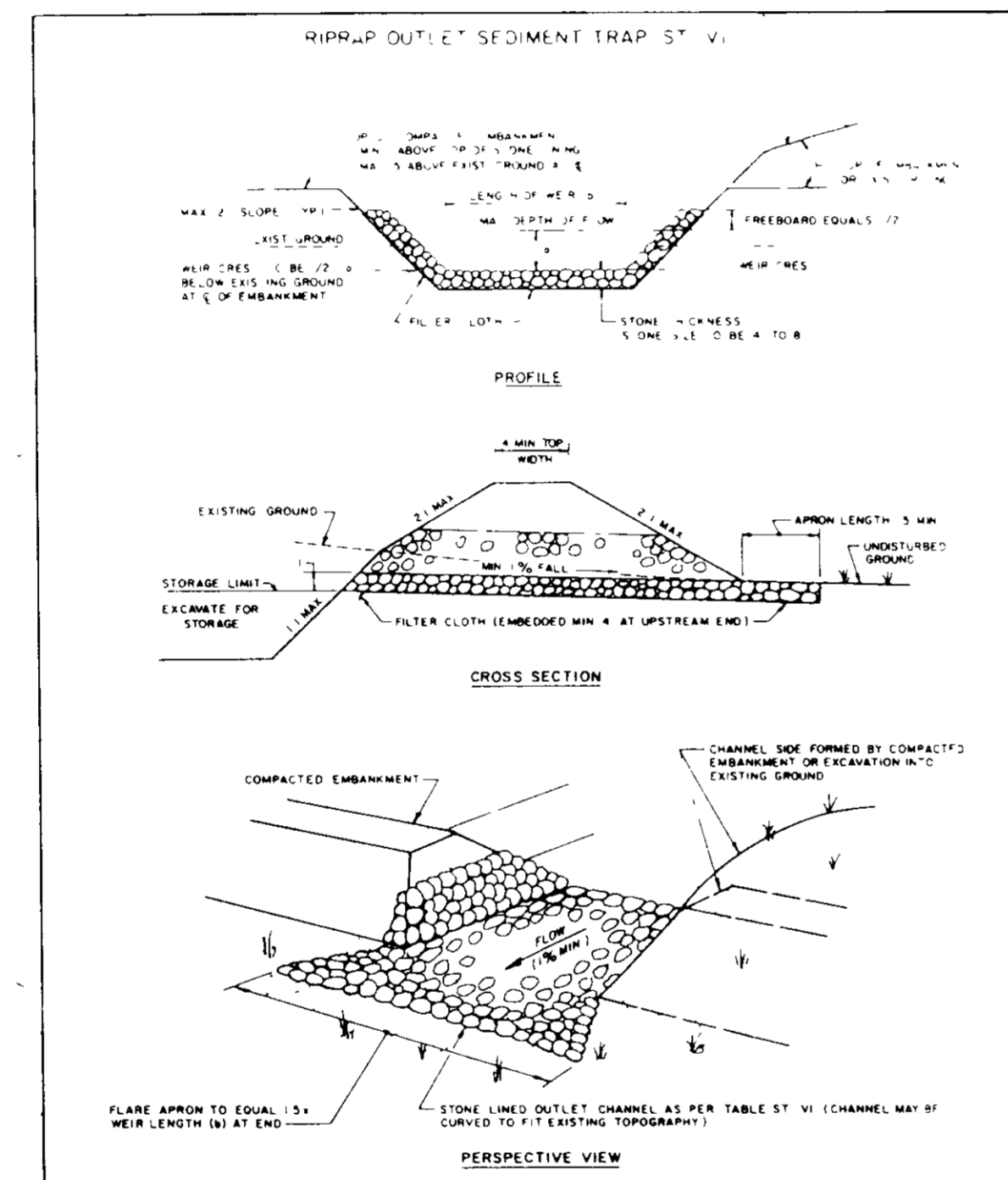
SEDIMENT CONTROL PLAN
DORSEY HALL
(OFFICE CONDOMINIUMS)
SECTION - 2 AREA - 5 PARCEL N-1
2ND ELECTION DISTRICT, HOWARD COUNTY, MARYLAND

SCALE AS SHOWN CONTRACT NO. DATE OCT 1988 SHEET 4 OF 9



SEDIMENT CONTROL NOTES

- A minimum of 24 hours notice must be given to the Howard County Office of Inspection and Permitting prior to the start of any construction. (992-2433)
- All vegetative and structural practices are to be installed according to the provisions of this plan and are to be in conformance with the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
- Following initial soil disturbance or redisturbance, permanent or temporary stabilization shall be completed within 72 calendar days for all perimeter sediment control structures, dikes, perimeter slopes and all slopes greater than 3:1. If 14 days are 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 ditched areas must be stabilized within the time period specified above in accordance with the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, for permanent seedings (Sec. 51) and (Sec. 52), temporary seedings (Sec. 40) 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: 7.653 Acres
Area Disturbed: 3.07 Acres
Area to be roofed or paved: 3.07 Acres
Area to be vegetatively stabilized: 2.63 Acres
Total Cut: 3.07 Cu yds
Total Fill: 3.07 Cu yds
Offsite waste/borrow area location: _____
- Any sediment control practice which is disturbed by grading activity for placement of utilities must be repaired on the same day of disturbance
- Additional sediment controls must be provided, if deemed necessary by the Howard County Sediment Control Inspector
- On all sites with disturbed areas in excess of 2 acres, approval of the inspection agency shall be requested upon completion of installation of perimeter erosion and sediment controls, but before proceeding with any other earth disturbance or grading. Initiating or grading lower in the process may not be authorized until this initial approval by the inspection agency is made.



() By the Developer

"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 NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION. I HAVE NOTIFIED THE HOWARD COUNTY DISTRICT WITH AN 'AS-BUILT' PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD COUNTY DISTRICT."

Signature of Developer: Douglas L. Dyson
Date: 12-1-88

() By the Engineer

"I CERTIFY THAT THIS PLAN FOR POND CONSTRUCTION, EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD COUNTY DISTRICT AND EROSION CONTROL. I HAVE NOTIFIED THE HOWARD COUNTY DISTRICT WITH AN 'AS-BUILT' PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION."

Signature of Engineer: Michael N. Armstrong
Date: 12/6/88

() 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.

Signature of District Engineer: Douglas L. Dyson
Date: 2-10-89

() These plans for small pond construction, soil erosion and sediment control meet the requirements of the HOWARD SOIL CONSERVATION DISTRICT.

Signature of District Engineer: Michael N. Armstrong
Date: 12/6/88

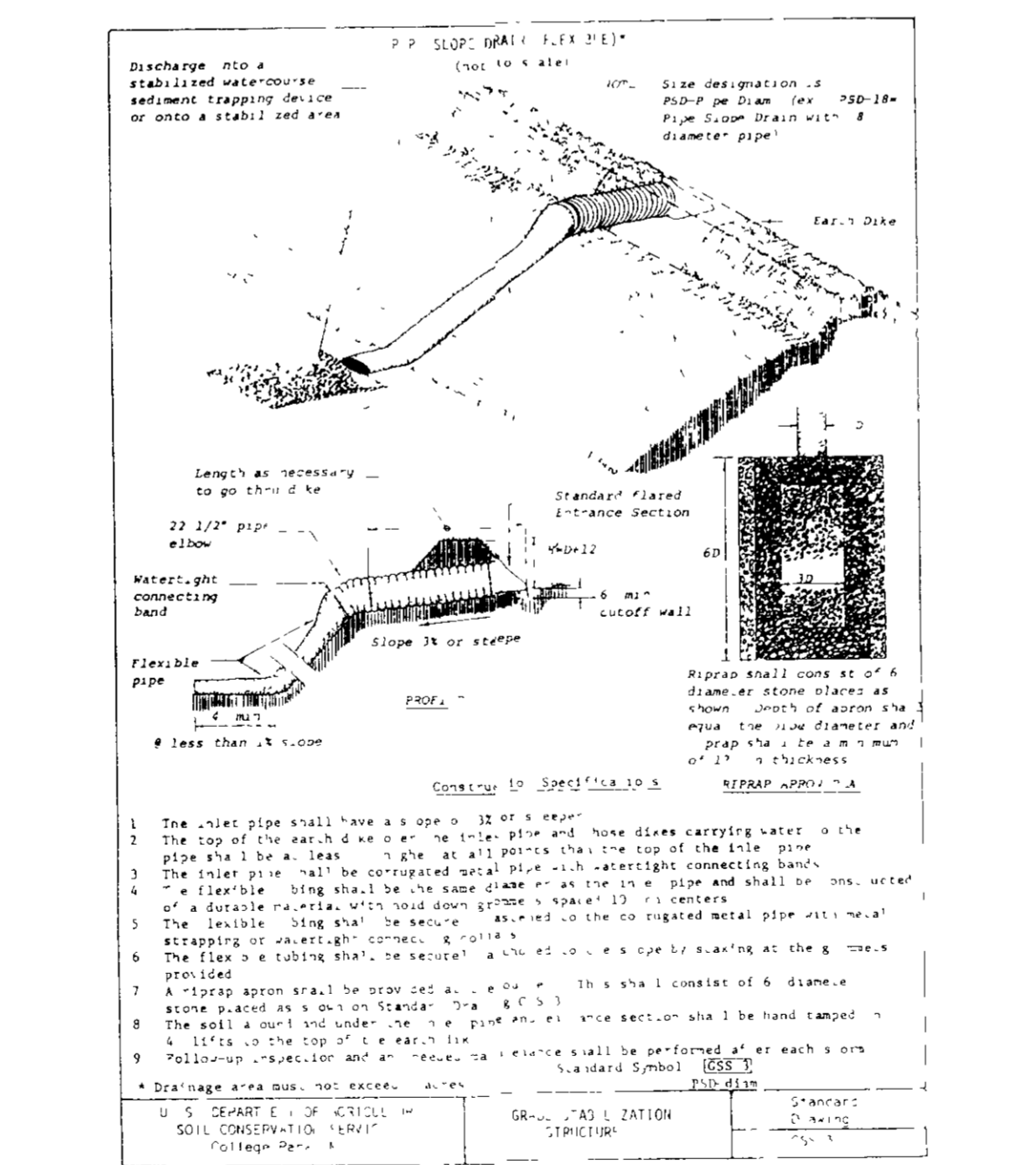
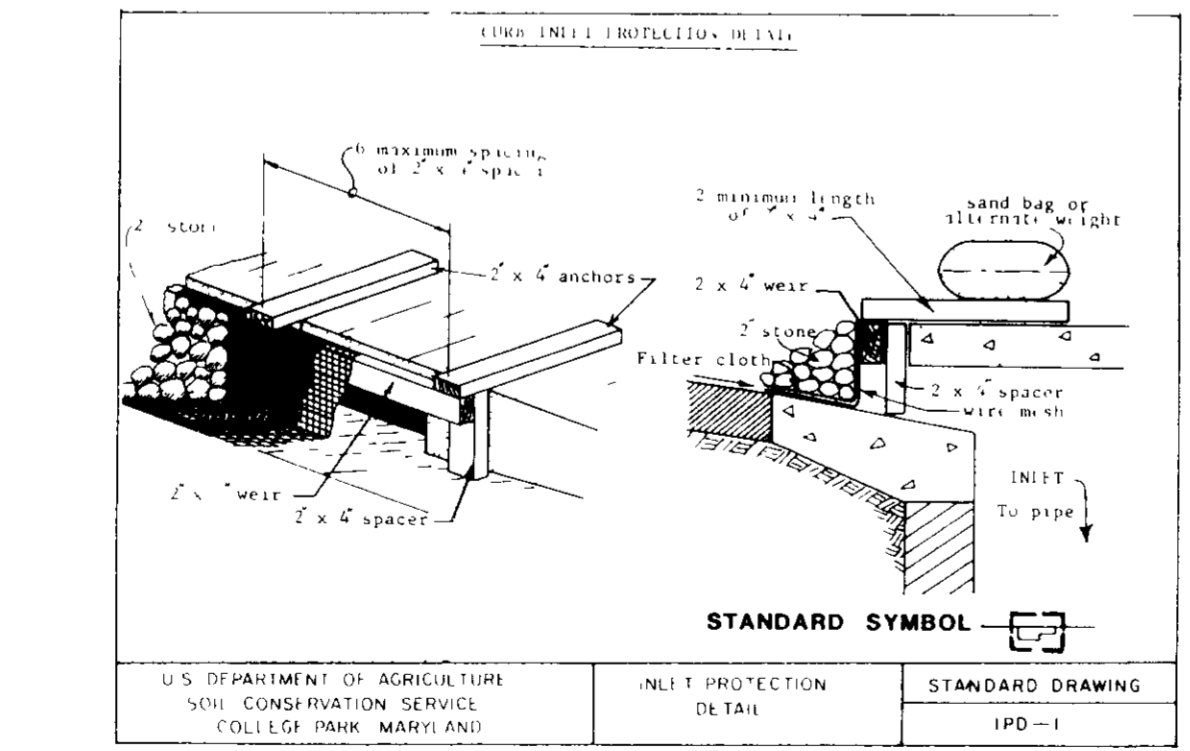
REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS

Signature of District Engineer: Douglas L. Dyson
Date: 2-10-89

Signature of District Engineer: Robert W. Ziehm
Date: 2-10-89

SEQUENCE OF CONSTRUCTION

NO.	DESCRIPTION	ESTIMATED DURATION
1	OBTAIN GRADING PERMIT	
2	CLEAR MINIMUM AREA REQUIRED AND INSTALL SEDIMENT CONTROL MEASURES. FILL THE EXISTING SEDIMENT TRAP AS REQUIRED	2 DAYS
3	CLEAR AREAS WITHIN THE LIMITS OF DISTURBANCE AND ROUGH GRADE THE SITE	1 WEEK
4	FINAL GRADE THE SITE. INSTALL UTILITIES, STORM DRAIN SYSTEM, PAVEMENT AND APPURTENANCES AND CONSTRUCT BUILDINGS. PROVIDE INLET PROTECTION AT STORM DRAIN POINT. STABILIZE ALL AREAS ADJACENT TO THE BUILDINGS, PARKING AND DRIVEWAYS.	6 MONTHS
5	REMOVE THE SEDIMENT TRAP. PUMPING TO BE DONE IF REQUIRED. ALL SEDIMENT TO BE REMOVED FROM THE AREA. CONSTRUCT THE WATER QUALITY POND IN ACCORDANCE WITH POND PLANS AND SPECIFICATIONS AS SHOWN AND STABILIZE THE AFFECTED AREA IMMEDIATELY UPON COMPLETION.	1 WEEK
6	UPON APPROVAL FROM THE INSPECTOR, REMOVE ALL SEDIMENT CONTROL MEASURES AND STABILIZE THE AFFECTED AREAS IMMEDIATELY.	2 DAYS



ENGINEER'S CERTIFICATE

I HEREBY 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 of Engineer: Michael N. Armstrong
Date: 12/6/88

DEVELOPER'S CERTIFICATE

"I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY."

Signature of Developer: Douglas L. Dyson
Date: 12-6-88

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS
HOWARD COUNTY HEALTH DEPARTMENT

Signature of Health Department: Douglas L. Dyson
Date: 3-15-89

APPROVED BY HOWARD COUNTY OFFICE OF PLANNING & ZONING

Signature of Planning & Zoning: Douglas L. Dyson
Date: 2-22-89

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE
STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

Signature of Public Works: Douglas L. Dyson
Date: 2-13-89

DESIGNED KAP 10/88
DRAWN KAP 10/88
CHECKED MJA 10/88
APPROVED _____

REVISIONS

DATE	BY	DESCRIPTION

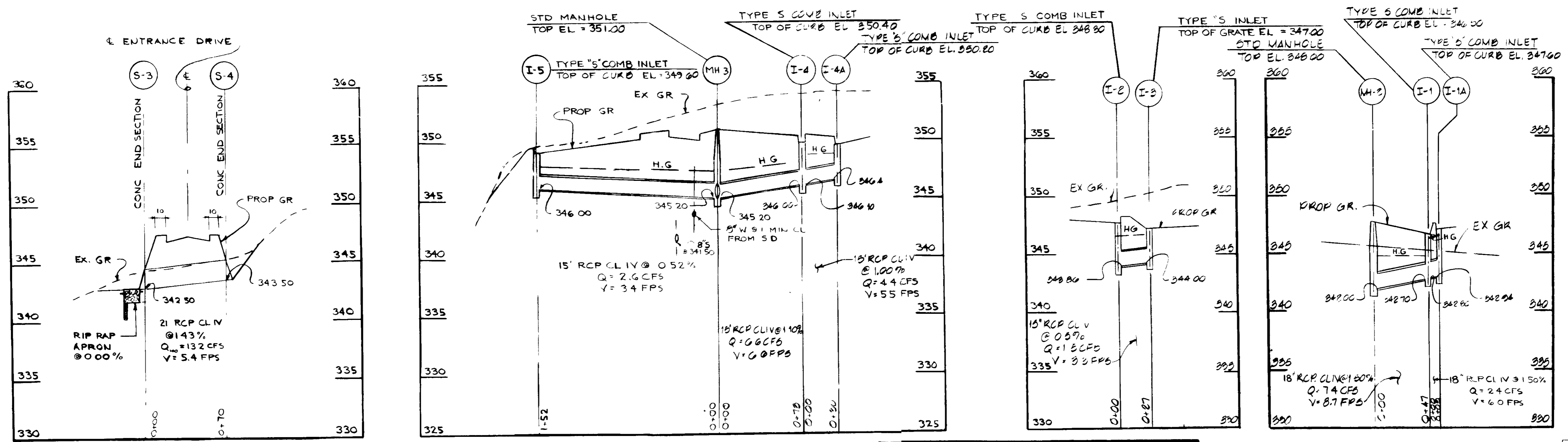
ENGINEERING TECHNOLOGIES ASSOCIATES, INC.
ENGINEERS, SURVEYORS, CONSTRUCTION MANAGERS
3458 ELLICOTT CENTER DRIVE
ELLICOTT CITY, MD. 21043
(301) 461-9920

OWNER / DEVELOPER
ELLCOTT RIDGE CORPORATION II
DYSON CONSTRUCTION CO. INC
3410 ELLICOTT CENTER DRIVE SUITE 101
ELLICOTT CITY, MARYLAND 21043
(301) 461-4188

SEDIMENT CONTROL NOTES AND DETAILS

DORSEY HALL
(OFFICE CONDOMINIUMS)
SECTION - 2 AREA - 5 PARCEL N-1
2ND ELECTION DISTRICT, HOWARD COUNTY, MARYLAND

SCALE AS SHOWN CONTRACT NO. _____ DATE 10/88 SHEET 5 OF 9



() By the Developer
 "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 of a Department of Natural Resources Approved Training Program for the Control of Sediment and Erosion before beginning the project. I will provide the Howard Soil Conservation District with an "as-built" plan of the pond within 30 days of completion. I also authorize periodic on-site inspections by the Howard Soil Conservation District."
 Signature of Developer: Douglas L. Dyson Date: 12-6-88

() By the Engineer
 "I certify that this plan for pond construction, erosion and sediment control represents a practical and workable plan based on my personal knowledge of the site conditions. This plan was prepared in accordance with the requirements of the Howard Soil Conservation District. I have notified the developer that he must provide the Howard Soil Conservation District with an "as-built" plan of the pond within 30 days of completion."
 Signature of Engineer: Michael N. Armstrong Date: 12/6/88

() 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.
 Signature of District: John M. Stala Date: 2-10-89

() These plans for small pond construction, soil erosion and sediment control meet the requirements of the Howard Soil Conservation District.
 Signature of District: _____ Date: _____

STORM DRAIN PROFILES

SCALE: HORIZ 1"=50'
 VERT 1"=5'

APPROVED FOR PUBLIC WATER AND PUBLIC BEVERAGE SYSTEMS
 HOWARD COUNTY HEALTH DEPARTMENT
 COUNTY HEALTH OFFICER: [Signature] DATE: 3-15-89

APPROVED HOWARD COUNTY OFFICE OF PLANNING & ZONING
 CHIEF: [Signature] DATE: 3-21-89

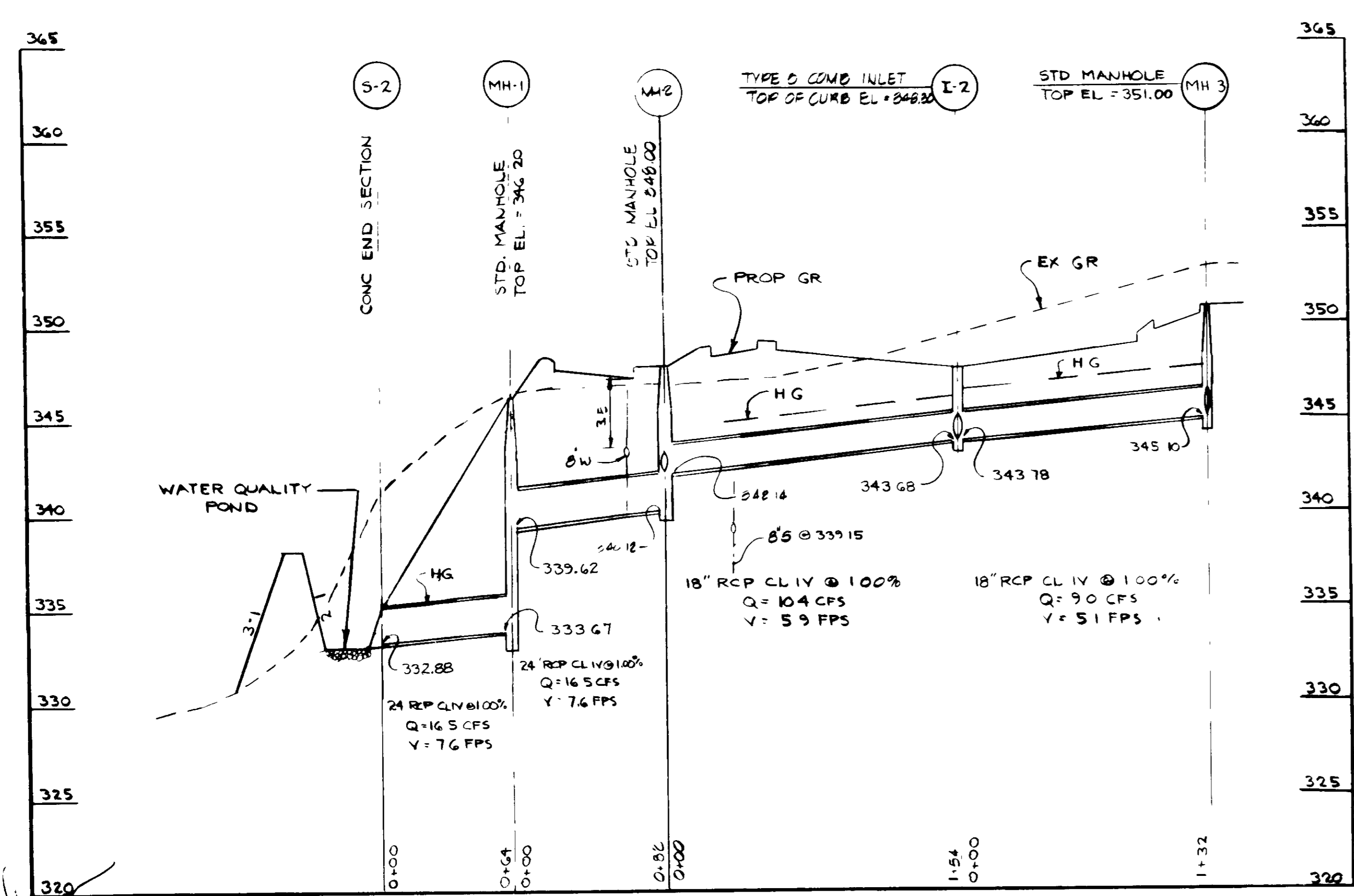
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT
 DATE: 3-22-89

