

TRAP NO. 2 S.I.S.T. (ST. III)  
 DRAINAGE AREA: 1.4 AC.  
 STORAGE REQUIRED: 1,418,000 GALS  
 STORAGE PROVIDED: 5,040 CF  
 DEPTH: 3 FT.  
 THROAT ELEVATION: 372.0  
 CLEANOUT ELEVATION: 369.5  
 BOTTOM ELEVATION: 372.0  
 BOTTOM DIMENSIONS: SEE PLAN  
 2:1 SIDE SLOPES

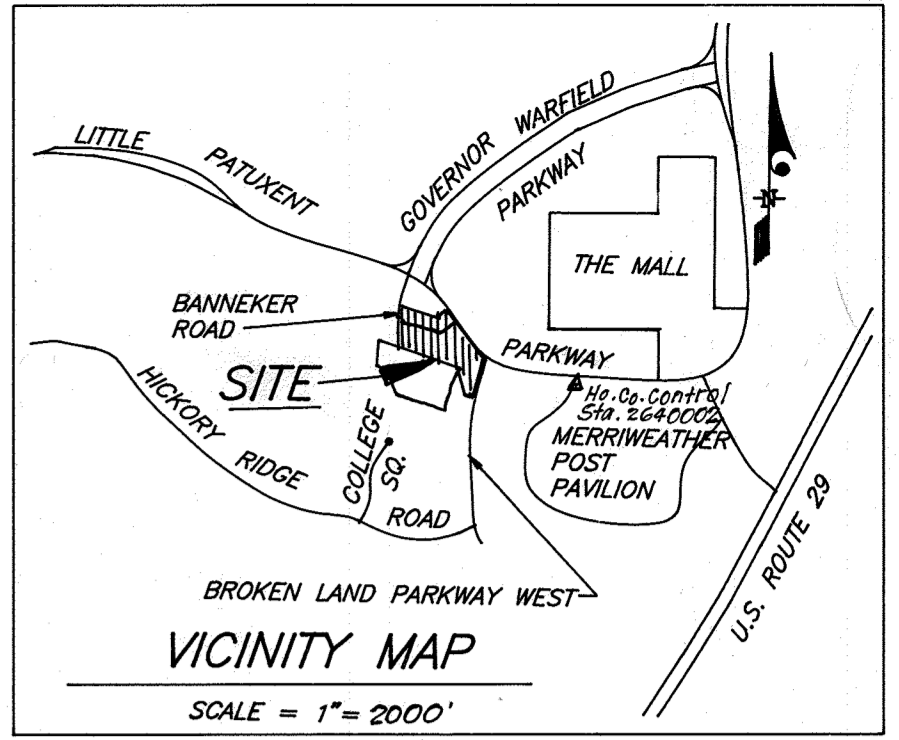
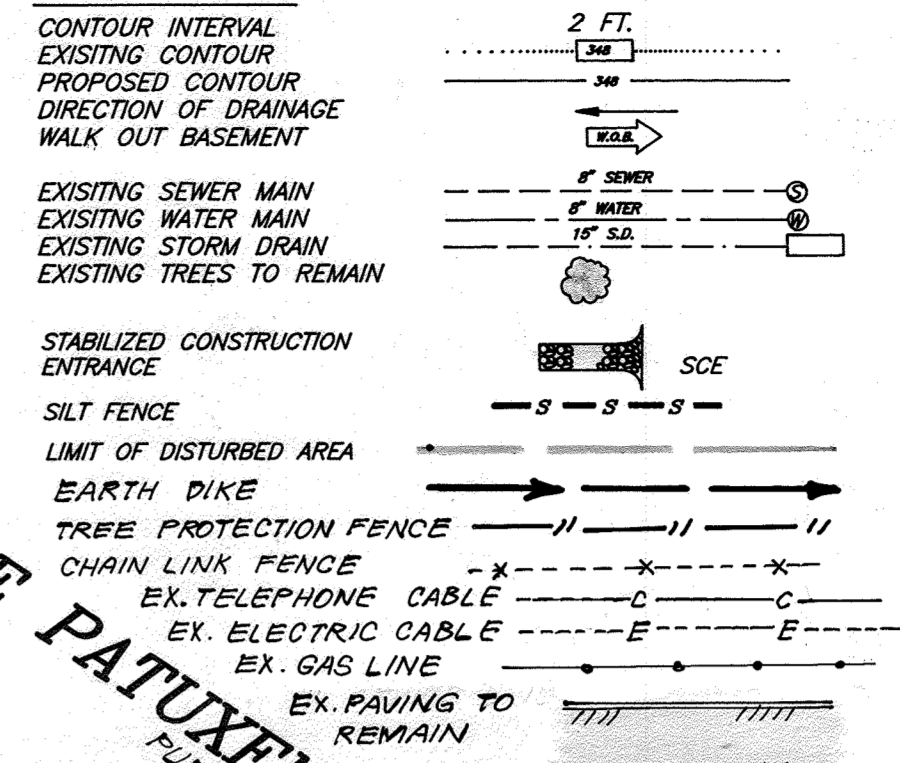
TRAP NO. 1 S.O.S.T. (ST. IV)  
 DRAINAGE AREA: 4.4 AC.  
 STORAGE REQUIRED: 4,418,000 GALS  
 STORAGE PROVIDED: 15,168 CF  
 DEPTH: 4 FT.  
 TOP OF STONE WEIR: 372.0  
 CLEANOUT ELEVATION: 369.5  
 BOTTOM ELEVATION: 367.5  
 BOTTOM DIMENSIONS: SEE PLAN  
 2:1 SIDE SLOPES  
 L=18'

PARCEL 12  
 TOWN CENTER SECTION 3 AREA 2  
 PARCEL 10 N. 1  
 P.B. 12 F. 60  
 ZONED: N.T.  
 Note: REMOVE EX. HEADWALL  
 BUILD M-3 OVER & CONN. EX.  
 18" ROP. SEE PROFILE GHT. 2

SEE SHEET 2 FOR  
 ADDITIONAL DETAIL  
 AT ENTRANCE.

TOWN CENTER SECTION 3 AREA 2  
 PARCEL 7-A  
 P.B. 15 F. 85  
 (1,312 AC)

LEGEND



SITE ANALYSIS

TOTAL AREA OF THE SITE: 8,800 AC TOTAL  
 ZONING: N.T.  
 RECORDING REFERENCE: P.B. 15 F. 85 & P.B. 30 F. 17  
 463/106  
 SEE GENERAL NOTES SHEET 2  
 STORM WATER MANAGEMENT IS PROVIDED PER F-85-131.

PLANT LIST

SYM.	PLANT NAME	QUANTITY	SIZE
Q	QUERCUS PALUSTRIS 'PIN OAK'	10	2 1/2" CAL. 5' 6"
P	PINUS STROBIS 'WHITE PINE'	17	8'-10" Ht. 5' 6"
P	PINUS STROBIS 'WHITE PINE'	27	6'-8" Ht. 5' 6"

Reviewed for HOWARD S.C.D.  
 Name: [Signature]  
 Signature: [Signature]  
 Date: 10-2-92  
 US Soil Conservation Service

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.  
 [Signature]  
 Date: 10-2-92

DEVELOPER'S/BUILDER'S CERTIFICATE

"We certify that all development and construction will be done according to this plan of development and plan for sediment and erosion control and that all responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of the Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project. I also authorize periodic on-site inspection by the Howard Soil Conservation District or their authorized agents, as are deemed necessary."

[Signature]  
 Date: 10-2-92

ENGINEER'S CERTIFICATE

I hereby certify that this plan for Sediment and Erosion 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]  
 Date: 9-28-92

SHEET INDEX:

SHEETS 1 & 2 SITE DEVELOPMENT & SEDIMENT CONTROL PLAN  
 SHEET 3 SEDIMENT & EROSION CONTROL DETAILS  
 SHEET 4 ENVIRONMENTAL STUDY

LOT NUMBER	STREET ADDRESS
5,6,7A & 7B	5851 BANNERKER ROAD

SUBDIVISION NAME	SECTION/AREA	LOTS/PARCELS
COLUMBIA TOWN CENTER	3/2	RESIDUE PARCEL & PARCELS 5, 6, 7A & 7B
PLAT NO. 463/196	BLOCK NO.	ZONE
P.B. 15 F. 85	1	N.T.
P.B. 30 F. 17		
TAX MAP NO.	TAX PARCEL NO.	ELECTION DIST.
36	5TH	605G
WATER CODE	SEWER CODE	
N/A	N/A	

CLARK • FINEFROCK & SACKETT, INC.  
 ENGINEERS • PLANNERS • SURVEYORS  
 7135 MINSTREL WAY • COLUMBIA, MD. 21045 • (301) 381-7500 - BALTO. • (301) 621-8100 - WASH.

