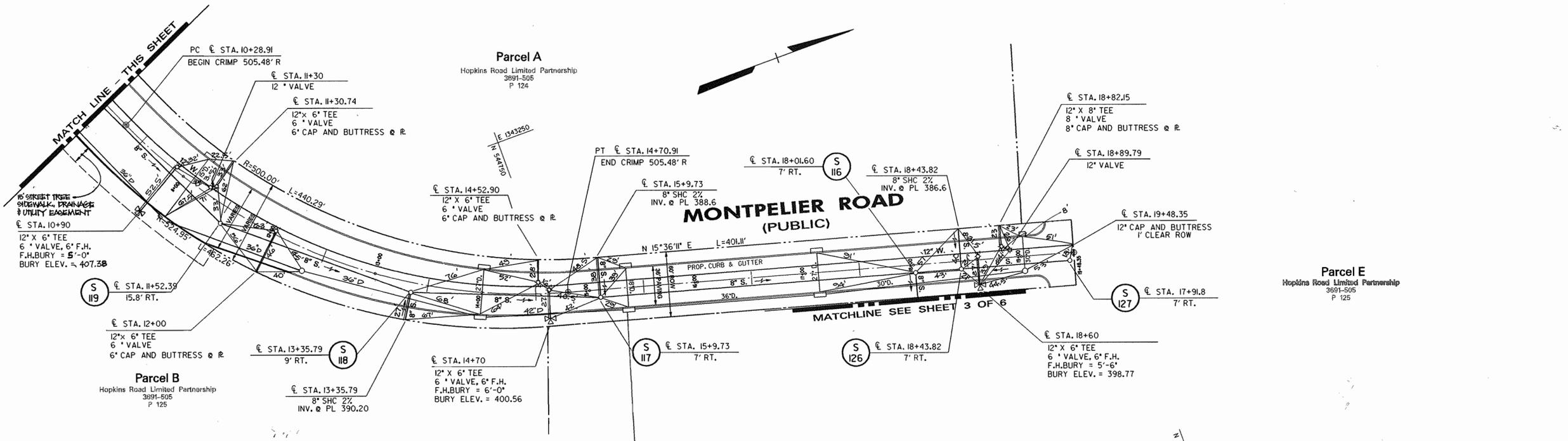


NOTES:  
 1. CONTRACTOR TO TEST PIT BY HAND EXISTING BELL ATLANTIC CONDUIT PRIOR TO CONSTRUCTION.  
 2. ADJUST MANHOLE S-125 AS NECESSARY TO AVOID CONFLICT WITH BELL ATLANTIC CONDUIT.

NOTE:  
 Right-of-Way and pavement width varies from sta. 3+60.36 to 8+43.30 and sta. 10+28.91 to 14+70.91. See F-98-45.  
 Erosion and sediment controls for this sheet are provided by SDP-98-011. They are to be refurbished and maintained to their original condition.



DEPARTMENT OF PUBLIC WORKS  
 HOWARD COUNTY, MARYLAND  
 Chief - Bureau of Utilities - DATE

DEPARTMENT OF PLANNING & ZONING  
 HOWARD COUNTY, MARYLAND  
 Chief - Development Engineering Division - DATE

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



DESIGN BY:	ZAL		
DRAWN BY:	ZAL		
CHECKED BY:	ZAL	3	REVISE MH LOCATIONS AND ADDED SHC'S 12-1-78
	JLS	2	REVISE PAVING WIDTHS AND STORM DRAINAGE 7-29-78
DATE:	ZAL	1	REVISE SHC & FIRE HYDRANT LOCATIONS 5-19-78
Jan. 26, 1998	BY NO.		REVISION
		DATE	