APPROVED FOR PUBLIC WATER AND PUBLIC BEVERAGE STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 DIRECTOR: [Signature] DATE: 3-13-89

CHIEF BUREAU OF ENGINEERING: [Signature] DATE: _____

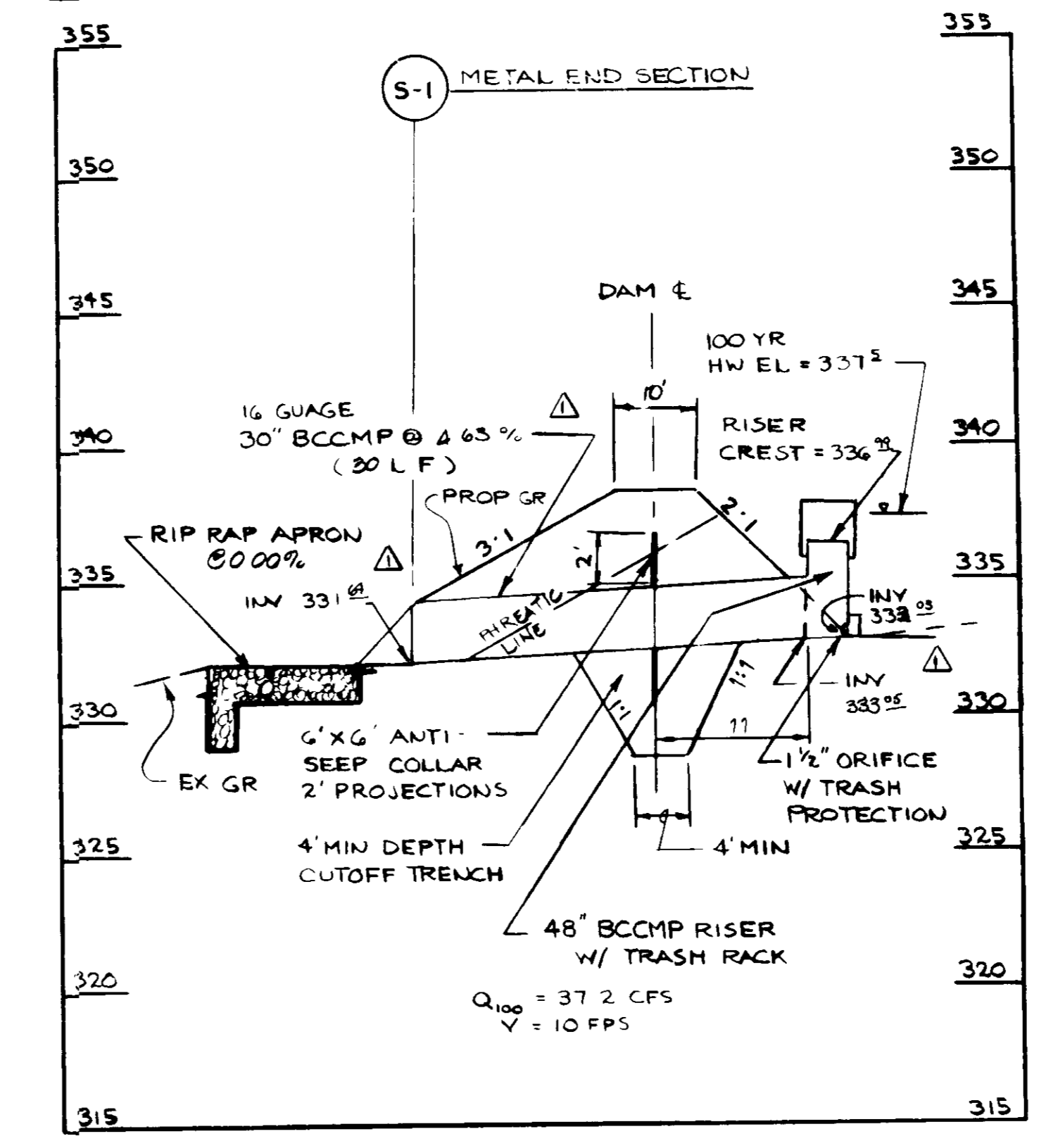
REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND METS TECHNICAL REQUIREMENTS
 Signature of District: [Signature] Date: 2-10-89

THIS DEVELOPMENT IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY HOWARD SOIL CONSERVATION DISTRICT
 Signature of District: Robert W. Ziehm Date: 2-10-89



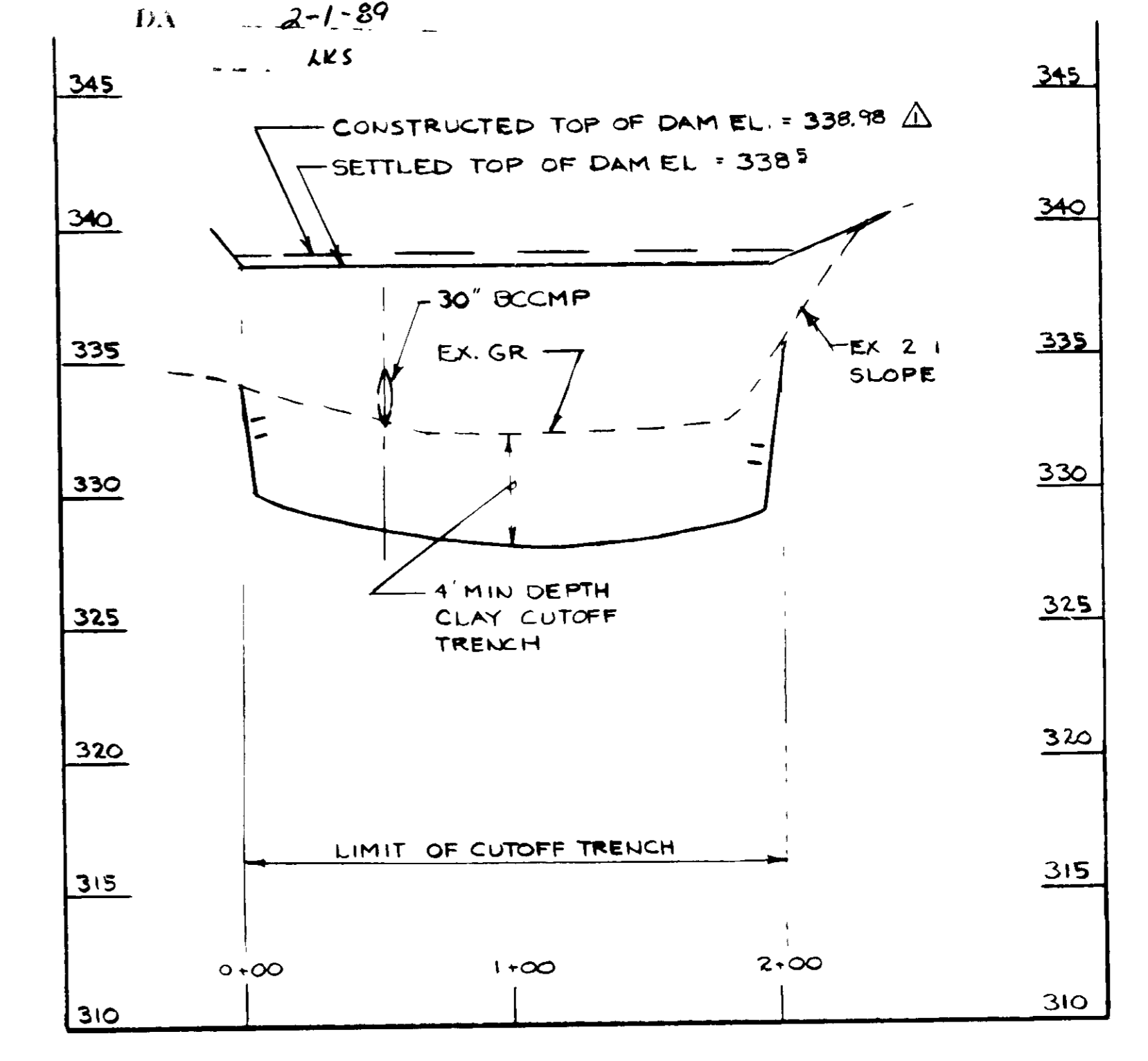
STORM DRAIN PROFILE

SCALE: HORIZ 1"=50'
 VERT 1"=5'



CROSS SECTION THROUGH POND DAM

SCALE: HORIZ 1"=10'
 VERT 1"=5'



PROFILE ALONG POND DAM

SCALE: HORIZ 1"=50'
 VERT 1"=5'

I CERTIFY THAT THIS AS-BUILT IS ACCURATE AND COMPLETE AND THAT THE POND AS CONSTRUCTED MEETS THE REQUIREMENTS OF THE STANDARDS AND SPECIFICATIONS FOR PONDS.
 Signature: [Signature]

DESIGNED		DATE		BY		DESCRIPTION	
MAB	10/88	6/6/92	SP	AS-BUILT			
DRAWN							
CHECKED							
APPROVED							

ENGINEERING TECHNOLOGIES ASSOCIATES, INC.
 ENGINEERS, SURVEYORS, CONSTRUCTION MANAGERS
 3458 ELLICOTT CENTER DRIVE
 ELLICOTT CITY, MD. 21043
 (301) 461-9920

OWNER / DEVELOPER
 ELLICOTT RIDGE CORPORATION II
 DYSON CONSTRUCTION CO, INC
 3440 ELLICOTT CENTER DRIVE SUITE 101
 ELLICOTT CITY, MARYLAND 21043
 (301) 461-4188

STORM DRAIN DETAILS
DORSEY HALL
 (OFFICE CONDOMINIUMS)
 SECTION - 2 AREA - 5 PARCEL N-1
 2ND ELECTION DISTRICT, HOWARD COUNTY, MARYLAND
 SCALE AS SHOWN CONTRACT NO. _____ DATE 10/88 SHEET 6 OF 9

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

I. SITE PREPARATION

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

Areas to be covered by the pond or reservoir will be cleared of all trees, brush, logs, 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.

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

II. EARTH FILL

Material

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

Placement

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

Compaction

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

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

Cutoff Trench

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

III. STRUCTURAL BACKFILL

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

IV. PIPE CONDUITS

All pipes shall be circular in cross section.

A. Corrugated Metal Pipe

1. Materials - (Steel Pipe) - This pipe and its appurtenances shall be galvanized and fully bituminous coated and shall conform to the requirements of AASHTO Specification M-190 Type A with watertight coupling bands. Any bituminous coating damaged or otherwise removed shall be replaced with cold applied bituminous coating compound.

Steel pipes with polymeric coatings shall have a minimum coating thickness of 0.01 inch (10 mil) on both sides of the pipe. The following coatings are commercially available: Nexon, Plast-Cote, Blar-Klad, and Beth-Cu-Lay. Coated corrugated steel pipe shall meet the requirements of AASHTO M-245 and M-246.

2. Connections - All connections with pipes must be completely watertight. The drain pipe or barrel connection to the riser shall be welded all around when the pipe and riser are metal. Watertight coupling bands or flanges shall be used at all joints. Anti-seep collars shall be connected to the pipe in such a manner as to be completely watertight. Duplex bands are not considered to be watertight.

3. Bedding - The pipe shall be firmly and uniformly bedded throughout its entire length. Where rock, the soft, spongy or other unstable soil is encountered, all such material shall be removed and replaced with suitable earth compacted to provide adequate support.

4. Laying pipe - The pipe shall be placed with inside circumferential laps pointing downstream and with the longitudinal laps at the sides.

5. Backfilling shall conform to structural backfill as shown above.

6. Other details (anti-seep collars, valves, etc.) shall be as shown on the drawings.

V. CONCRETE

1. Materials

a. Cement - Normal Portland cement shall conform to the latest ASTM Specification C-150.

b. Water - The water used in concrete shall be clean, free from oil, acid, alkali, scales, organic matter or other objectionable substances.

c. Sand - The sand used in concrete shall be clean, hard, strong and durable, and shall be well graded with 100 percent passing a one-quarter inch sieve. Limestone sand shall not be used.

d. Coarse Aggregate - The coarse aggregate shall be clean, hard, strong and durable, and free from clay or dirt. It shall be well graded with a maximum size of one and one-half (1-1/2) inches.

e. Reinforcing Steel - The reinforcing steel shall be deformed bars of intermediate grade billet steel or rail steel conforming to ASTM Specification A-615.