DESIGNED: MJP, KIWM  
 DRAWN: CADD  
 CHECKED: WHT, JLS  
 DATE: SEPT. 1992

SCALE: 1" = 30'  
 DRAWING: 10F4  
 JOB NO.: 92-133  
 FILE NO.: 92-133-0E

SITE DEVELOPMENT AND SEDIMENT AND EROSION CONTROL PLAN FOR ROUGH GRADING, DEMOLITION AND DRIVEWAY ENTRANCE TO PUMPING STATION PARCELS 5, 6, 7A, 7B AND RESIDUE PARCEL COLUMBIA TOWN CENTER SECTION 3 AREA 2 TAX MAP NO. 36 TAX PARCEL NO. 504 6TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND

FOR THE HOWARD RESEARCH AND DEVELOPMENT CORP.  
 10225 LITTLE PATUXENT PARKWAY  
 FREDERICK, MARYLAND 21704

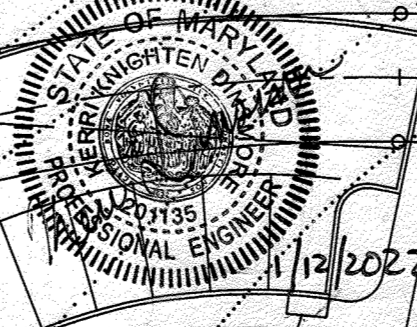
APPROVED PLANNING BOARD OF HOWARD COUNTY  
 DATE: 11-23-92

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT  
 [Signature]  
 DATE: 1-29-93

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING  
 [Signature]  
 DATE: 2/5/93

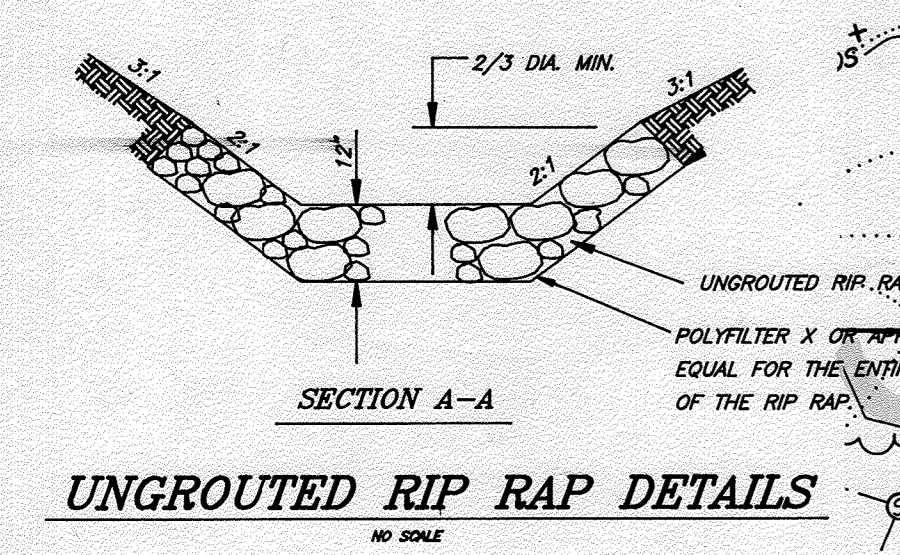
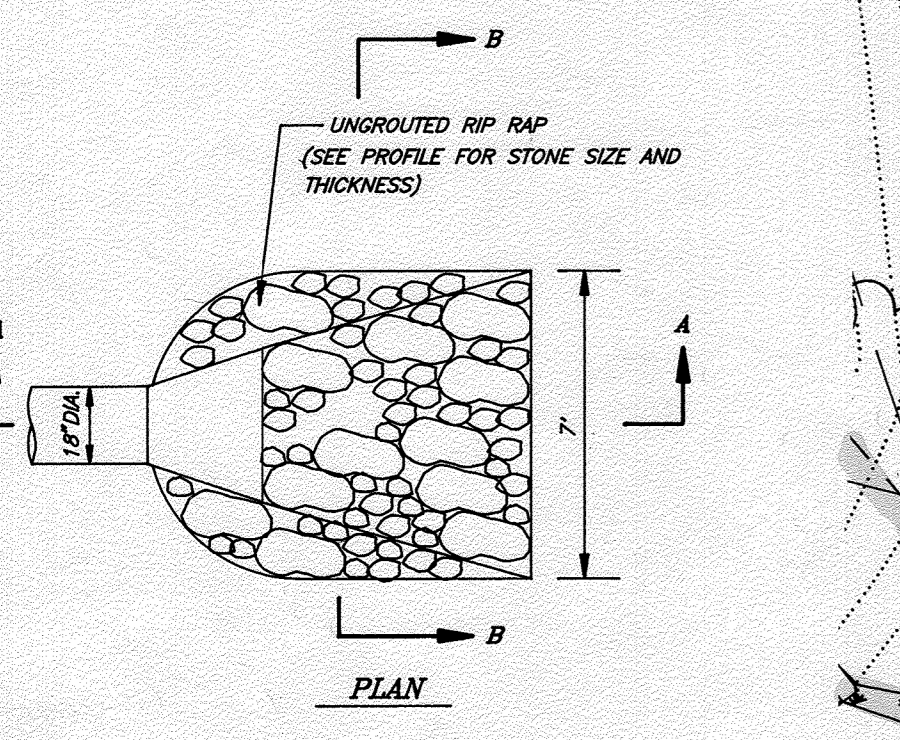
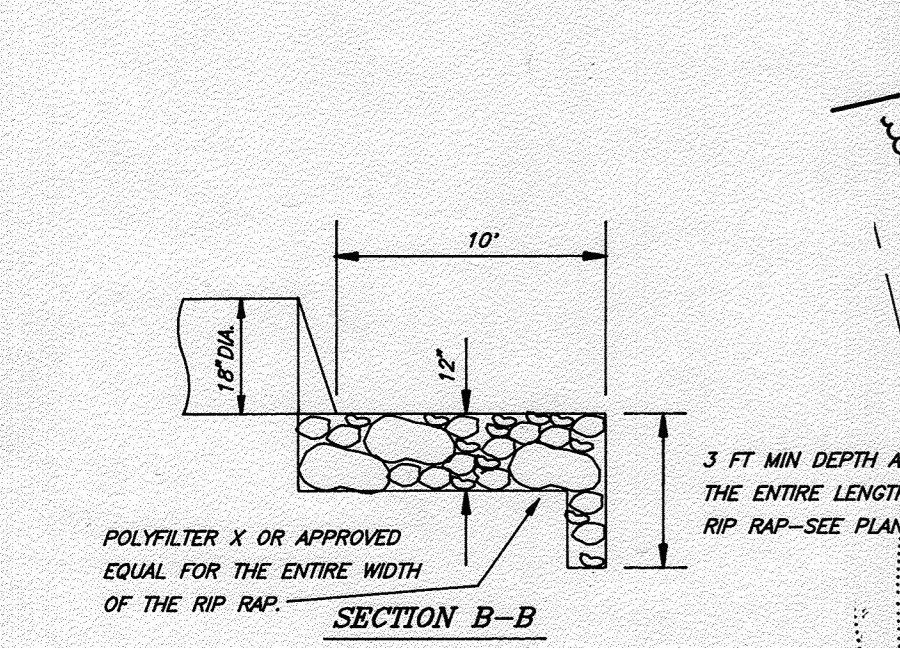
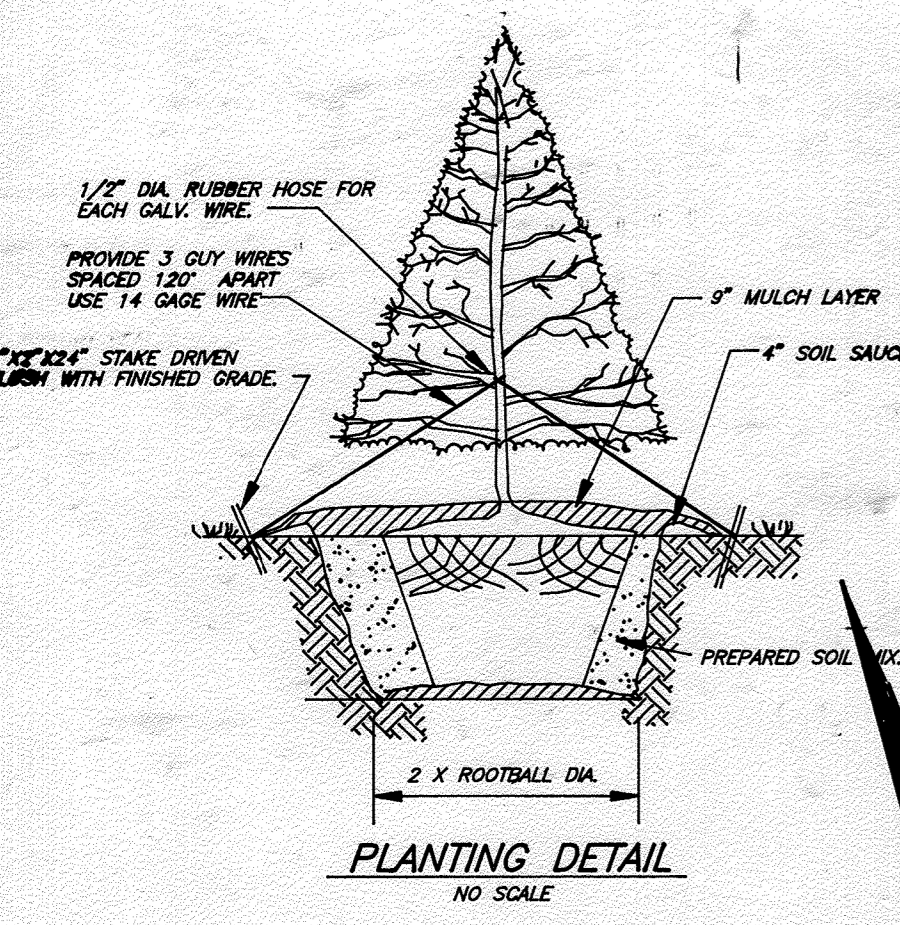
APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
 [Signature]  
 DATE: 1/31/93

CHIEF BUREAU OF ENGINEERING  
 [Signature]  
 DATE: 1-21-93



FOR PARCEL #1 ONLY  
 I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A duly licensed PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.  
 License No. 20135 Exp. 7/29/2022

