

STA 1000 2244000 ELEV. 217.075  
 CONSTRUCTION: N APPROXIMATE TO DORSEY  
 DESCRIPTION: CONC. MON. 2' ELEV. SURFACE  
 N DICE HILLS RD, W DICE RD.  
 ROUTE 1

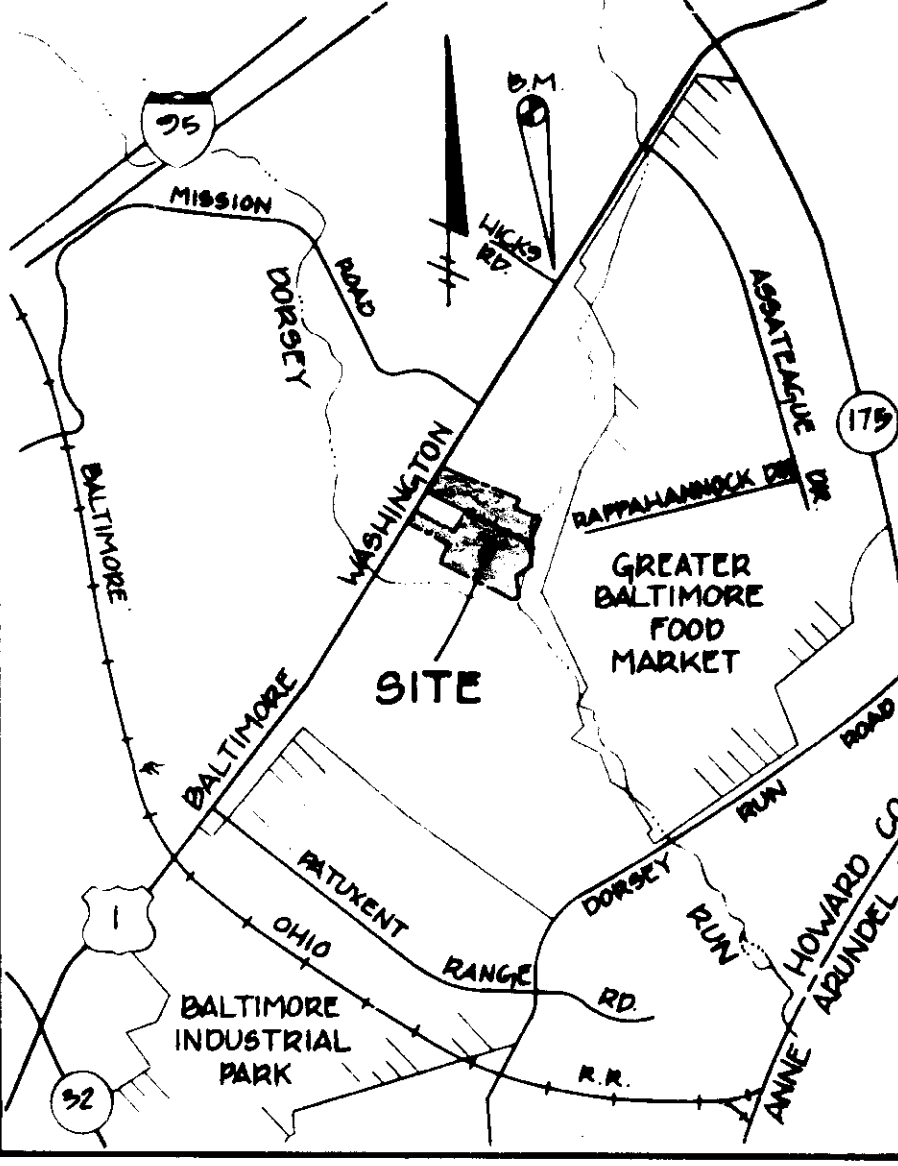
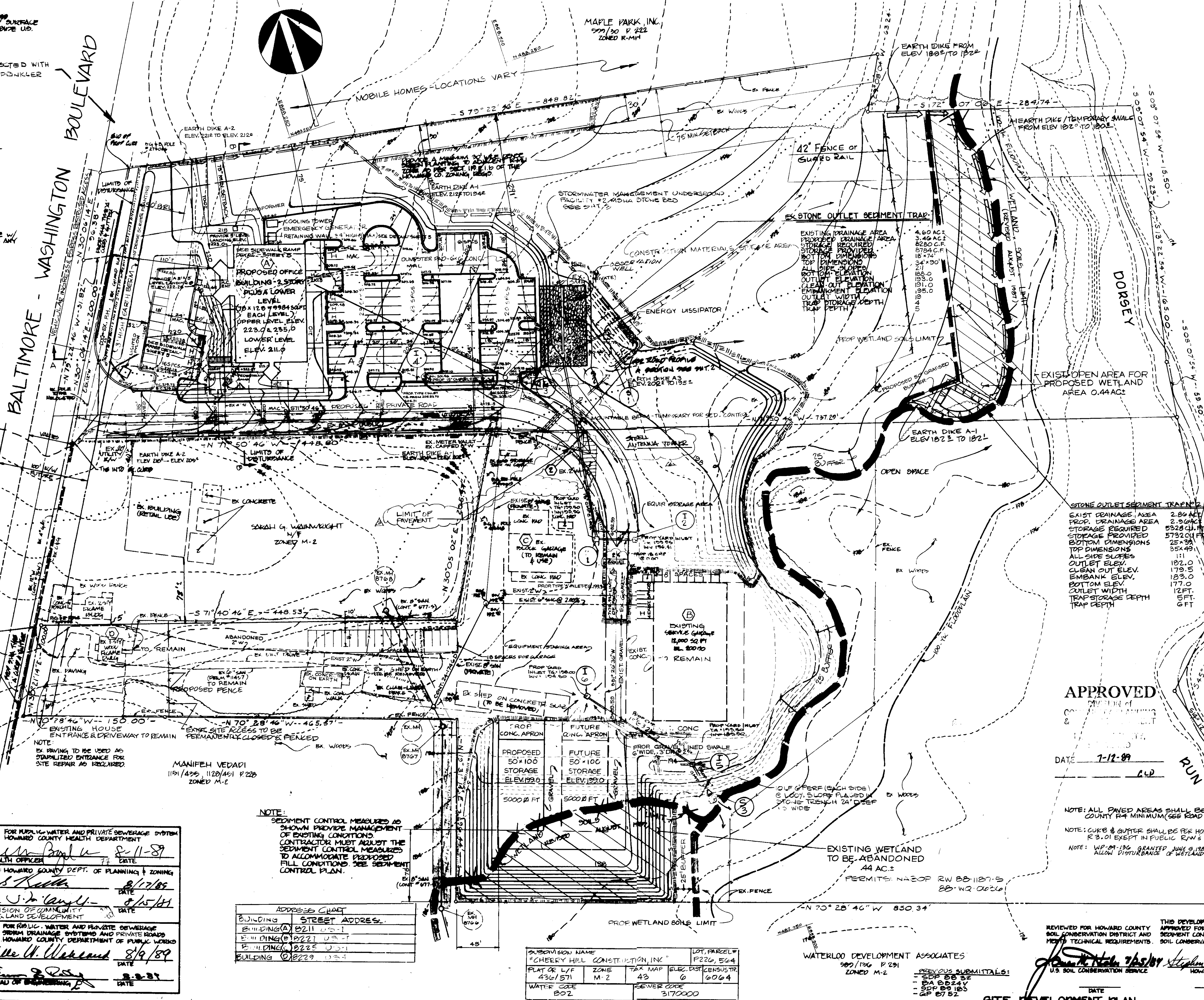
BUILDING A IS PROTECTED WITH AN APPROVED AUTOMATIC SPRINKLER SYSTEM.

STA 472.19 TO 528.02.97  
 R. 192.90'  
 L. 210.44'  
 T. 194.89'  
 Δ. 91°00'00"  
 CHD. 921°09'24" 187.0'

NOTE: PROVIDE A 10' LANDSCAPED EDGE W/ 2' HIGH EARTH MOUND ALONG ANY FRONTAGE TO US ROUTE 1.

NOTE: EX. PAVING TO BE USED AS STABILIZED ENTRANCE FOR SITE

ZONED M-1



VICINITY MAP  
 SCALE 1"=2000'  
 SITE ANALYSIS

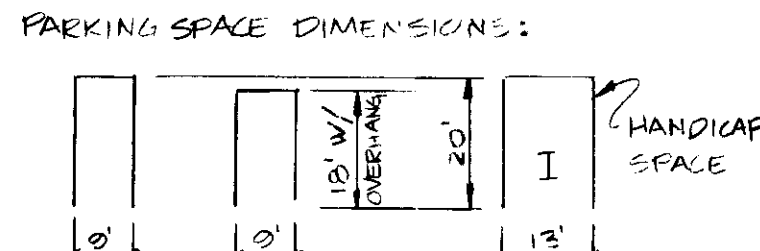
TOTAL AREA DISTURBED: 5.39 AC OR 234788 sq ft  
 TOTAL AREA OF SITE: 19.22 AC OR 837238 sq ft  
 PARCEL 226 = 8.92 AC OR 387552 sq ft  
 PARCEL 564 = 10.30 AC OR 448686 sq ft  
 TOTAL = 19.22 AC OR 837238 sq ft

ZONING: M-2, 150' BRL @ NORTHERN BOUNDARY W/ MAPLE PARK REDUCED TO 75' BRL BY BOARD OF APPEALS CASE # BA-88-24V

FLOOR SPACE: OFFICE: 28952 sq ft / 250 x 710 = 84 SPACES

PARKING: OFFICE: 28952 sq ft / 1500 sq ft = 19.30 SPACES

SERVICE GARAGE: 12,000 sq ft / 500 sq ft = 24 SPACES



AVERAGE DAILY TRIPS: 12/1000 sq ft GFA  
 OFFICE: 28952 sq ft / 1000 = 28.95 x 12 = 347.4  
 SERVICE GARAGE: 12000 sq ft / 1000 = 12.0 x 12 = 144.0  
 TOTAL: 491.4

OPEN SPACE: REQUIRED: 20% OR 0.20 x 19.22 AC = 3.84 AC  
 PROVIDED: 66% OR 12.6 AC

PROPOSED IMPERVIOUS AREA = 102,260 sq ft OR 2.33 AC  
 EXISTING BUILDING COVERAGE = 23 AC OR 1.7% SITE  
 PROPOSED BUILDING COVERAGE = 72 AC OR 3.7% SITE

LEGEND

- EXIST. CONTOUR
- PROP. CONTOUR
- WETLAND SOILS LIMIT
- DOVE FLOODPLAIN
- EXISTING W/VS
- MACADAM HAVING EASEMENT
- LIMITS OF DISTURBANCE
- EARTH DIKE
- SILT FENCE
- MOUNTAELL F RM
- HANDICAP PARKING SIGN
- 20' LIGHT STANDARD

APPROVED

DATE: 7-12-89  
 L.W.

NOTE: ALL PAVED AREAS SHALL BE HONORED COUNTY R4 MINIMUM (SEE ROAD CNG)

NOTE: CURB & GUTTER SHALL BE PER H.O.C. PLATE R 3.01 EXCEPT IN PUBLIC R/W'S

NOTE: W.P. 89-184 GRANTED JUNE 9, 1989 TO ALLOW DISTURBANCE OF WETLAND AREA

REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.  
 U.S. SOIL CONSERVATION SERVICE  
 DATE: 7/25/89

SITE DEVELOPMENT PLAN



NOTE: SEDIMENT CONTROL MEASURES AS SHOWN PROVIDE MANAGEMENT OF EXISTING CONDITIONS. CONTRACTOR MUST ADJUST THE SEDIMENT CONTROL MEASURES TO ACCOMMODATE PROPOSED FILLS. CONDITIONS SEE SEDIMENT CONTROL PLAN.

ADDRESS CHART	STREET ADDRESS
BUILDING A	18211 US-1
BUILDING B	18227 US-1
BUILDING C	18225 US-1
BUILDING D	18229 US-1

SUBDIVISION NAME	LOT, PARCEL #
"CHERRY HILL CONSTRUCTION, INC."	P226, 564
PLAT OR L/F	TAX MAP
436/571	43
ZONE	ELEV. DIST. CENSUS TR.
M-2	0
WATER CODE	SEWER CODE
802	317000

APPROVED FOR PUBLIC WATER AND PRIVATE SEWERAGE SYSTEM  
 HOWARD COUNTY HEALTH DEPARTMENT  
 COUNTY HEALTH OFFICER: [Signature] DATE: 8/11/89  
 APPROVED HOWARD COUNTY DEPT. OF PLANNING & ZONING  
 DIRECTOR: [Signature] DATE: 8/17/89  
 CHIEF DIVISION OF COMMUNITY PLANNING & LAND DEVELOPMENT  
 [Signature] DATE: 8/15/89  
 APPROVED FOR PUBLIC WATER AND PRIVATE SEWERAGE SYSTEM  
 SOIL CONSERVATION DISTRICT AND PRIVATE BOARD  
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
 [Signature] DATE: 8/9/89  
 CHIEF BUREAU OF ENGINEERING

DATE: 9-1-89	REVISIONS:	DEVELOPMENT ENGINEERING CONSULTANTS, INC.	OWNER/DEVELOPER:	ELECTION DISTRICT:	"CHERRY HILL CONSTRUCTION, INC."	SHEET: 1 OF 9	DATE: JAN. 1989	CONTRACT NUMBER: 87-122
DATE: 10-27-87	CONSIDERS UTILITIES, LANDSCAPE CO. 400 CONK	BALTIMORE	CHERRY HILL CONSTRUCTION, INC.	GUILFORD - NO. 6			SCALE: 1"=50'	
DATE: 8-29-87	EXTEND MACADAM PAVING	MARYLAND	870 MISSION ROAD	HOWARD COUNTY, MARYLAND				
DATE: 4-29-87	WETLAND SOILS LIMIT, GRASSING, TRAP NO. 1		JESSUP, MARYLAND 12784					
DATE: 3-29-87	PROP. CONT. HONORED AS PER R.C.S.C. PARAGR. 41		(410) 282-2700					



BULK WATER AND PRIVATE SEWERAGE  
DESIGN HOWARD COUNTY HEALTH DEPARTMENT

*Granville W. McKeand* 8-11-89  
COUNTY HEALTH OFFICER DATE

*James Smith* 8/12/89  
APPROVED HOWARD COUNTY DEPT. OF PLANNING AND ZONING DATE

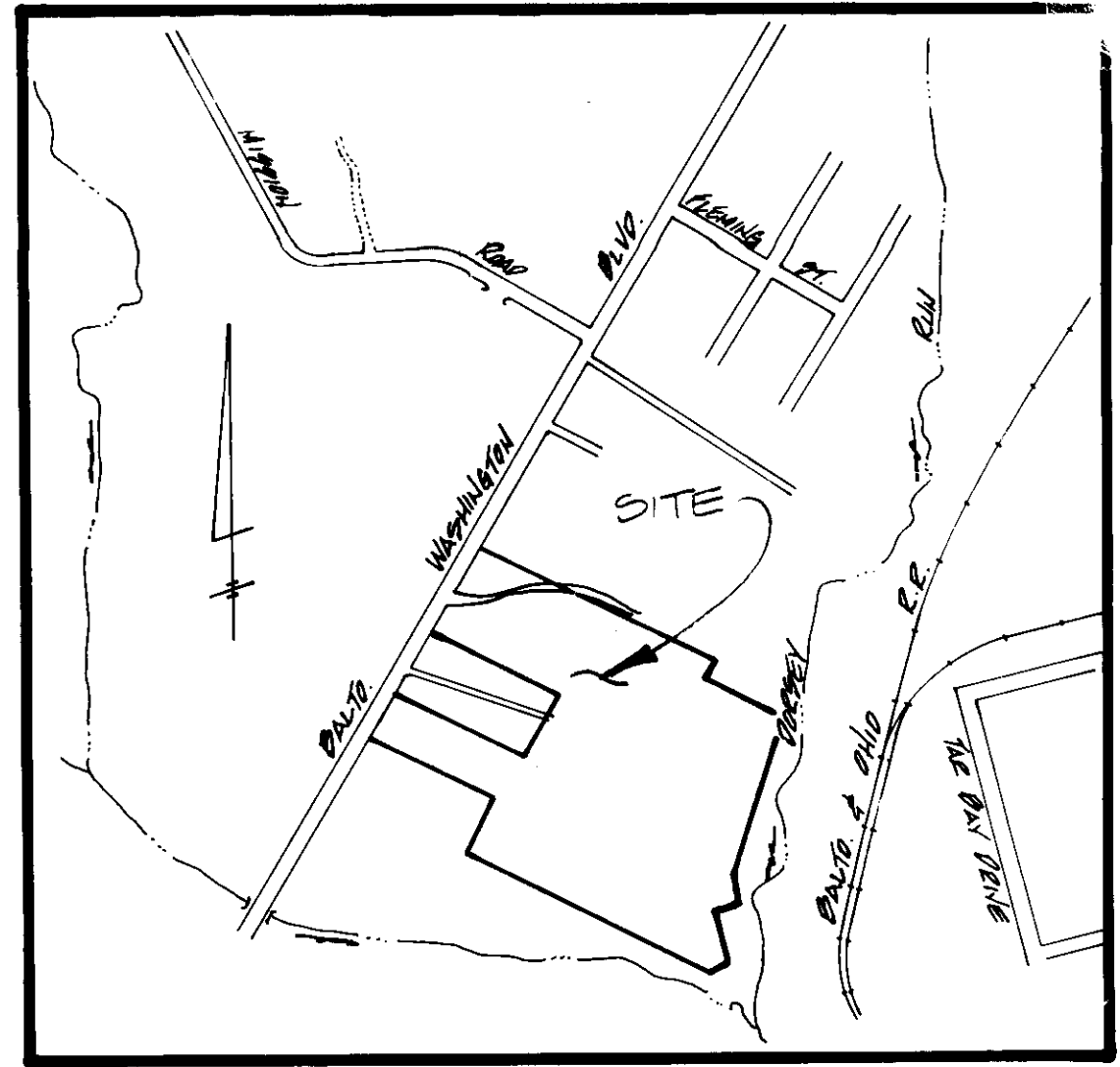
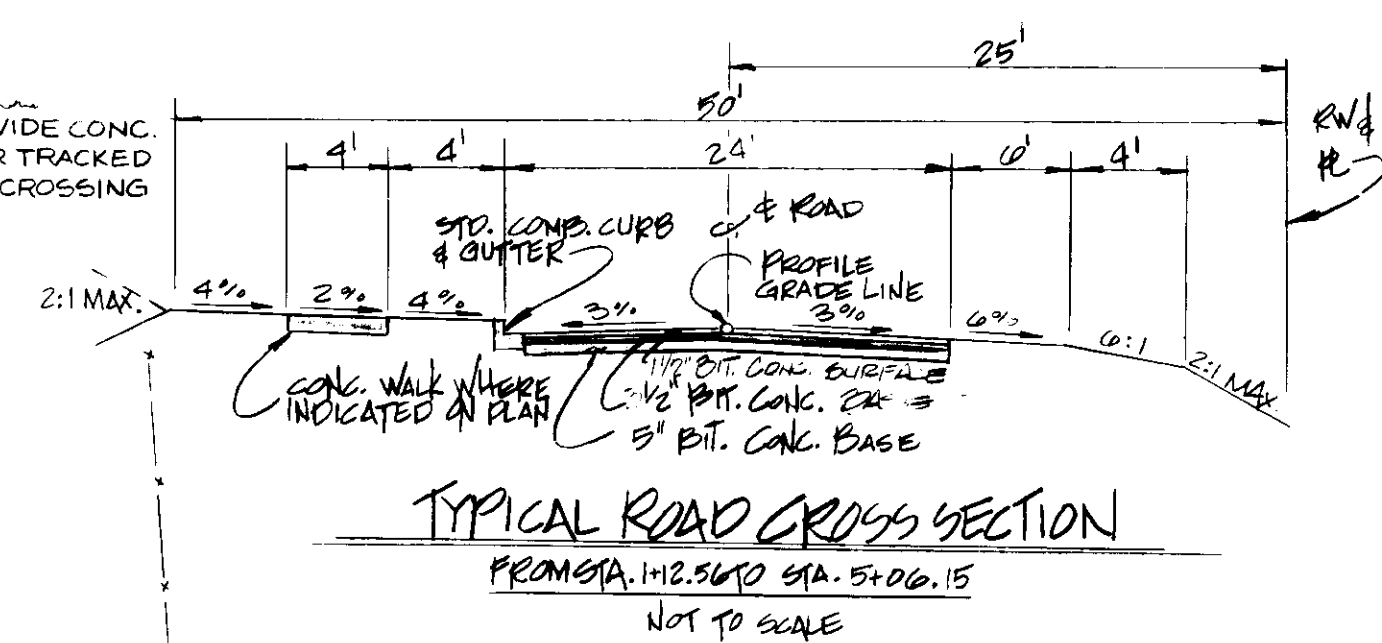
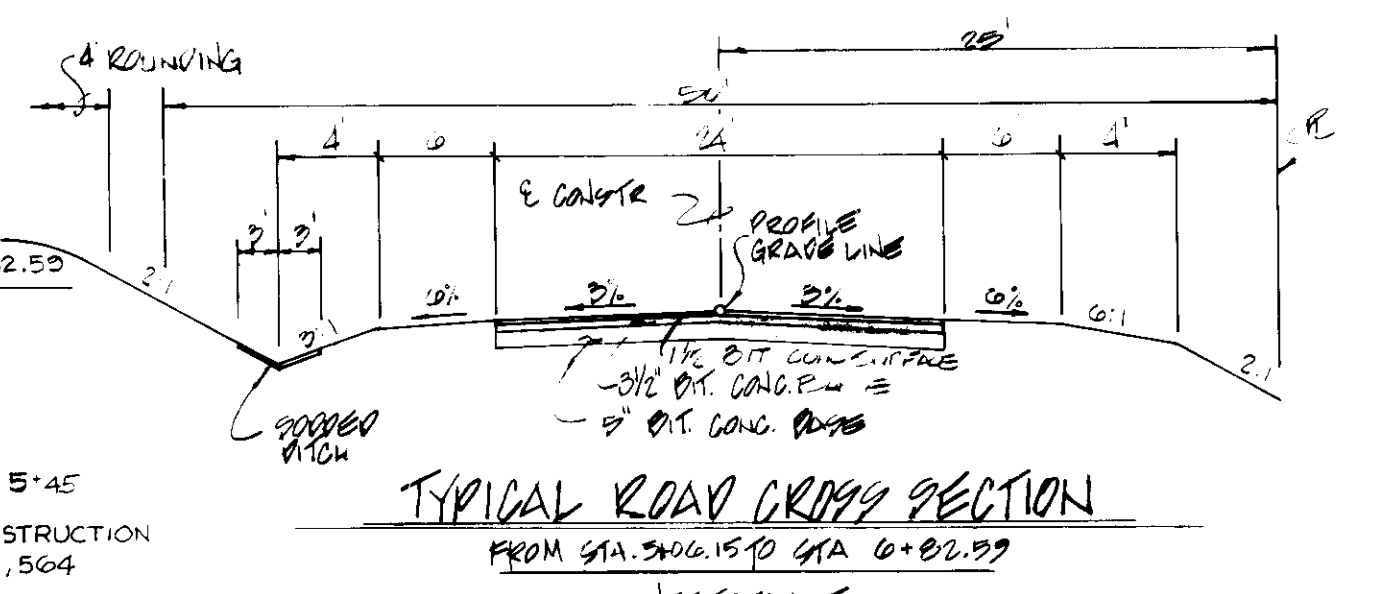
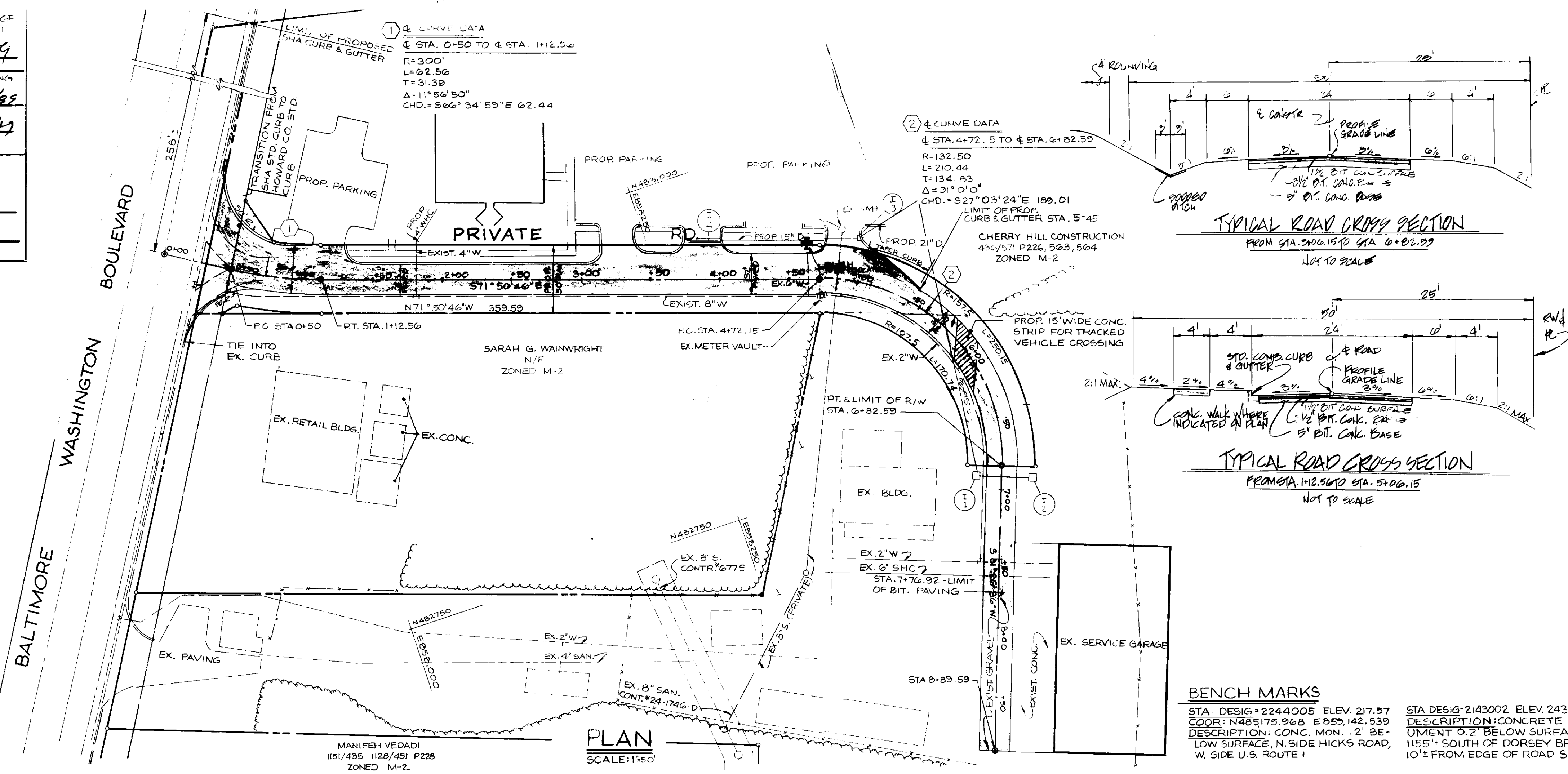
*Granville W. McKeand* 8/15/89  
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT DATE