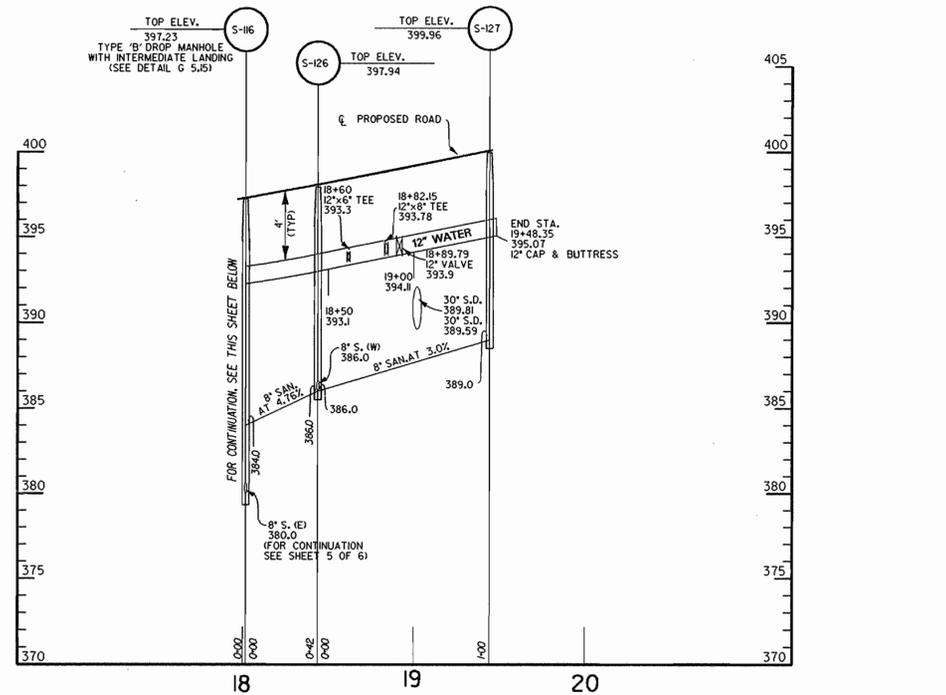
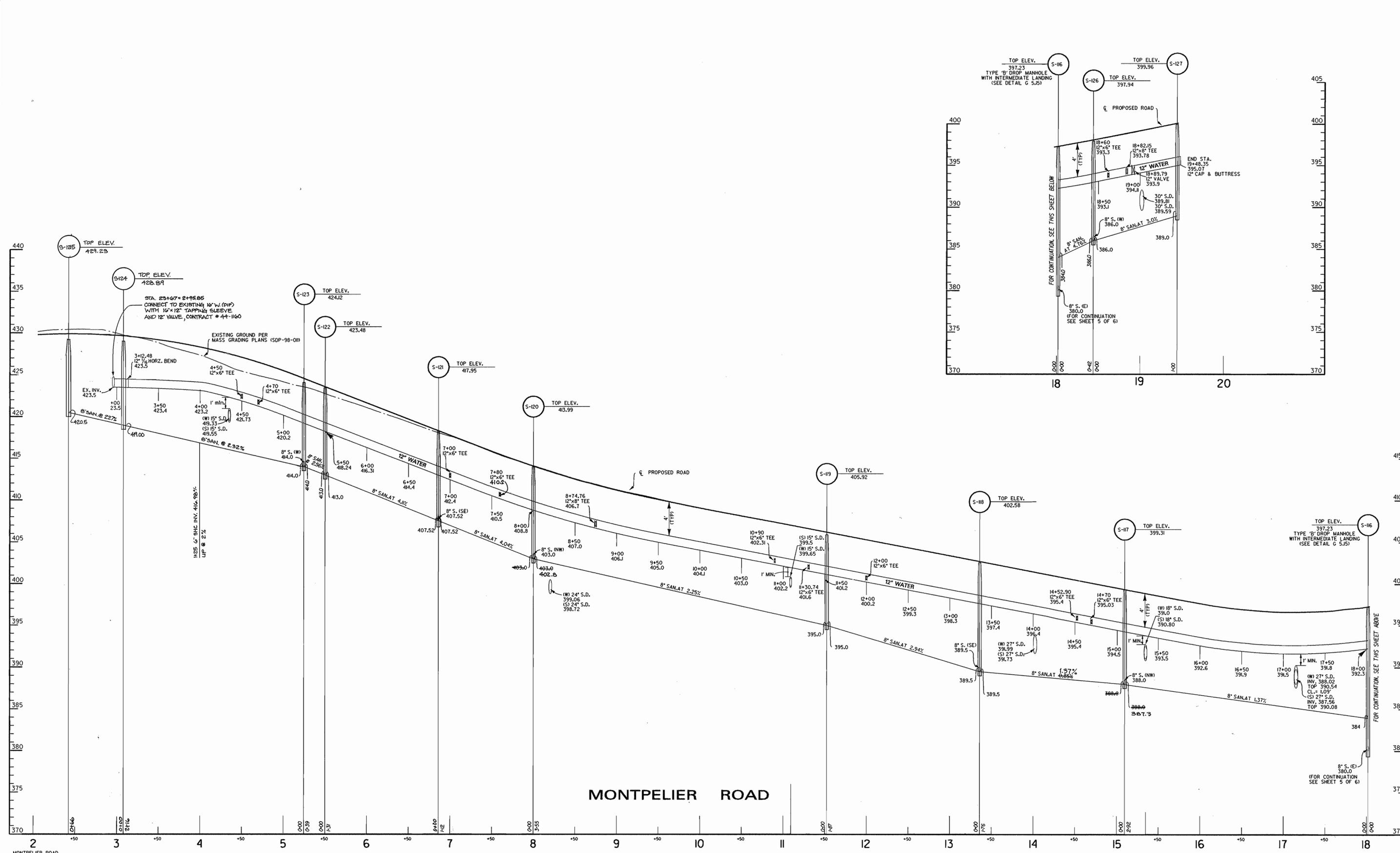
WATER & SEWER PLAN  
 600 SCALE MAP NO. 41 BLOCK NO. 17

SEWER & WATER, AS BUILT

**Montpelier Business Park**  
 HOWARD COUNTY, MARYLAND  
 OWNER/DEVELOPER: HOPKINS ROAD LIMITED PARTNERSHIP  
 9030 RED BRANCH ROAD, SUITE 200 COLUMBIA, MD 21045  
 CONTRACT NO. 34-3654-D

SCALE: 1" = 50'  
 SHEET: 2 OF 7





DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

*Robert Benjamin* 2-18-98  
CHIEF - BUREAU OF UTILITIES - DATE

DEPARTMENT OF PLANNING & ZONING  
HOWARD COUNTY, MARYLAND

*Alan Dammus* 2/18/98  
CHIEF - DEVELOPMENT ENGINEERING DIVISION - DATE

**DMW**  
Daft · McCune · Walker, Inc.

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

200 East Pennsylvania Avenue  
Towson, Maryland 21286  
410 296 3333  
Fax 296 4705

DESIGN BY: ZAL

DRAWN BY: ZAL

CHECKED BY: JLS

DATE: Jan. 26, 1998

REVISIONS:

NO.	REVISION	DATE
2	REVISED MH LOCATIONS AND ADDED SH'S	12-1-98
1	REVISED FIRE HYDRANT TEE LOCATION	5-18-98

WATER AND SEWER PROFILES

600 SCALE MAP NO. 41 BLOCK NO. 17

**Montpelier Business Park**  
HOWARD COUNTY MARYLAND

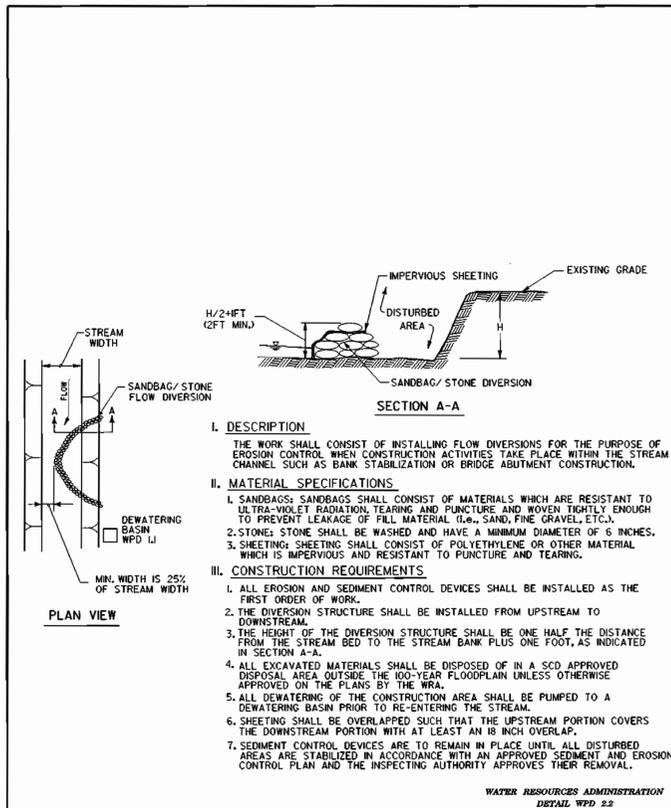
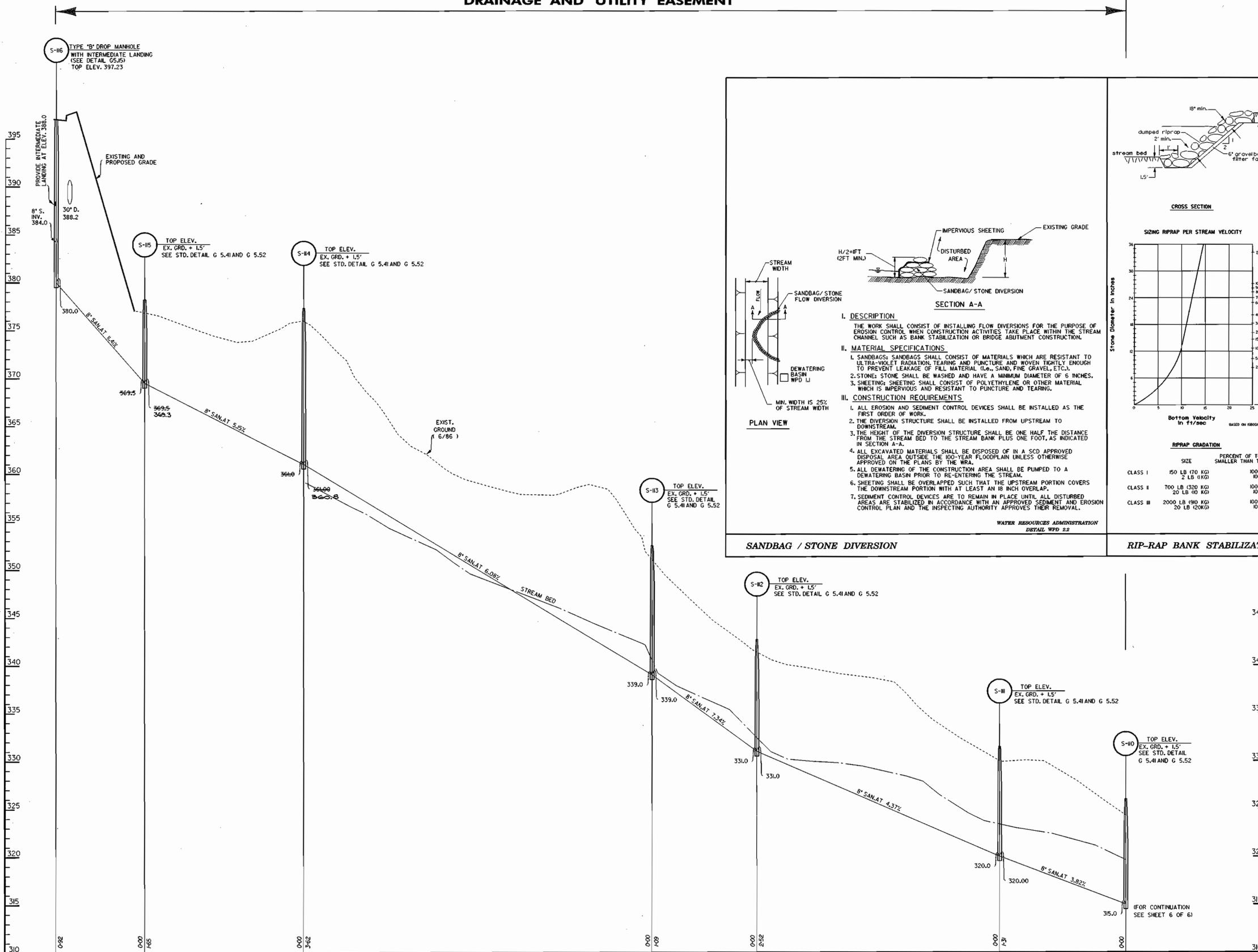
OWNER/DEVELOPER: HOPKINS ROAD LIMITED PARTNERSHIP  
9030 RED BRANCH ROAD, SUITE 200 COLUMBIA, MD 21045  
CONTRACT NO. 34-3654-D

SCALE  
HORZ. 1" = 50'  
VERT. 1" = 8'

SHEET  
4 OF 7

Tue Jan 13 14:28:17 1998 d:\941720\941720.p66

DRAINAGE AND UTILITY EASEMENT



**I. DESCRIPTION**  
 THE WORK SHALL CONSIST OF INSTALLING FLOW DIVERSIONS FOR THE PURPOSE OF EROSION CONTROL WHEN CONSTRUCTION ACTIVITIES TAKE PLACE WITHIN THE STREAM CHANNEL SUCH AS BANK STABILIZATION OR BRIDGE ABUTMENT CONSTRUCTION.

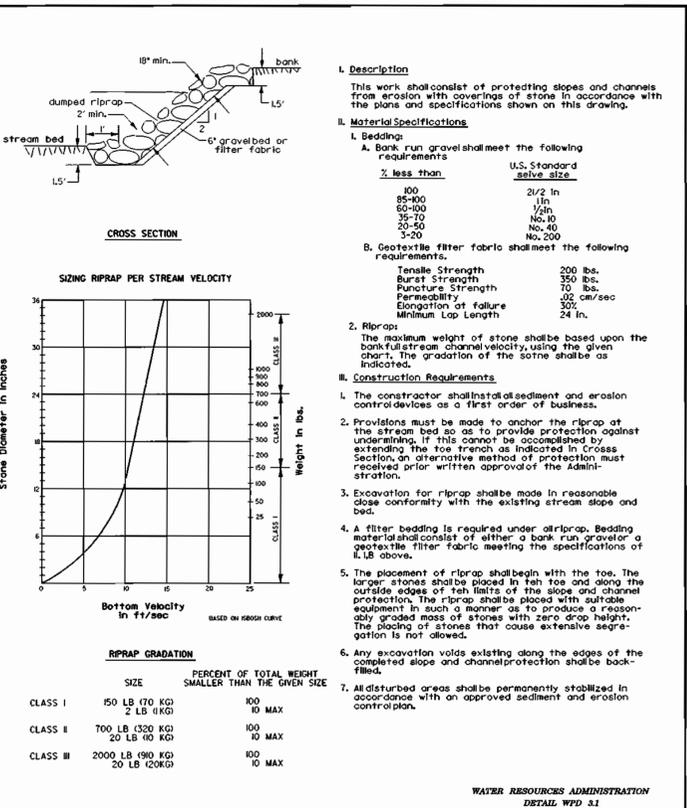
**II. MATERIAL SPECIFICATIONS**

- SANDBAGS: SANDBAGS SHALL CONSIST OF MATERIALS WHICH ARE RESISTANT TO ULTRA-VIOLET RADIATION, TEARING AND PUNCTURE AND WOVEN TIGHTLY ENOUGH TO PREVENT LEAKAGE OF FILL MATERIAL (I.E., SAND, FINE GRAVEL, ETC.).
- STONES: STONE SHALL BE WASHED AND HAVE A MINIMUM DIAMETER OF 6 INCHES.
- SHEETING: SHEETING SHALL CONSIST OF POLYETHYLENE OR OTHER MATERIAL WHICH IS IMPERVIOUS AND RESISTANT TO PUNCTURE AND TEARING.