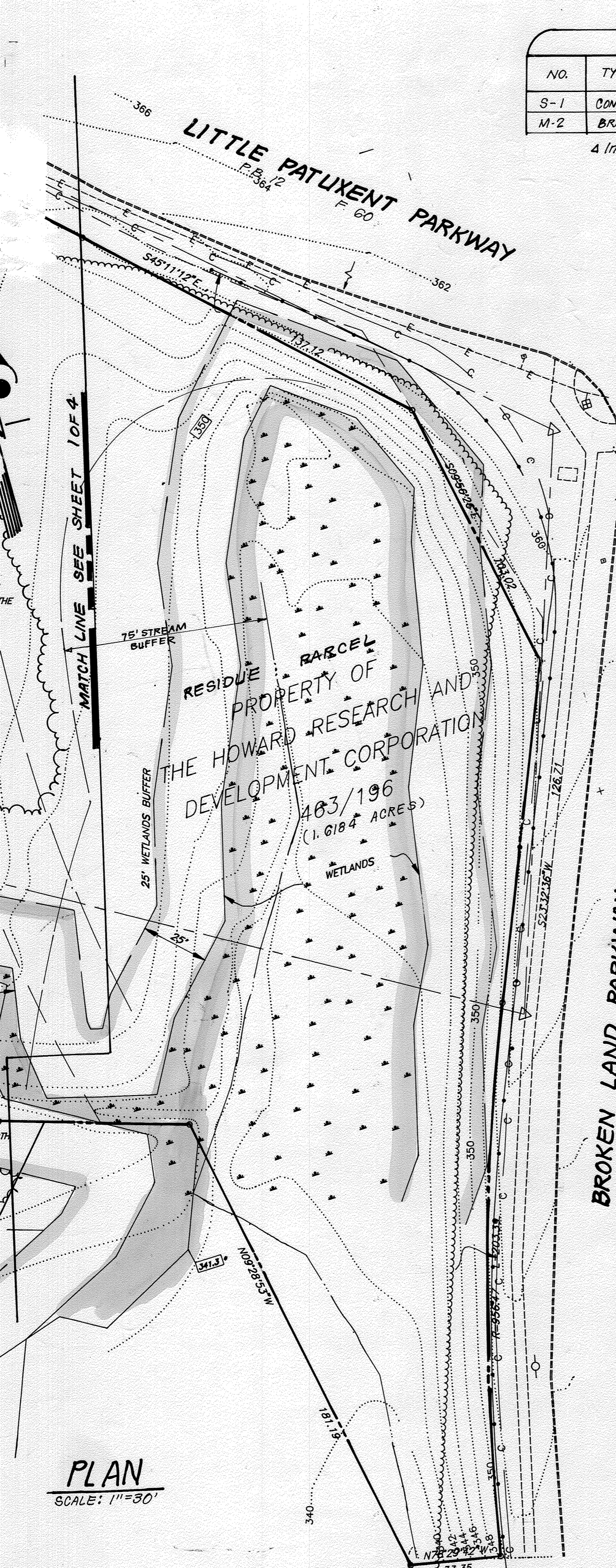
1/2022 UPGRADES PER CONTRACT 44-5132



**UNGRROUTED RIP RAP DETAILS**  
NO SCALE

**APPROVED PLANNING BOARD OF HOWARD COUNTY**  
DATE 11-23-92  
JCS

**APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT**  
COUNTY HEALTH OFFICER 1-29-93  
**APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING**  
DIRECTOR 2/5/93  
CHIEF DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT 2/4/93  
**APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS**  
DIRECTOR 11/21/93  
CHIEF BUREAU OF ENGINEERING 1-21-93



**PLAN**  
SCALE: 1"=30'

**STRUCTURE SCHEDULE**

NO.	TYPE	TOP ELEVATION		REMARKS	LOCATION
		INV. IN	INV. OUT		
S-1	CONC. END SECTION	386.63	386.50	Ho. Co. Std. 8D.5.51	SEE PLAN
M-2	BRICK MANHOLE	387.40	387.00	Ho. Co. Std. G.5.01	SEE PLAN

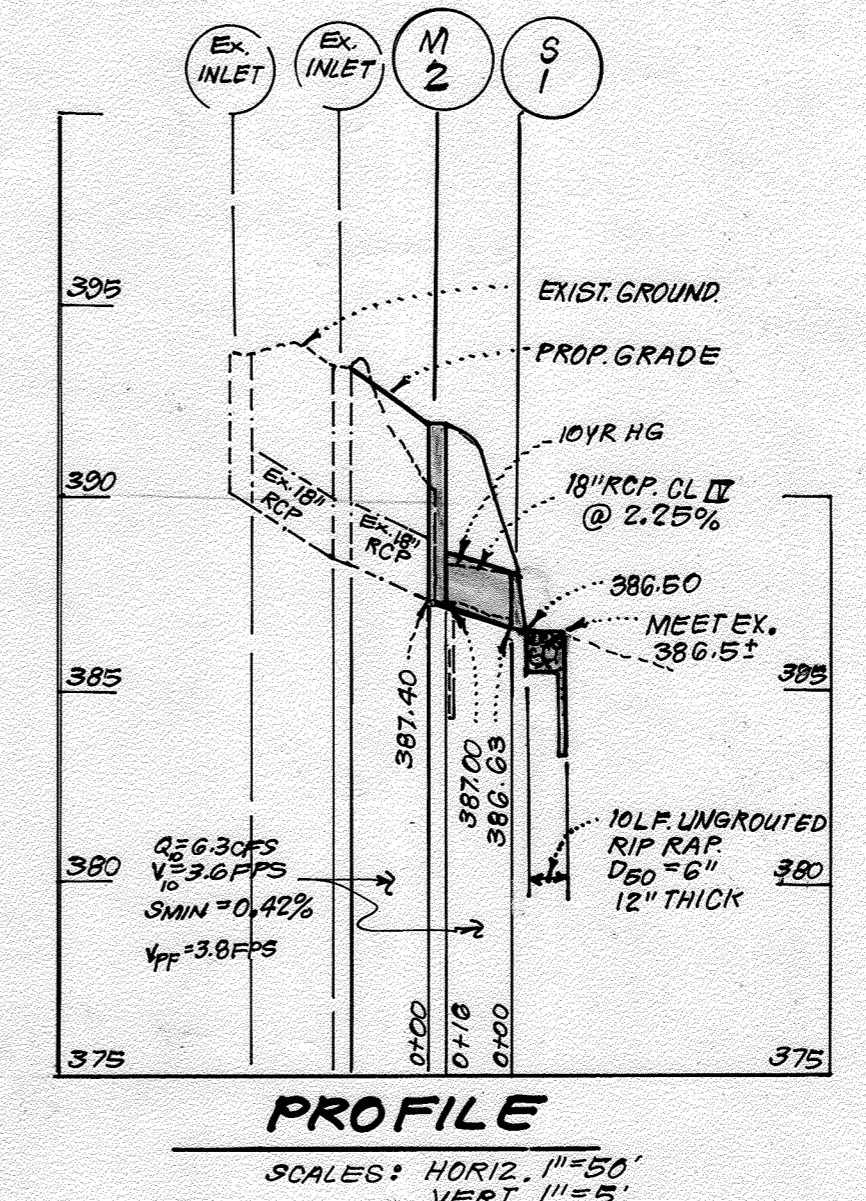
4 Inverts to be fully developed.

**PIPE SCHEDULE**

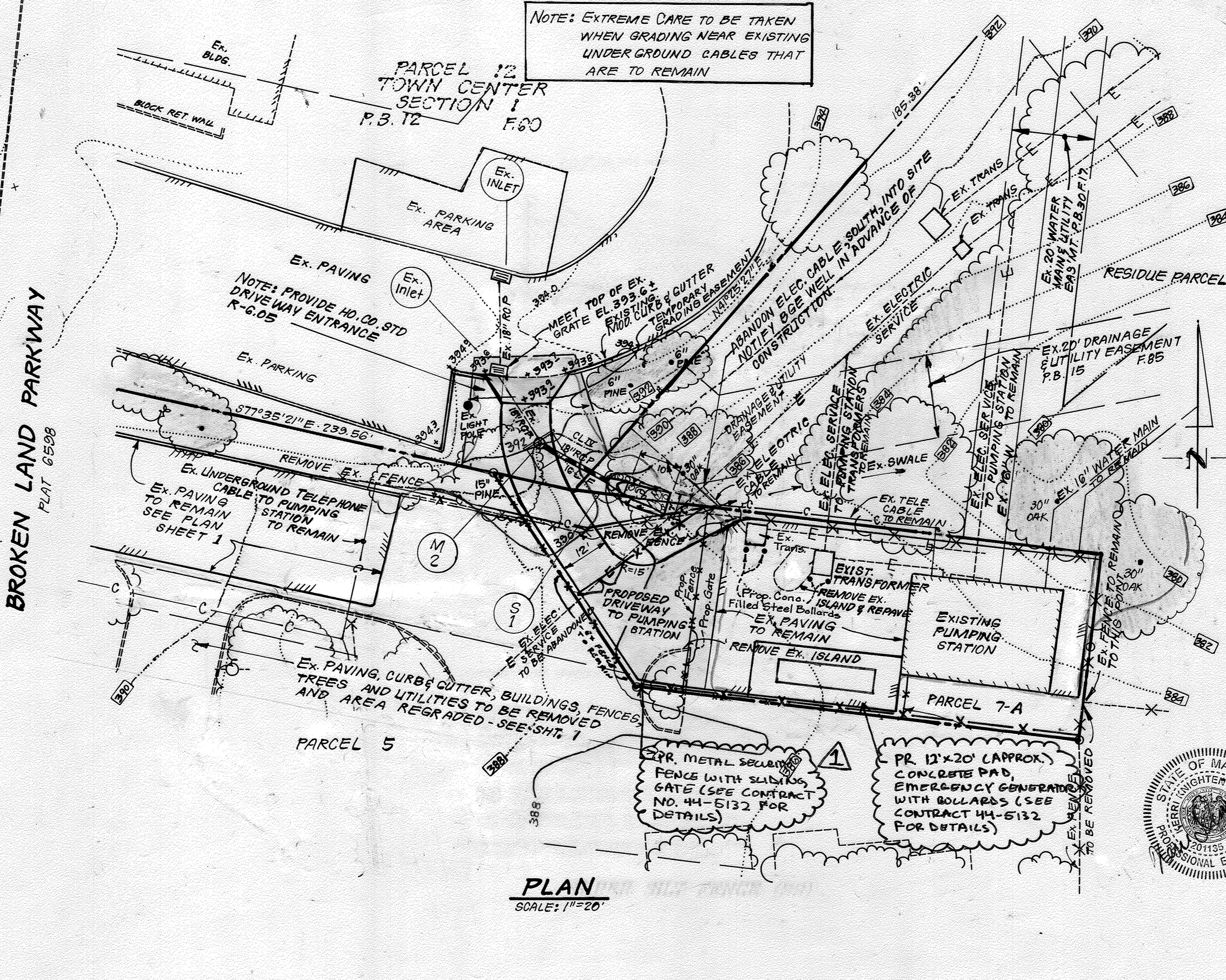
SIZE	TYPE	LENGTH
18"	R.O.P. CL. II	16 LF