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

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

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

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

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

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

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

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

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

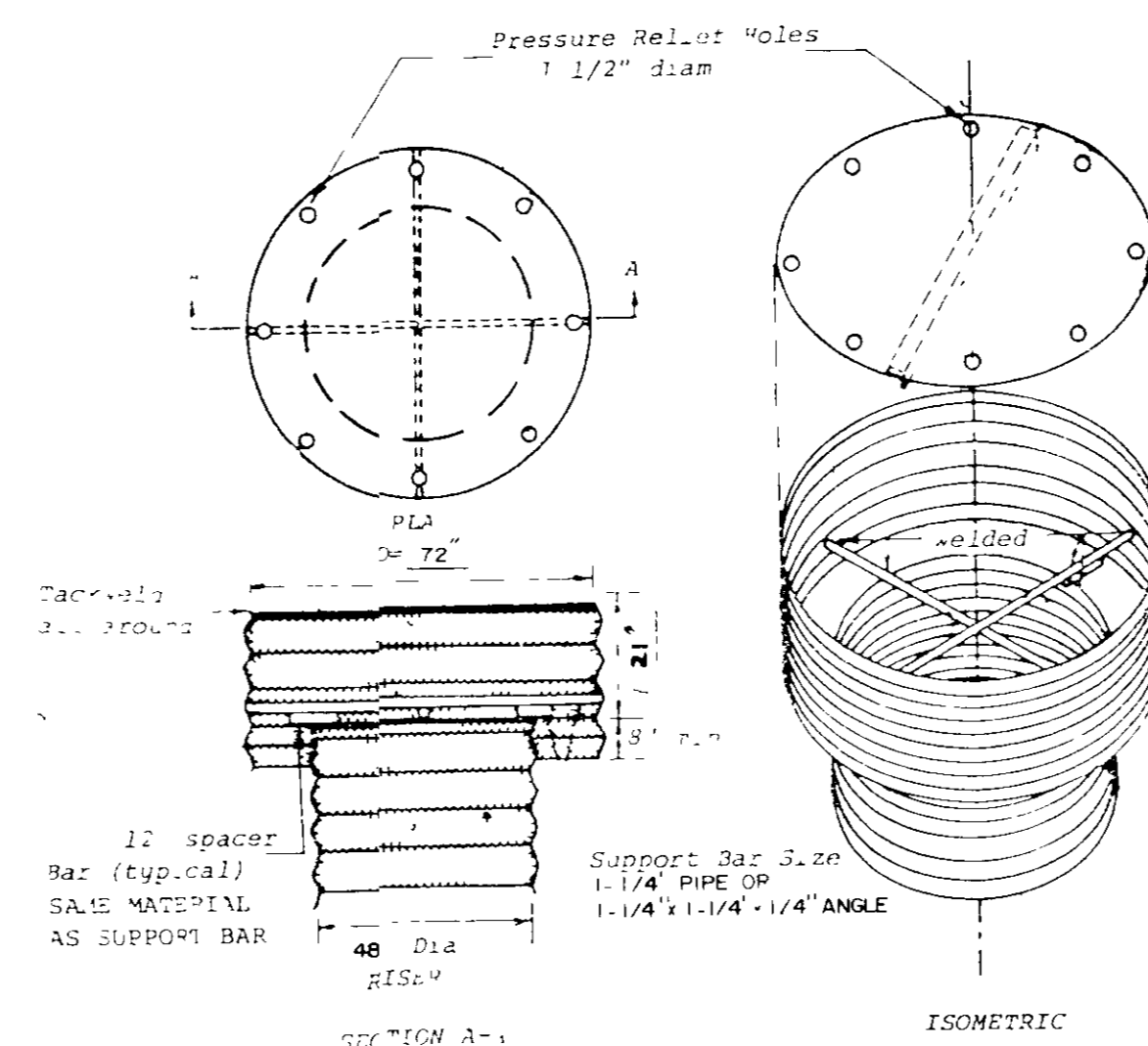
9. Placing Temperature - Concrete may not be placed at temperatures below 32° F with the temperature falling, or 34° with the temperature rising.

VI. STABILIZATION

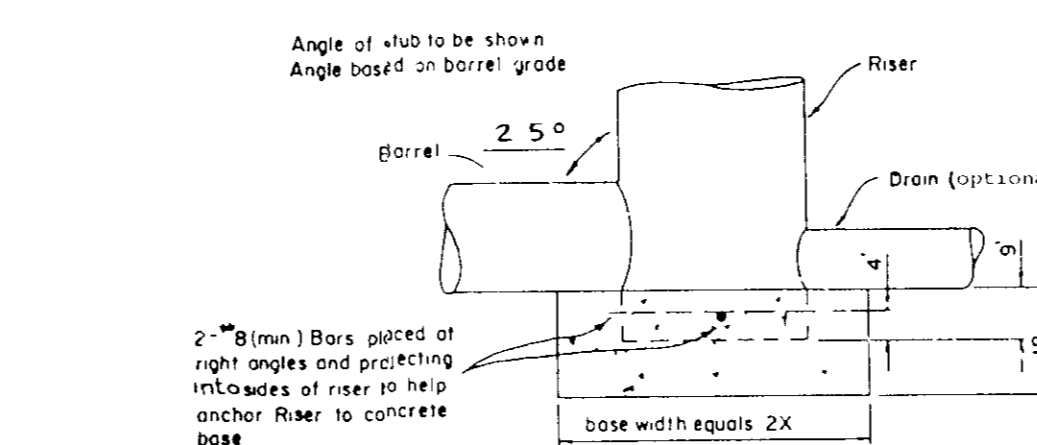
All borrow areas shall be graded to provide proper drainage and left in a slightly condition. All exposed surfaces of the embankment, spillway, spoil and borrow areas, and berms shall be stabilized by seeding, liming, fertilizing and mulching (if required) in accordance with the vegetative treatment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

VII. EROSION AND SEDIMENT CONTROL

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



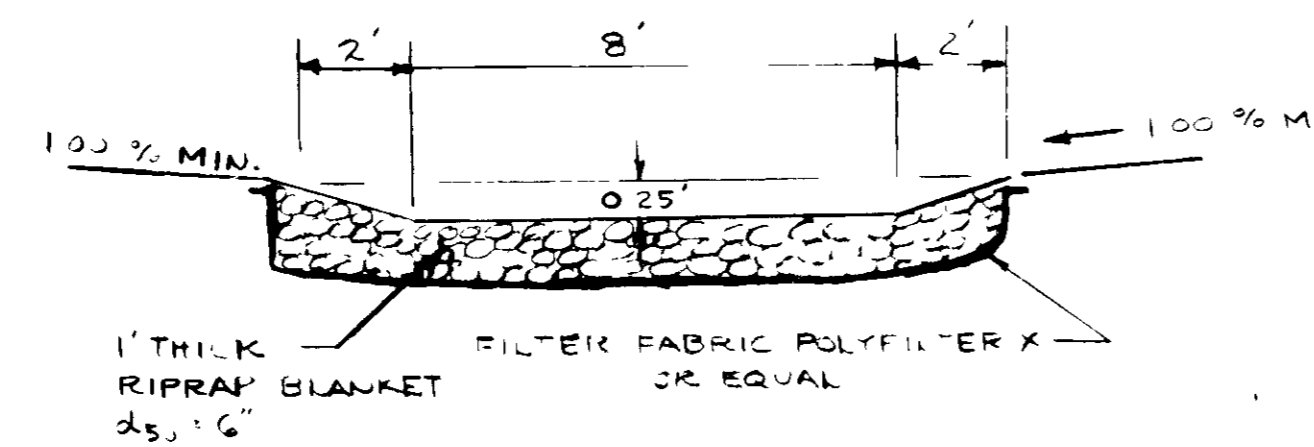
CONCENTRIC TRASH RACK AND ANTI-VORTEX DEVICE (not to scale)



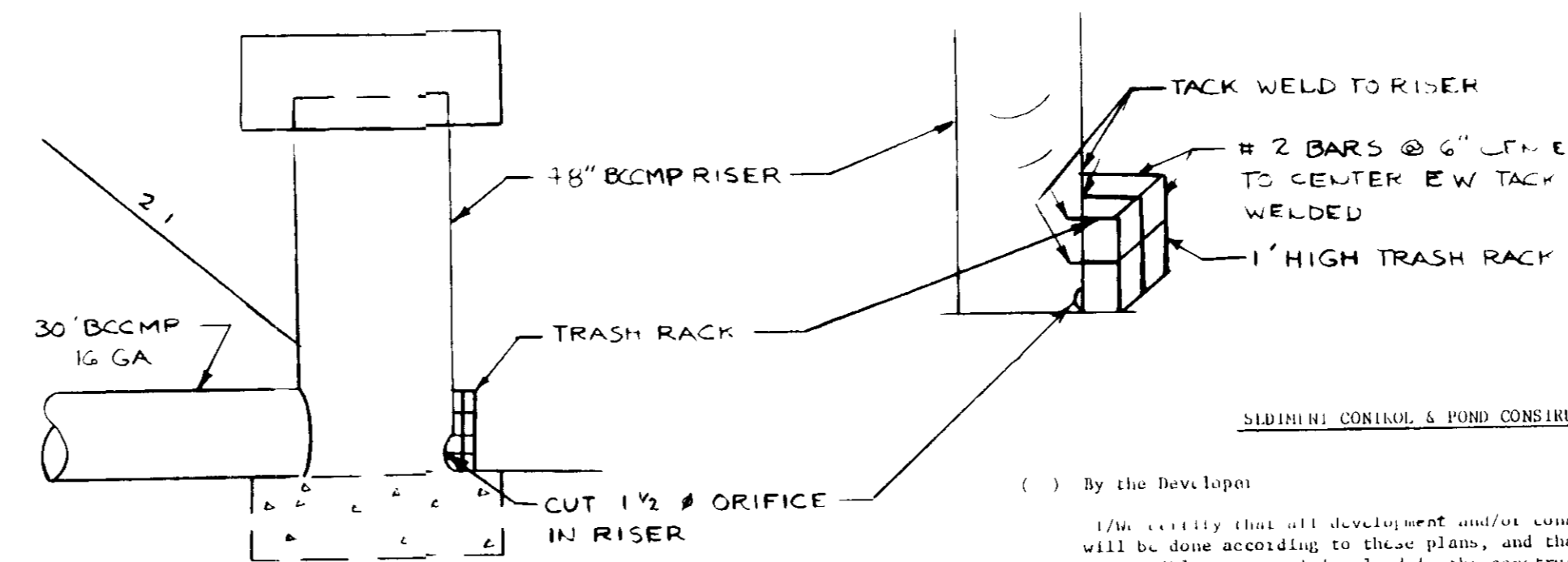
RISER BASE DETAIL

NOTES

1. The concrete base shall be poured in such a manner to insure that the concrete fills the bottom of the riser to the invert of the riser pipe to prevent the riser from breaking away from the base.
2. With aluminum or aluminum pipe the embedded section must be painted with zinc chromate or equivalent.
3. Riser base may be sized as computed using flotation with a factor of safety of 1.2.