*Granville W. McKeand* 8/9/89  
DIRECTOR DATE

*James R. Kelly* 8-8-89  
CHIEF, BUREAU OF ENGINEERING DATE

1/2" BIT CONC. SURFACE  
3/4" BIT CONC. BASE  
5" BIT CONC. BASE

**P-4 PAVING SECTION**  
NO SCALE



**LOCATION MAP**  
SCALE: 1"=600'

**GENERAL NOTES**

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH HOWARD COUNTY STANDARDS, SPECIFICATIONS AND DETAILS FOR CONSTRUCTION.
2. CONTRACTOR TO NOTIFY "MISS UTILITY" @ TELEPHONE NO. (301) 599-0100 AT LEAST 72 HOURS PRIOR TO STARTING EXCAVATION TO VERIFY ALL LOCATIONS OF EXISTING UTILITIES.
3. STORM DRAINAGE TRENCHES WITHIN ROAD RIGHT OF WAY SHALL BE BACK-FILLED AND COMPACTED IN ACCORDANCE WITH HOWARD COUNTY ROAD CODE.
4. ANY DAMAGE TO PUBLIC RIGHT OF WAYS, PAVING OR EXIST. UTILITIES WILL BE CORRECTED AT THE CONTRACTORS EXPENSE.
5. CONTRACTOR TO NOTIFY THE HOWARD COUNTY INSPECTION AND SURVEY DIVISION AT LEAST 3 DAYS BEFORE STARTING WORK SHOWN ON THESE DRAWINGS @ TELEPHONE 792-7272.
6. APPROXIMATE LOCATION OF EXISTING UTILITIES ARE SHOWN FOR THE CONTRACTORS INFORMATION, CONTRACTOR SHALL LOCATE EXISTING UTILITIES WELL IN ADVANCE OF CONSTRUCTION ACTIVITIES AND TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES AND TO MAINTAIN UNINTERRUPTED SERVICE.

**BENCH MARKS**

STA. DESIG=2244005 ELEV. 217.57  
COORD: N485175.968 E 859.142.539  
DESCRIPTION: CONCR. MON. 2' BELOW SURFACE

STA. DESIG=2143002 ELEV. 243.15  
DESCRIPTION: CONCR. MON. 2' BELOW SURFACE  
1155' S. SIDE HICKS ROAD,  
10' S. FROM EDGE OF ROAD SURFACE

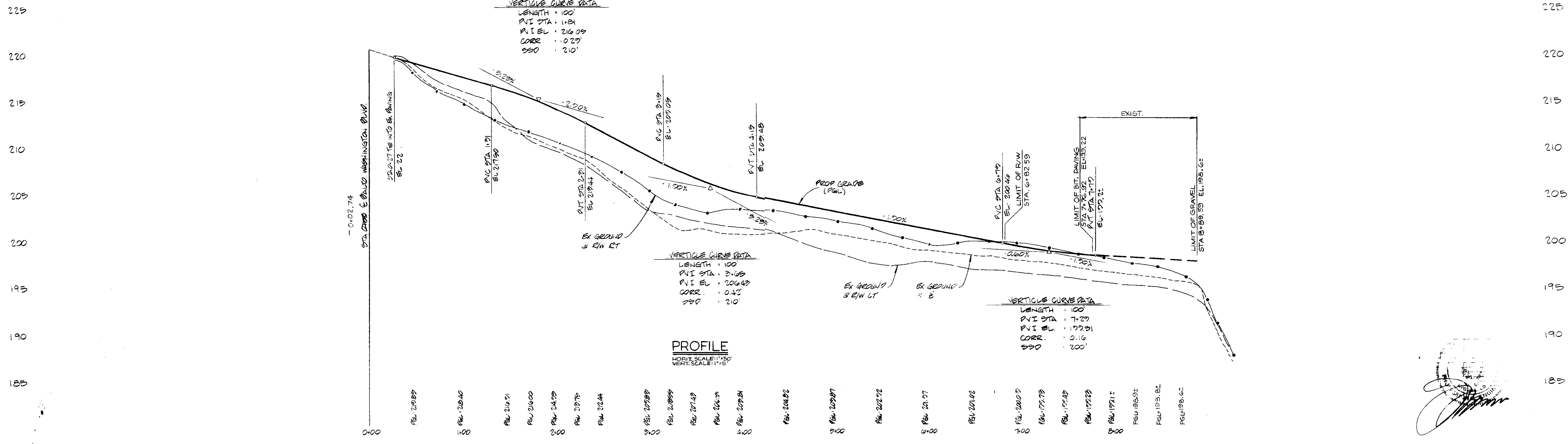
**PLAN**  
SCALE: 1"=50'

**VERTICAL CURVE DATA**  
LENGTH: 100'  
PVI STA: 1+21  
PVI EL: 216.09  
CORR: -0.27'  
SSD: 210'

**VERTICAL CURVE DATA**  
LENGTH: 100'  
PVI STA: 2+05  
PVI EL: 206.43  
CORR: -0.42'  
SSD: 210'

**VERTICAL CURVE DATA**  
LENGTH: 100'  
PVI STA: 7+23  
PVI EL: 192.91  
CORR: -0.16'  
SSD: 200'

**PROFILE**  
HORIZ. SCALE: 1"=50'  
VERT. SCALE: 1"=5'



*Granville W. McKeand* 8/9/89 *James R. Kelly* 8-8-89

**PRIVATE ROAD  
PLAN & PROFILE**

CHERRY HILL SAND & GRAVEL  
6TH ELECTION DISTRICT

HOWARD CO. MD.  
JANUARY, 1989

PIPE NO.	PIPE SIZE	EXISTING CFS	FACILITY INFLOW CFS	OUTFLOW	INSEL	BY-PASS	TOTAL
1	18" R	21.76	7.19	5.39	193.97	18.26	23.60
10	12" I	53.89	14.81	11.58	195.84	47.09	58.65
100	18" I	90.48	23.26	23.26	196.56	77.20	100.96

**NOTES:**  
 THIS FACILITY IS PRIVATE AND IS THE SOLE RESPONSIBILITY OF THE OWNER.  
 THIS FACILITY MUST BE PERIODICALLY INSPECTED EVERY SIX MONTHS AND AFTER EACH MAJOR STORM EVENT TO INSURE THAT IT IS IN AN OPERATIONAL CONDITION.

**STRUCTURAL BACKFILL** - Backfill shall be of the type and quality conforming to that specified for the adjoining material. The fill shall be placed in horizontal layers not to exceed four inches in thickness and compacted by hand tampers or other compaction equipment. The material needs to fill completely all spaces under and adjacent to the pipe. At no time during the backfilling operation shall driver 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.

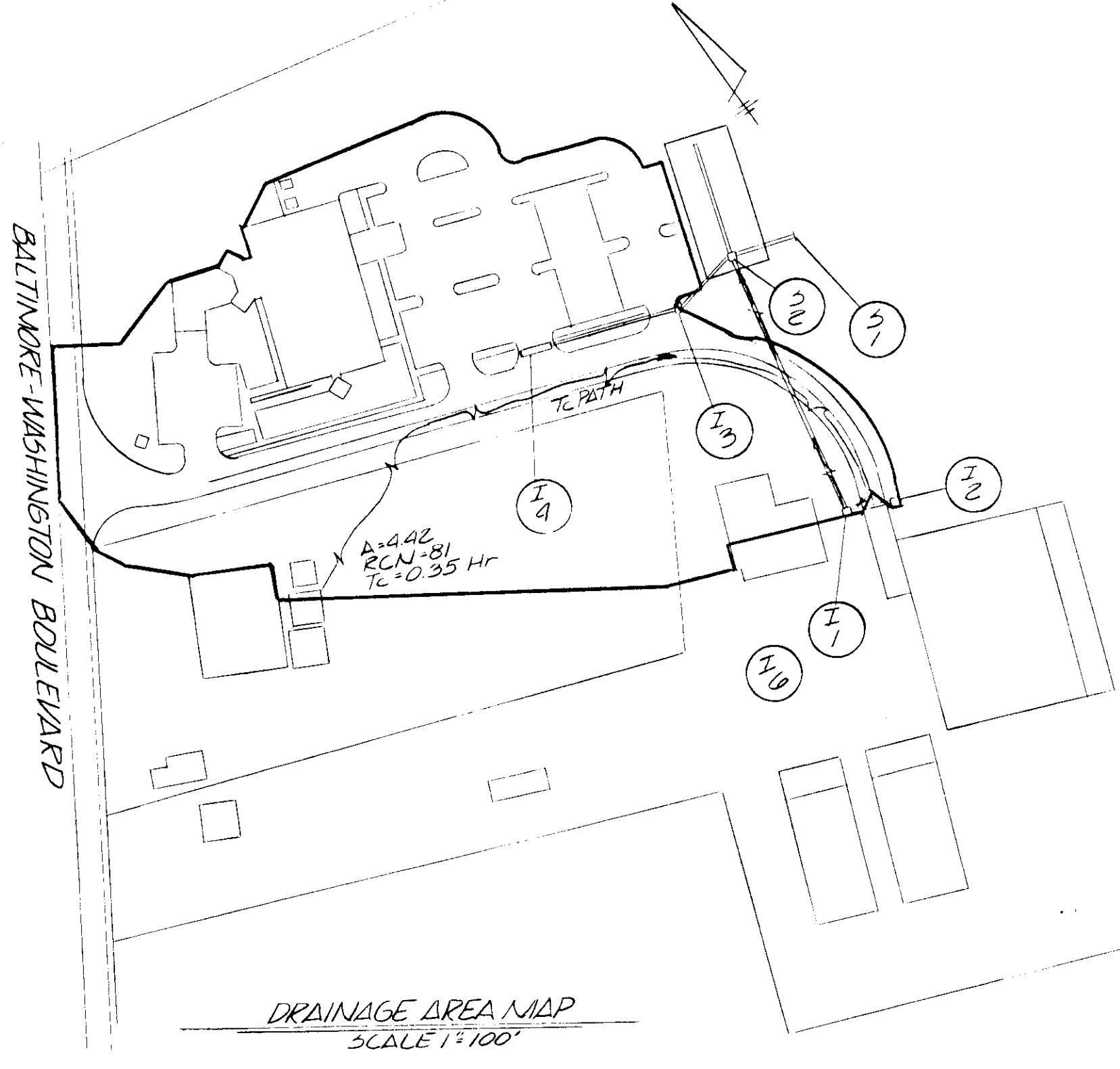
**OBSERVATION WELL** - An observation well shall be constructed for each facility where indicated on the drawing. The depth of the well at the time of installation shall be marked on the cap.

**STABILIZATION** - All borrow areas shall be graded to provide proper drainage and left in a slightly condition. All disturbed areas shall be stabilized by seeding, liming, fertilizing and mulching (if required) in accordance with the 1984 Maryland Standards and Specifications for Soil Erosion and Sediment Control, Section 53, Permanent Seeding.

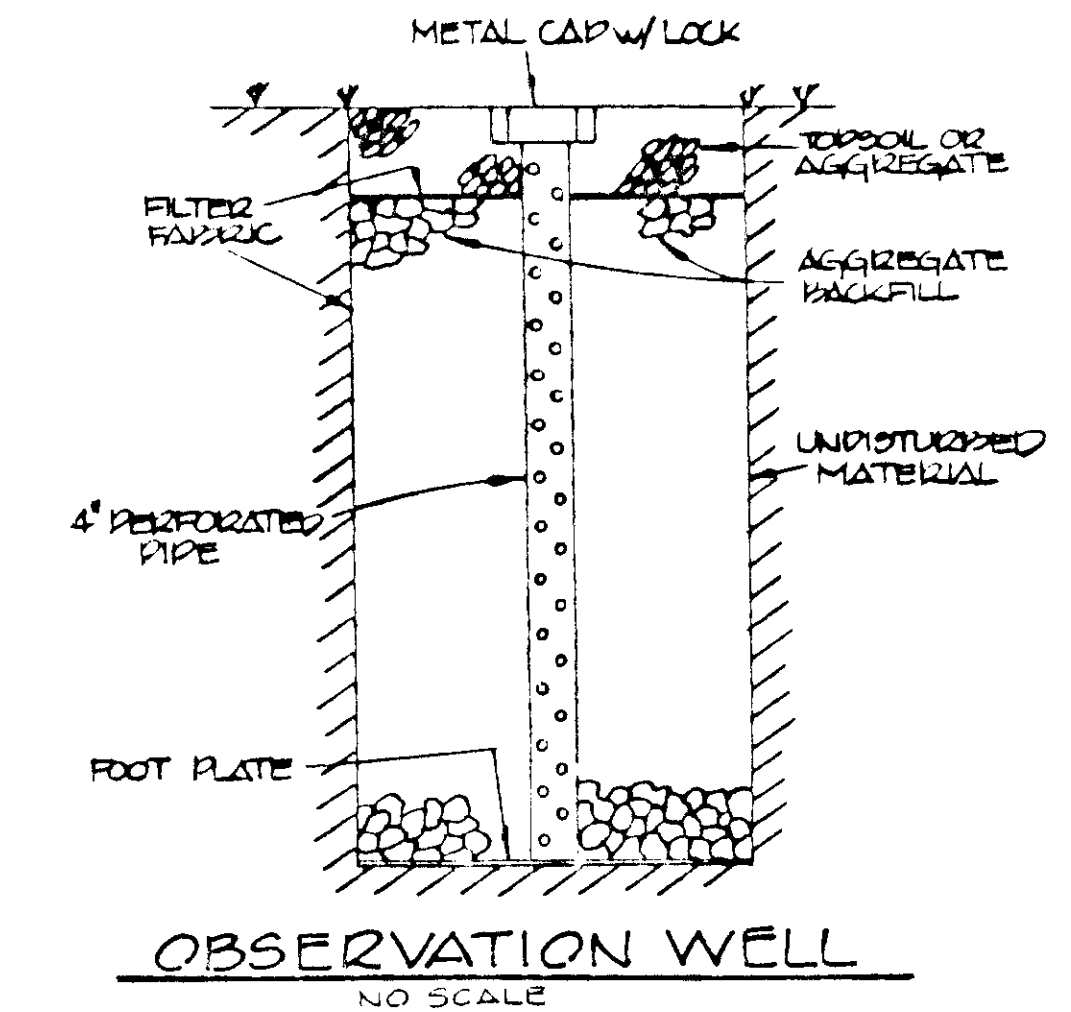
**EROSION AND SEDIMENT CONTROL** - Construction operations will be carried out in such a manner that erosion will be controlled and water and air pollution minimized. State and local laws concerning pollution abatement will be followed. Construction plans shall detail erosion and sediment control measures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

**STORMWATER MANAGEMENT FACILITIES CONSTRUCTION SPECIFICATIONS**

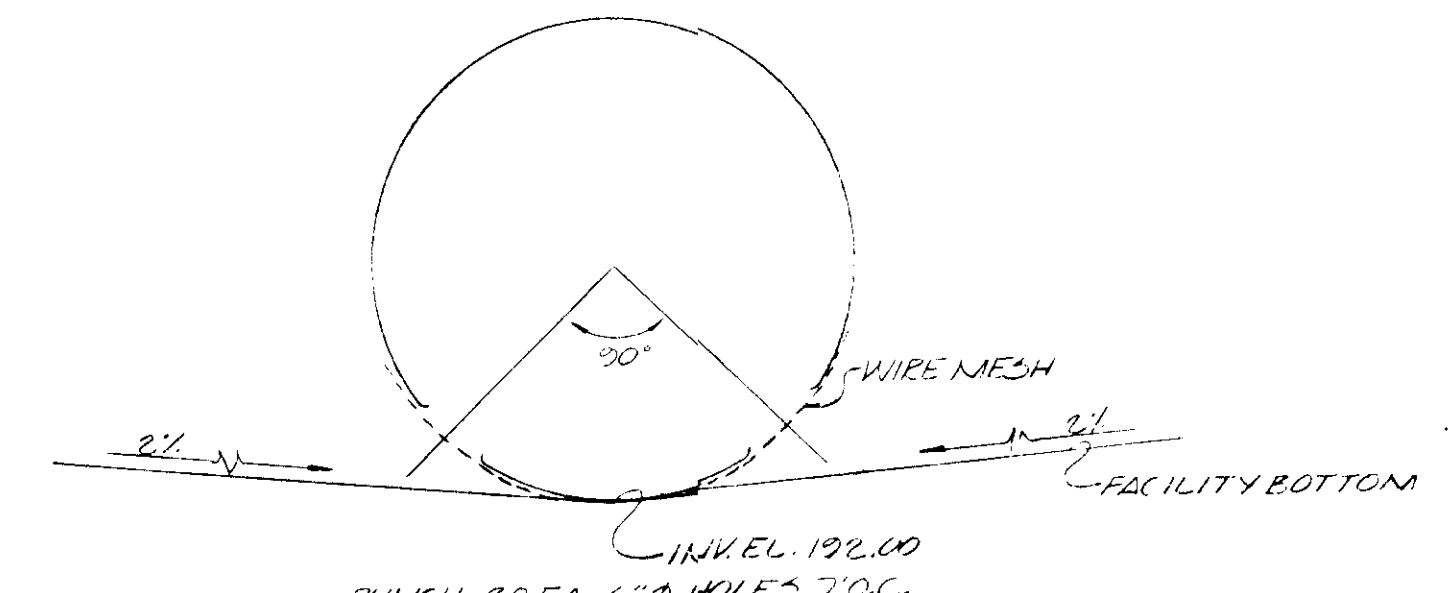
- EXERCISE PRECAUTIONS AND DETAILS** - Stormwater management facilities shall be constructed in accordance with the Howard County Department of Public Works Standards Specifications and Details for Construction unless otherwise indicated.
- INSPECTION BY DESIGNATED ENGINEER** - The construction of all stormwater management facilities shall be under the supervision of a registered Professional Engineer. The Engineer must certify that the facilities have been built in accordance with the plans and submit written certification immediately following the completion of the project.
- TRICKING** - Runoff shall not be discharged to underground SWM facilities until all upstream drainage areas have been stabilized. Discharge pipes from the control structure to the stone storage bed shall be plugged until all areas are stabilized.
- EROSION CONTROL FACILITIES** - All disturbed areas shall be controlled by erosion and sediment control devices in accordance with a plan approved by HCSOCD.
- CARE OF WATER DURING CONSTRUCTION** - All work shall be controlled by erosion and sediment control devices. The Contractor shall construct and maintain all temporary ditches, berms, and drainage structures necessary to protect the work areas and shall install, operate and maintain all necessary pumps and other equipment required for removal of water from excavation pits or the work. After having served their purpose, all temporary facilities and equipment shall be removed.
- MATERIALS**
  - CONCRETE** - Concrete shall be Mix No. 3 Concrete. Reinforcing steel shall be ASTM A-615, Grade 60.
  - CORROSION RESISTANT STEEL PIPE** - Pipe shall be fully galvanized and fully bituminous coated and shall conform to ASTM A-196, Type A. The clear area of each perforation in perforated pipe after the application of the bituminous coating shall be at least 75 per cent of the clear area before coating. Pipe shall be supplied with watertight connecting bands.
  - STONE FILL** - Stone shall be #42 CRUSHED STONE.
  - FILTER FABRIC** - Filter fabric shall be Mirafil 1000 or equivalent.
  - BACKFILL MATERIAL** - Fill shall be free of roots, stumps, wood, rubbish, oversize stones, frozen or other objectional materials, and shall meet the requirements for subgrade materials.
- INSTALLATION**
  - SITE PREPARATION** - Areas designated for borrow areas, embankment, and structural works shall be cleared, grubbed and stippled 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.
  - All cleared and grubbed material shall be disposed of outside the limits of the property 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 designated areas.
  - EXCAVATION** - Prepare excavations to design dimensions. Excavated materials shall be placed away from the excavated sides to enhance wall stability. Large tree roots shall be trimmed flush with the sides to prevent fabric tearing or puncturing during subsequent installation procedures. The sides walls of excavations which have been sheared and sealed by excavating equipment shall be roughened before fabric is placed.
  - FABRIC LAYDOWN** - The filter fabric roll shall be cut to the proper width prior to installation. Fabric shall be placed to completely line the trench and to conform to any irregularities in the excavation. Fabric shall be anchored with metal staples or other approved methods. Where overlaps between two rolls are required, the upstream roll shall lay a minimum of 2 feet over the downstream roll in order to provide a shingle effect. Overlaps on the top of trenches and beds shall be a minimum of 6 inches.
  - STONE PLACEMENT** - Stone shall be placed with care to avoid tearing or displacing filter fabric. Stone fill shall be placed in lifts. Maximum loose lift thickness shall be 12 inches.
  - CONTAMINATION** - Care shall be exercised to prevent natural or fill soils from intermixing with the stone fill. All contaminated stone fill shall be removed and replaced with uncontaminated stone.
  - BACKFILL** - After stone fill has been placed, the top of the stone storage bed shall be covered with filter cloth. Backfill shall be placed in lifts with a maximum thickness of 6-inches and thoroughly compacted using hand operated vibratory tamper or other approved equipment to 95 percent of ASTM D-99 maximum density. Backfill materials shall meet the specifications for pavement subgrade.