1 1/2" Bit. Conc. Surface  
2 1/2" Bit. Conc. Base  
8" Crusher Run Base (2 Courses) or 6" Dense Graded Aggregate  
**ALTERNATE PAVING SECTION FOR PROP. DRIVEWAY TO EX. PUMPING STATION.**  
NO SCALE

1 1/2" Bit. Conc. Surface  
5" Bit. Conc. Base  
**PAVING SECTION FOR PROPOSED DRIVEWAY TO EX. PUMPING STATION.**  
NO SCALE



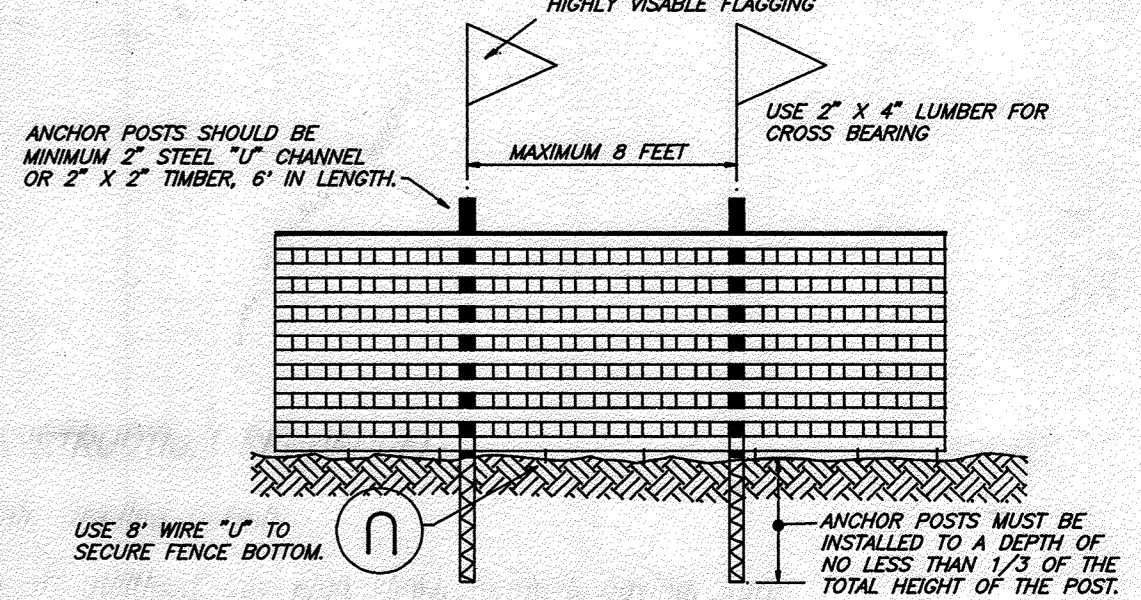
**NOTE: EXTREME CARE TO BE TAKEN WHEN GRADING NEAR EXISTING UNDERGROUND CABLES THAT ARE TO REMAIN**



**PLAN**  
SCALE: 1"=20'

**GENERAL NOTES:**

- Subject property is zoned: NT per 8-2-85 Comprehensive Zoning Plan.
- The total area included in this submission is: 8.666 Ac.
- The total number of Parcels included in this submission are: PARCELS 5, 6, 7A, 7B, RESIDUE PARCEL.
- Improvement to property: Rough Grading, Demolition and New Driveway Entrance to Pumping Station.
- Department of Planning and Zoning reference file numbers are: FDP-61-A-2, F-93-22, WP-93-37
- Utilities shown as existing are taken from a topographic survey provided by Fisher Collins & Carter dated May 21, 1992, actual field survey, and available records.
- Any damage to county owned rights-of-way shall be corrected at the developer's expense.
- Storm water management is provided per: F-85-131.
- The existing topography shown was taken from a topographic survey provided by Fisher Collins and Carter and dated May 21, 1992.
- The coordinates shown hereon are based upon the Howard County Geodetic Control which is based upon the Maryland State Plane Coordinate System - Howard County Monument Nos.: 2640001 and 2640002. (Note: Ho. Co. Mon. 2640001 falls outside V.5 Map).
- The contractor shall notify the Department of Public Works/Bureau of Construction Inspection a (301) 792-7272 at least five (5) working days prior to the start of work.
- The contractor shall notify "Miss Utility" at 1-800-257-7777 at least 48 hours prior to any excavation work.
- No grading, cleaning or construction is permitted within the required wetlands or stream buffers.
- All paving & buildings to be removed within the limits of the disturbed areas unless noted otherwise. All other features such as trees, fences, utilities, storm drains are to be removed within the limits of the disturbed areas unless noted. Coordination with the respective utility companies is imperative.
- EXTREME CARE TO BE TAKEN WHEN GRADING NEAR EXISTING UNDERGROUND CABLES THAT ARE TO REMAIN.
- The purpose of WP-93-37 is to request permission to regrade man-made embankments (slopes of 33%) to create a noise berm. The waiver was Approved Nov. 12, 1992.

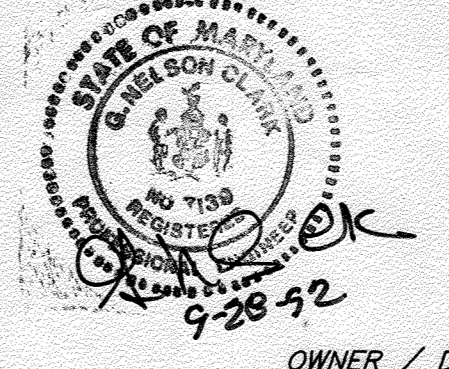


**BLAZE ORANGE PLASTIC MESH TYPICAL TREE PROTECTION FENCE DETAIL**  
NO SCALE

FOR REVISION #1 ONLY I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE #20135 EXP 7/24/2022  
Reviewed for HOWARD S.C.D. Name: James M. Sackett Date: 12/11/92 and meets Technical Requirements of US Soil Conservation Service  
Approved: James M. Sackett

**DEVELOPER'S/BUILDER'S CERTIFICATE**  
I/We certify that all development and construction will be done according to this plan of development and plan for sediment and erosion control and that all responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of the Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project. I also authorize periodic on-site inspection by the Howard Soil Conservation District or their authorized agents, as are deemed necessary.  
Signature: [Signature] Date: 10-2-92

**ENGINEER'S CERTIFICATE**  
I hereby certify that this plan for Sediment and Erosion 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: [Signature] Date: 9-28-92