**III. CONSTRUCTION REQUIREMENTS**

- ALL EROSION AND SEDIMENT CONTROL DEVICES SHALL BE INSTALLED AS THE FIRST ORDER OF WORK.
- THE DIVERSION STRUCTURE SHALL BE INSTALLED FROM UPSTREAM TO DOWNSTREAM.
- THE HEIGHT OF THE DIVERSION STRUCTURE SHALL BE ONE HALF THE DISTANCE FROM THE STREAM BED TO THE STREAM BANK PLUS ONE FOOT, AS INDICATED IN SECTION A-A.
- ALL EXCAVATED MATERIALS SHALL BE DISPOSED OF IN A SCD APPROVED DISPOSAL AREA OUTSIDE THE 100-YEAR FLOODPLAIN UNLESS OTHERWISE APPROVED ON THE PLANS BY THE WRA.
- ALL DEWATERING OF THE CONSTRUCTION AREA SHALL BE PUMPED TO A DEWATERING BASIN PRIOR TO RE-ENTERING THE STREAM.
- SHEETING SHALL BE OVERLAPPED SUCH THAT THE UPSTREAM PORTION COVERS THE DOWNSTREAM PORTION WITH AT LEAST AN 18 INCH OVERLAP.
- SEDIMENT CONTROL DEVICES ARE TO REMAIN IN PLACE UNTIL ALL DISTURBED AREAS ARE STABILIZED IN ACCORDANCE WITH AN APPROVED SEDIMENT AND EROSION CONTROL PLAN AND THE INSPECTING AUTHORITY APPROVES THEIR REMOVAL.

WATER RESOURCES ADMINISTRATION  
 DETAIL WPD 2.2



SANDBAG / STONE DIVERSION

RIP-RAP BANK STABILIZATION

SEWER & WATER AS-BUILTS

DESIGN BY:	ZAL			
DRAWN BY:	KDE			
CHECKED BY:	JLS			
DATE:	Jan, 26, 1998			
BY NO.	REVISION	DATE	600 SCALE MAP NO. 41	BLOCK NO. 17

**DEVELOPER'S CERTIFICATION:**  
 I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN 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/WE AUTHORIZE PERSONS TO SIGN INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT.

Signature: *Edward C. Barnett* DATE: 2/16/98

**ENGINEER'S CERTIFICATION:**  
 I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS PRACTICAL AND FEASIBLE 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: *Edmund F. Haile* DATE: 4/10/98

Signature: *Carol Simmons* DATE: 2/26/98

Signature: *John R. Blanton* DATE: 2/26/98

DEPARTMENT OF PUBLIC WORKS  
 HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING & ZONING  
 HOWARD COUNTY, MARYLAND

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

STATE OF MARYLAND  
 PROFESSIONAL ENGINEER  
 No. 38862

DESIGN BY: ZAL  
 DRAWN BY: KDE  
 CHECKED BY: JLS  
 DATE: Jan, 26, 1998

Signature: *Robert L. Bennett* DATE: 2-18-98  
 CHIEF - BUREAU OF UTILITIES - DATE

Signature: *Edmund F. Haile* DATE: 2/26/98  
 CHIEF - DEVELOPMENT ENGINEERING DIVISION