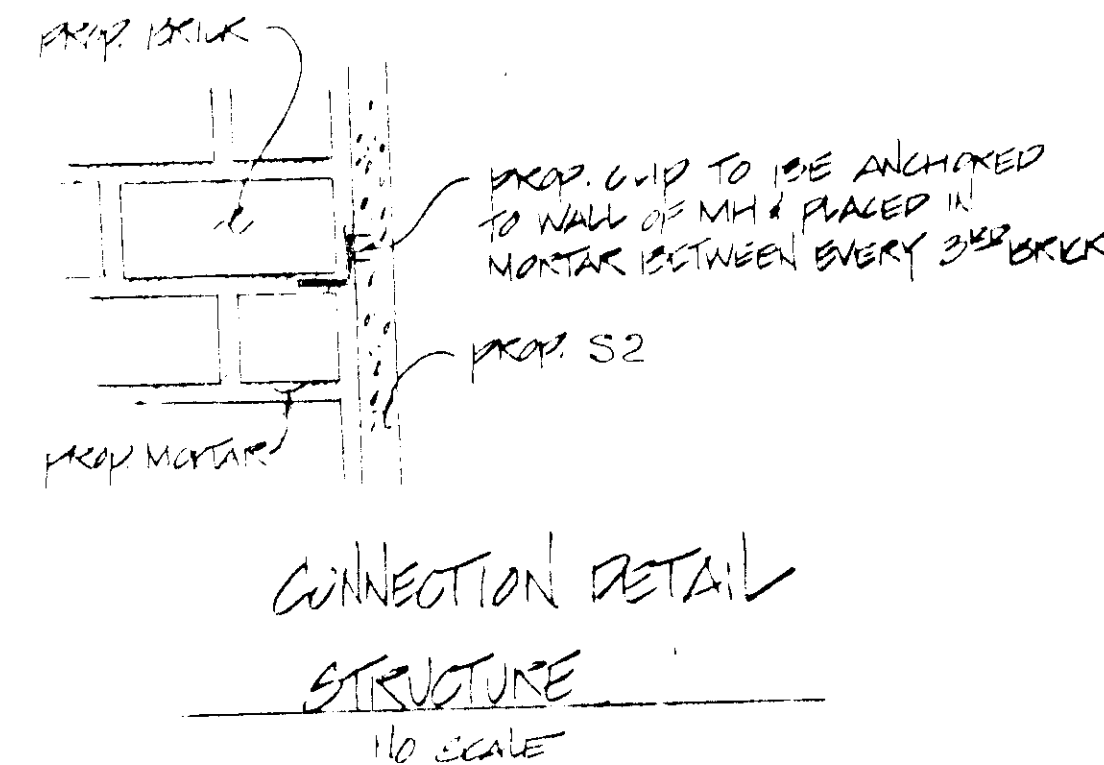
Drainage Area Map  
 SCALE 1" = 100'



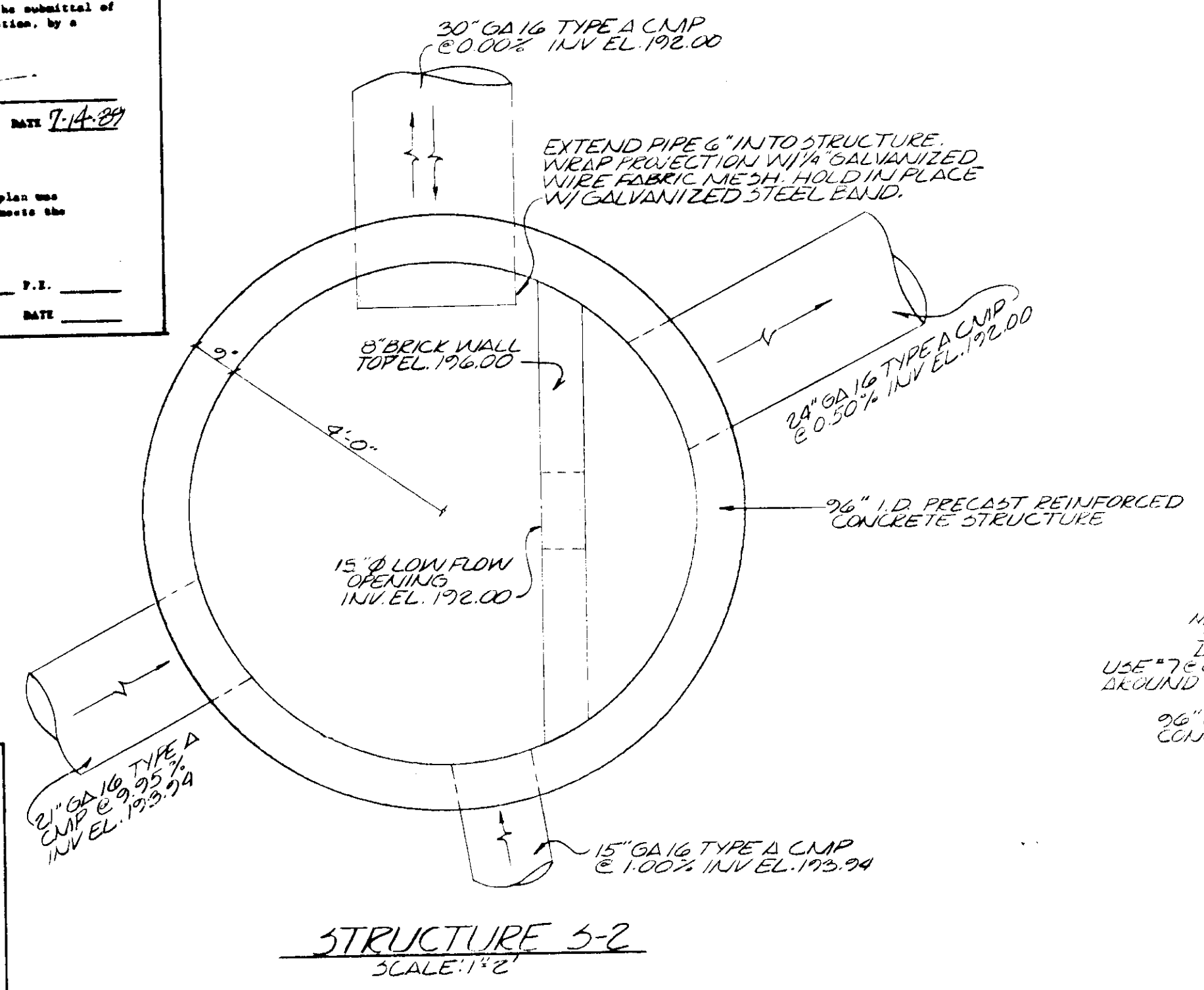
OBSERVATION WELL  
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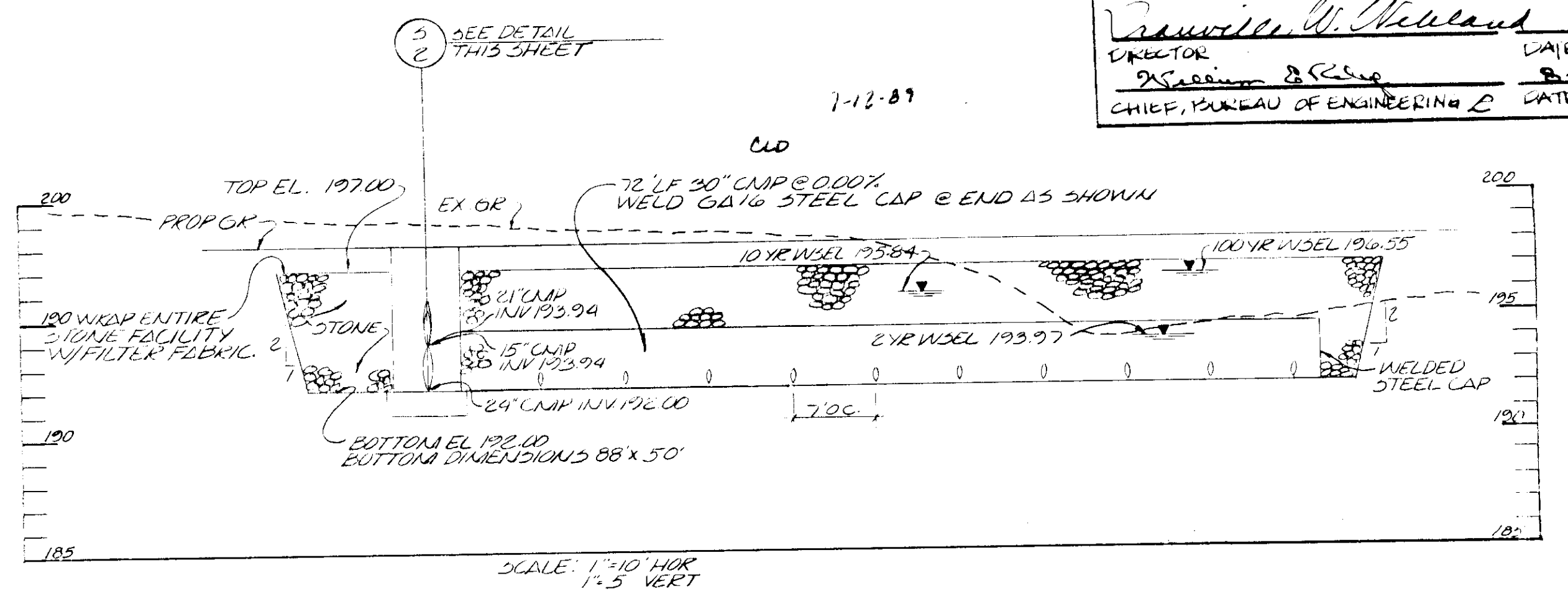
30" CMP PIPE DETAIL  
 SCALE 1" = 1'-0"



CONNECTION DETAIL  
 STRUCTURE  
 NO SCALE



STRUCTURE 3-2  
 SCALE 1" = 1'-2"



STORMWATER MANAGEMENT DETAILS

**ENGINEER'S CERTIFICATION**  
 I hereby certify that this plan has been prepared by me or under my supervision and meets the minimum standards of the Howard County Department of Public Works and the Howard County Soil Conservation District.

SIGNED: [Signature] P.E. #6779  
 DATE: 7/14/89

**DEVELOPER/LANDOWNER'S CERTIFICATION**  
 I/We hereby certify that all proposed work shown on these construction drawings and on the approved sediment control drawings will be accomplished pursuant to these plans. I/We also understand that it is my/our responsibility to have the construction supervised and certified, including the submission of "As-Built" plans within thirty (30) days of completion, by a registered Professional Engineer.

SIGNED: [Signature] P.E. # [Blank]  
 DATE: [Blank]

**"AS-BUILT" CERTIFICATION**  
 I hereby certify that the facility shown on this plan was constructed as shown on the "As-Built" plans and meets the approved plans and specifications.

SIGNED: [Signature] P.E. # [Blank]  
 DATE: [Blank]

APPROVED FOR PUBLIC WATER AND PRIVATE SEWERAGE SYSTEM HOWARD COUNTY HEALTH DEPARTMENT

COUNTY HEALTH OFFICER: [Signature] DATE: 8/11/89

APPROVED: HOWARD COUNTY DEPT. OF PLANNING AND ZONING  
 [Signature] DATE: 8/17/89

CHIEF DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT  
 [Signature] DATE: 8/15/89

APPROVED: HOWARD COUNTY DEPT. OF PUBLIC WATER, PRIVATE SEWERAGE AND STORM DRAIN SYSTEMS AND FLOOD CONTROL  
 [Signature] DATE: 8/9/89

DIRECTOR: [Signature] DATE: 8/2/89  
 CHIEF, BUREAU OF ENGINEERING & DATE: [Blank]

DATE	REVISIONS
7/14/89	KLW
	RMB
	RMB
	TAC

**DEVELOPMENT ENGINEERING CONSULTANTS, INC.**  
 SITE ENGINEERS & SURVEYORS  
 6603 YORK ROAD BALTIMORE, MARYLAND 21212 (301) 377-2607

**OWNER/DEVELOPER**  
 CHERRY HILL CONSTRUCTION INC.  
 8170 MISSION ROAD, JESSUP, MARYLAND 20794 (301) 953-2700

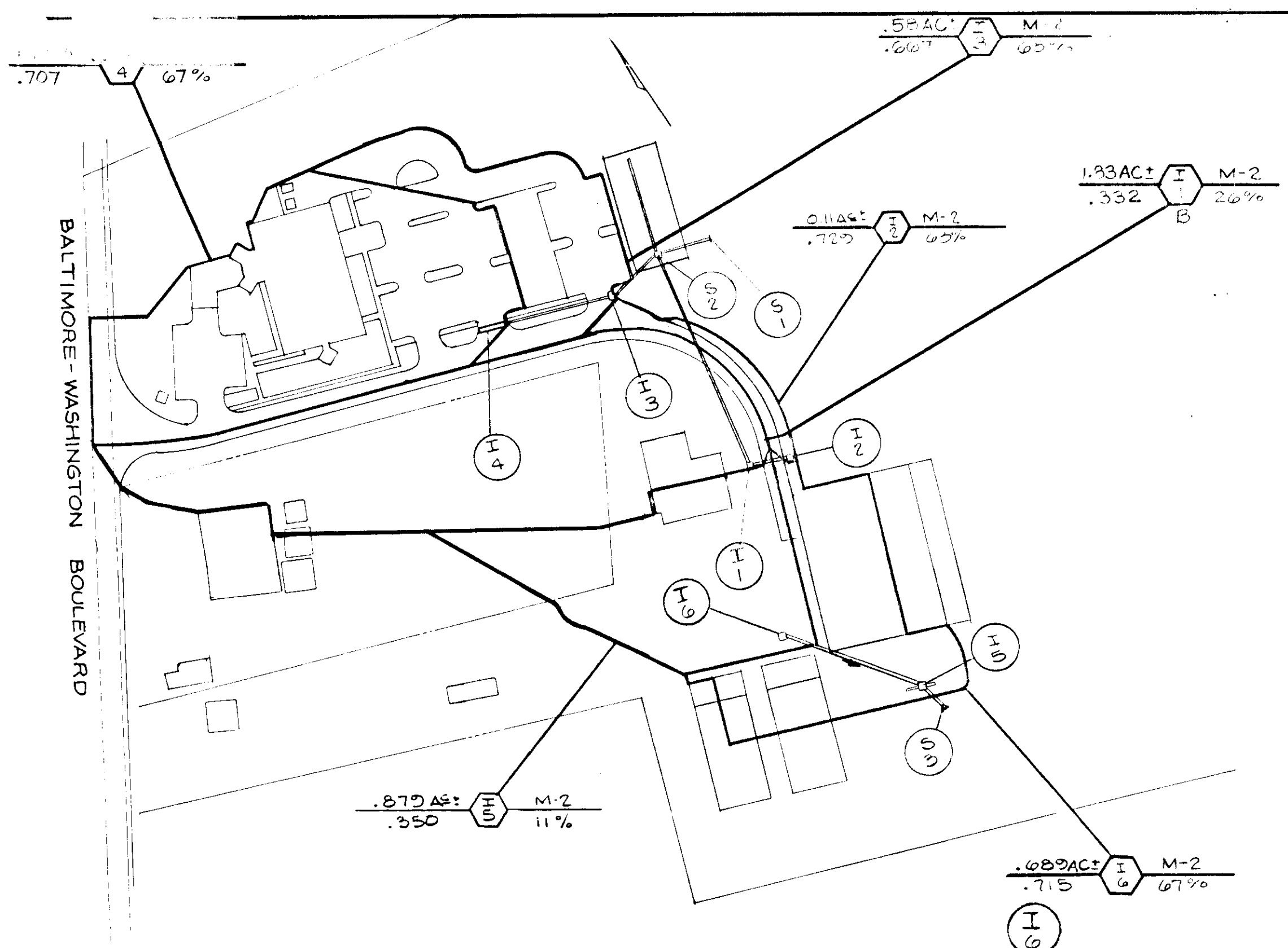
**ELECTION DISTRICT**  
 GUILFORD - NO. 6  
 HOWARD COUNTY, MARYLAND

**CHERRY HILL CONSTRUCTION, INC.**  
 TAX MAP 93 DEED #434/571, 462/182 PARCELS 226/569

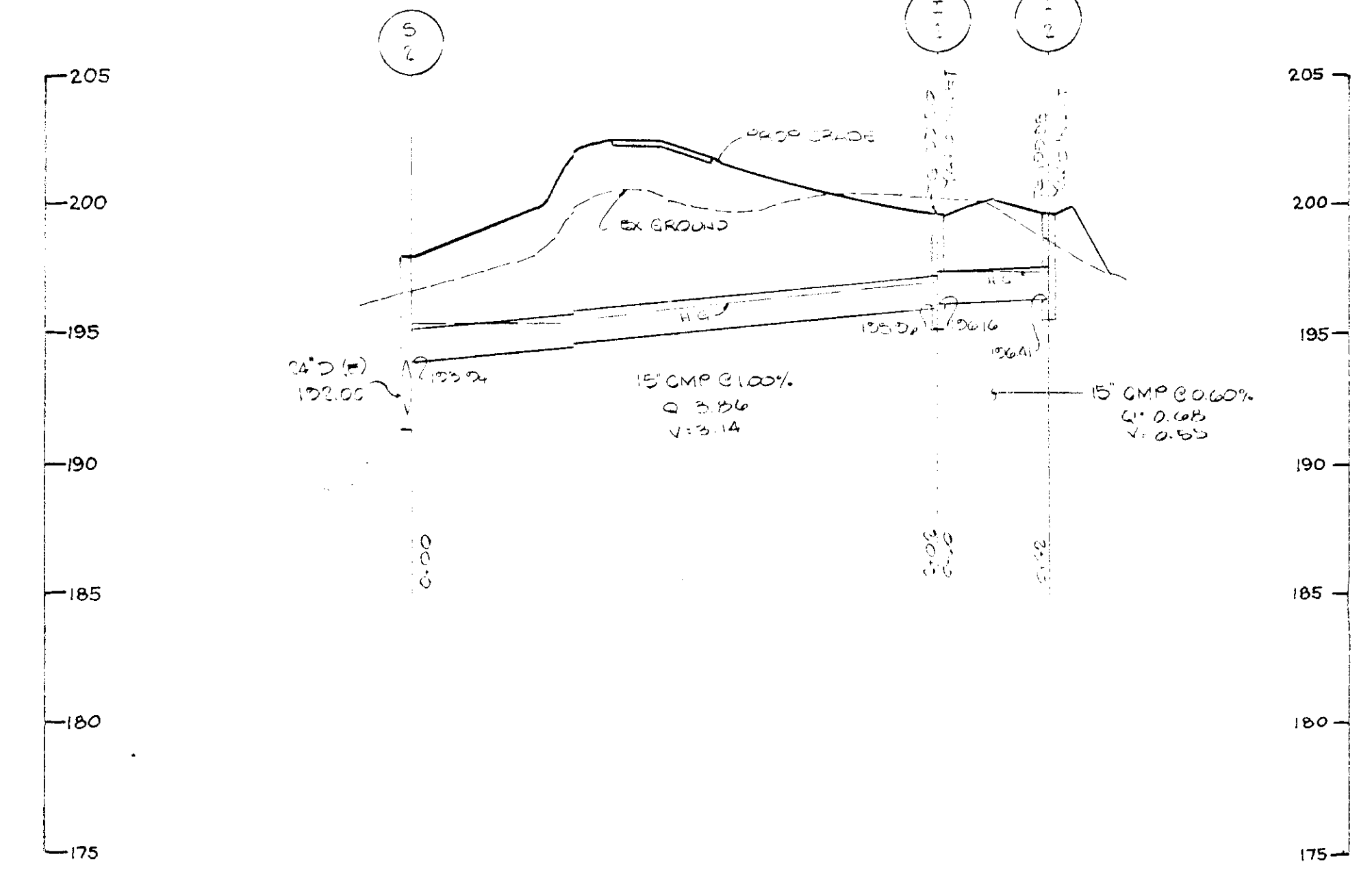
SHEET	DATE	CONTRACT NUMBER
3	7-10-89	
OF 3	SCALE	
	AS SHOWN	87-182