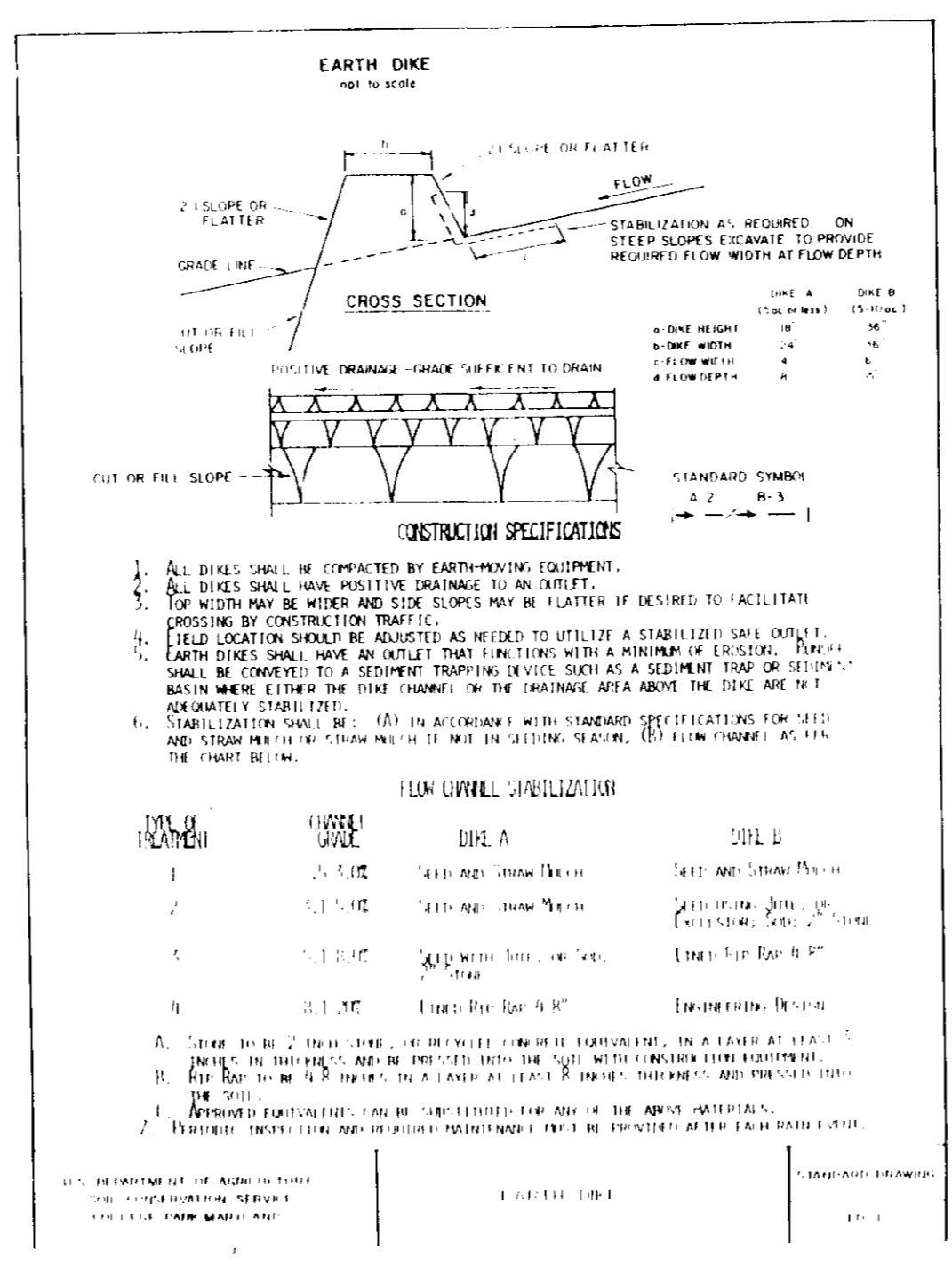
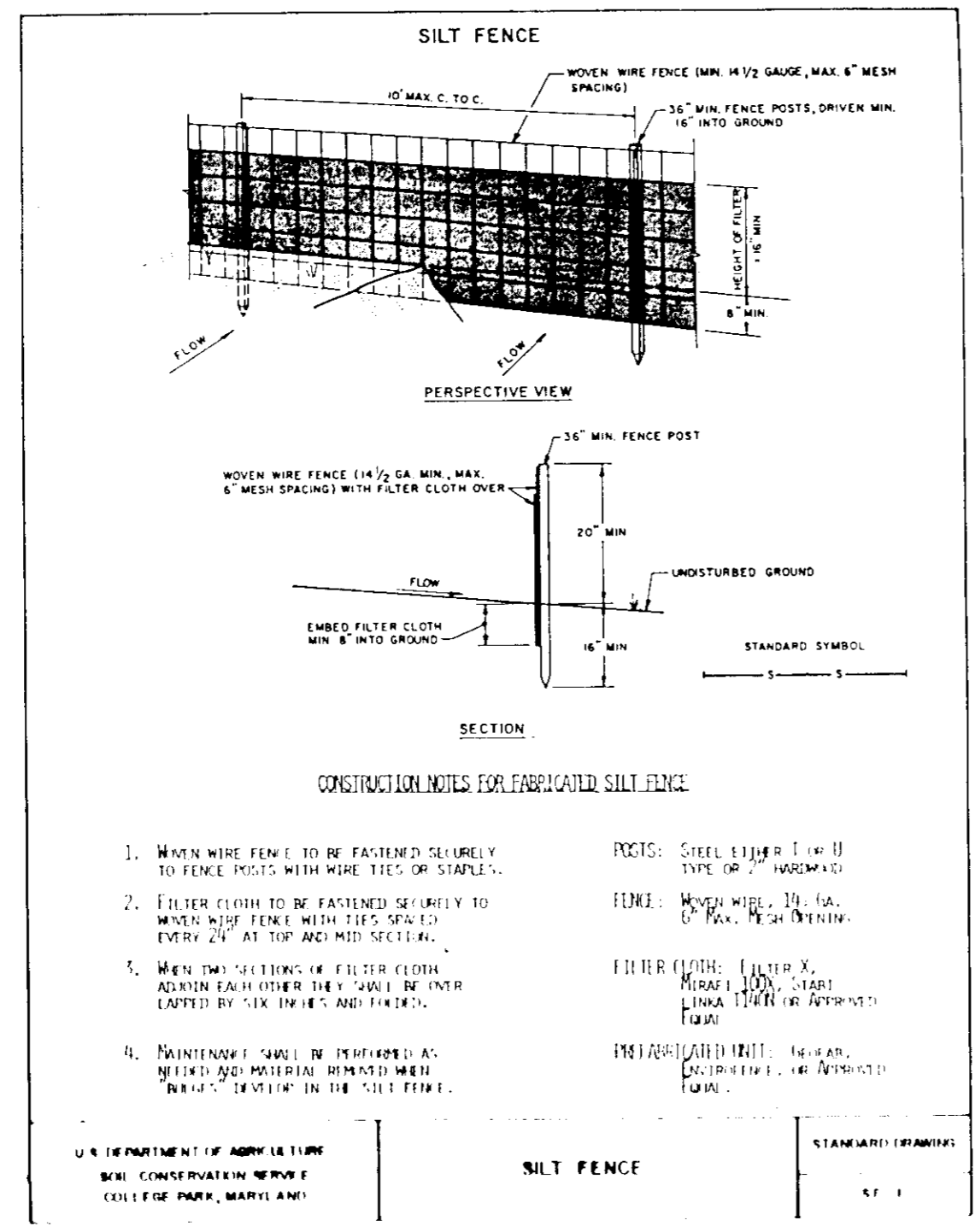
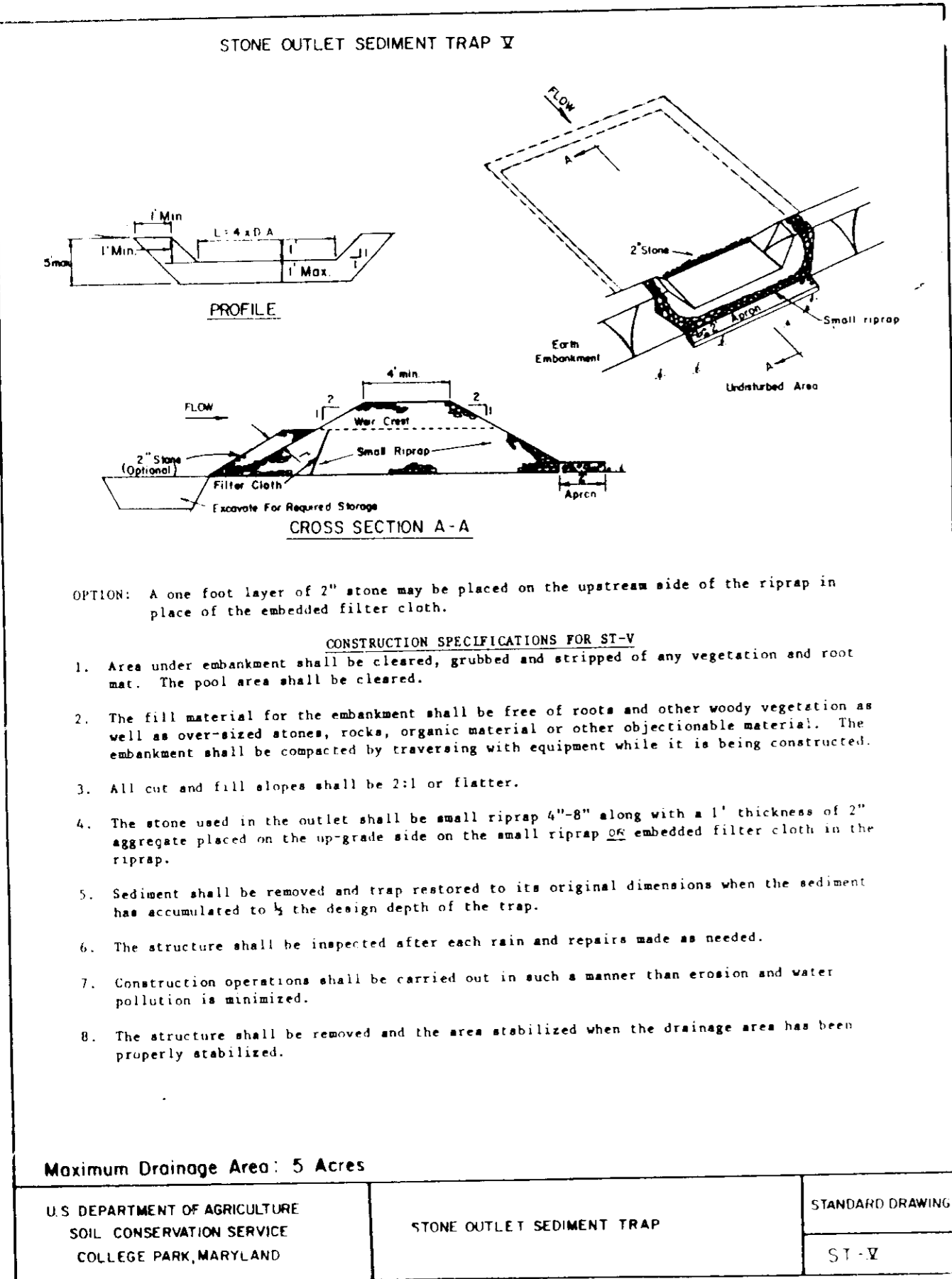


OWNER / DEVELOPER:  
HOWARD RESEARCH AND DEVELOPMENT CORPORATION  
10275 Little Patuxent Parkway  
Columbia, MD. 21044

1/2022 UPGRADES PER CONTRACT 44-6132

**CLARK • FINEFROCK & SACKETT, INC.**  
ENGINEERS • PLANNERS • SURVEYORS  
7135 MINSTREL WAY • COLUMBIA, MD. 21045 • (301) 381-7500 - BALTO. • (301) 621-9100 - WASH.