**Montpelier Business Park**  
 HOWARD COUNTY MARYLAND

OWNER/DEVELOPER: HOPKINS ROAD LIMITED PARTNERSHIP  
 9030 RED BRANCH ROAD, SUITE 200 COLUMBIA, MD 21048

CONTRACT NO. 34-3654-D

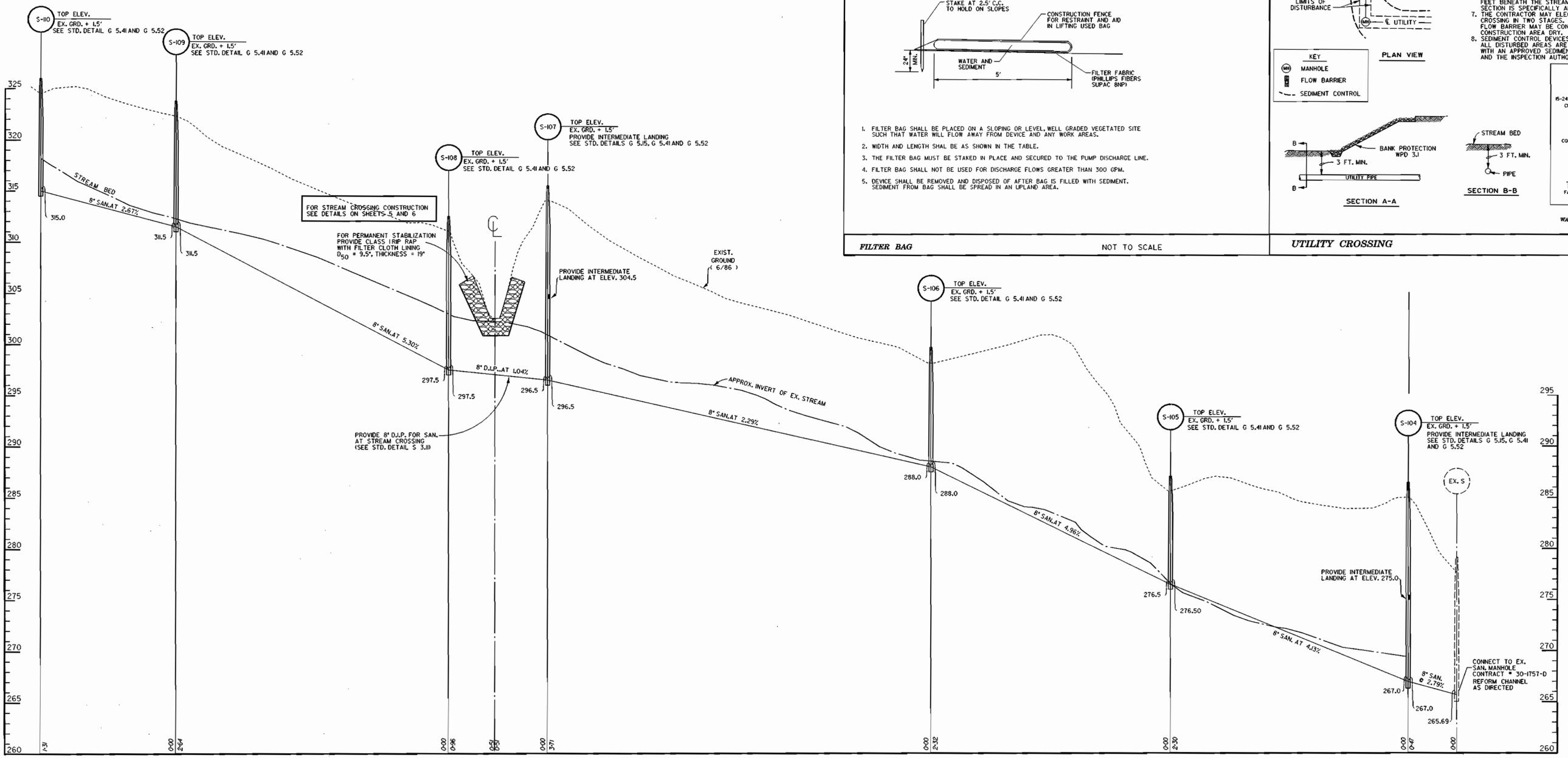
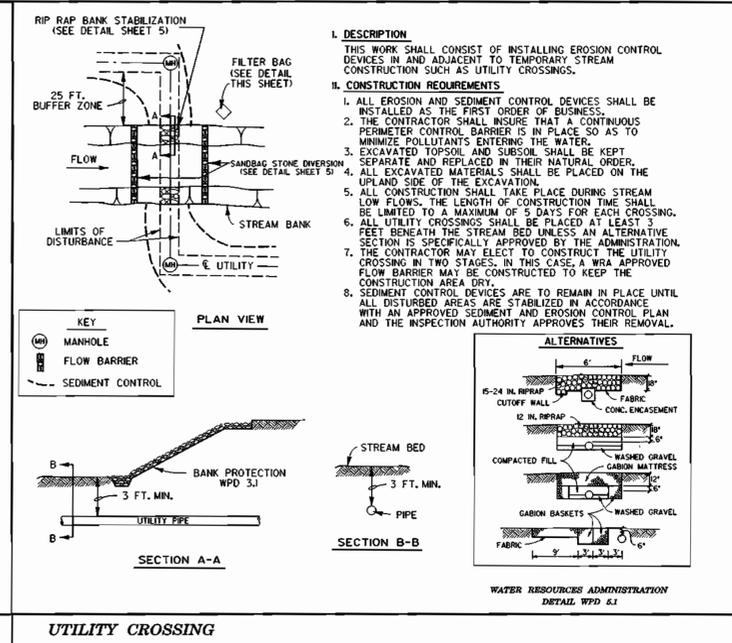
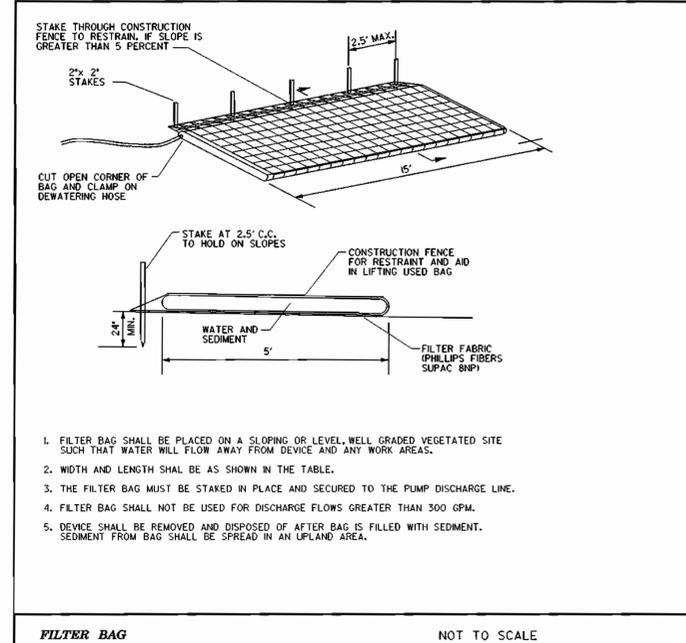
SCALE  
 HORZ. 1" = 60'  
 VERT. 1" = 6'

SHEET  
 5 OF 7

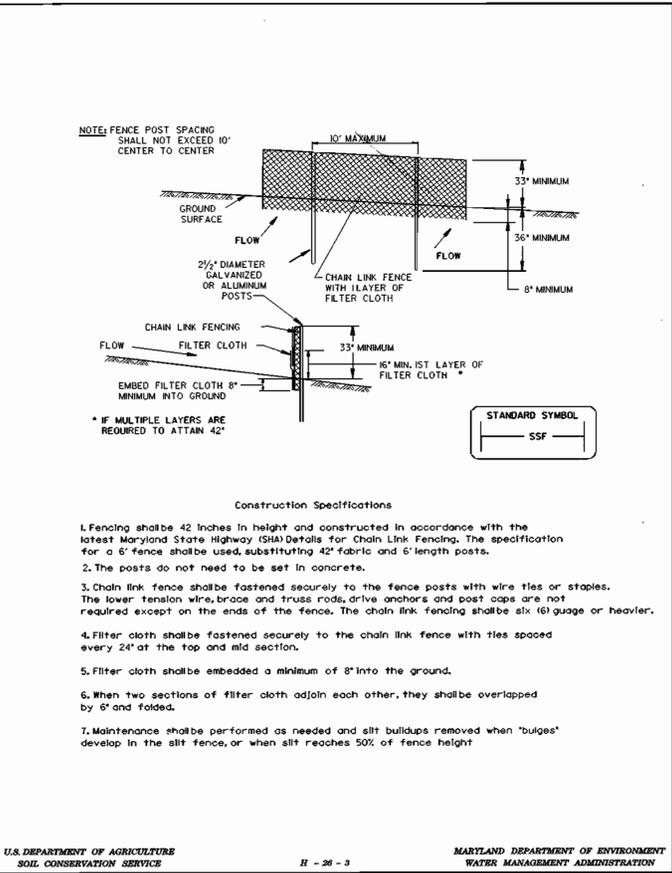
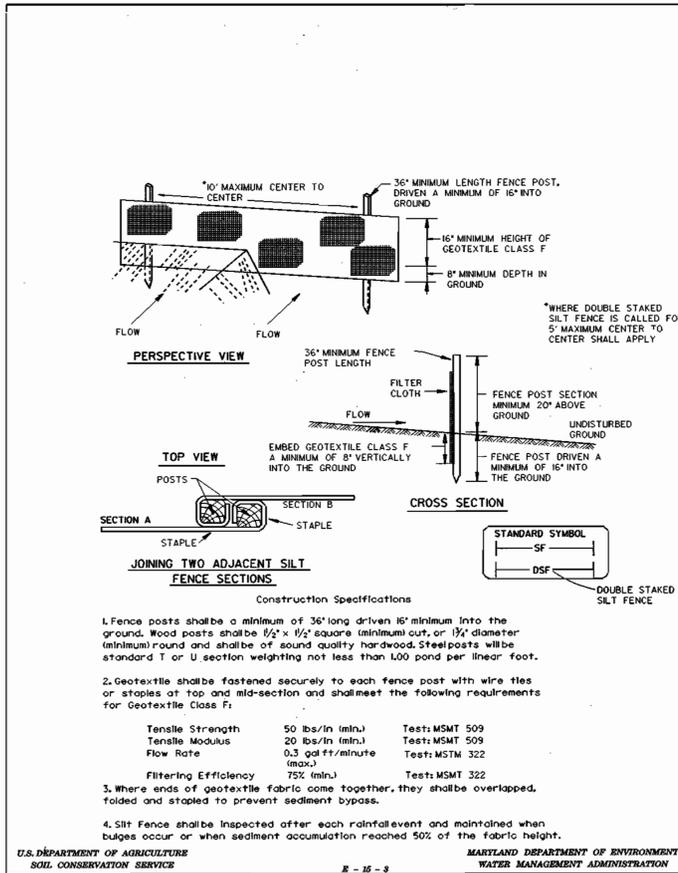
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# DRAINAGE AND UTILITY EASEMENT