RIPRAP CHANNEL AT POND BOTTOM (NOT TO SCALE)



ORIFICE TRASH RACK DETAIL (NOT TO SCALE)

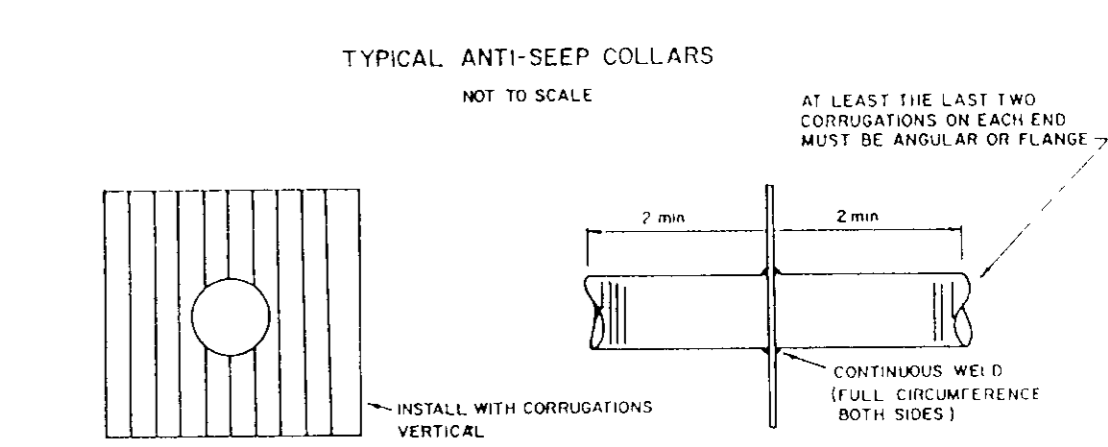
I CERTIFY THAT THIS AS-BUILT IS ACCURATE AND COMPLETE AND THAT THE POND AS CONSTRUCTED MEETS THE REQUIREMENTS OF THE STANDARDS AND SPECIFICATIONS FOR PONDS.

Robert J. Ziehm

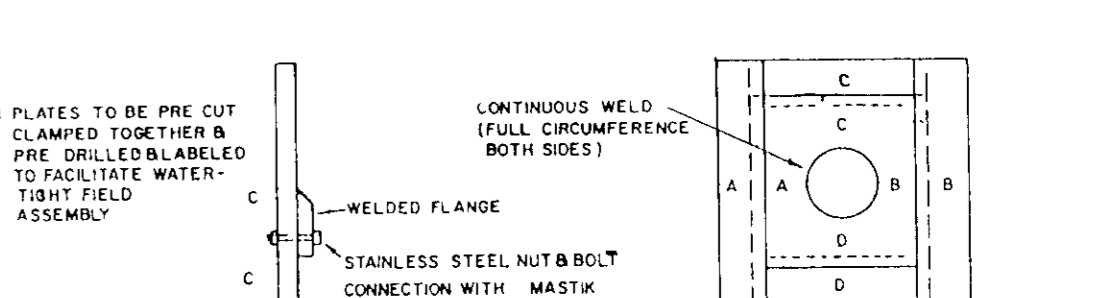
Top is 10 gage corrugated metal or 1/8\" steel plate. Pressure relief holes may be omitted, if ends of corrugations are left fully open when corrugated top is welded to cylinder.

Cylinder is 12 gage corrugated metal pipe or fabricated from 1/8\" steel plate.

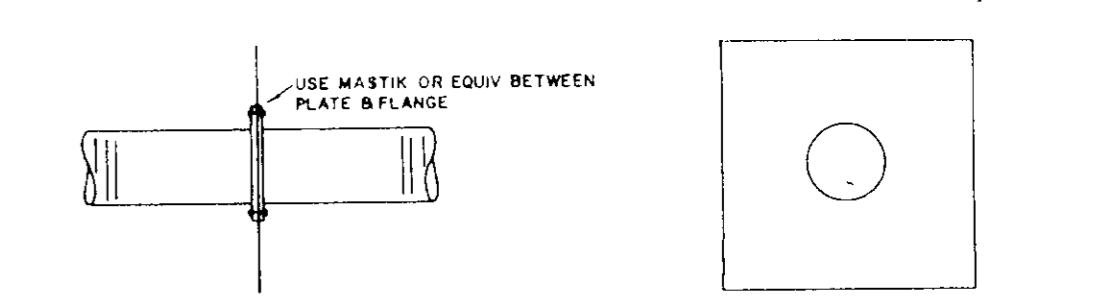
- Notes
- 1) The cylinder must be firmly fastened to the top of the riser.
 - 2) Support bars are welded to the top of the riser or attached by straps bolted to top of riser.



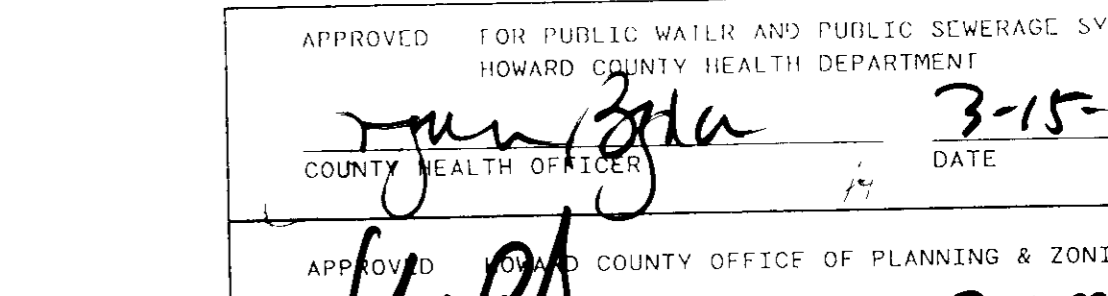
TYPICAL ANTI-SEEP COLLARS (NOT TO SCALE)



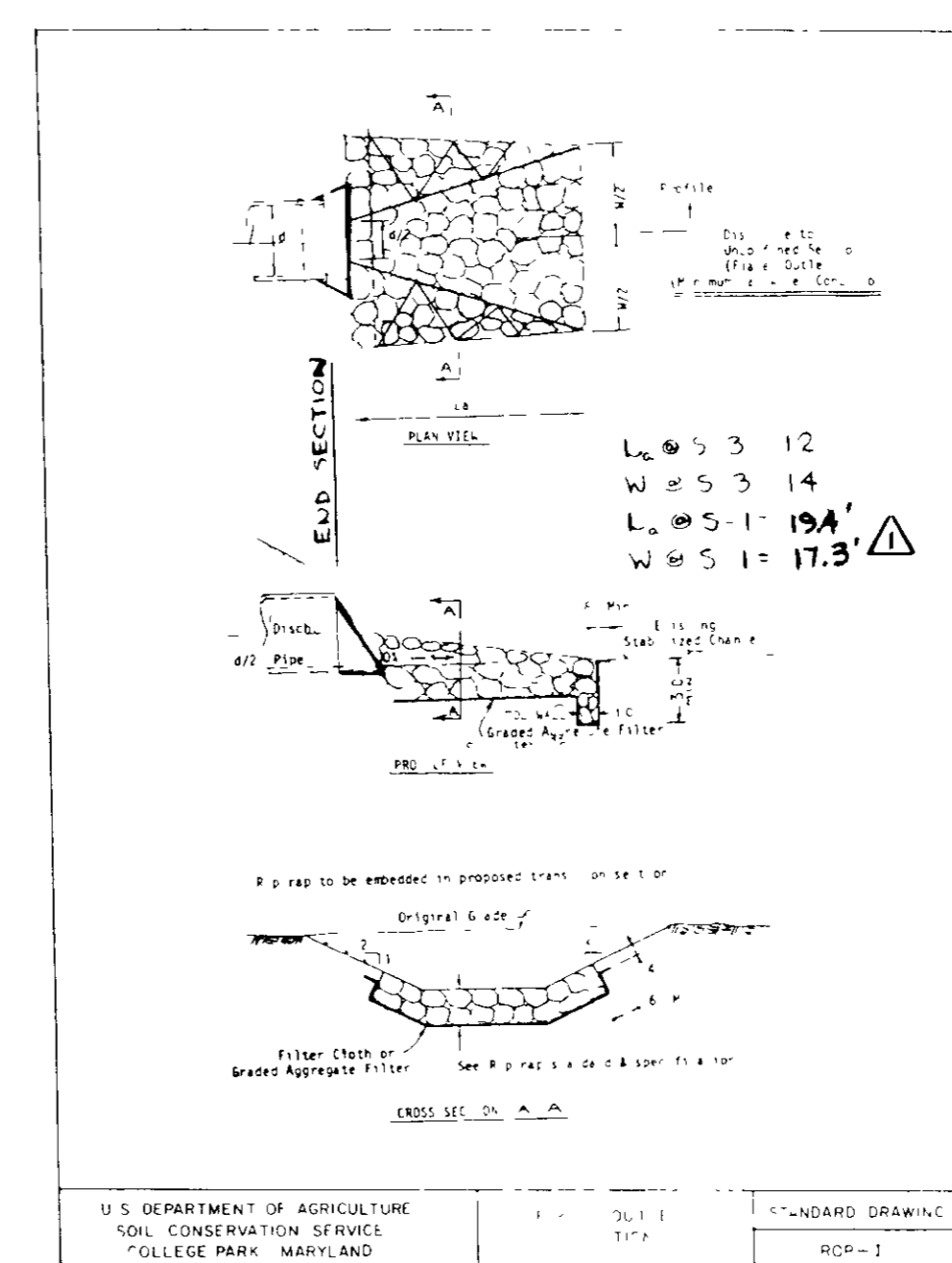
COLLAR WELDED IN PLACE ON BARREL SECTION



MULTI-PIECE COLLAR FOR LARGE PIPES



COLLAR FOR FLANGE JOINT PIPE



U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE COLLEGE PARK, MARYLAND

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS
HOWARD COUNTY HEALTH DEPARTMENT

John J. Gila 3-15-89
COUNTY HEALTH OFFICER DATE

APPROVED FOR HOWARD COUNTY OFFICE OF PLANNING & ZONING

Robert J. Ziehm 2-22-89
DIRECTOR DATE

Robert J. Ziehm 3-17-89
CHIEF DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT DATE

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS
DRAINAGE SYSTEMS AND PUBLIC ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

Robert J. Ziehm 3-11-89
DIRECTOR DATE

Robert J. Ziehm 3-13-89
CHIEF BUREAU OF ENGINEERING DATE

REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS

Robert J. Ziehm 2-10-89
Soil Conservation Service Date

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

Robert J. Ziehm 2-10-89
Soil Conservation Service Date

By the Engineer

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

Michael N. Armstrong 12/6/88
Signature of Engineer Date

By the Developer

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 Natural Resources Approved Training Program for the Control of Sediment and Erosion before beginning the project. I will provide the Howard Soil Conservation District with an "as-built" plan of the pond within 30 days of completion. I do authorize periodic on-site inspections by the Howard Soil Conservation District.

Robert J. Ziehm 2-10-89
Signature of Developer Date

Robert J. Ziehm 2-10-89
Signature of Developer Date

DESIGNED		DATE		REVISIONS	
JAB	10/88	DATE	BY	DESCRIPTION	
MNA	10/88	6/5/92	SP	AS-BUILT	
MNA	10/88				

ENGINEERING TECHNOLOGIES ASSOCIATES, INC.