SDP-89-183

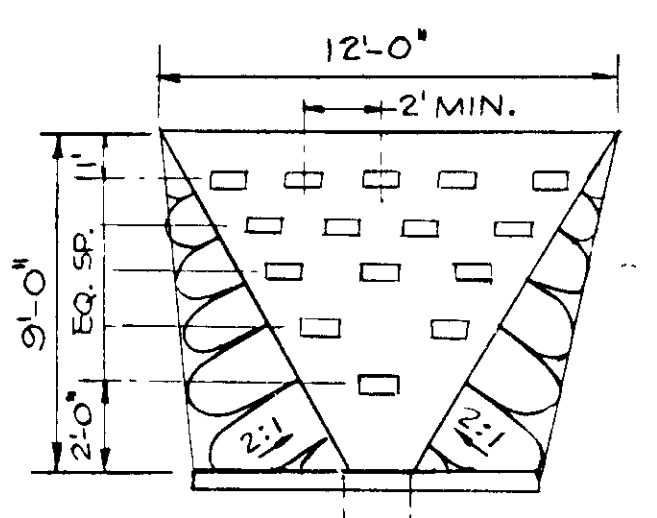




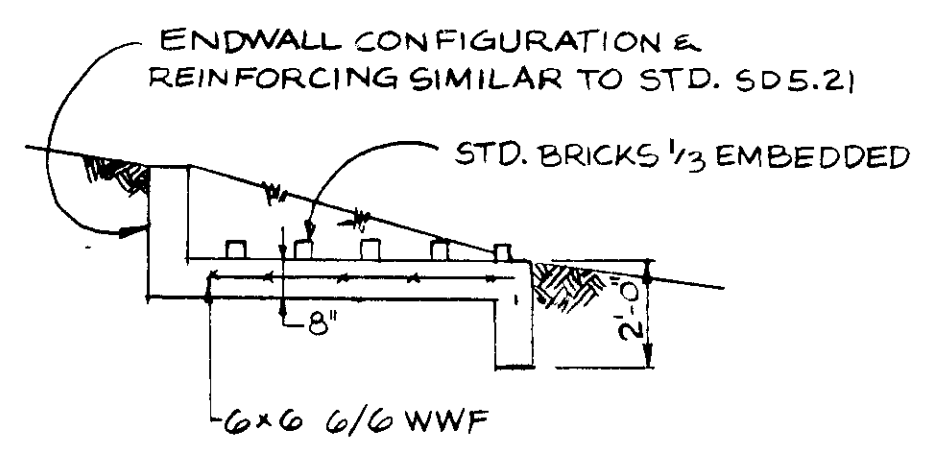
**DRAINAGE AREA MAP**  
SCALE: 1"=100'



**PROFILE**  
VERT. SCALE 1"=5'  
HORIZ. SCALE 1"=50'



**PLAN**



**SECTION**

**ENERGY DISSIPATOR DETAIL**  
NO SCALE

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEM HOWARD COUNTY DEPT. OF PLANNING AND ZONING

*[Signature]* 8-15-89  
DATE

APPROVED: HOWARD COUNTY DEPT. OF PLANNING AND ZONING

*[Signature]* 8/17/89  
DATE

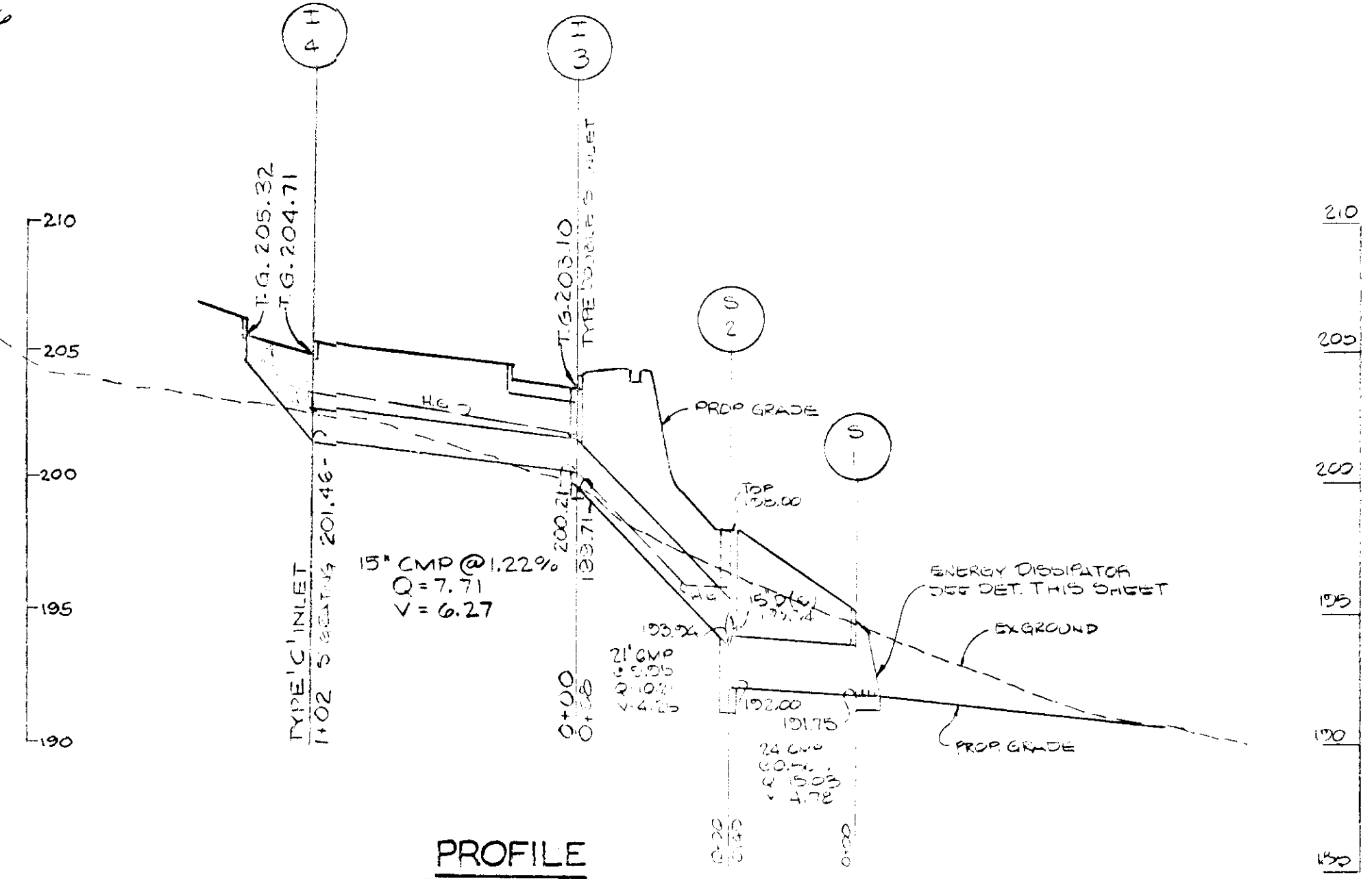
APPROVED: DIVISION OF COMUNITY PLANNING AND LAND DEVELOPMENT

*[Signature]* 8/15/89  
DATE

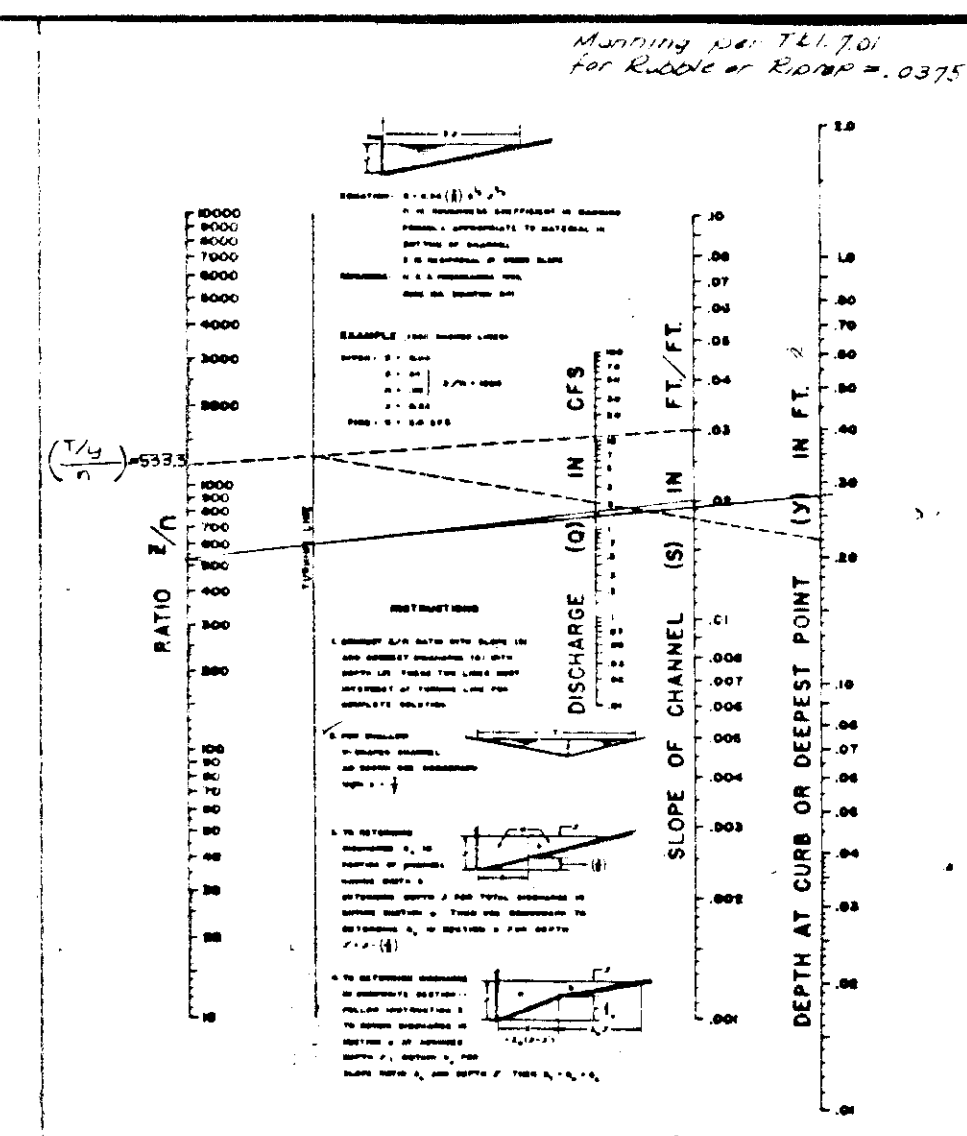
APPROVED: FOR PUBLIC WATER, PRIVATE SEWERAGE AND STORM DRAIN SYSTEMS AND PRIVATE ROADS

*[Signature]* 8/9/89  
DATE

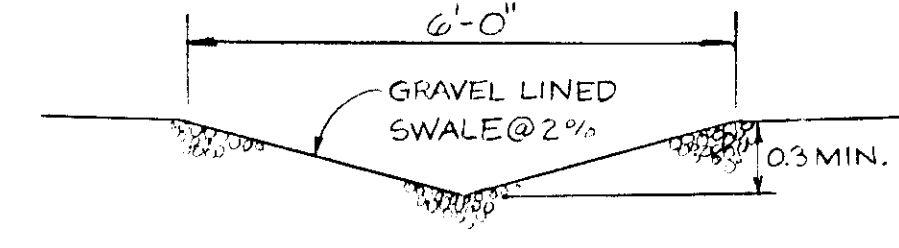
*[Signature]* 8-8-89  
DATE



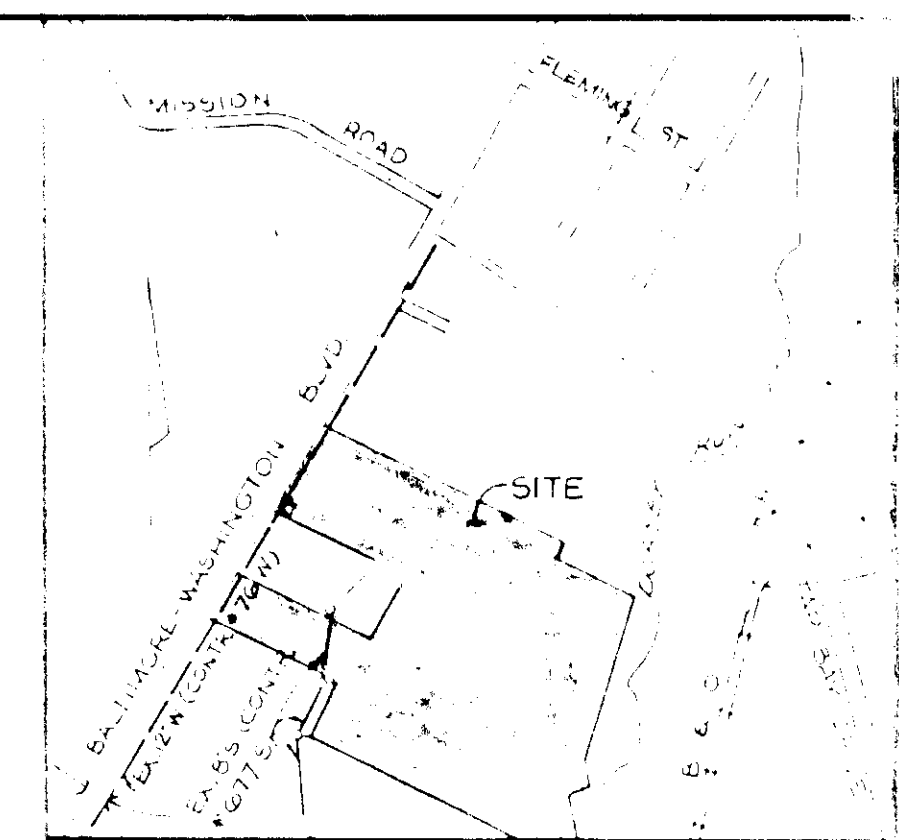
**PROFILE**  
VERT. SCALE 1"=5'  
HORIZ. SCALE 1"=50'



**NOMOGRAPH FOR TRIANGULAR GUTTERS**



**SWALE DETAIL**  
NO SCALE



**VICINITY MAP**  
SCALE: 1"=500'

**GENERAL NOTES**

- PRIOR TO THE START OF ANY CONSTRUCTION THE CONTRACTOR SHALL STAKE OUT ALL BASELINES, BUILDING LOCATIONS AND CURBS, AND VERIFY OFFSETS AND SET BACKS.
- THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT TELEPHONE NO. (301) 599-0100 AT LEAST 72 HOURS PRIOR TO STARTING EXCAVATION TO VERIFY LOCATION OF EXISTING UTILITIES.
- ALL CONSTRUCTION SHALL BE ACCOMPLISHED IN ACCORDANCE WITH HOWARD COUNTY DEPT. OF PUBLIC WORKS STANDARDS, SPECIFICATIONS, AND REQUIREMENTS.
- THE INFORMATION SHOWN ON THESE PLANS IS FOR THE CONVENIENCE OF THOSE CONCERNED ONLY; THE CORRECTNESS OR COMPLETENESS OF THE INFORMATION SHOWN IS NOT WARRANTED OR GUARANTEED. THE CONTRACTOR SHALL VERIFY ALL INFORMATION TO HIS OWN SATISFACTION.
- THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. HE AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.
- ALL DISTURBED AREAS NOT STABILIZED WITH PAVING, BUILDING, SOILING OR MULCH IN PLANTING AREAS, SHALL BE SEED AND MULCHED.

Nº	TYPE	LOCATION	INV. IN.	INV. OUT	TOP SL.	REMARKS
S-1	C ENDWALL	SEE PLAN & PROFILE	191.75	191.75	195.00	SEE DETAIL
S-2	DRY WELLS	"	193.94	192.00	195.00	"
I-1	YARD INLET	"	196.16	195.56	195.50	"
I-2	YARD INLET	"	"	196.41	195.35	"
I-3	YARD INLET	"	200.21	199.71	200.10	"
I-4	G INLET	"	"	201.46	200.57	"
S-3	MANHOLE	"	"	192.00	"	"
I-5	YARD INLET	"	190.00	189.50	190.50	"
I-6	YARD INLET	SEE PLAN & PROFILE	"	194.50	195.00	"

**BENCH MARKS**

STA. DESIG - 2244005 EL. 217.57  
COORD: N485, 175.97 E659, 42.54  
DESCRIPTION: CONC. MON. 0.2' BELOW SURFACE

STA. DESIG - 2143000 EL. 143.15  
DESCRIPTION: CONCRETE MON - 115' SOUTH OF DORSEY BRANCH, 10' FROM EDGE OF ROAD SURFACE.