<p><b>DEVELOPER'S CERTIFICATION:</b></p> <p>I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BECOMING THE PROJECT. I/ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT.</p> <p>Signature: <i>Harold L. Barrett</i>          Date: 2/10/98</p>	<p><b>ENGINEER'S CERTIFICATION:</b></p> <p>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.</p> <p>Signature: <i>Edmund F. Haile</i>          Date: 1/15/98</p>	<p>REVIEWED FOR HOWARD S.C.D. AND MEETS TECHNICAL REQUIREMENTS</p> <p>U.S. NATURAL RESOURCE CONSERVATION SERVICE DATE</p> <p>THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.</p> <p>HOWARD S.C.D. DATE</p>
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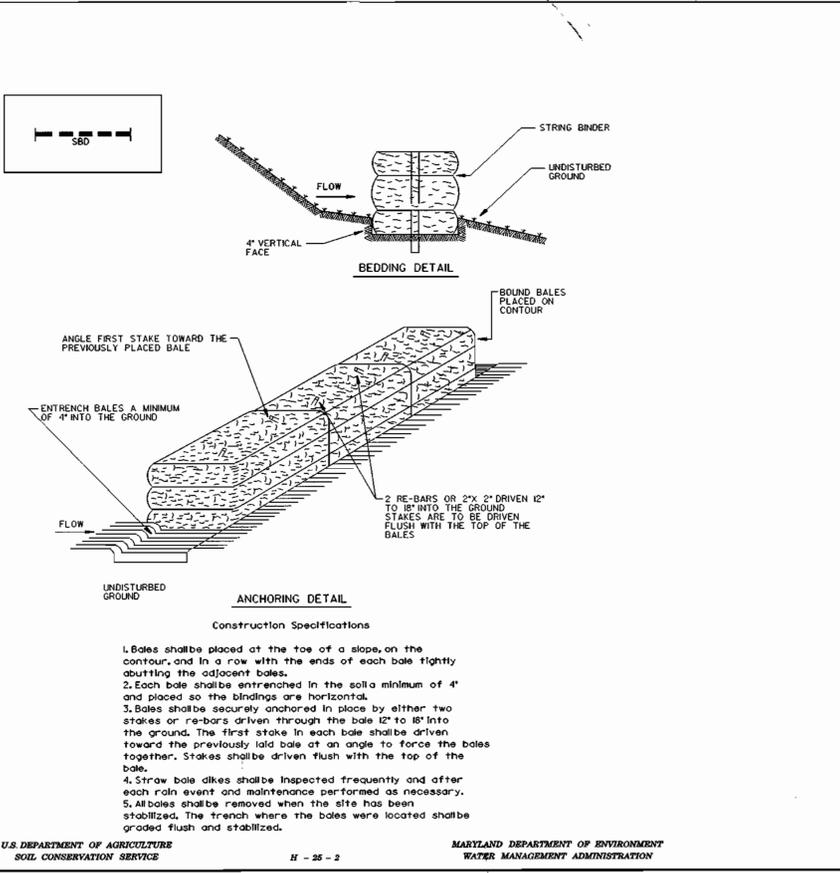
DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND <i>Robert Berman</i> 2-18-98 CHIEF - BUREAU OF UTILITIES - DATE	DEPARTMENT OF PLANNING & ZONING HOWARD COUNTY, MARYLAND <i>John Dammus</i> 2/2/98 CHIEF - DEVELOPMENT ENGINEERING DIVISION - DATE	 <b>Daft · McCune · Walker, Inc.</b> A Team of Land Planners, Landscape Architects, Engineers, Surveyors & Environmental Professionals 200 East Pennsylvania Avenue, Towson, Maryland 21286 410 296 3333 Fax 296 4705		DESIGN BY: ZAL DRAWN BY: KDE CHECKED BY: JLS DATE: Jan. 26, 1998	<b>SEWER PROFILES</b> 600 SCALE MAP NO. 41 BLOCK NO. 17	<b>SEWER &amp; WATER AS-BUILTS</b>  OWNER/DEVELOPER: HOPKINS ROAD LIMITED PARTNERSHIP 9030 RED BRANCH ROAD, SUITE 200 COLUMBIA, MD 21046 CONTRACT NO. 34-3654-D	SCALE HORZ. 1" = 50' VERT. 1" = 5' SHEET 6 OF 7
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**SEDIMENT CONTROL GENERAL NOTES**

- A MINIMUM OF 24 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY OFFICE OF INSPECTIONS, AND PERMITS PRIOR TO THE START OF ANY CONSTRUCTION (992-2437).
- ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
- FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN:
  - SEVEN CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES, DIKES, PERIMETER SLOPES AND ALL SLOPES GREATER THAN 3:1.
  - FOURTEEN DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.
- ALL SEDIMENT TRAPS/BASINS SHOWN MUST BE FENCED AND WARNING SIGNS POSTED AROUND THEIR PERIMETER IN ACCORDANCE WITH VOL. I, 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 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL (PERMANENT SEEDINGS, SOIL TEMPORARY SEEDING, AND MULCHING (SECTION G), 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	104 ACRES
AREA DISTURBED	1.4 ACRES
AREA TO BE ROOFED OR PAVED	0.0 ACRES
AREA TO BE VEGETATIVELY STABILIZED	1.4 ACRES
TOTAL CUT	0 CUBIC YARDS
TOTAL FILL	0 CUBIC YARDS
- 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 DPW SEDIMENT CONTROL INSPECTOR.
- 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.