ENGINEERS, SURVEYORS, CONSTRUCTION MANAGERS

9051 BALTIMORE NATIONAL PIKE
ELLCOTT CITY, MD. 21043
(301) 461 9920

OWNER / DEVELOPER

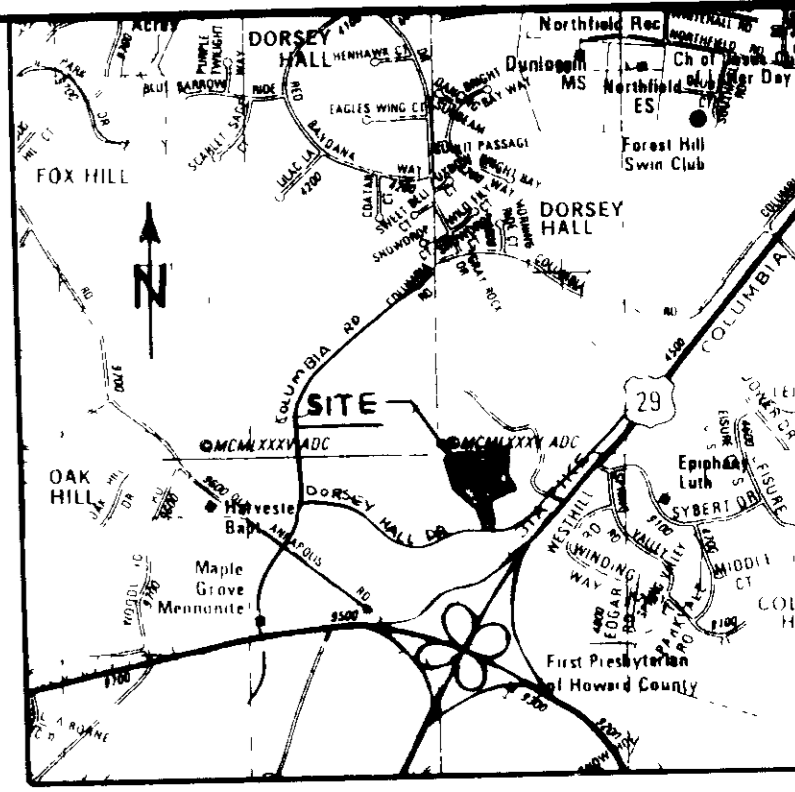
ELLCOTT RIDGE CORPORATION II
DYSON CONSTRUCTION CO, INC
3440 ELLCOTT CENTER DRIVE SUITE 101
ELLCOTT CITY, MARYLAND 21043
(301) 461-4188

POND SPECIFICATIONS & DETAILS

DORSEY HALL
(OFFICE CONDOMINIUMS)
SECTION - 2 AREA - 5 PARCEL N-1
2ND ELECTION DISTRICT, HOWARD COUNTY, MARYLAND

SCALE AS SHOWN CONTRACT NO. DATE 10/88 SHEET 7 OF 9

SDP-89-72



HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DISTRICT AND PRELIMINARY REQUIREMENTS

James M. Helms 2-10-89
Soil Conservation Service

THIS DEVELOPMENT IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY THE
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

Robert W. Ziehm 2-10-89
Howard County Department of Public Works

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS
HOWARD COUNTY HEALTH DEPARTMENT

John Ziehm 3-15-89
COUNTY HEALTH OFFICER DATE

APPROVED HOWARD COUNTY OFFICE OF PLANNING & ZONING
[Signature] 3.22.89
DIRECTOR DATE

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE
STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

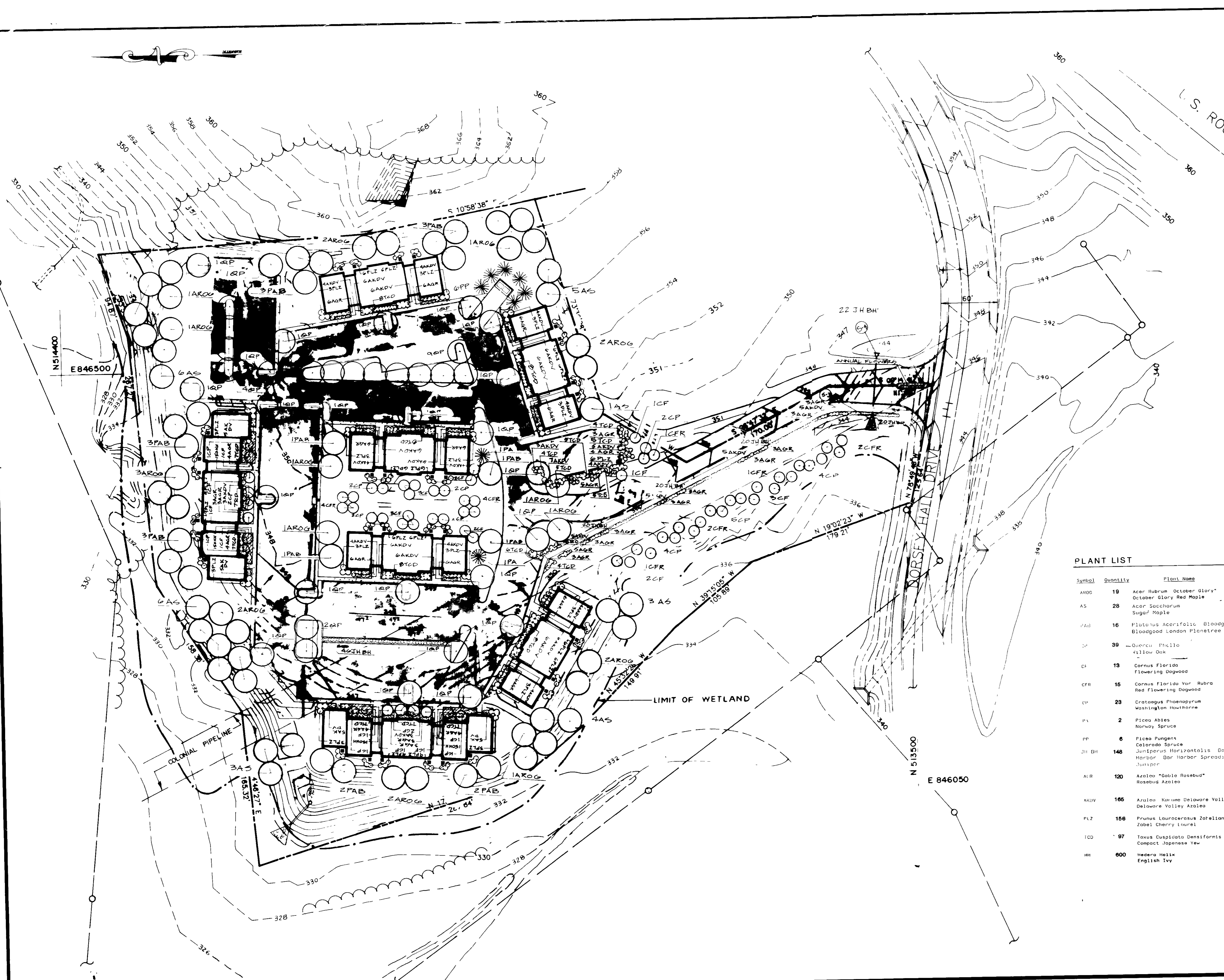
[Signature] 3-13-89
DIRECTOR DATE

[Signature] 3-13-89
CHIEF BUREAU OF ENGINEERING DATE

PLANT LIST

Symbol	Quantity	Plant Name	Size	Notes
AMOC	19	Acer Rubrum October Glory*	2 1/2"	
		October Glory Red Maple		
AS	28	Acer Saccharum	2 1/2" - 3 cal	B & B Sugar Maple
PAU	16	Platanus Acorifolia Bloodgood	2 1/2" - 3 cal	L & B Bloodgood London Planetree
Q	39	Quercus Phellos	4 1/2" - 5 cal	B & B Yellow Oak
CF	13	Cornus Florida	2" - 2 1/2"	Flowering Dogwood
CFR	15	Cornus Florida Var. Rubra	2" - 2 1/2"	Red Flowering Dogwood
CR	23	Crataegus Phoenopyrum	2" - 2 1/2"	Washington Hawthorne
PA	2	Picea Abies	6" - 8"	Norway Spruce
PP	6	Picea pungens	6" - 8"	Colorado Spruce
JH BH	148	Juniperus Horizontalis Bar Harbor	10"	Bar Harbor Spreading Juniper
AR	120	Azalea "Gauld Rosebud"	24"	Rosebud Azalea
AKU	165	Azalea Kurume Delaware Valley	24"	Delaware Valley Azalea
PLZ	158	Prunus Laurocerasus Zeteliana	18"	Zabel Cherry Laurel
ICD	97	Taxus cuspidata densiformis	10"	Compact Japanese Yew
HI	600	Hedera Helix	2 yr	English Ivy

2-1-89
LKS



DESIGNED		DATE		REVISIONS	
MFZ	10/88	DATE	BY	DESCRIPTION	
DRAWN	GADD/MZ/EP	DATE			
CHECKED		DATE			
APPROVED		DATE			

ENGINEERING TECHNOLOGIES ASSOCIATES, INC.
ENGINEERS * PLANNERS * SURVEYORS

3458 ELLICOTT CENTER DRIVE, SUITE 101
ELLICOTT CITY, MARYLAND 21043
BALTO 461-9920 WASH 821-4690

OWNER / DEVELOPER
ELLICOTT RIDGE CORPORATION II,
DYSON CONSTRUCTION CO, INC
3440 ELLICOTT CENTER DRIVE SUITE 101
ELLICOTT CITY, MARYLAND 21043
(301) 461-4188

LANDSCAPE PLAN
DORSEY HALL
(OFFICE CONDOMINIUMS)
SECTION - 2 AREA - 5 PARCEL N-1
2ND ELECTION DISTRICT, HOWARD COUNTY, MARYLAND

SCALE: 1"=50' CONTRACT NO. DATE OCT, 1988 SHEET 5 OF 9

THE PLAN OF A ZONED COUNTY DISTRICT WATER DISTRICT AND PUBLIC UTILITIES REQUIREMENTS

James M. Kuhn 2-10-89
Soil Conservation Service Date

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

Robert W. Zielmu 2-10-89
Howard Soil Conservation District Date

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS
HOWARD COUNTY HEALTH DEPARTMENT