DESIGNED KJMM	<b>SITE DEVELOPMENT AND SEDIMENT AND EROSION CONTROL PLAN FOR ROUGH GRADING, DEMOLITION AND DRIVEWAY ENTRANCE TO PUMPING STATION PARCELS 5, 6, 7A, 7B AND RESIDUE PARCEL COLUMBIA TOWN CENTER SECTION 3 AREA 2 TAX MAP NO. 36 TAX PARCEL #302 5TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND</b>	SCALE As Shown
DRAWN CADD		DRAWING 2 of 4
CHECKED JLS WHT		JOB NO. 02-133
DATE SEPT, 1992		FILE NO. 02-133-3E
FOR: THE HOWARD RESEARCH AND DEVELOPMENT CORP. 10275 LITTLE PATUXENT PARKWAY COLUMBIA, MARYLAND 21043		



**PERMANENT SEEDING NOTES**

APPLY TO GRAZED OR CLEARED AREAS NOT SUBJECT TO IMMEDIATE FURTHER DISTURBANCE WHERE A PERMANENT LONG-TERM VEGETATIVE COVER IS NEEDED.

**SEEDBED PREPARATION:** Loosen upper three inches of soil by raking, discing or other acceptable means before seeding. If not previously loosened.

**SOIL AMENDMENTS:** In lieu of soil test recommendations, use one of the following schedules:

- 1) Preferred - Apply 2 tons per acre dolomitic limestone (92 lbs/1000 sq ft) and 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 the 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 (25 lbs/1000 sq ft) of weeping lovegrass. During the period of October 15 thru February 28, protect site by: Option (1) 2 tons per acre 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 untreated straw mulch 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.

**TEMPORARY SEEDING NOTES**

**SEEDBED PREPARATION:** Loosen upper three inches of soil by raking, discing or other acceptable means before seeding. If not previously loosened.

**SOIL AMENDMENTS:** Apply 600 lbs per acre 10-10-10 fertilizer (14 lbs/1000 sq ft).

**SEEDING:** For periods March 1 thru April 30 and from August 15 thru November 15, seed with 2 1/2 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 (0.7 lbs/1000 sq ft). For the period November 15 thru February 28, protect site by applying 2 tons per acre of well anchored straw mulch and seed as soon as possible in the spring, or use sod.