**SILT FENCE** NOT TO SCALE

**PERMANENT SEEDING NOTES**

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

**SEEDBED PREPARATION:** LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISKING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING, IF NOT PREVIOUSLY LOOSENED.

**SOIL AMENDMENTS:** IN LIEU OF SOIL TEST RECOMMENDATIONS, USE ONE OF THE FOLLOWING SCHEDULES:

- PREFERRED - APPLY 2 TONS PER ACRES DOLOMITIC LIMESTONE (92 LBS/1000 SO.FT.) AND 1000 LBS. PER ACRE 10-10-10 FERTILIZER (14 LBS/1000 SO.FT.) BEFORE SEEDING. HARROW OR DISK INTO UPPER THREE INCHES OF SOIL. AT TIME OF SEEDING, APPLY 400 LBS. PER ACRE 30-0-0 UREAFORM FERTILIZER (9 LBS/1000 SO.FT.)
- ACCEPTABLE - APPLY 2 TONS PER ACRES DOLOMITIC LIMESTONE (92 LBS/1000 SO.FT.) AND 1000 LBS. PER ACRE 10-10-10 FERTILIZER (23 LBS/1000 SO.FT.) BEFORE SEEDING. HARROW OR DISK INTO UPPER THREE INCHES OF SOIL.

**SEEDING -** FOR THE PERIODS MARCH 1 THRU APRIL 30, AND AUGUST 1 THRU OCTOBER 15, SEED WITH 60 LBS. PER ACRE (14 LBS/1000 SO.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 (0.5 LBS/1000 SO.FT.) OF WEEPING LOVEGRASS. DURING THE PERIOD OF OCTOBER 15 THRU FEBRUARY 28, PROTECT SITE BY OPTION (1) - 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING. OPTION (2) - USE SOD. OPTION (3) - SEED WITH 60 LBS./ACRE KENTUCKY 31 TALL FESCUE AND MULCH WITH 2 TONS/ACRE WELL ANCHORED STRAW.

**MULCHING -** APPLY 1/2 TO 2 TONS PER ACRE (70 TO 90 LBS/1000 SO.FT.) OF UNROTTED SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATIONS USING MULCH ANCHORING TOOL OR 218 GALLONS PER ACRE (5 GAL/1000 SO.FT.) OF EMULSIFIED ASPHALT ON FLAT AREAS, ON SLOPES 8 FEET OR HIGHER, USE 348 GALLONS PER ACRE (8 GAL/1000 SO.FT.) FOR ANCHORING.

**MAINTENANCE -** INSPECT ALL SEEDING AREAS AND MAKE NEEDED REPAIRS, REPLACEMENTS AND RESEEDING.

**TEMPORARY SEEDING NOTES**

APPLY TO GRADED OR CLEARED AREAS LIKELY TO BE REDISTURBED WHERE A SHORT-TERM VEGETATIVE COVER IS NEEDED.

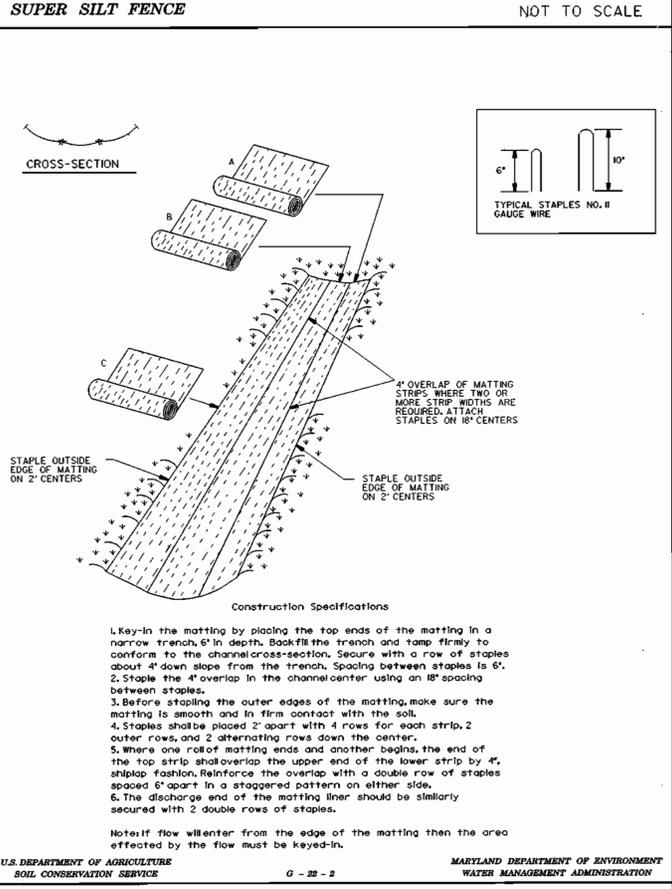
**SEEDBED PREPARATION -** LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISKING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING, IF NOT PREVIOUSLY LOOSENED.

**SOIL AMENDMENTS -** APPLY 600 LBS. PER ACRE 10-10-10 FERTILIZER (14 LBS/1000 SO.FT.)

**SEEDING -** FOR THE PERIODS MARCH 1 THRU APRIL 30, AND AUGUST 15 OCTOBER 15, SEED WITH 2 1/2 BUSHEL PER ACRE OF ANNUAL RYE (3.2 LBS/1000 SO.FT.). FOR THE PERIOD MAY 1 THRU AUGUST 14, SEED WITH 3 LBS PER ACRE OF WEEPING LOVEGRASS (0.7 LBS/1000 SO.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 1/2 TO 2 TONS PER ACRE (70 TO 90 LBS/1000 SO.FT.) OF UNROTTED FREE SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 218 GAL PER ACRE (5 GAL/1000 SO.FT.) OF EMULSIFIED ASPHALT ON FLAT AREAS, ON SLOPES 8 FT. OR HIGHER, USE 348 GAL PER ACRE (8 GAL/1000 SO.FT.) FOR ANCHORING.

REFER TO THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR ADDITIONAL RATES AND METHODS NOT COVERED.



**TOPSOIL SPECIFICATIONS**  
FOR SEDIMENT CONTROL /STABILIZATION PURPOSES

**21.0 STANDARD AND SPECIFICATIONS FOR TOPSOIL**

**Definition**  
Placement of topsoil over a prepared subsoil prior to establishment of permanent vegetation.

**Purpose**  
To provide a suitable soil medium for vegetative growth. Soils of concern have low moisture content, low nutrient levels, low pH, materials toxic to plants, and/or unacceptable soil gradation.