[Signature] 2-15-89
COUNTY HEALTH OFFICER DATE

APPROVED FOR HOWARD COUNTY OFFICE OF PLANNING & ZONING
2.22.89
[Signature] DATE

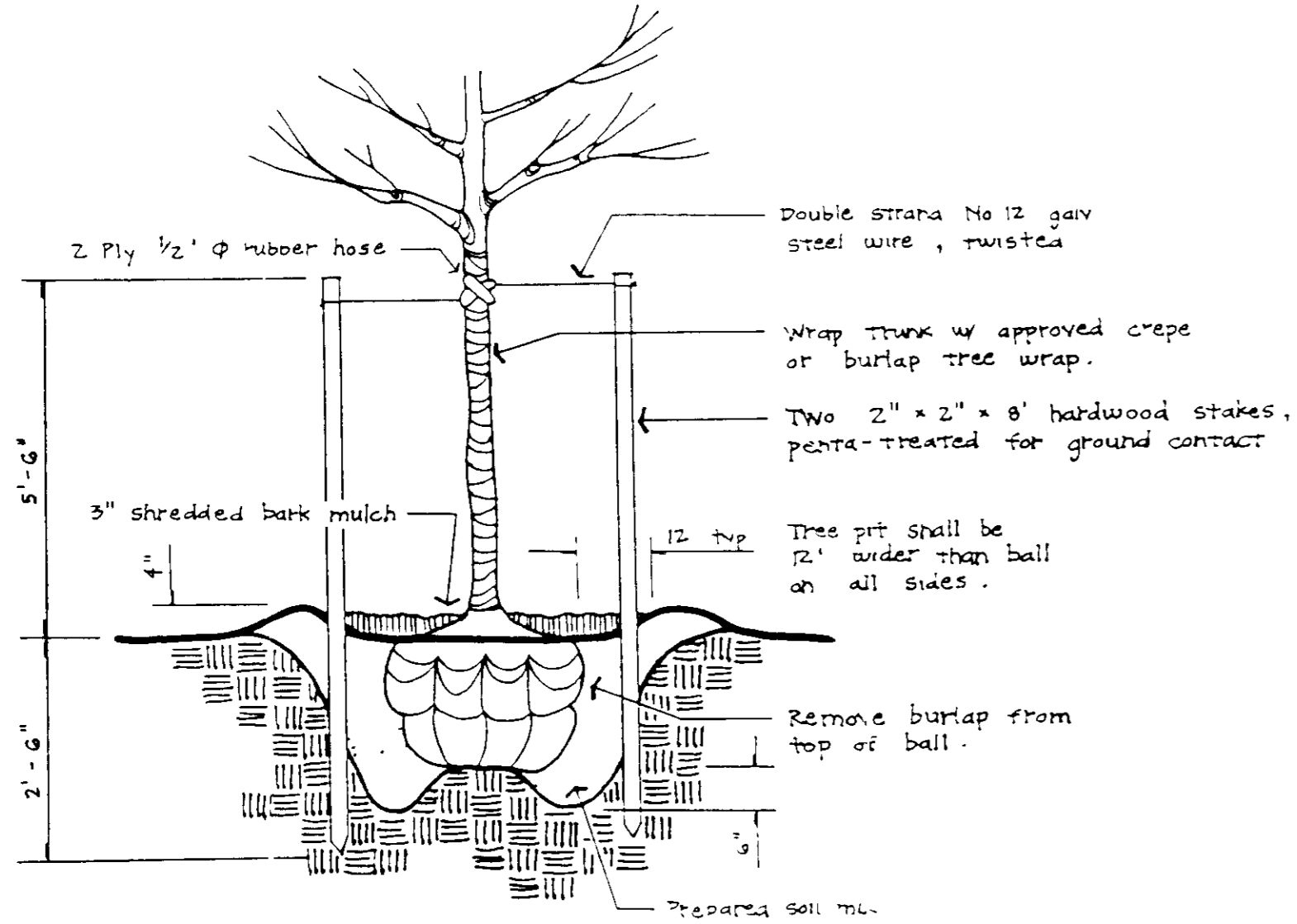
DIRECTOR
[Signature] 2-12-89
DATE

Chief, Division of Community Planning and Land Development

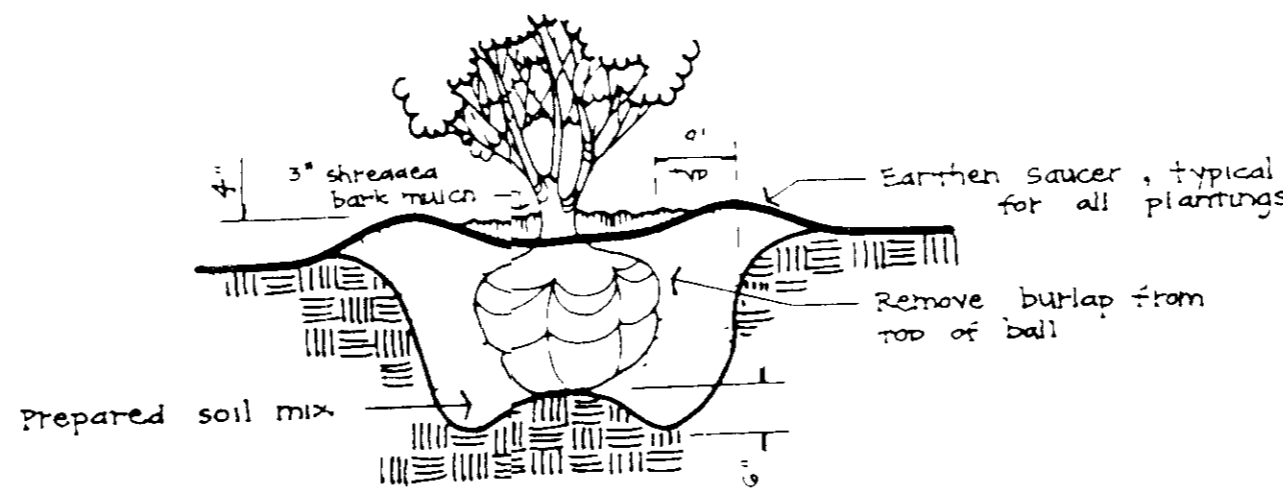
APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE
STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