Drafting	MM	DATE	REVISIONS
Check			
Design	MM		
Check			

**DEVELOPMENT ENGINEERING CONSULTANTS, INC.**  
BALTIMORE SITE ENGINEERS & SURVEYORS MARYLAND

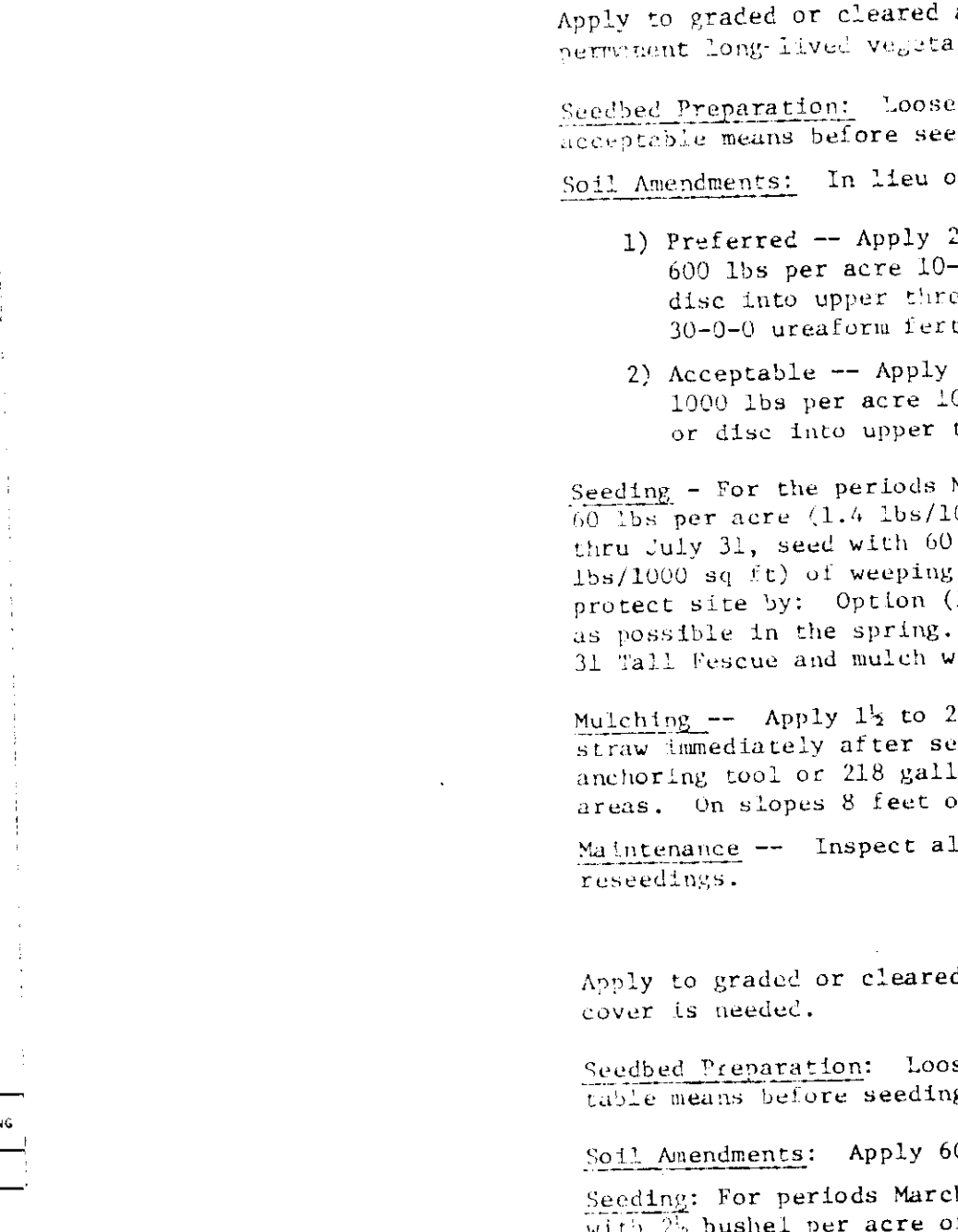
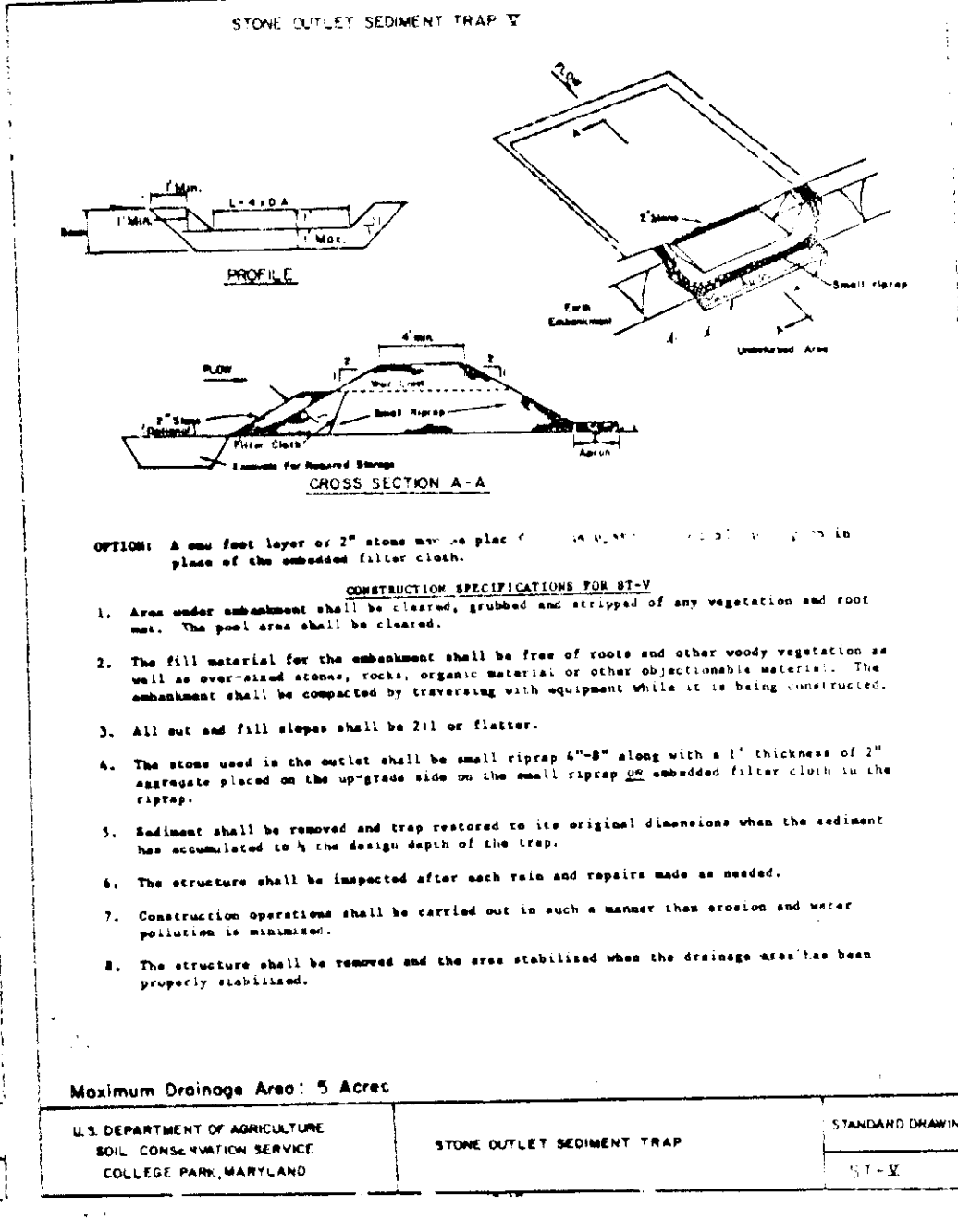
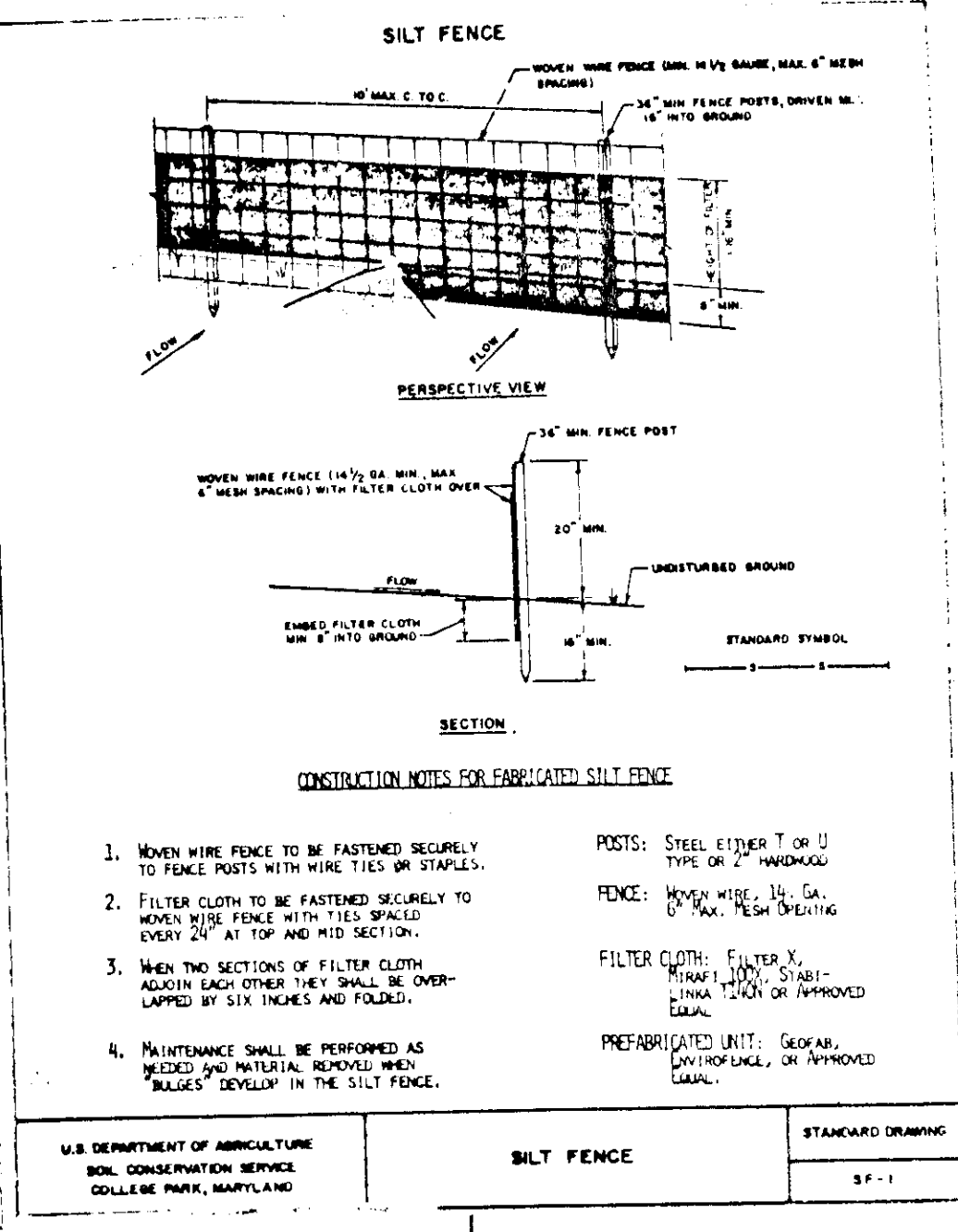
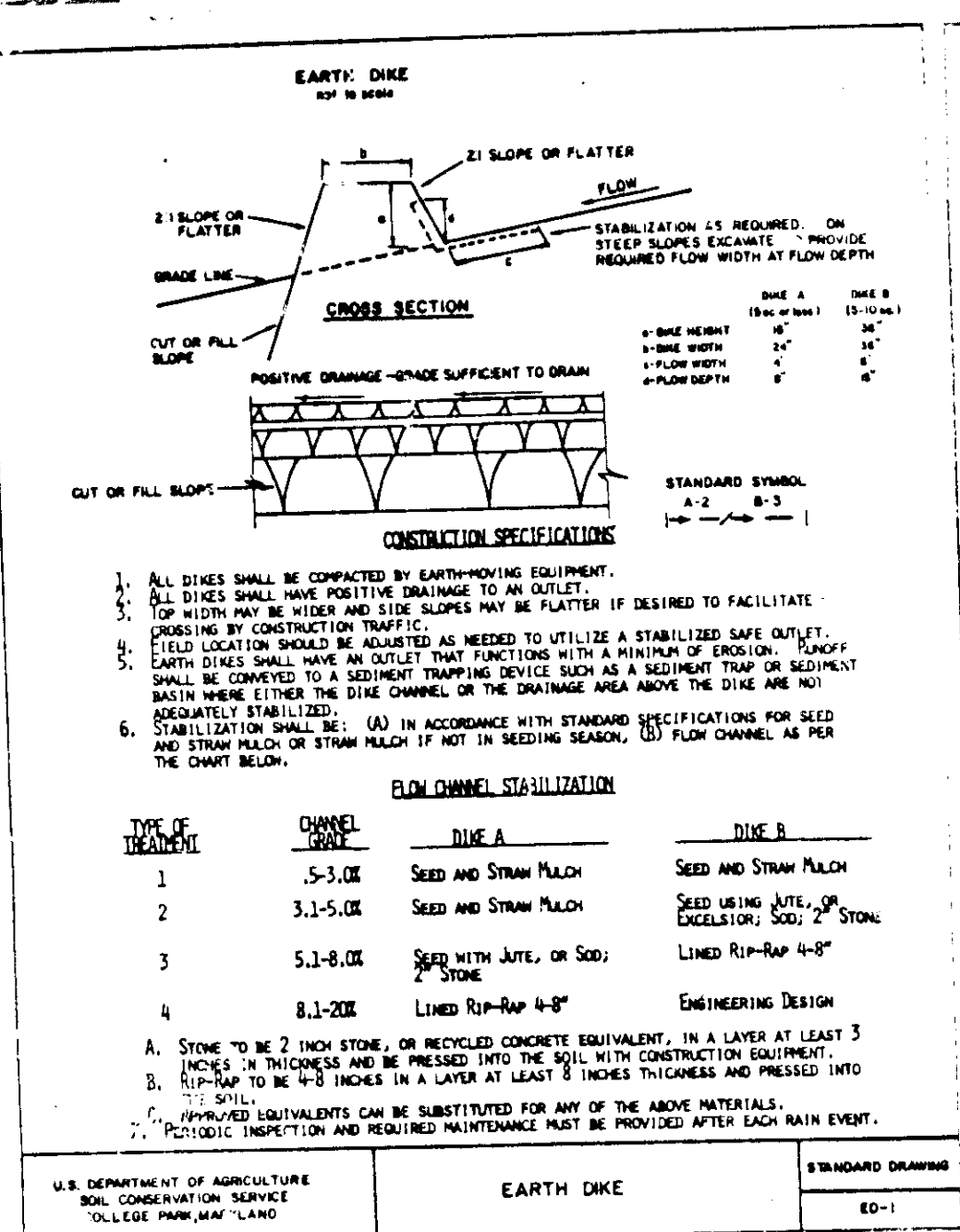
OWNER/DEVELOPER:  
CHERRY HILL CONSTRUCTION INC.  
8170 MISSION RD.  
JESSUP, MD. 20794

CHERRY HILL CONSTRUCTION INC.  
67th ELECTION DISTRICT, HOWARD COUNTY, MARYLAND  
LOT/ PARCEL Nº R 226, 563, 564 TAX MAP 43, ZONED M-2

**STORM DRAIN PROFILES, COMPUTATIONS, D.A. MAP & DETAILS**

SHEET	DATE	CONTRACT
4	JAN. 1989	NUMBER
OF	SCALE	
3	NOTED	87-122





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

**Seedbed Preparation:** Loosen upper three inches of soil by raking, discing or other acceptable means before seeding.

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

- 1) Preferred -- Apply 2 tons per acre dolomitic limestone (92 lbs/1000 sq ft) and 600 lbs per acre 10-10-10 fertilizer (14 lbs/1000 sq ft) before seeding. Harrow or disc into upper three inches of soil. At time of seeding, apply 400 lbs per acre 30-0-0 ureaform fertilizer (9 lbs/1000 sq ft).
- 2) Acceptable -- Apply 2 tons per acre dolomitic limestone (92 lbs/1000 sq ft) and 1000 lbs per acre 10-10-10 fertilizer (23 lbs/1000 sq ft) before seeding. Harrow or disc into upper three inches of soil.

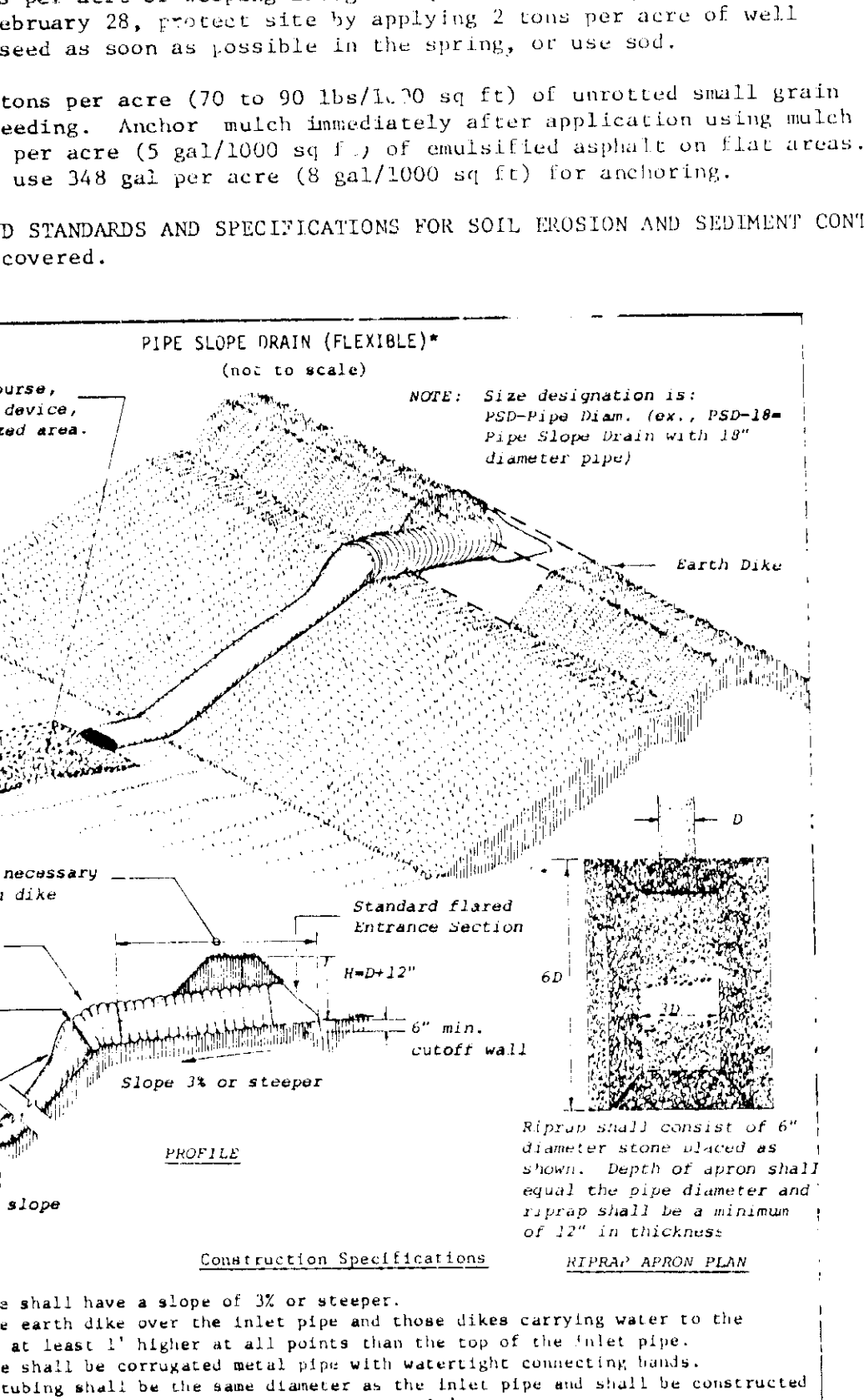
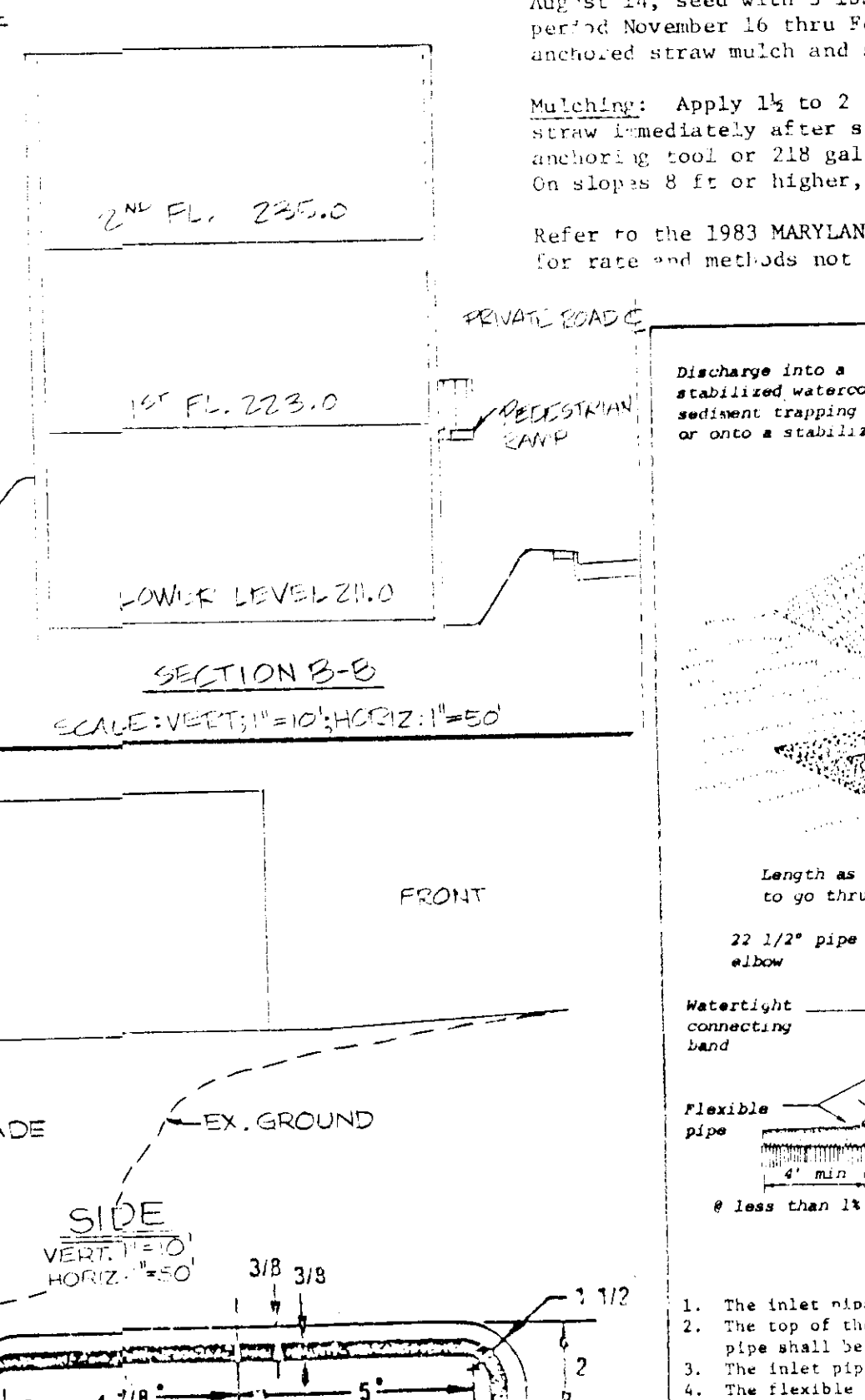
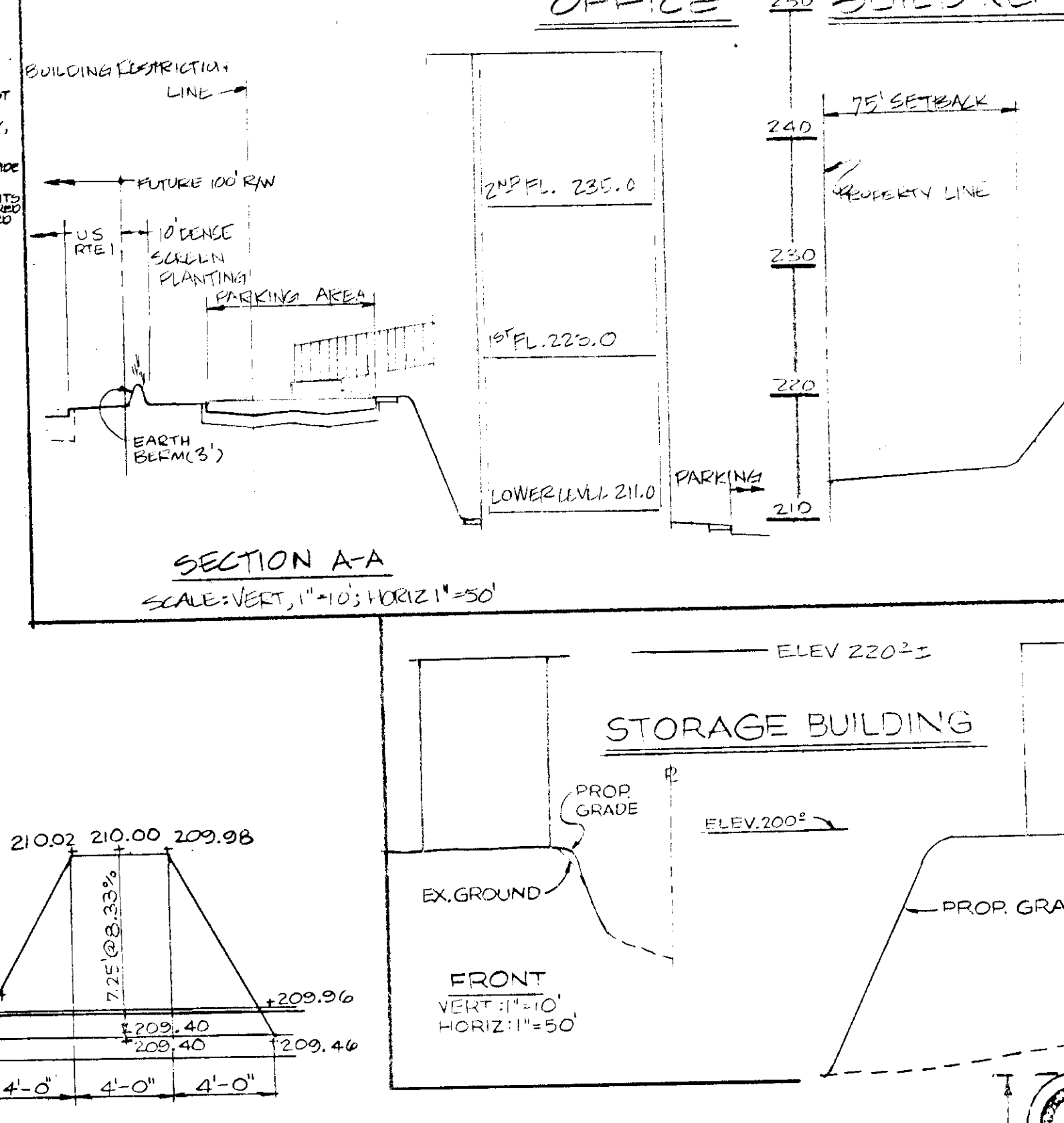
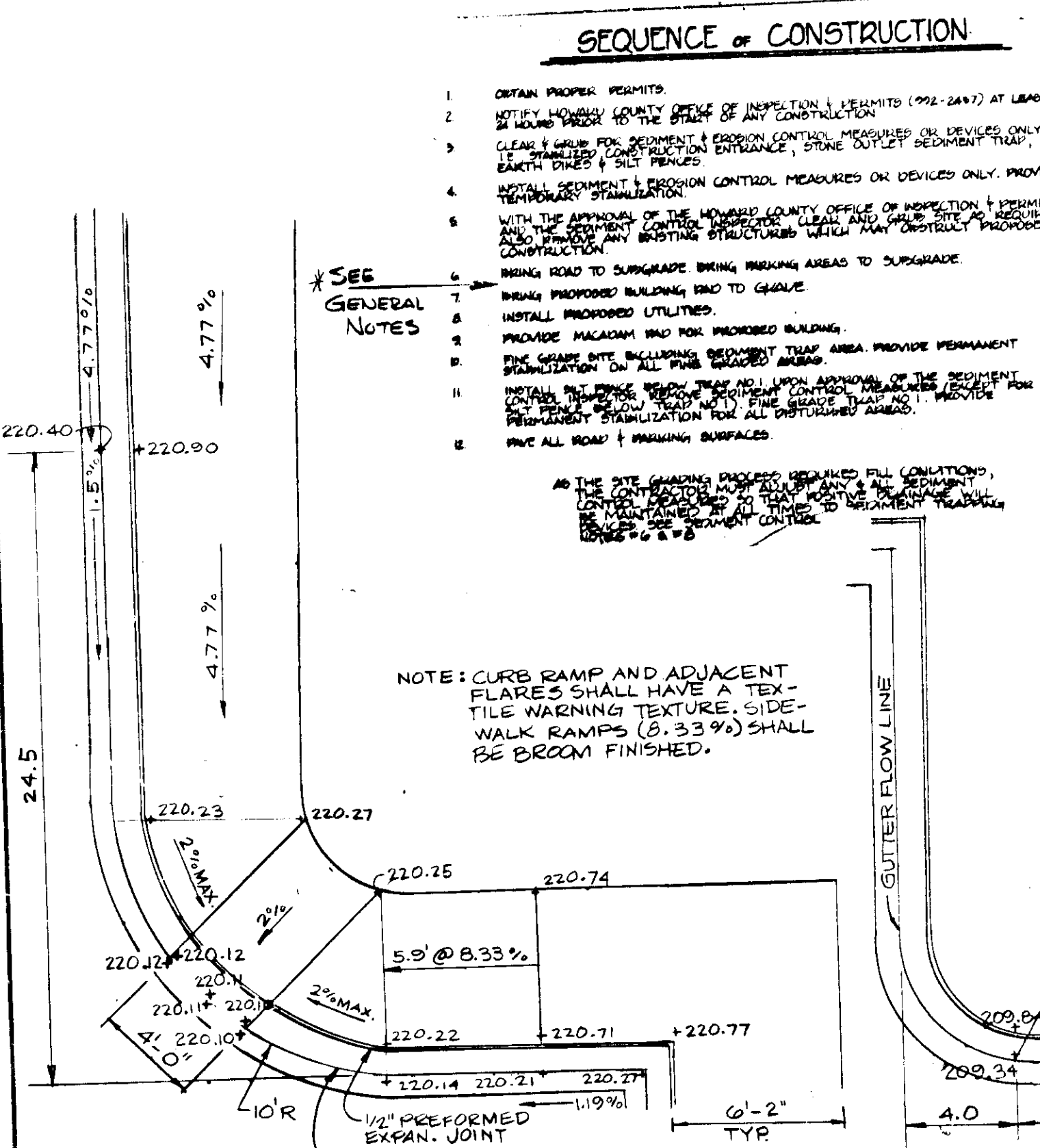
**Seeding:** For the periods March 1 thru April 30, and August 1 thru October 15, seed with 60 lbs per acre (1.4 lbs/1000 sq ft) of Kentucky 31 Tall Fescue. For the period May 1 thru July 31, seed with 60 lbs Kentucky 31 Tall Fescue per acre and 2 lbs per acre (.05 lbs/1000 sq ft) of weeping lovegrass. During the period of October 16 thru February 28, project site by: Option (1) 2 tons per acre of well anchored straw mulch and seed as soon as possible in the spring. Option (2) Use sod. Option (3) Seed with 60 lbs/acre Kentucky 31 Tall Fescue and mulch with 2 tons/acre well anchored straw.