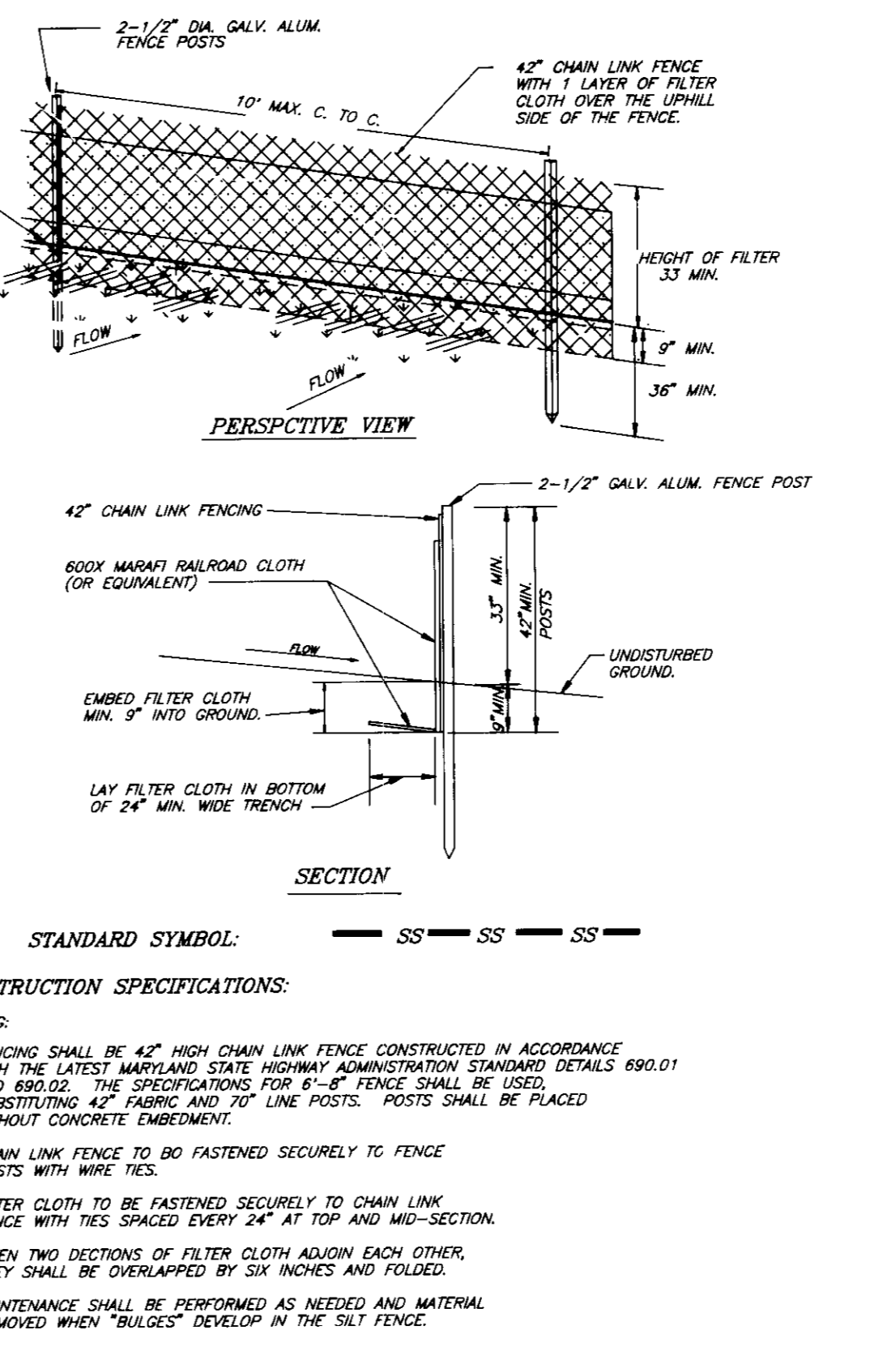
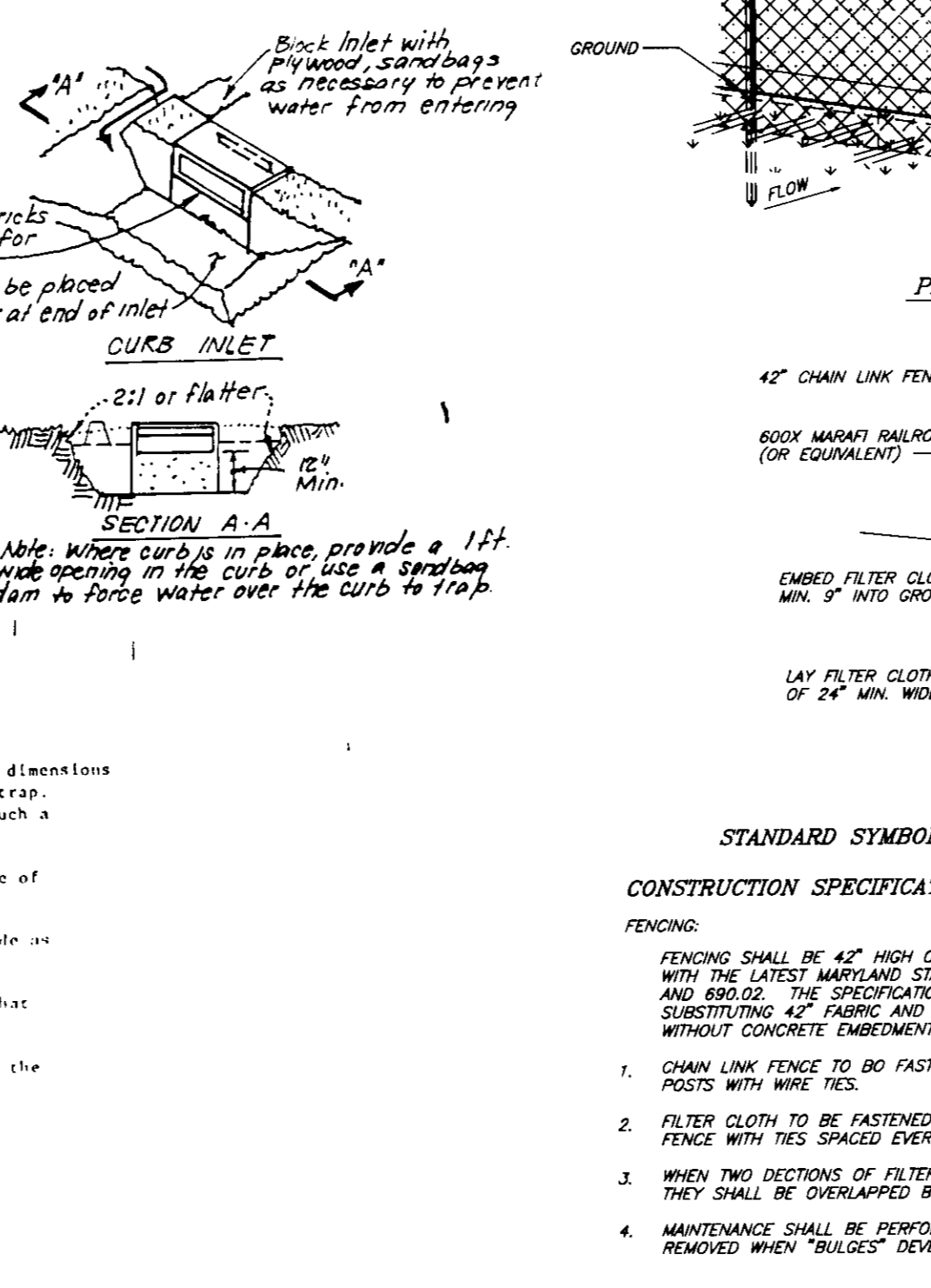
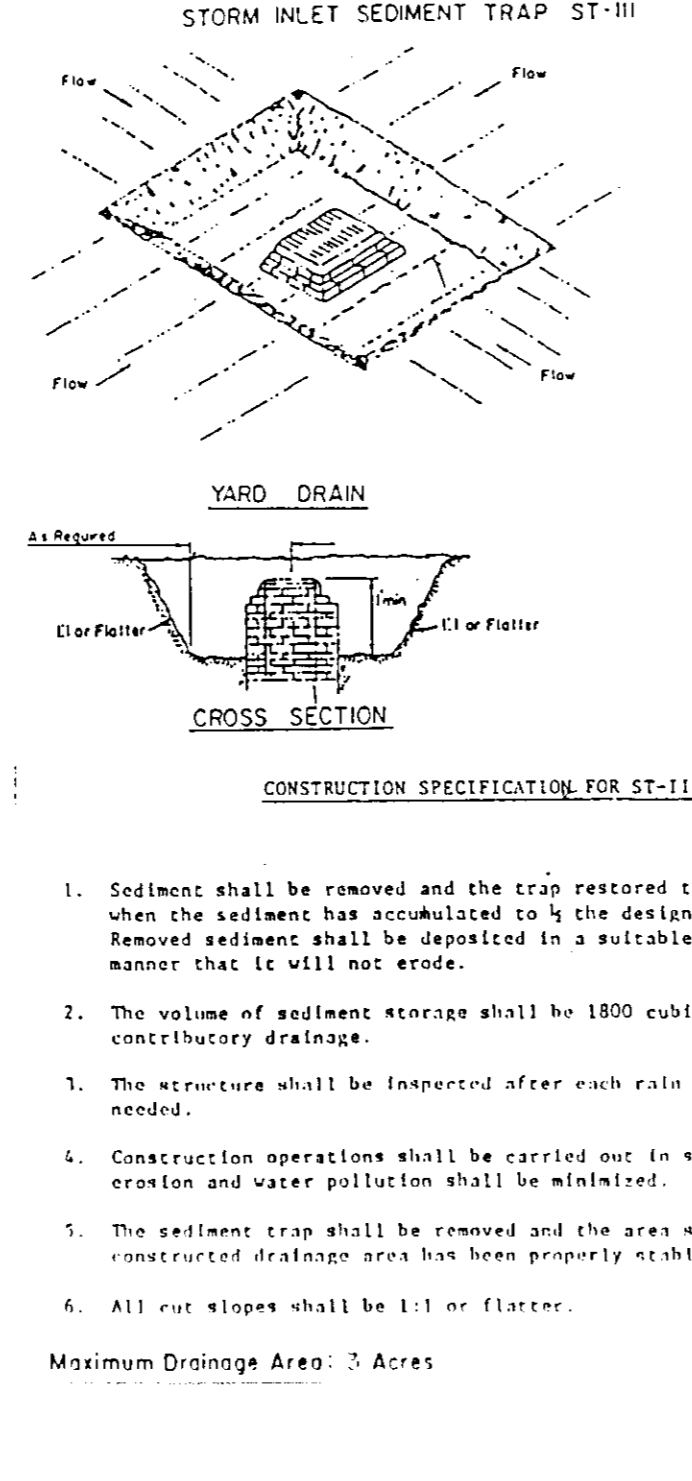
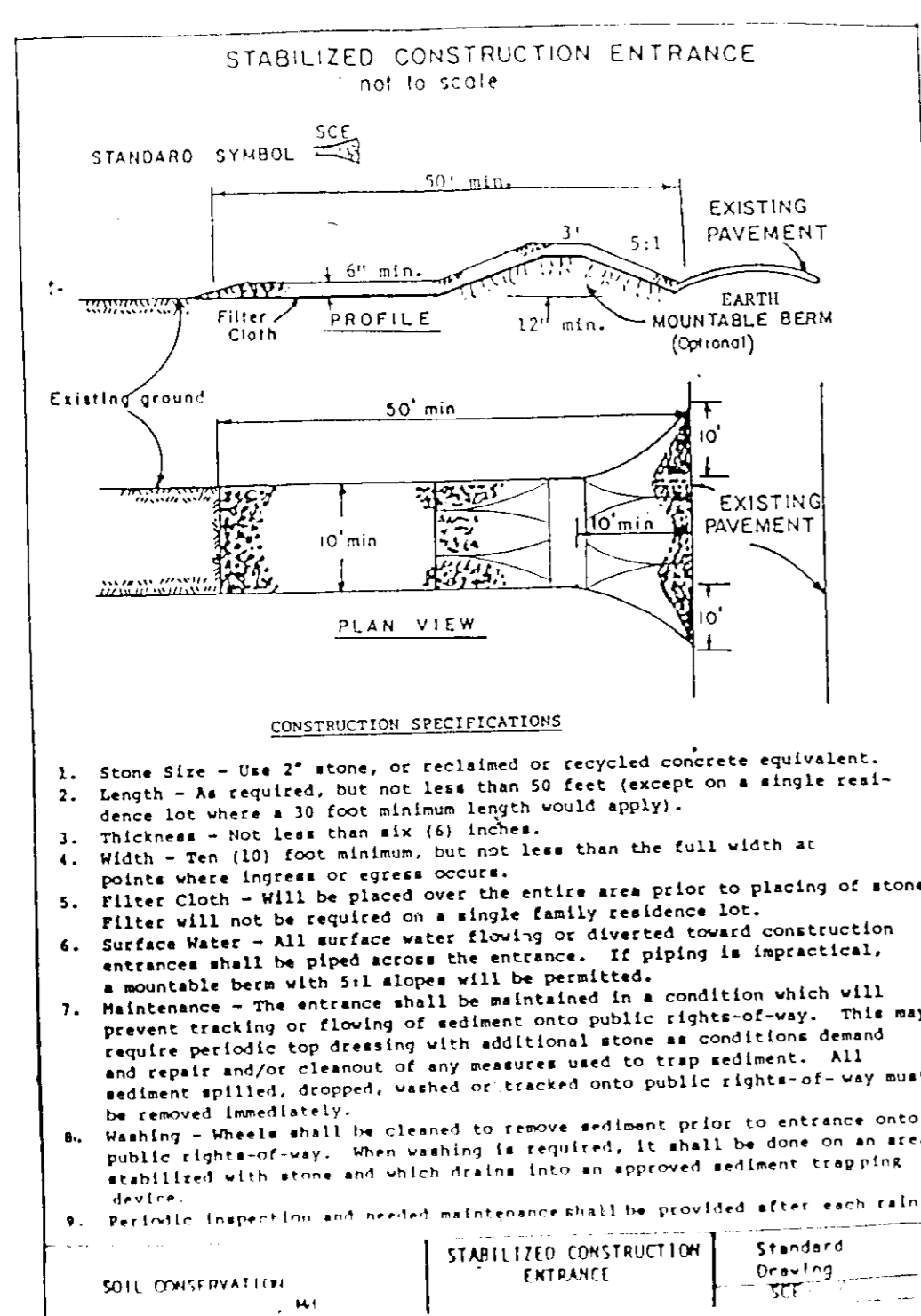
**MULCHING:** Apply 1 1/2 to 2 tons per acre (70 to 90 lbs/1000 sq ft) of untreated straw mulch immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gallons per acre (5 gal/1000 sq ft) of emulsified asphalt on flat areas. On slopes 8 feet or higher,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

REFER TO THE 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR RATE AND METHODS NOT COVERED.

**SEDIMENT AND EROSION CONTROL NOTES**

- A minimum of 24 hours notice must be given to the Howard County Office of Inspection and Permits prior to the start of any construction. (395-2437).
  - 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 redistribution, permanent or temporary stabilization shall be completed within a 7 calendar days for all perimeter sediment control structures, dikes, perimeter slopes and all slopes greater than 3:1. 14 days as to all other disturbed or graded areas on the project site.
  - All sediment traps/basins shown must be fenced and warning signs posted around their perimeters in accordance with Vol. 1, Chapter 12, of the HOWARD COUNTY DESIGN MANUAL, Storm Drainage.
  - All disturbed areas must be stabilized within the time period specified above in accordance with the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for permanent seedings (Sec. 51) and temporary seeding (Sec. 50) and mulching (Sec. 52). Temporary stabilization with mulch alone can only be done when recommended seeding dates do not allow for proper germination and establishment of grasses.
  - All sediment control structures are to remain in place and are to be maintained in operative condition until permission for their removal has been obtained from the Howard County Sediment Control Inspector.
  - SITE ANALYSIS:**

Total Area of Site:	8.666 Ac
Area Disturbed:	6.00 Ac
Area to be seeded or paved:	6.01 Ac
Area to be vegetatively stabilized:	5.29 Ac
Total Cut:	7.70 CY
Total Fill:	13.98 CY
  - Off-site 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 control must be provided, if deemed necessary by the Howard County DFW 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. Other building or grading inspection approvals may not be authorized until this initial approval by the inspection agency is made.
    - Disturbed areas to be constructed or disturbed shall be stabilized.
  - The total amount of silt fence = 700 LF
- \* It is the responsibility of the contractor to identify the spoil/borrow site and notify and gain approval from the sediment control inspector of the site and it's grading permit number at the time of construction.