DIRECTOR
[Signature] 2-13-89
DATE

CHIEF BUREAU OF ENGINEERING



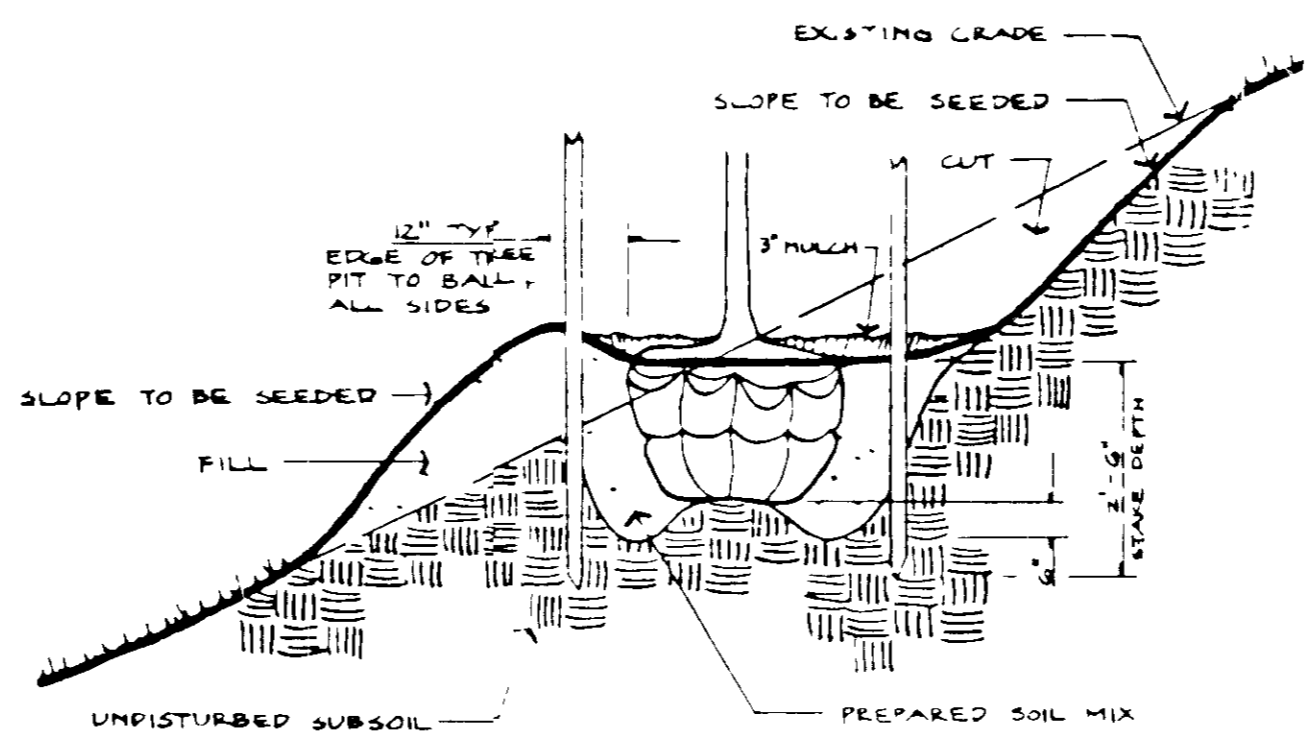
TREE PLANTING DETAIL
NO SCALE



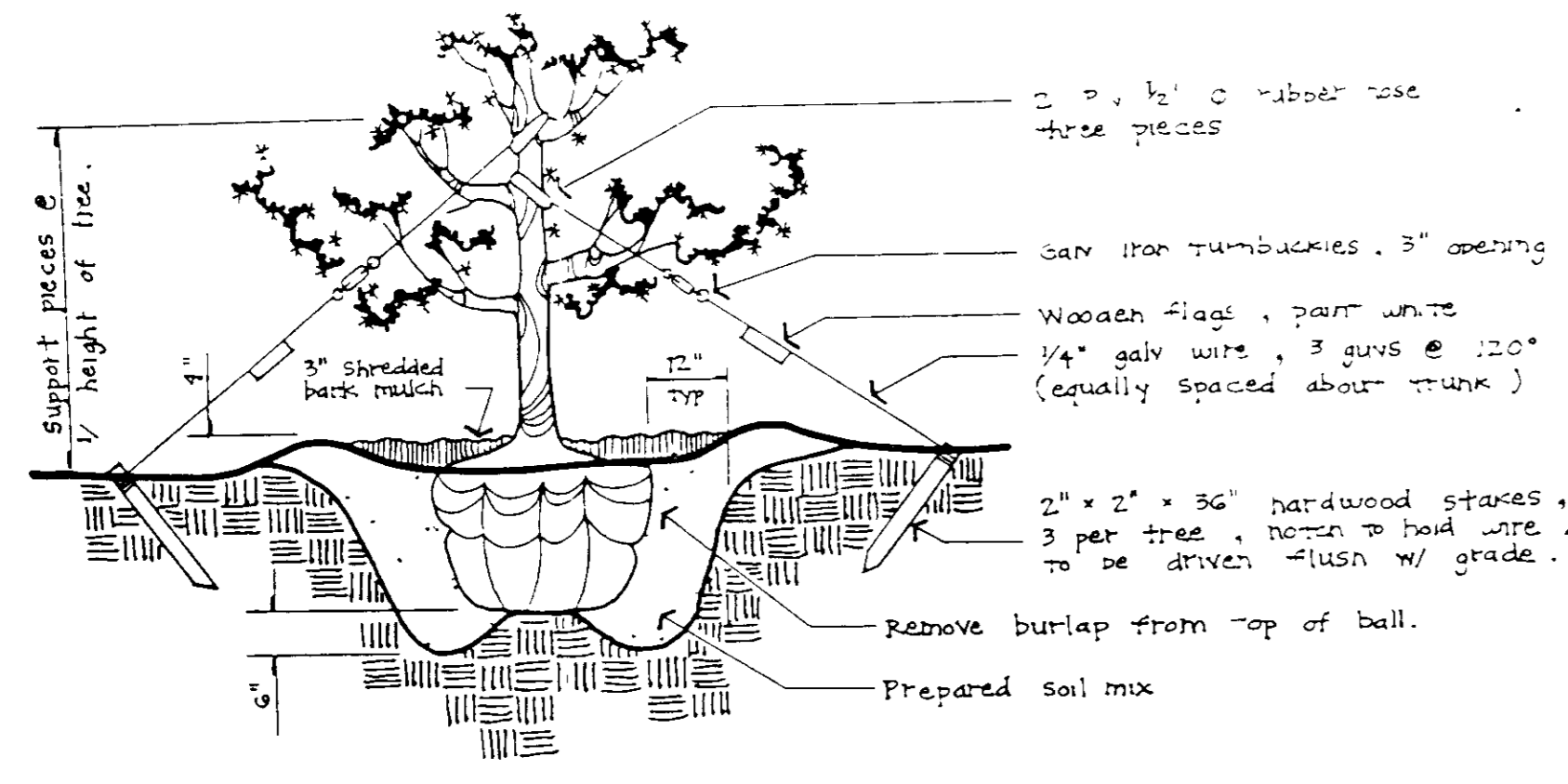
SHRUB PLANTING DETAIL
NO SCALE

PLANTING NOTES

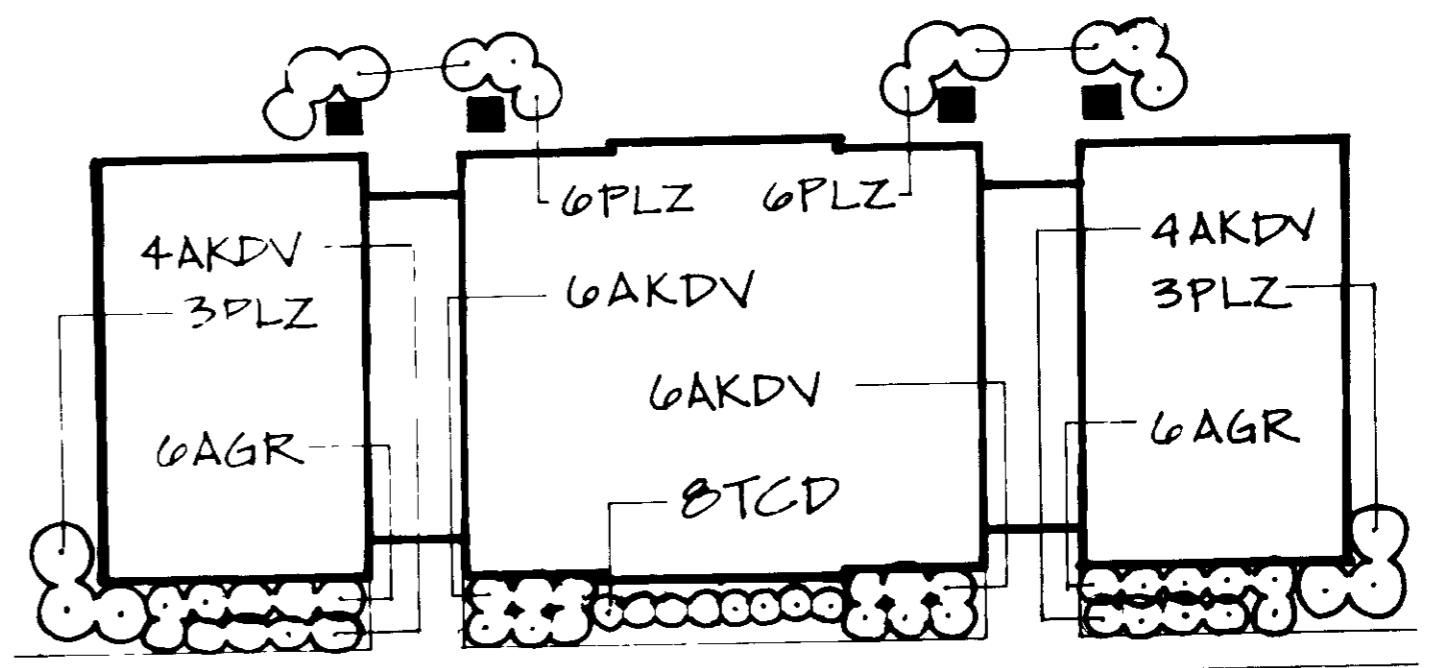
1. ALL PLANTS SHALL BE BURSERY GROWN.
2. ALL PLANTS SHALL CONFORM TO THE STANDARDS OF AN. THEY SHALL BE TYPICAL OF THEIR SPECIES OR VARIETY AND SHALL HAVE A NORMAL SHAPE OF GROWTH. THEY SHALL BE SOUND, HEALTHY AND VIGOROUS, WELL-BRANCHED AND DENSELY FOLIATED WHEN IN LEAF. THEY SHALL HAVE HEALTHY AND INSECT FREE, SMALL OR LARGE, WELL-DEVELOPED ROOT SYSTEM.
3. NO SUBSTITUTIONS SHALL BE MADE WITHOUT THE APPROVAL OF THE LANDSCAPE ARCHITECT.
4. THE CONTRACTOR SHALL VERIFY ALL QUANTITIES OF PLANT MATERIAL ON THE DRAWING. IN THE PLANT LIST AND SHALL PROVIDE AND PLANT ALL MATERIAL AS INDICATED ON THE DRAWING.
5. FINAL LOCATION IN THE FIELD TO BE DETERMINED BY THE LANDSCAPE ARCHITECT.
6. IT IS THE OWNER'S RESPONSIBILITY TO PROPERLY MARK ALL PLANTS (GROUND COVER, TREES EXCLUDED) WITH IDENTIFYING LABELS SYSTEMS, SPECIES, PLANT VARIETY, IF APPLICABLE. THESE LABELS ARE NOT TO BE REMOVED UNTIL AFTER THE USE AND OCCUPANCY PERMITS IS ISSUED OUT.
7. CONTRACTOR SHALL VERIFY LOCATION OF ALL UTILITIES IN THE FIELD BEFORE PROCEEDING WITH THE INSTALLATION OF ANY PROPOSED PLANT MATERIAL.
8. BALLED AND BURLAPPED PLANTS SHALL BE DUG WITH THE FEET NATURAL BULLS OF EARTH. OF DIAMETER AND DEPTH TO ENCLOSE MOST OF THE FIBROUS ROOTS. CONTAINER GROWN STOCK SHALL HAVE BEEN GROWN IN A CONTAINER LONG ENOUGH FOR THE ROOT SYSTEM TO HAVE DEVELOPED SUFFICIENTLY TO HOLD ITS SOIL TOGETHER FIRM AND WHOLE. NO PLANTS SHALL BE LOOSE IN THE CONTAINER.
9. ROOT BALLS OF ALL PLANTS SHALL BE ADEQUATELY PROTECTED AT ALL TIMES FROM SUN AND DRYING WINDS OR FROST.
10. OWNER OR HIS REPRESENTATIVE SHALL BE NOTIFIED PRIOR TO BEGINNING PLANTING OPERATIONS.
11. TOPSOIL MIXTURE WILL BE AS FOLLOWS:
A. 4 PARTS CLEAN LEAN TOPSOIL
B. 2 PARTS CLEAN COURSE SAND
C. 1 PART PEAT MOSS
12. ALL TREES SHALL BE CRAPPED IMMEDIATELY AFTER THEY ARE PLANTED. APPROVED TREE MARK SHALL BE INSTALLED ACCORDING TO ACCEPTED INDUSTRY PRACTICE.
13. STAKE ALL TREES WITH STAKES PLACED AT EQUIDISTANCE (120°) AROUND TREES.
14. EACH TREE AND SHRUB SHALL BE PRUNED IN ACCORDANCE WITH THE AMERICAN ASSOCIATION OF HORTICULTURISTS STANDARDS TO PRESERVE THE NATURAL CHARACTER OF THE PLANTS. ALL DEAD WOOD OR BRANCHES AND ALL DROOPING OR BADLY BRUISED BRANCHES SHALL BE REMOVED. CUTS OVER 1" IN DIAMETER SHALL BE PATCHED WITH AN APPROVED TREE PATCH.
15. TREES SHALL HAVE CLEAR TRUNK SPACE OF FIVE FEET ABOVE FINISHED GRADE.
16. MULCH: ALL PLANTINGS SHALL BE CAREFULLY MADE BACKFILL TAMPED WATERED IN AND MULCHED WITH A LAYER OF SHREDED BARK MULCH OR OTHER MATERIAL APPROVED BY THE OWNER OR HIS REPRESENTATIVE. THE LIST OF THIS MULCH FOR TREES SHALL BE THE AREA OF THE PIT AND FOR SHRUBS IN BEDS THE ENTIRE AREA OF THE SHRUB BED.
17. TREES IN LEAF WHEN PLANTED SHALL BE TREATED WITH ANTI-DESICANT SUCH AS WILT-PROOF.
18. CONDITIONS DETRIMENTAL TO PLANTS: THE CONTRACTOR SHALL NOTIFY THE PROJECT REPRESENTATIVE IN WRITING OF ALL SOIL OR DRAINAGE CONDITIONS WHICH THE CONTRACTOR CONSIDERS DETRIMENTAL TO THE GROWTH OF PLANTS. HE SHALL STATE THE CONDITIONS AND SUBMIT A PROPOSAL FOR CORRECTING THE CONDITIONS INCLUDING ANY CHANGE IN COST FOR REVIEW AND ACCEPTANCE BY THE PROJECT REPRESENTATIVE.
19. ROCKS AND UNSUITABLE SOIL TO BE REMOVED FROM PLANTING HOLES.
20. ALL PLANTINGS SHALL BE AS PER PLAN AND SHALL BE GUARANTEED TO BE ALIVE AND THRIVING FOR A PERIOD OF ONE YEAR FROM THE DATE PLANTED. REPLACEMENT (IF ANY) SHALL BE MADE PROMPTLY.
21. MAJOR ADJUSTMENTS TO TREE LOCATION MAY BE NECESSARY DUE TO FIELD CONDITIONS AND FINAL LOCATING. THE CONTRACTOR SHALL NOTIFY THE OWNER IF MAJOR ADJUSTMENTS ARE REQUIRED.
22. ALL AREAS NOT SHOWN AS PLANTING BEDS IN LANDSCAPE AREA ARE TO BE COVERED WITH 500 (PLANTING ISLANDS) OR GRASS SEEDS (PERIPHERY/LANDSCAPE STRIP).
23. ALL TREES TO BE A MINIMUM OF 5' FROM INLET OR MANHOLE.
24. THIS PLAN IS FOR LANDSCAPE PURPOSES ONLY.



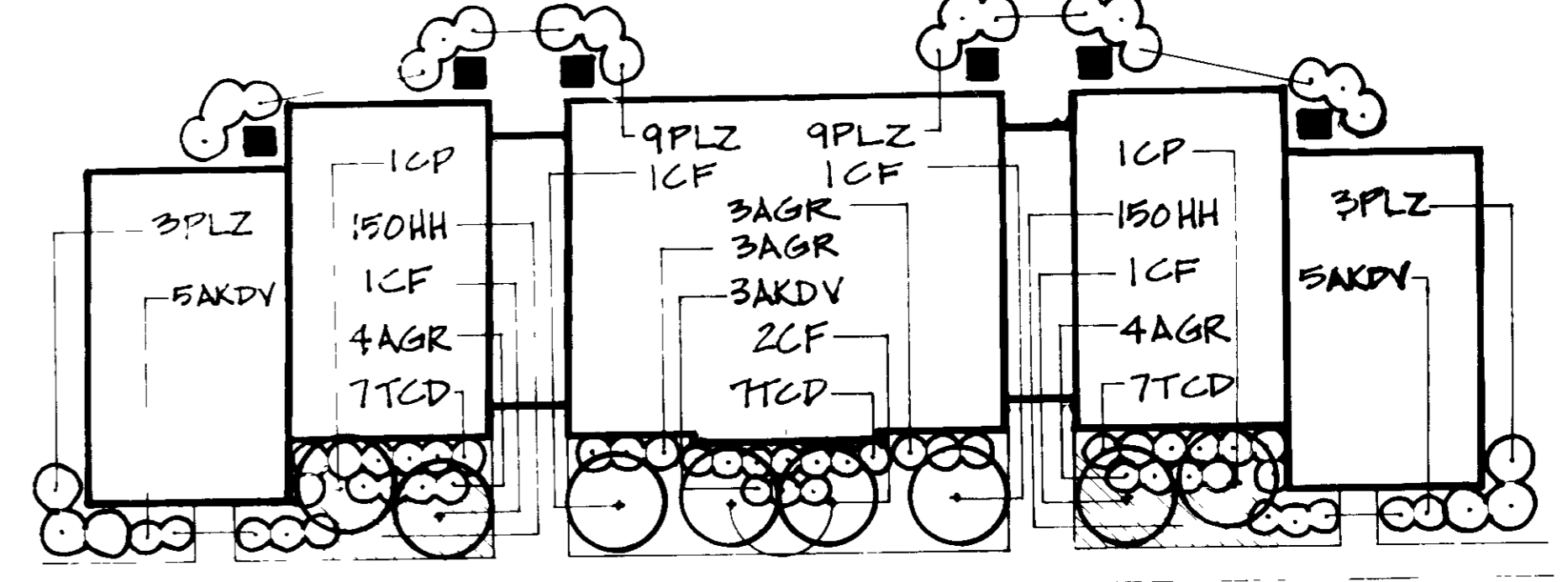
TREE PLANTING ON SLOPE
NO SCALE



EVERGREEN TREE DETAIL
NO SCALE



TYPICAL 6 UNIT PLANTING PLAN
NO SCALE



TYPICAL 10 UNIT PLANTING PLAN
NO SCALE

DESIGNED		DATE		REVISIONS			
DATE	BY	DATE	BY	DESCRIPTION			
MPZ	12/28	MPZ	12/28				
CADD/MZ/SP	10/80						
MNA	15/88						
	DATE						

ENGINEERING TECHNOLOGIES ASSOCIATES, INC.

ENGINEERS SURVEYORS. CONSTRUCTION MANAGERS

345B ELLICOTT CENTER DRIVE SUITE 101
ELLICOTT CITY, MARYLAND 21043
301 461 9920

OWNER / DEVELOPER

ELLICOTT RIDGE CORPORATION &
DYSON CONSTRUCTION CO., INC
3440 ELLICOTT CENTER DRIVE SUITE 101
ELLICOTT CITY, MARYLAND 21043
(301) 461-1188

Michael N. Armstrong

PLANTING DETAILS, NOTES, & TYPICAL UNIT PLANS

DORSEY HALL
(OFFICE CONDOMINIUMS)
SECTION - 2 AREA - 5 PARCEL N-1
2ND ELECTION DISTRICT, HOWARD COUNTY, MARYLAND

SCALE: AS SHOWN CONTRACT NO. --- DATE: OCT., 1988 SHEET 9 OF 9

SDP-89-72