**Mulching:** Apply 1 1/2 to 2 tons per acre (70 to 90 lbs/1000 sq ft) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gallons per acre (5 gal/1000 sq ft) of emulsified asphalt on flat areas. On slopes 8 feet or higher, use 348 gallons per acre (8 gal/1000 sq ft) for anchoring.

**Maintenance:** Inspect all seeded areas and make needed repairs, replacements and reseedings.

- SEEDING NOTES**
- 1) A minimum of 14 hours notice must be given to the Howard County Office of Inspection and Permits prior to the start of any construction. (992-2437)
  - 2) 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.
  - 3) Following initial soil disturbance or redistribution, permanent or temporary stabilization shall be completed within: a) 7 calendar days for all permanent sediment control structures, dikes, perimeter slopes and all slopes greater than 3:1; b) 14 days as to all other disturbed or graded areas on the project site.
  - 4) 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.
  - 5) All disturbed areas must be stabilized within the time period specified above in accordance with the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for permanent seedings (Sec. 51) and (Sec. 54), temporary seedings (Sec. 50) and mulching (Sec. 52). Temporary stabilization with mulch alone can only be done when recommended seeding dates do not allow for proper germination and establishment of grasses.
  - 6) 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.
  - 7) Site Analysis:
 

Total Area of Site	17.22 Acres ±
Area Disturbed	1.12 Acres ±
Area to be roofed or paved	0.12 Acres ±
Area to be vegetatively stabilized	16.00 Acres ±
Total Cut	10,600 Cu. yds ±
Total Fill	2,000 Cu. yds ±
Offsite waste/borrow area location	10.00 ACRES ±
  - 8) Any sediment control practice which is disturbed by grading activity for placement of utilities must be repaired on the same day of disturbance.
  - 9) Additional sediment controls must be provided, if deemed necessary by the Howard County SPM Sediment Control Inspector.
  - 10) 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. Other building or grading inspection approvals may not be authorized until this initial approval by the inspection agency is made.



**TEMPORARY SEEDING NOTES**

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

**Seedbed Preparation:** Loosen upper three inches of soil by raking, discing or other acceptable means before seeding.

**Soil Amendments:** Apply 60 lbs per acre 10-10-10 fertilizer (14 lbs/1000 sq ft).

**Seeding:** For the periods March 1 thru April 30 and from August 15 thru November 15, seed with 75 bushels per acre of annual ryegrass (3.2 lbs/1000 sq ft). For the period May 1 thru August 14, seed with 3 lbs per acre of weeping lovegrass (.07 lbs/1000 sq ft). For the period November 16 thru February 28, project site by applying 2 tons per acre of well anchored straw mulch and seed as soon as possible in the spring, or use sod.

**Mulching:** Apply 1 1/2 to 2 tons per acre (70 to 90 lbs/1000 sq ft) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gallons per acre (5 gal/1000 sq ft) of emulsified asphalt on flat areas. On slopes 8 ft or higher, use 348 gal per acre (8 gal/1000 sq ft) for anchoring.

Refer to the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for rate and methods not covered.

**ADDITIONAL GENERAL NOTES**

- AT THE END OF EACH WORKING DAY, ALL SEDIMENT CONTROL PRACTICES WILL BE INSPECTED AND LEFT IN OPERATIONAL CONDITION.
- EROSION CONTROL WILL BE PROVIDED FOR ALL DISTURBED AREAS REFER TO 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR ACCEPTABLE METHODS & SPECIFICATIONS FOR EROSION CONTROL.
- EXCESS CUT OR BORROW MATERIAL SHALL GO TO OR COME FROM RESPECTIVELY, A SITE WITH AN APPROVED SEDIMENT CONTROL PLAN.
- ANY MANMADE CUTS OR FILLS OF 10 FEET OR MORE SHALL BE DESIGNED AND/OR REINFORCED BY A SOILS ENGINEER.
- FOR DETAIL OF SOLID WASTE SERVICE PAD, SEE HOWARD COUNTY DESIGN MANUAL VOLUME IV, SHT K.11.01.
- PRIOR TO CONSTRUCTING EMBANKMENT FOR STORAGE SHEDS INLETS I-5 & I-6 MUST BE INSTALLED.

**DEVELOPERS CERTIFICATION:**

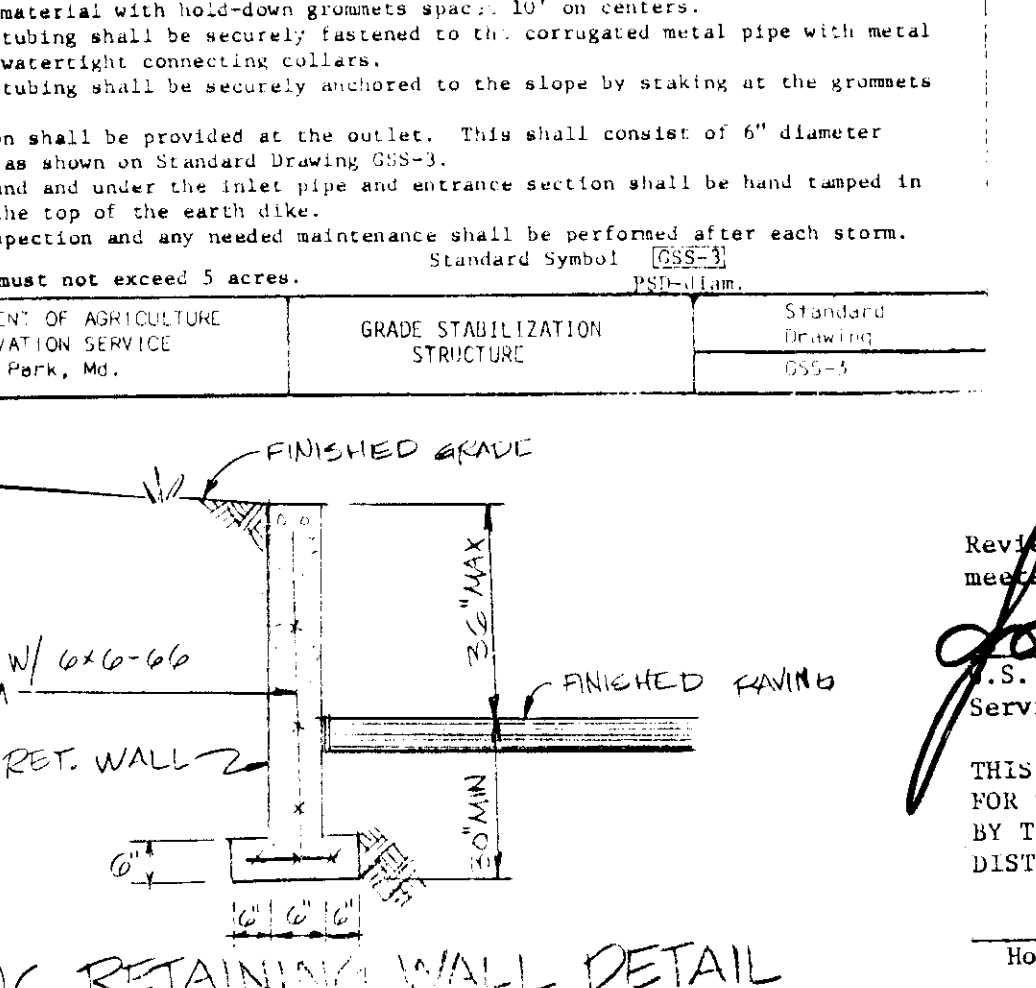
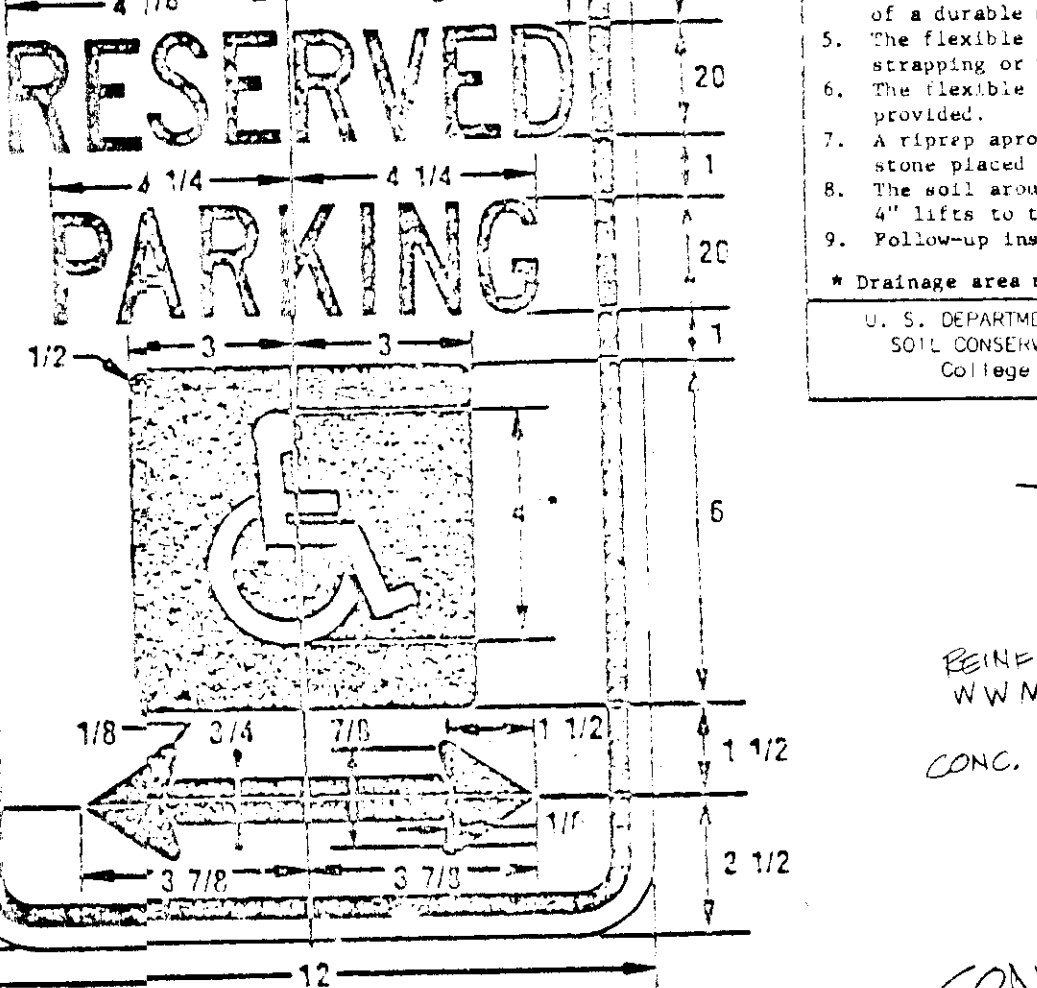
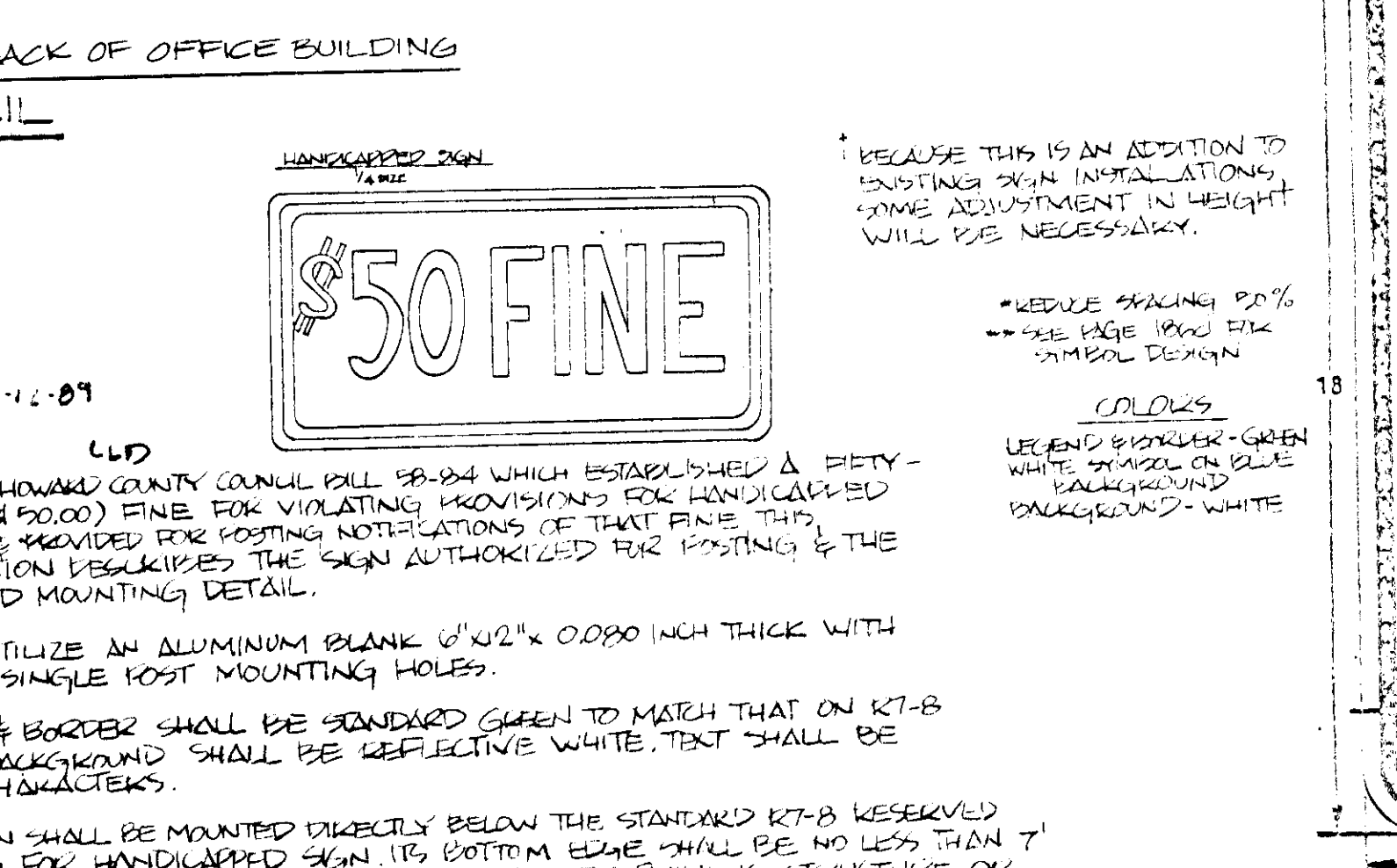
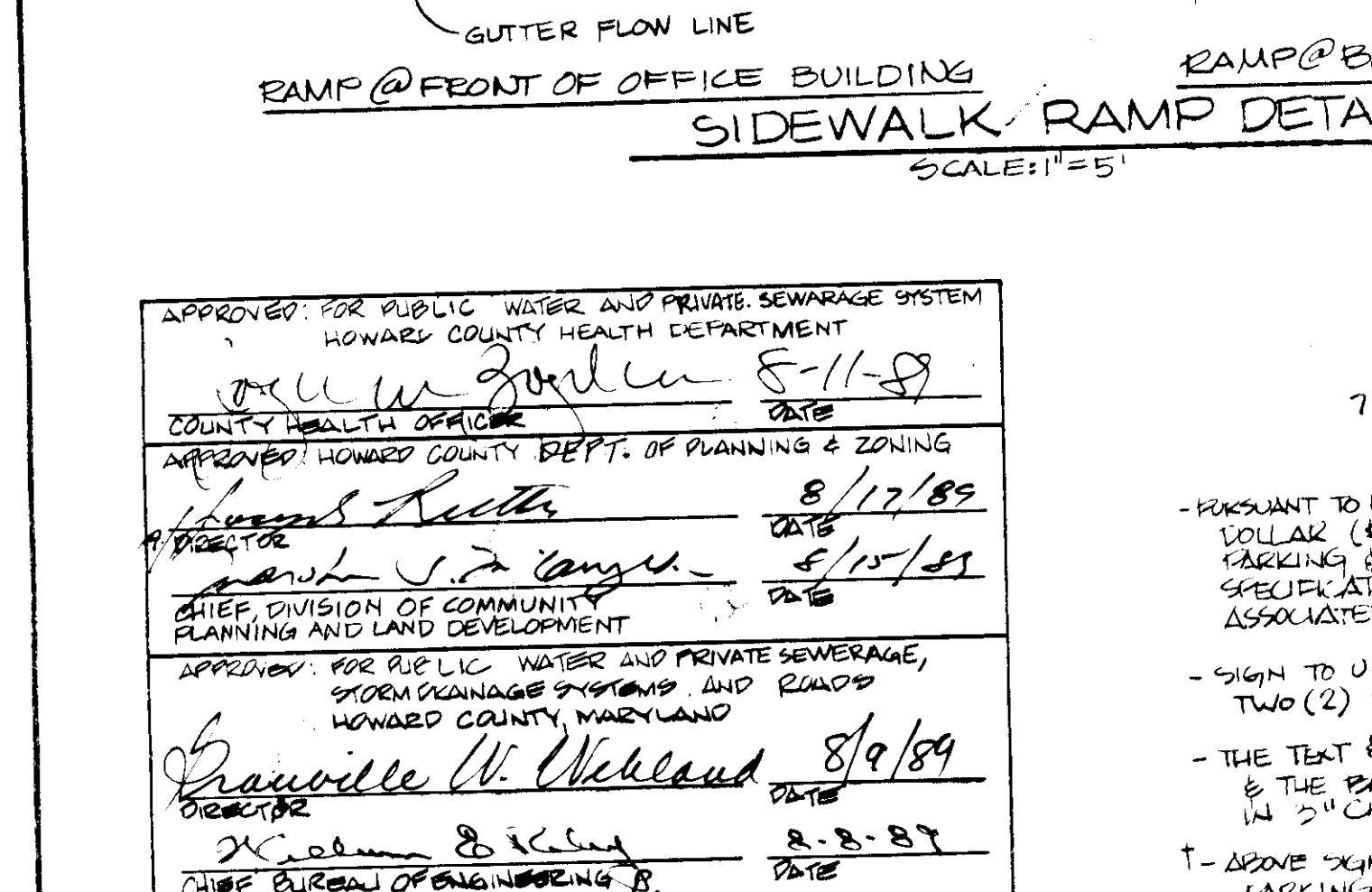
"I/We certify that all development and construction will be done according to this plan, and that any responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of Natural Resources Approved Training Program for the Control of Sediment and Erosion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

Signature of Developer: *David B. Openshaw* Date: 7/1/89

**ENGINEERS CERTIFICATION:**

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

Signature of Engineer: *T.A. Church* Date: 6/17/89



**APPROVED FOR PUBLIC WATER AND PRIVATE SEWERAGE SYSTEM**  
 HOWARD COUNTY HEALTH DEPARTMENT  
 COUNTY HEALTH OFFICER: *John W. Zoules* 8-11-89

**APPROVED HONORED COUNTY DEPT. OF PLANNING & ZONING**  
 CHIEF DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT  
*James S. Zoules* 8/15/89

**APPROVED FOR PUBLIC WATER AND PRIVATE SEWERAGE, STORM DRAINAGE SYSTEMS AND ROADS**  
 HOWARD COUNTY MARYLAND  
*Graville W. McLeod* 8/9/89

**CHIEF BUREAU OF ENGINEERING**  
*John W. Zoules* 8-8-89

**APPROVED FOR HOWARD S.C.D. and meeting Requirements**  
 U.S. Soil Conservation Service  
*John W. Zoules* 7/25/89

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

**DEVELOPMENT ENGINEERING CONSULTANTS, INC.**  
 BALTIMORE SITE ENGINEERS & SURVEYORS MARYLAND  
 6003 YORK RD 21212 (301) 577-2600

**OWNER/DEVELOPER**  
 CHERRY HILL CONST. INC.  
 8170 MISSION ROAD JESSUP, MARYLAND 20794 (301) 253-2700

**ELECTION DISTRICT**  
 GUILFORD - NO. 6 HOWARD COUNTY, MARYLAND

**TAX MAP 43**

**PARCELS 126, 140**

**SDP-89-183**

**REVISIONS**

DATE	REVISIONS
12-6-87	REVISED BUILDING SECTIONS FOR OFFICE BLDG
2-16-87	SED CONT MEASURED AS PER H.C.S.C.D. REVIEW
7-25-87	SED CONT MEASURED AS PER H.C.S.C.D. REVIEW

**DATE** 7/25/89

**SCALE** AS SHOWN

**SHEET** 5 OF 9

**CONTRACT NUMBER** 87-122



# PLANTING CALCULATIONS

AREA TO BE MITIGATED = 0.44 ACRES (19,106 SQ. FT.)  
 PLANTING UNITS REQUIRED =  $\frac{19,106}{11,000} = 1.74$  UNITS  
 MAJOR DECIDUOUS (19 X .25 X 3) = 14  
 MINOR DECIDUOUS (19 X .25 X 4) = 19  
 SHRUBS (19 X .10 X 20) = 38  
 GRAUND COVER WHERE NECESSARY  
 PROPOSED = REQUIRED (SEE PLANT LIST BELOW)