**CONSTRUCTION SEQUENCE:**

NO.	DESCRIPTION	NO. OF DAYS
1.	Obtain Grading Permit.	7
2.	Install Tree Protection Fence.	7
3.	Cap off utilities. (See plan view). Remove paving, curb and gutter, fences, and conc. slabs as required to install traps 1 and 2. and install temporary earth dike diversion to trap #2.	30
4.	Construct driveway and storm drain at existing pumping station. Stabilize immediately in accordance with Stds. & Specs.	30
5.	Install remaining sediment controls and demolish structures, paving, curb & gutter, fences, etc. within the limits of the disturbed area. Abandon utilities and rough grade site. Temporarily stabilize in accordance with the Stds. and Specs.	120
6.	Permanently stabilize all remaining disturbed areas.	14
7.	Upon approval of the sediment and erosion control inspector remove sediment control devices and stabilize.	7

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

*Joseph L. Boshart* 1-29-93  
COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING

*James J. Hudson* 2/5/93  
DIRECTOR DATE

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

*James J. Hudson* 1-21-93  
DIRECTOR DATE

*William S. Reed* 1-21-93  
CHIEF BUREAU OF ENGINEERING DATE

11-23-92  
845

Reviewed for HOWARD S.G.D. Name  
*James J. Hudson* 1/29/93  
Signature  
US Soil Conservation Service

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

*James J. Hudson* 1/29/93  
Approved

**DEVELOPER'S/BUILDER'S CERTIFICATE**

"I/We certify that all development and construction will be done according to this plan of development and plan for sediment and erosion control and that all responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of the Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project. I also authorize periodic on-site inspection by the Howard Soil Conservation District or their authorized agents, as are deemed necessary."

*James J. Hudson* 10-2-92  
Signature Date

**ENGINEER'S CERTIFICATE**

I hereby certify that this plan for Sediment and Erosion 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.

*James J. Hudson* 9-28-92  
Signature Date

**CLARK • FINEFROCK & SACKETT, INC.**  
ENGINEERS • PLANNERS • SURVEYORS

7135 MINSTREL WAY • COLUMBIA, MD. 21041 • (410) 381-7500 • BALTO. • (410) 621-8000 • WASH.

DESIGNED	KJMM	SCALE	As Shown
DRAWN	CADD	DRAWING	3 of 4
CHECKED	JLS	JOB NO.	92-133
DATE	9/PT. 1992	FILE NO.	92-133-SE

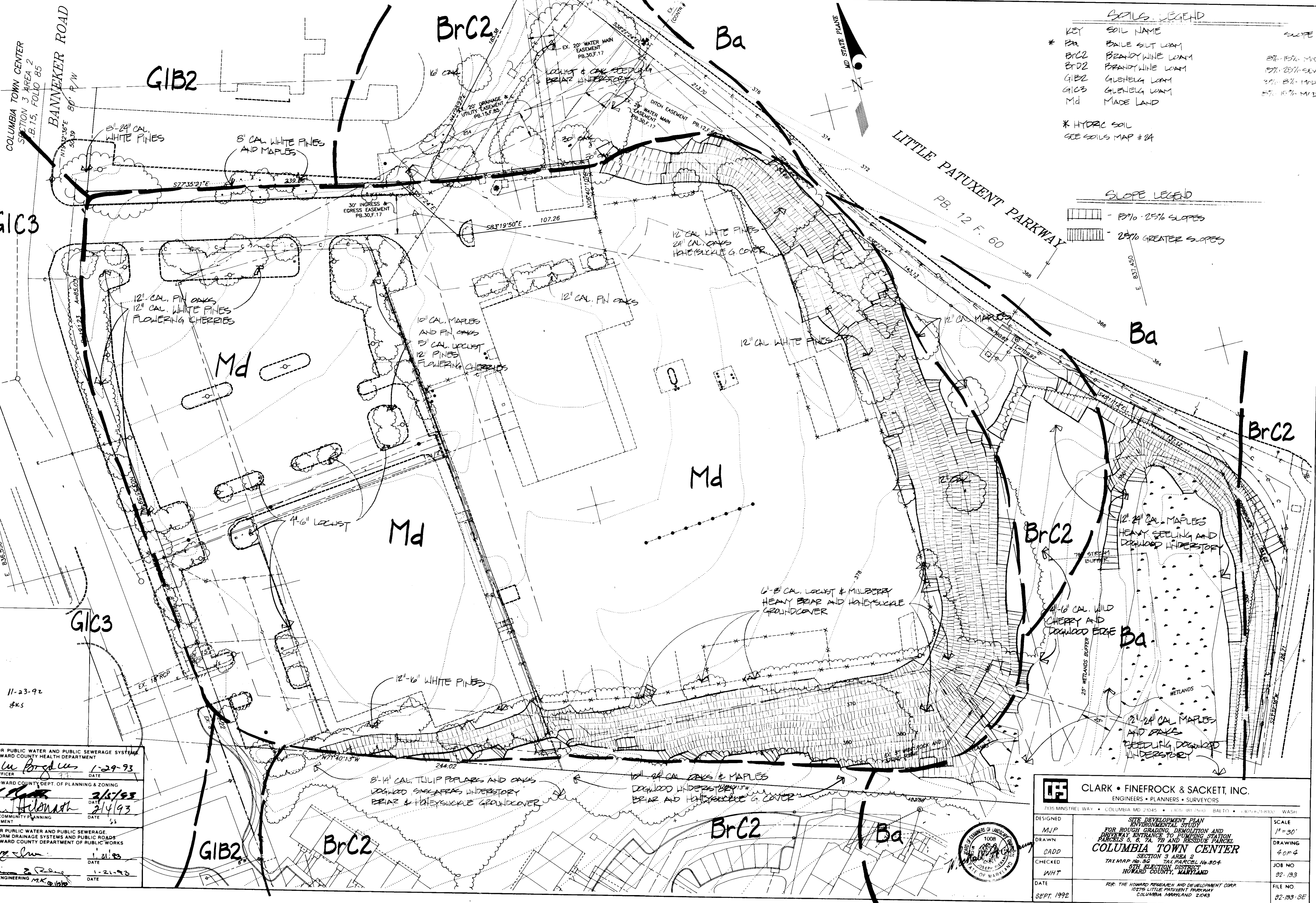
**SITE DEVELOPMENT AND SEDIMENT AND EROSION CONTROL DETAILS FOR ROUGH GRADING, DEMOLITION AND DRIVEWAY ENTRANCE TO PUMPING STATION PARCELS 1, 2, 3 AND RESERVE PARCEL, COLUMBIA TOWN CENTER**

SECTION 3 AREA 2  
TAX MAP No. 36 TAX PARCEL No. 304  
6TH ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND

OWNER / DEVELOPER:  
HOWARD RESEARCH AND DEVELOPMENT CORPORATION  
10275 LITTLE PATUXENT PARKWAY  
Columbia, MD. 21044

FOR: THE HOWARD RESEARCH AND DEVELOPMENT CORP.  
10275 LITTLE PATUXENT PARKWAY  
COLUMBIA, MARYLAND 21043

SDP-93-30



**SOILS LEGEND**

KEY	SOIL NAME	SCOPE
* Ba	BAILE SILT LOAM	87% - 15% M.D.
BrC2	BRANDYWINE LOAM	19% - 25% S.V.
BrD2	BRANDYWINE LOAM	37% - 8% M.D.
GIB2	GLENEGA LOAM	57% - 10% M.D.
GIC3	GLENEGA LOAM	
Md	MADE LAND	

\* HYDRAIC SOIL  
SEE SOILS MAP # 84

**SLOPE LEGEND**

[Hatched pattern]	- 10% - 25% SLOPES
[Dotted pattern]	- 25% GREATER SLOPES

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS  
HOWARD COUNTY HEALTH DEPARTMENT  
*James M. Brodus* 1-29-93  
COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING  
*James M. Brodus* 2/5/93  
DIRECTOR DATE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE  
STORM DRAINAGE SYSTEMS AND PUBLIC ROADS  
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
*James M. Brodus* 1-21-93  
DIRECTOR DATE

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**CLARK • FINEFROCK & SACKETT, INC.**  
ENGINEERS • PLANNERS • SURVEYORS  
7135 MINESTREL WAY • COLUMBIA MD 21046 • (410) 981-2500 • BALTO • (410) 471-1100 • WASH

DESIGNED: MJP  
DRAWN: CADD  
CHECKED: WHT  
DATE: SEPT. 1992

**SITE DEVELOPMENT PLAN ENVIRONMENTAL STUDY FOR ROUGH GRADING, DEMOLITION AND DRIVEWAY ENTRANCE TO PUMPING STATION PARCELS 5, 6, 7A, 7B AND RESIDUE PARCEL COLUMBIA TOWN CENTER SECTION 3 AREA 2 TAX MAP No. 86 TAX PARCEL No. 804 6TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND**

SCALE: 1" = 30'  
DRAWING: 4 OF 4  
JOB NO: 82-193  
FILE NO: 82-193-3E

FOR THE HOWARD RESEARCH AND DEVELOPMENT CORP.  
10275 LITTLE PATUXENT PARKWAY  
COLUMBIA MARYLAND 21043