## PLANT LIST

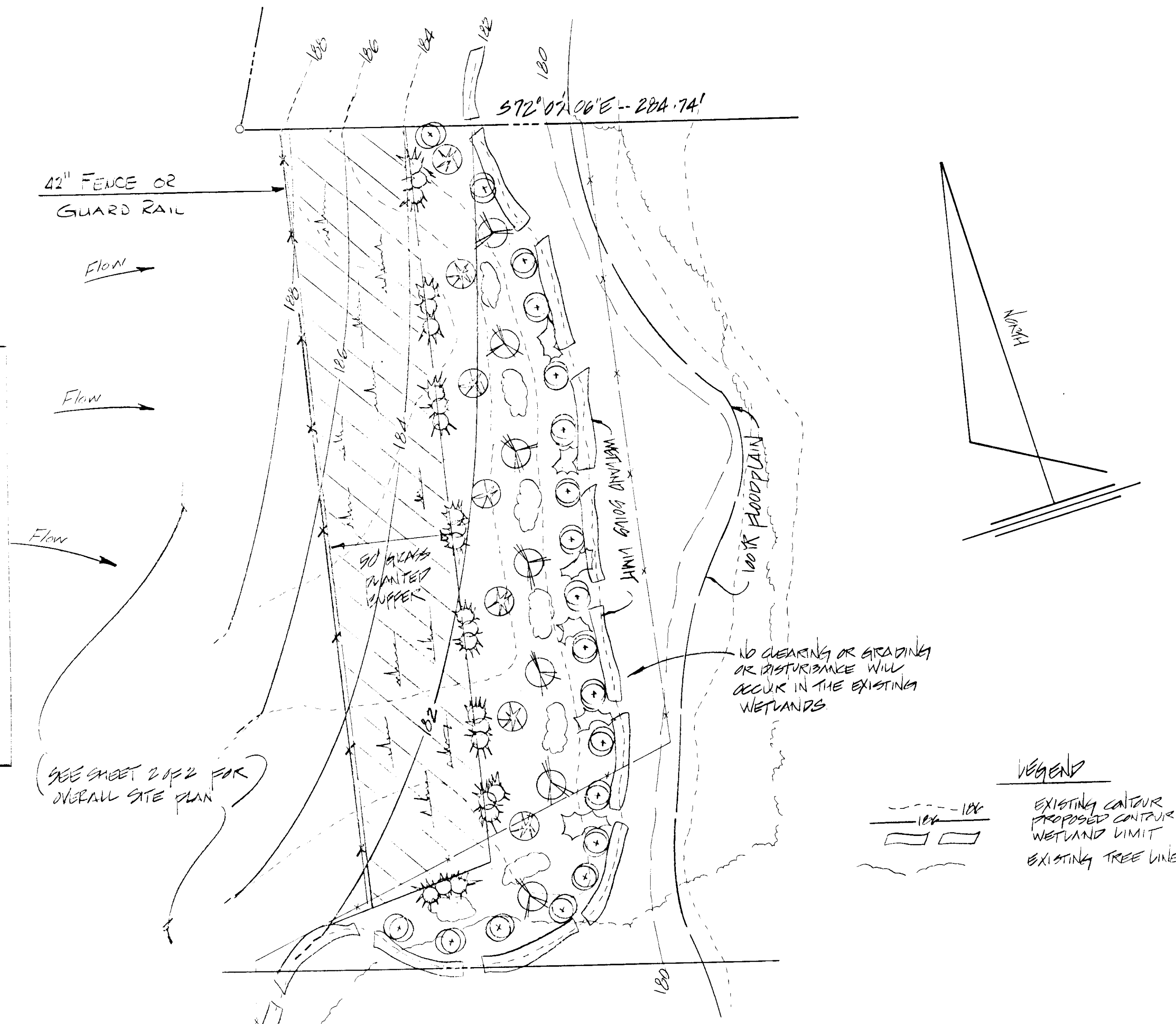
SYMBOL	BOTANICAL NAME/ COMMON NAME	SIZE	QUANTITY	REMARKS
	ACER RUBRUM/ RED MAPLE	2'-2 1/2" CAL. B&B	7	UPLAND MOIST, BOTTOM LAND, PARTLY DRAINED
	QUERCUS PAUSTRIS/ PIN OAK	2'-2 1/2" CAL. B&B	7	BOTTOM LAND, PARTLY DRAINED
	ALNUS GLUTINOSA/ ALDER	1 1/2'-2" CAL. B&B	19	RAID DRAINAGE, BOTTOM LAND PARTLY DRAINED, PLANT FALL OR SPRING
	VACCINIUM OXYMOSUM/ HIGHBUSH BLUEBERRY	30"-36" HEAVY	12	BOTTOM LAND, WELL DRAINED
	VIGNA VITICOLA/ SOUTHERN ARROWWOOD	30"-36" HEAVY	12	BOTTOM LAND, PARTLY DRAINED
	CLETHRA ALNIFOLIA/ SWEET PEPPERBUSH	30"-36" HEAVY	14	UPLAND MOIST
	PRAXINIA ARIZONICA/ CANARY GRASS	GROUND COVER	—	EROSION CONTROL, SHOALS NOT RECOMMENDED FOR LAWNS AND FOOT TRAFFIC

### WETLAND MITIGATION NARRATIVE

The development site of "Cherry Hill Construction, Inc." is a 19.22-acre site located in Howard County, Maryland. An existing wetland area consisting of 0.44+ Acres in the south-east corner of the site is to be abandoned for the proposed construction of storage sheds. Adjacent to this existing wetland area to the south of the property is a previously disturbed wetland area changed to an upland condition.

The proposed mitigation site, a non-wooded area located in the northeast corner of the site is equal in size to the existing wetland (0.44+ Ac.) with a closer proximity to the existing stream known as Dorsey Run. The mitigation process for the proposed wetland will include the transport of existing hydric soil material from the existing site to be disturbed with a 6 inch layer of topsoil over the proposed site, utilizing existing root matter and further enhancing the proposed plantings to result in a functioning wetland. Adjacent to the mitigation site will be a 50 foot grass planted area for the pre-treatment of surface water before entering the wetlands.

The surface drainage from the ultimate construction will provide sheet flow from the northern portion of the site to the east side of the storage acting as a natural watering source. The water conveyed through a gradual swale will drain through the grass buffer to the wetlands and ultimately to the stream.



**MITIGATION SITE**  
SCALE: 1"=30'

### NOTES:

- CUT ELEVATION OF MITIGATION SITE TO ELEVATION OF EXISTING WETLAND ADJACENT TO SITE OR 6" LOWER
- EXISTING WETLAND MATERIAL FROM DISTURBED AREA (SEE SHEET 2022) WILL BE DISTRIBUTED OVER MITIGATION SITE
- MAJOR TREES SHOULD BE PLANTED 15' ON CENTER, MINOR TREES 31' ON CENTER AND SHRUBS 31' ON CENTER
- SHRUBS WILL BE PLANTED IN THE MITIGATION AREA TO MEAN NO CLEARING OR GRADING IN THE MITIGATION AREA.
- WETLAND SOIL TYPE CLASSIFIED AS HATBORO SILT/CLAY (GROUP 2)

## WETLAND MITIGATION PLAN

*[Signature]*

APPROVED FOR PUBLIC WATER AND PRIVATE SEWERAGE SYSTEM HOWARD COUNTY HEALTH DEPARTMENT  
 COUNTY HEALTH OFFICER: [Signature] DATE: 8-11-89  
 APPROVED: HOWARD COUNTY DEPT. OF PLANNING AND ZONING  
 DIRECTOR: [Signature] DATE: 8/17/89  
 CHIEF DIVISION OF COMMUNITY PLANNING & ZONING: [Signature] DATE: 8/17/89  
 APPROVED FOR PUBLIC WATER AND PRIVATE SEWERAGE SYSTEM SEWERAGE SYSTEMS AND PRIVATE SEWERAGE SYSTEMS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
 DIRECTOR: [Signature] DATE: 8-8-89  
 CHIEF BUREAU OF ENGINEERING: [Signature] DATE: 8-8-89

7-12-89  
C.L.D.



DATA SHEET 2244002 ELEV. 217.072  
 COORDINATE N ADJUSTED TO E POINT 1999  
 DESCRIPTION CONE MOUNTED BENTONITE CURTAIN  
 N SIDE HILLS RD, W SIDE US  
 ROUTE 1

**1. CURVE DATA**  
 ① **STRAIGHT LINE**  
 R. 800.00  
 L. 02.50'  
 T. 51.57'  
 Δ. 11° 50' 50"  
 CH. 066' 04" 50'S 02.41'  
 ② **STRAIGHT LINE**  
 R. 172.90'  
 L. 210.44'  
 T. 128.89'  
 Δ. 71° 00' 00"  
 CH. 251' 05" 24'S 107.01'

**NOTE:**  
 PROVIDE A 10' LANDSCAPED EDGE W/  
 3' HIGH BENTONITE MOUND ALONG ANY  
 FRONTAGE TO US ROUTE 1.

**NOTE:**  
 EX PAVING TO BE USED AS  
 STABILIZED ENTRANCE FOR  
 SITE

ZONED M-1

BALTIMORE - WASHINGTON BOULEVARD

U.S. ROUTE 1

MANIFOLD VEDADI  
 1191/425, 1128/451, 4228  
 ZONED M-2

**NOTE:**  
 SEDIMENT CONTROL MEASURES AS  
 SHOWN PROVIDE MANAGEMENT  
 OF EXISTING CONDITIONS  
 CONTRACTOR MUST ADJUST THE  
 SEDIMENT CONTROL MEASURES  
 TO ACCOMMODATE PROPOSED  
 FILL CONDITIONS SEE SEDIMENT  
 CONTROL PLAN.

APPROVED FOR PUBLIC WATER AND PRIVATE SEWERAGE SYSTEM  
 HOWARD COUNTY HEALTH DEPARTMENT  
*John Zolcu* 8/11/89  
 COUNTY HEALTH OFFICER DATE  
 APPROVED HOWARD COUNTY DEPT. OF PLANNING & ZONING  
*James S. Smith* 8/17/89  
 DIRECTOR DATE  
*Frank J. De Vany* 8/15/89  
 CHIEF, DIVISION OF COMMUNITY  
 PLANNING AND LAND DEVELOPMENT  
 APPROVED FOR PUBLIC WATER AND PRIVATE SEWERAGE  
 SYSTEM DRAINAGE SYSTEMS AND PRIVATE ROADS  
 HOWARD COUNTY, DEPARTMENT OF PUBLIC WORKS  
*Franklin W. Weiland* 8/9/89  
 DIRECTOR DATE  
*William B. Riley* 8-8-89  
 CHIEF BUREAU OF ENGINEERING DATE

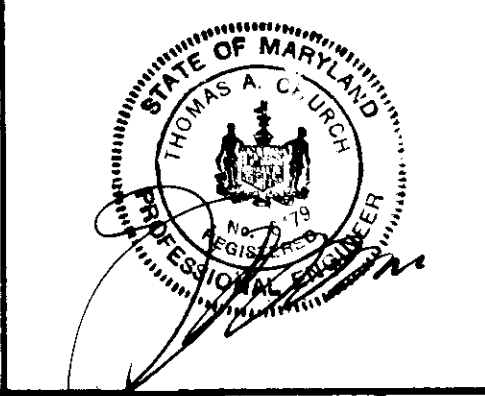
SUPVISION NAME "CHERRY HILL CONSTRUCTION, INC."	SHEET AREA 12,226,567.564	LOT/PARCEL 1226, 567, 564
PLAN # OR L.P. BLOCK # 426/571	ZONING M-2	ISS./ZONING PERMITS/ORD. CODES/FEES 4/26/87 6004
WATER CODE 200	SEWER CODE 3170000	

# WETLAND MITIGATION PLAN

WATERLOO DEVELOPMENT ASSOCIATES  
 500/1326 P 291  
 ZONED M-2

REVIEWED FOR HOWARD COUNTY  
 SOIL CONSERVATION DISTRICT AND  
 MEETS TECHNICAL REQUIREMENTS  
*James M. Nelson*  
 US SOIL CONSERVATION SERVICE  
 7/25/89  
 DATE

THIS DEVELOPMENT PLAN IS  
 APPROVED FOR SOIL EROSION AND  
 SEDIMENT CONTROL BY THE HOWARD  
 COUNTY SOIL CONSERVATION DISTRICT.  
*Stephen J. Smith*  
 HOWARD S.C.D.  
 7/25/89  
 DATE



Drawn S.L.D.	DATE	REVISIONS
11-18-87		GRADING, UTILITIES, HOWARD CO. 500 CONK
03-28-87		EXTENDING MACADAM DRIVE
08-29-87		WETLAND SOILS LIMIT, GRADING, TRAP NO. 1
08-29-87		DEP CONT. MEMORANDUM AS PER H.C. 646 REVIEW #1

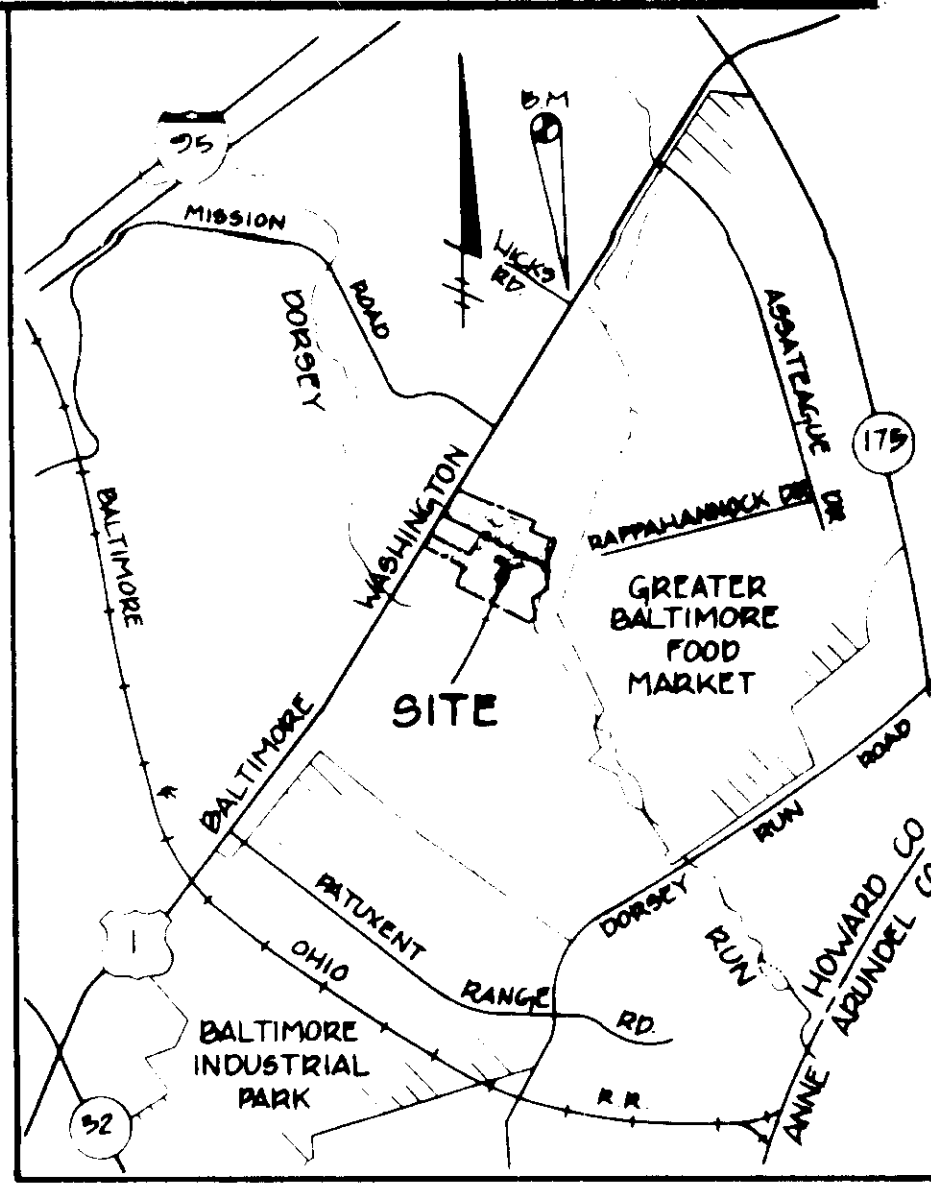
**DEVELOPMENT ENGINEERING CONSULTANTS, INC.**  
 SITE ENGINEERS & SURVEYORS  
 BALTIMORE 603 YORK RD 21212 (301) 577-2600 MARYLAND

**OWNER/DEVELOPER**  
 CHERRY HILL CONSTRUCTION, INC.  
 870 MISSION ROAD  
 JESSUP, MARYLAND 20794  
 (301) 259-2700

**ELECTION DISTRICT**  
 GUILFORD - NO. 6  
 HOWARD COUNTY, MARYLAND

**"CHERRY HILL CONSTRUCTION, INC."**  
 TAX MAP 49  
 PARCELS 226, 567

SHEET 7 OF 2	DATE FEBRUARY 17, 1989 SCALE 1"=50'	CONTRACT NUMBER 87-128
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**VICINITY MAP**  
 SCALE 1"=2000'

**PARKING NOTES & DETAILS**  
 PARKING SPACE DIMENSIONS  
 HANDICAP SPACES  
 7'4" C. RAMP WHERE NOTED

**PARKING REQUIRED**  
 OFFICE USE 4/PERSON KEEPING OFFICE HOURS  
 SERVICE GARAGE 1/500' x 1000' x 500' x 20' SPACES  
 TOTAL REQUIRED 253 SPACES

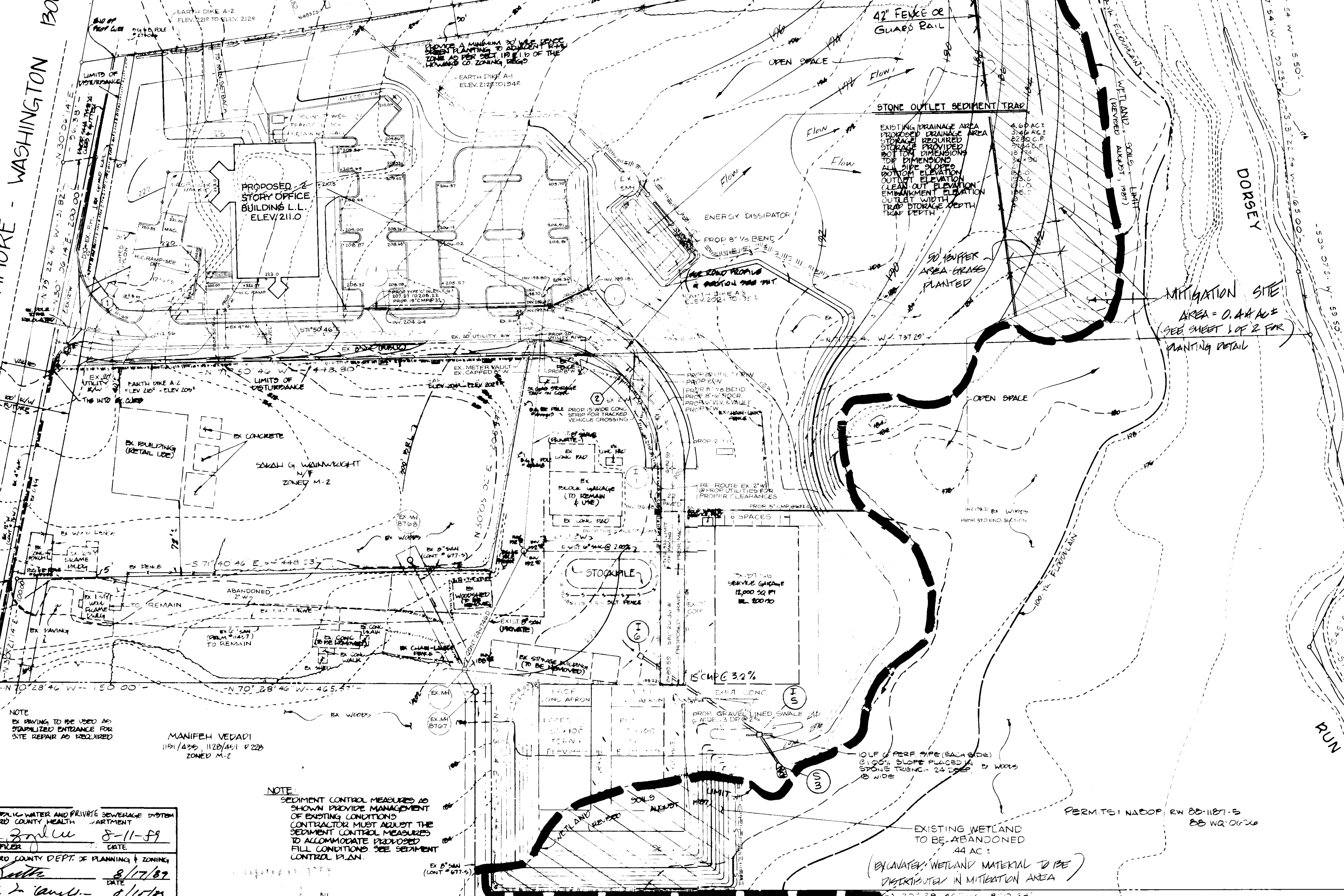
**PARKING PROVIDED**  
 26 SPACES (INCLUDED 4 HANDICAP SPACES)  
 AVERAGE DAILY TRIPS  
 12/1000' GFA 12-42, 504 A.D.T.  
 A MINIMUM OF 5% OF EACH PARKING AREA SHALL  
 BE MAINTAINED AS LANDSCAPED ISLANDS.  
 AREA OF PROPOSED PARKING IS 11,226 AC OR 3.2%  
 AREA OF LANDS TO BE 226 AC OR 0.5% OF  
 THE PROPOSED PARKING AREA.  
 \* INDICATES LOCATION OF HANDICAPPED PARKING  
 SPACES

**OPEN SPACE**  
 REQUIRED: 20% OR 20 x 122 AC = 2,440 AC  
 PROVIDED: 66% OR 12,226 AC

**LEGEND**  
 EXISTING CONTOURS  
 PROPOSED CONTOURS  
 WETLAND SOILS LIMIT  
 10'-14' FLOODPLAIN  
 EXISTING WOODS  
 MACADAM PAVING

**SEDIMENT CONTROL MEASURES**  
 LIMITS OF DISTURBANCE  
 EARTH DIKE  
 SILT FENCE  
 MOUNTABLE BEAM

**TOTAL AREA DISTURBED**  
 932 AC OR 23.47%  
**TOTAL AREA OF SITE**  
 1922 AC OR 50.72%  
**PROPOSED IMPERVIOUS AREA**  
 2,399 AC OR 10.36%  
**EXISTING BUILDING COVERAGE**  
 22 AC OR 1.1% OF SITE  
**PROPOSED BUILDING COVERAGE**  
 72 AC OR 3.7% OF SITE



DORSEY RUN

BALTIMORE - WASHINGTON BOULEVARD

U.S. ROUTE 1

PROPOSED 2 STORY OFFICE BUILDING L.L. ELEV. 211.0

STONE OUTLET SEDIMENT TRAP

MITIGATION SITE  
 AREA = 0.44 AC ±  
 (SEE SHEET 1 OF 2 FOR  
 PLANTING DETAIL)

STOCKPILE

EXISTING WETLAND TO BE ABANDONED 44 AC ±  
 (EXISTING WETLAND MATERIAL TO BE  
 DIVERSIFIED IN MITIGATION AREA)

PERMITS: NADOP RW 88-1187-S  
 88 WR 0126



STA 100+00 TO 100+100  
 2" VERTICAL SCALE  
 1" HORIZONTAL SCALE  
 1" = 100'

② STA 100+00 TO 100+100  
 R = 192.90'  
 L = 210.44'  
 T = 128.89'  
 Δ = 91°00'00"  
 CHD = 921.00' ± 0.01'

NOTE:  
 PROVIDE A 10' LANDSCAPED EDGE W/  
 3' HIGH BAKED MOUND ALONG ANY  
 FRONTAGE TO U.S. ROUTE 1.

NOTE:  
 EX. PAVING TO BE USED AS  
 STABILIZED ENTRANCE FOR  
 SITE

ZONED M-1

U.S. ROUTE 1

BALTIMORE - WASHINGTON BOULEVARD

APPROVED FOR PUBLIC WATER AND PRIVATE SEWERAGE SYSTEM  
 HOWARD COUNTY HEALTH DEPARTMENT  
 COUNTY HEALTH OFFICER: *John Zolner* 8/11/89  
 APPROVED HOWARD COUNTY DEPT. OF PLANNING & ZONING  
 DIRECTOR: *James S. Smith* 8/17/89  
 SUPERVISOR: *James S. Smith* 8/17/89  
 APPROVED FOR PUBLIC WATER AND PRIVATE SEWERAGE  
 FROM DRAINAGE SYSTEMS AND PRIVATE ROADS  
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
 DIRECTOR: *Franklin W. Williams* 8/9/89  
 CHIEF BUREAU OF ENGINEERING: *James S. Smith* 8-8-89

NOTE:  
 SEDIMENT CONTROL MEASURED AS  
 SHOWN PROVIDE MANAGEMENT  
 OF EXISTING CONDITIONS  
 CONTRACTOR MUST ADJUST THE  
 SEDIMENT CONTROL MEASURES  
 TO ACCOMMODATE DEGRADED  
 FILL CONDITIONS. SEE SEDIMENT  
 CONTROL PLAN.

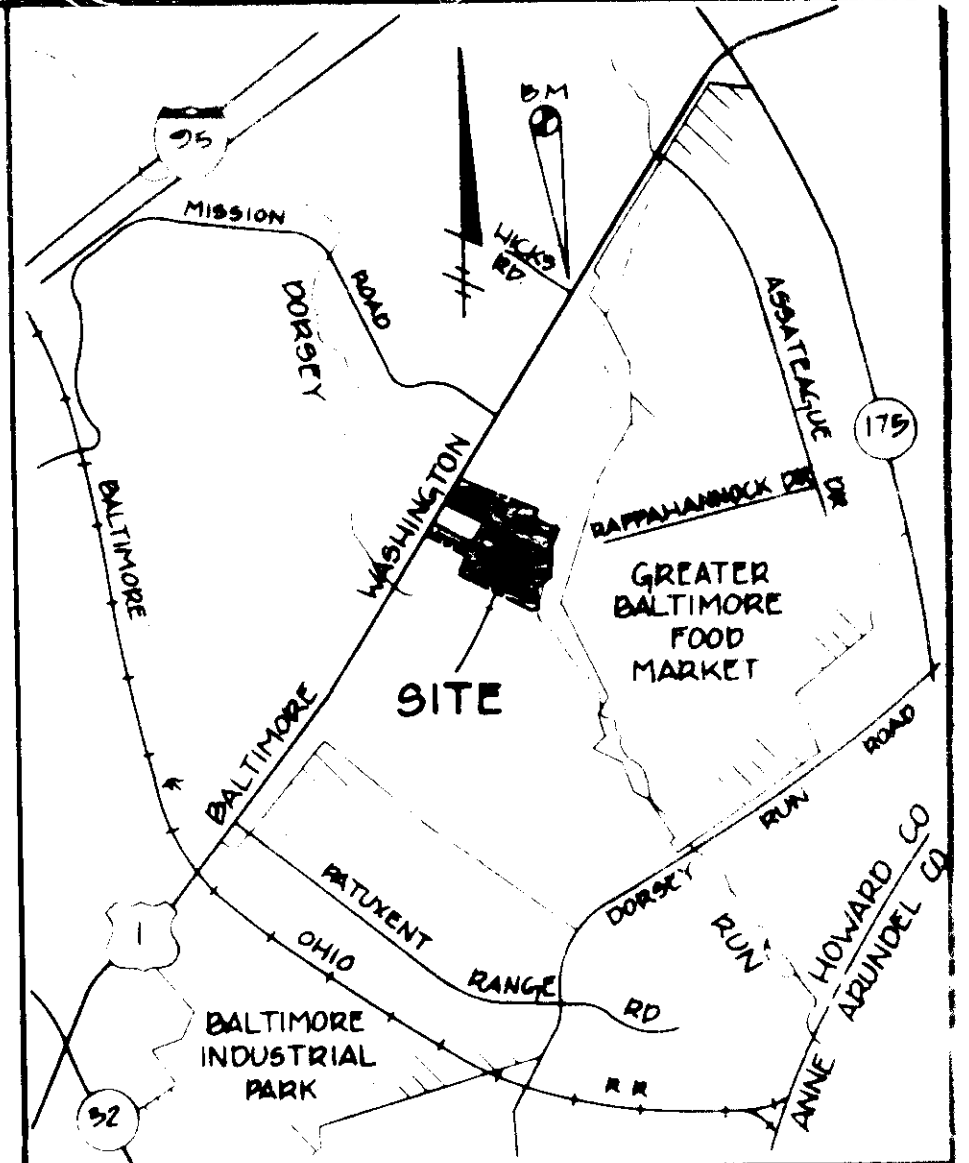
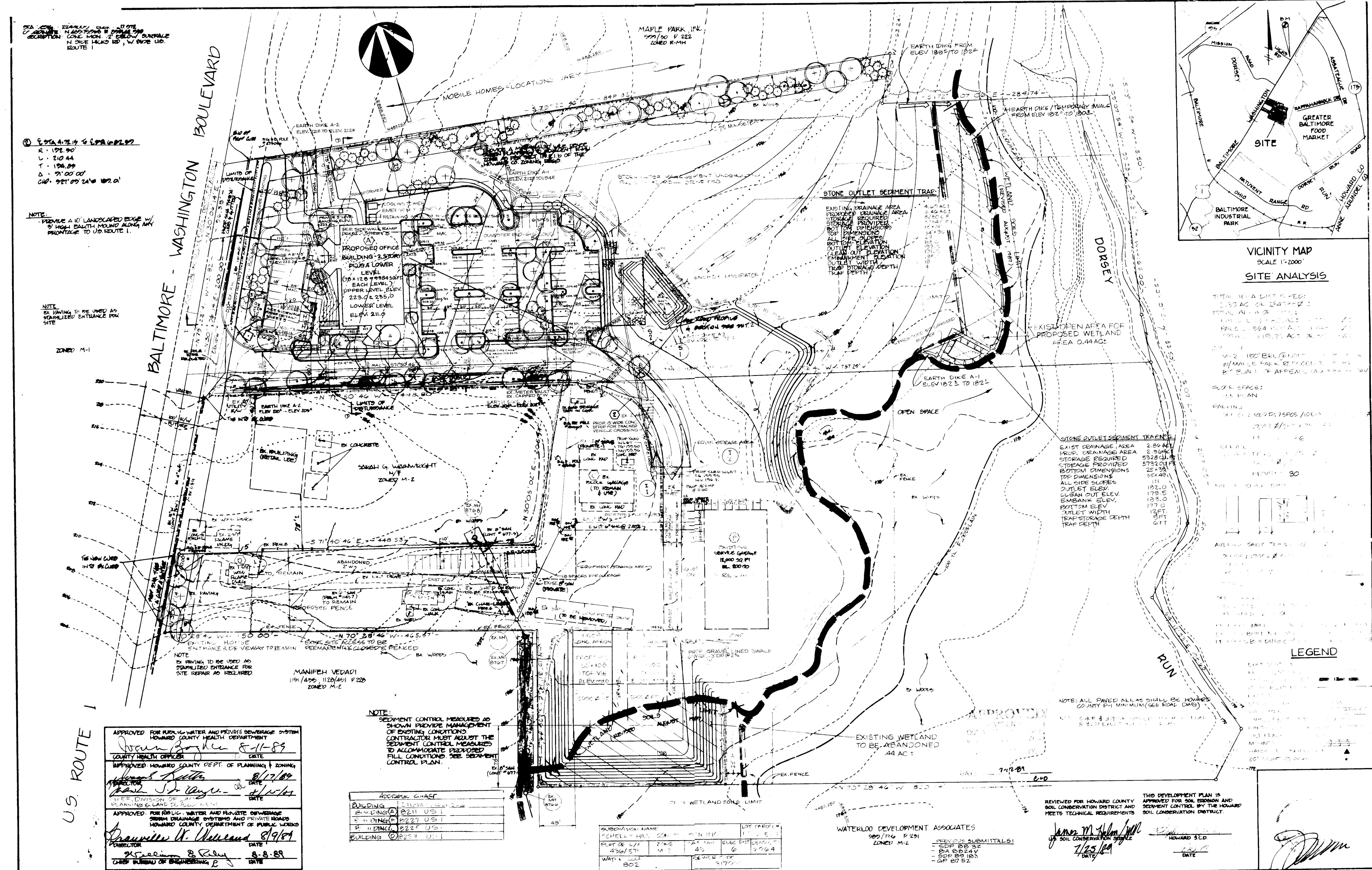
ACCESS CHASE

BUILDING	11200
PLANNING	11200
ENGINEERING	11200
CONSTRUCTION	11200

SUBDIVISION NAME	CHERRY HILL	LOT PARCEL #	1-1-1
PLAT OF L/T	436/571	24' X 43'	436/571
WATER	802	SEWER	2172

WATERLOO DEVELOPMENT ASSOCIATES  
 200/176 P 291  
 ZONED M-2  
 PREVIOUS SUBMITTALS:  
 - SDP 88 32  
 - SA 88 24 V  
 - SDP 88 183  
 - GP 87 52

REVIEWED FOR HOWARD COUNTY DISTRICT AND  
 MEETS TECHNICAL REQUIREMENTS  
 APPROVED FOR SOIL EROSION AND  
 SEDIMENT CONTROL BY THE HOWARD  
 COUNTY DISTRICT  
 JAMES M. HALL  
 7/25/89  
 DATE



**VICINITY MAP**  
 SCALE 1"=2000'  
**SITE ANALYSIS**

TOTAL AREA DIST. 15.4 AC  
 1.35 AC OF 23.87 AC  
 TOTAL AREA 15.4 AC  
 1.35 AC OF 23.87 AC  
 1.35 AC OF 23.87 AC  
 1.35 AC OF 23.87 AC

FLOOR SPACE:  
 SEE PLAN

PAVING:  
 SEE PLAN

LEGEND



PLANT LIST

KEY	QUANTITY	BOTANICAL NAME COMMON NAME	SIZE	COLOR	REMARKS
⊙	21	ACER RUBRUM RED SUNSET RED SUNSET RED MAPLE	2-2 1/2" CAL.	B & B	
⊕	16	QUERCUS PALMSTRIS P. OAK	2-2 1/2" CAL.	B & B	
⊙	31	LA CORDATA GREENSPIRE GREENSPIRE LINDEN	2-2 1/2" CAL.	B & B	
⊙	23	PYRUS CALLERYANA REDSPIRE REDSPIRE PEAR	3/4-2" CAL.	B & B	
⊙	69	PNUS STROBUS LATE PINE	7-8" L.	B & B	SP. 3 G.C.
⊙	17	ELONYMUS ALATUS COMPACTUS PAARF WINGED ELONYMUS	2-2-3" HT.	B & B	SP. 3 G.C.
⊙	40	JUNIPERUS SABINA TAMARISCFOLIA TAMARX JUNIPER	15-18" HT.	CAN	SP. 3 G.C.
⊙	25	JUNIPERUS HORIZONTALIS BAR HARBOR BAR HARBOR JUNIPER	5-8" SHK.	CAN	SP. 3 G.C.

NOTES:

- CONTRACTOR SHALL NOTIFY 'MISS UTILITY' A MIN. OF 72 HOURS BEFORE DIGGING.
- ALL PLANTS TO BE LOCATED IN THE FIELD BY THE LANDSCAPE ARCHITECT.

SPECIFICATION FOR PLANTING

**Plant Identification:** All plants shall be properly marked for identification and checking.

**List of Plant Materials:** The Contractor will verify plant quantities prior to hauling and any discrepancies shall be brought to the attention of the Landscape Architect. The Contractor shall furnish and plant all plants required to complete the work as shown on the drawings. Substitutions shall not be made without the written approval of the Landscape Architect. This contract will be based on the bidder having verified, prior to bidding, the availability of the required plant materials as specified on the Plant List.

**Plant Quality:** All shrubs shall be dense, heavy to the ground, and well grown, showing evidence of having been sheared regularly, and shall be vigorous, healthy and of good color. All plants shall be sound, free of plant disease or insect eggs and shall have a healthy normal root system. Plants shall be nursery grown. Plants shall not be planted prior to delivery. The shape of the plant shall in general conform to its natural growth proportions unless otherwise specified. All plants including container grown shall conform to the branching, caliper, ball size, height, specifications of the American Standard for Nursery Stock (ANSI Z60.1-1973), and shall have a well-shaped, heavy branch structure for the species. Evergreen trees are to have an internode no greater than 24" and shall be uniformly well-shaped. All plant sizes shall average at least the middle of the range given in the plant list.

**Plant Spacing:** Plant spacing is to scale on plan or as shown on the Plant List.

**Soil Mix:** Soil mix will be 2/3 existing soil, 1/3 leafmold or equal organic material, thoroughly mixed and homogenized.

**Ball Size:** The ball size shall conform to the American Association of Nurserymen's publication entitled American Standard for Nursery Stock, ANSI Z60.1-1973.

**Excavation:** Holes for all plants shall be 18" larger in diameter than size of ball or container and shall have vertical sides. Holes shall be planted in a trench 1/2" wider than ball diameter. Beds for mass planting shall be entirely retotilled to a depth of 8" and shall be 18" beyond the average outside edge of plant balls. Organic material (i.e., leafmold) will be incorporated into plant beds by tilling again. Proportions of soil to organic material will be 2 parts to 1 part.

**Planting:** Backfilling shall be done with soil mix, reasonably free of stones, subsoil, clay, lumps, stumps, roots, weeds, herbaceous grass, litter, toxic substances, or any other material which may be harmful to plant growth or hinder grading, planting, or maintenance operations. Should any unforeseen or unsuitable planting conditions arise such as faulty soil drainage or chemical residues, they should be noted to the attention of the Landscape Architect and Owner for adjustments before planting. The plant shall be set plumb and straight and shall be staked at the time of planting. Backfill shall be well worked about the roots and settled by watering. Plants will be planted higher than surrounding grade. Shrubs will be 1" higher and trees will be 1/2" higher. Remove rope from around tree trunks and lay back burlap from top of all B&B material. Nylon or vinyl rope and/or burlap will be completely removed from all plant material prior to planting.

**Transplanting Trees by Tree Machines:** Trees shall be moved by machines that provide a minimum of 9" per 1" of tree caliper. Holes are to be dug by the same size machine as the one transporting the plant. The plant material shall be transplanted in approximately the same growing condition as it is presently growing, in terms of soil type and moisture content. Fertilize and gey as described in these plans and specifications.

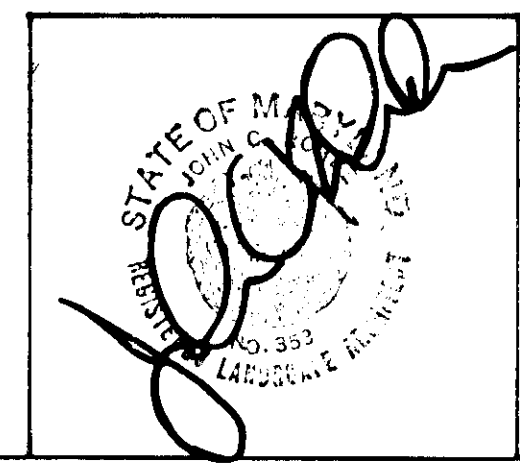
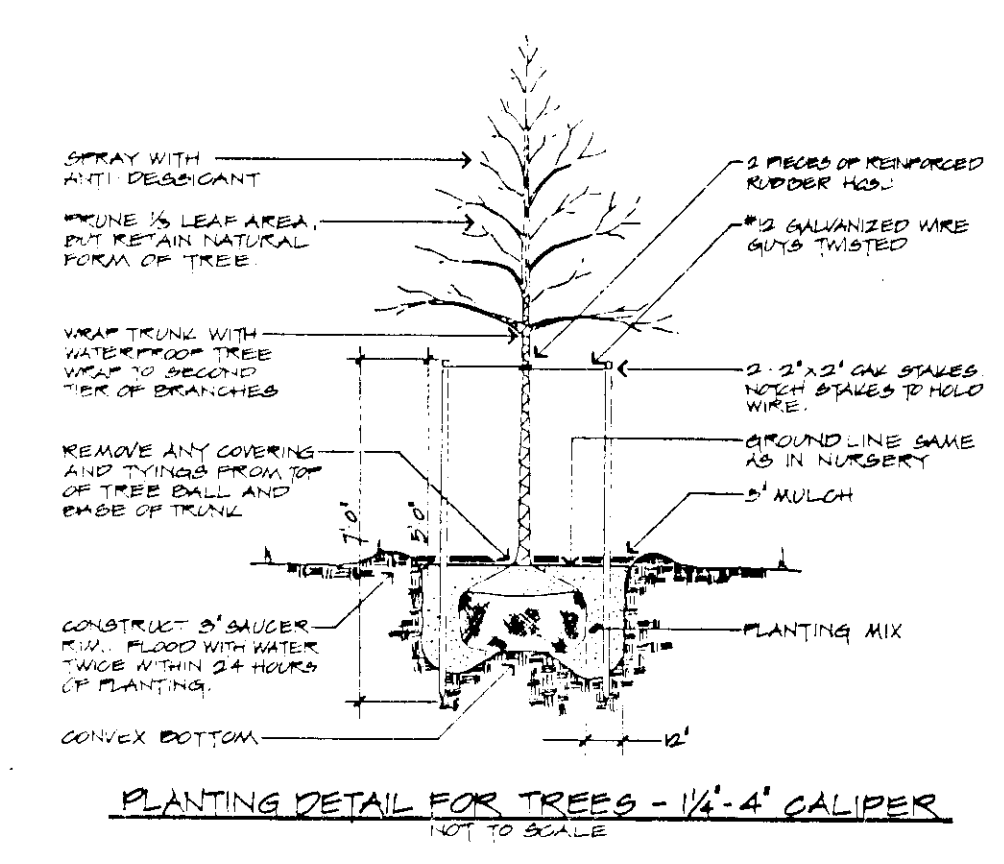
**Cultivation:** All trenches and shrub beds shall be cultivated, edged and mulched to a depth of 1" with shredded hardwood bark. The area around isolated plants shall be mulched to at least 6" greater diameter than that of the hole. Plant beds adjacent to buildings shall be mulched to the building wall.

**Maintenance:** The Contractor shall be responsible during the contract and up to the time of acceptance, for keeping the planting and work incidental thereto in good condition, by replanting, plant replacement, watering, weeding, cultivating, grading and spraying, restaking and cleaning up and by performing all other necessary operations of care for promotion of good plant growth so that all work is in satisfactory condition at time of acceptance, at no additional cost to the Owner.

**Fertilizer:** Fertilizer shall be a slow release type contained in polyethylene perforated bags with micro-pore holes for controlled feeding such as Easy Grow as manufactured by Specialty Fertilizer, Inc., Box 355, Suffern, New York 10901 or approved equal. The bags shall contain 1 ounce of soluble fertilizer analysis 16-16-16 per unit to last three years and shall be applied during planting as recommended by the manufacturer. If fertilizer packets are not used the Contractor shall apply granular fertilizer to the soil mix with 10-6-4 analysis, 50% organic, at the following rates: Tree Pits, 2-3 lbs. per caliper inch; Shrub Beds, 3-5 lbs. per 100 sq. ft.; Ground Cover, 2-3 lbs. per 100 sq. ft.

**Ground Cover:** All areas of ground cover shall be retotilled to a depth of 8". Apply 2" of organic material and retotill until thoroughly mixed. Apply fertilizer as stated above.

**Guarantee and Replacement:** All material shall be unconditionally guaranteed for one year. The Contractor is responsible for watering but not for losses or damage caused by mechanical injury or vandalism.



HUMAN E. ROLFE, INC.  
LANDSCAPE ARCHITECTS  
10 E. PENNSYLVANIA AVE.  
TOWSON, MARYLAND 21204  
(301) 825-3885

APPROVED FOR PUBLIC WATER AND PRIVATE SEWERAGE SYSTEM  
HOWARD COUNTY HEALTH DEPARTMENT  
*[Signature]* 8-11-89 DATE  
COUNTY HEALTH OFFICER  
APPROVED HOWARD COUNTY DEPT. OF PLANNING & ZONING  
*[Signature]* 8/17/89 DATE  
DIRECTOR  
*[Signature]* 8/15/89 DATE  
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT  
APPROVED FOR PUBLIC WATER AND PRIVATE SEWERAGE, STORM DRAINAGE SYSTEMS AND ROAD  
*[Signature]* 8/18/89 DATE  
SUPERVISOR  
*[Signature]* 8-9-89 DATE  
CHIEF BUREAU OF ENGINEERING

DEVELOPMENT ENGINEERING CONSULTANTS, INC.  
SITE ENGINEERS & SURVEYORS  
6603 YORK RD (301) 377-2600  
BALTIMORE, MARYLAND 21212

OWNER / DEVELOPER  
CHERRY HILL CONSTRUCTION, INC.  
810 W. 5500 ROAD  
LEESBURG, VA 20142  
(301) 992-2700

ELECTION DISTRICT  
GJ 3800 - NO. 6  
HOWARD COUNTY, MD.

PLANTING PLAN  
"CHERRY HILL CONSTRUCTION, INC."  
TALL MAP 23  
PARCELS 20, 22, 24, 26, 28

NO. 1	DATE: JUL 27, 1989
NO. 2	
NO. 3	