**Conditions Where Practice Applies**

- This practice is limited to areas having 2:1 or flatter slopes where:
  - The texture of the exposed subsoil/parent material is not adequate to produce vegetative growth.
  - The soil material is so shallow that the rooting zone is not deep enough to support plants or furnish continuing supplies of moisture and plant nutrients.
  - The original soil to be vegetated contains material toxic to plant growth.
  - The soil is so acidic that treatment with limestone is not feasible.
- For the purpose of these Standards and Specifications, areas having slopes steeper than 2:1 require special consideration and design for adequate stabilization. Areas having slopes steeper than 2:1 shall have the appropriate stabilization shown on the plans.

**Construction and Material Specifications**

- Topsoil salvaged from the existing site may be used provided that it meets the standards as set forth in these specifications. Typically, the depth of topsoil to be salvaged for a given soil type can be found in the representative soil profile section in the Soil Survey published by USDA-SCS in cooperation with Maryland Agricultural Experimental Station.
- Topsoil Specifications - Soil to be used as topsoil must meet the following:
  - Topsoil shall be a loam, sandy loam, clay loam, silt loam, sandy clay loam, loamy sand. Other soils may be used if recommended by an agronomist or soil scientist and approved by the appropriate approval authority. Regardless, topsoil shall not be mixture of contrasting textured subsoils and shall contain less than 2% by volume of cinders, stones, slags, coarse fragments, roots, rocks, trash, and other materials larger 1 1/2 inch in diameter.
  - Topsoil must be free of plants or plant parts such as Bermuda grass, quackgrass, Johnsongrass, nutgrass, poison ivy, thistle, or others as specified.
  - Where the subsoil is either highly acidic or composed of heavy clays, ground limestone shall be spread at the rate of 4-8 tons/acre (200-400 pounds per 1,000 square feet) prior to the placement of topsoil. Lime shall be distributed uniformly over designated areas and worked into the soil in conjunction with tillage operations as described in the following procedures.
- For sites having disturbed areas under 5 acres:
  - Place topsoil (if required) and apply soil amendments as specified in 20.0 Vegetative Stabilization - Section 1- Vegetative Stabilization Methods and Materials.

**SEDIMENT CONTROL GENERAL NOTES**

**TOPSOIL SPECIFICATIONS**  
FOR SEDIMENT CONTROL /STABILIZATION PURPOSES

- For sites having disturbed areas over 5 acres:
  - On soil meeting Topsoil specifications, obtain test results dictating fertilizer and lime amendments required to bring the soil into compliance with the following:
    - pH for topsoil shall be between 6.0 and 7.5. If the tested soil demonstrates a pH of less than 6.0, sufficient lime shall be prescribed to raise the pH to 6.5 or higher.
    - Organic contents of topsoil shall be not less than 1.5 percent by weight.
    - Topsoil having soluble salt content greater than 500 parts per million shall not be used.
    - No sod or seed shall be placed on soil which has been treated with soil sterilants or chemicals used for weed control until sufficient time has elapsed (14 days min.) to permit dissipation of phytotoxic materials.
  - Note: Topsoil substitutes or amendments, as recommended by a qualified agronomist or soil scientist and approved by the appropriate approval authority, may be used in lieu of natural topsoil.
  - Place topsoil (if required) and apply soil amendments as specified in 20.0 Vegetative Stabilization - Section 1- Vegetative Stabilization Methods and Materials.
  - Topsoil Application
    - When topsoiling, maintain needed erosion and sediment control practices such as diversions, Grade Stabilization Structures, Earth Dikes, Slope Silt Fence and Sediment Traps and Basins.
    - Grades on the areas to be topsoiled, which have been previously established, shall be maintained, about 4" - 8" higher in elevation.
    - Topsoil shall be uniformly distributed in a 4" - 8" layer and lightly compacted to a minimum thickness of 4". Spreading shall be performed in such a manner that sodding or seeding can proceed with a minimum of additional soil preparation and tillage. Any irregularities in the surface resulting from topsoiling or other operations shall be corrected in order to prevent the formation of depressions or water pockets.
    - Topsoil shall not be placed while the topsoil or subsoil is in a frozen or muddy condition, when the subsoil is excessively wet or in a condition that may otherwise be detrimental to proper grading and seedbed preparation.

**Sequence of Construction**

SEQUENCE	NUMBER OF DAYS
1. OBTAIN A GRADING AND WETLAND PERMIT.	7
2. INSTALL EROSION AND SEDIMENT CONTROL MEASURES AND STABILIZE.	21
3. WHILE CONSTRUCTING UTILITIES THE LIMIT-OF-DISTURBANCE SHALL INCLUDE ONLY THREE (3) PIPE LENGTHS OR THAT WHICH WILL BE BACKFILLED AND STABILIZED IN ONE WORK DAY.	60
4. STABILIZE ALL AREAS IN ACCORDANCE WITH STANDARDS AND SPECIFICATIONS.	14
5. UPON APPROVAL OF THE EROSION AND SEDIMENT CONTROL INSPECTOR, REMOVE ALL EROSION AND SEDIMENT CONTROL MEASURES AND STABILIZE.	21

**DEVELOPER'S CERTIFICATION:**  
I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD COUNTY DEPARTMENT OF ENVIRONMENT AND PLANNING.

**ENGINEER'S CERTIFICATION:**  
I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD COUNTY DEPARTMENT OF ENVIRONMENT AND PLANNING.

**REVIEWED FOR HOWARD S.C.D. AND MEETS TECHNICAL REQUIREMENTS**

**SEWER & WATER AS-BUILTS**

**TEMPORARY AND PERMANENT SEEDING NOTES**

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING & ZONING  
HOWARD COUNTY, MARYLAND

Chief - Bureau of Utilities - DATE

Chief - Development Engineering Division - DATE

**EROSION CONTROL MATTING** NOT TO SCALE

**DMW**  
Daft · McCune · Walker, Inc.

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

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DESIGN BY: ZAL  
DRAWN BY: KDE  
CHECKED BY: JLS  
DATE: Jan. 26, 1998

BY	NO.	REVISION	DATE

600 SCALE MAP NO. \_\_\_\_\_ BLOCK NO. \_\_\_\_\_

**Montpelier Business Park**  
HOWARD COUNTY, MARYLAND

OWNER/DEVELOPER: HOPKINS ROAD LIMITED PARTNERSHIP  
9030 RED BRANCH ROAD, SUITE 200 COLUMBIA, MD 21045  
CONTRACT NO. 34-3654-D

SCALE AS SHOWN  
SHEET 7 OF 7

The Jan 13 14:40:33 1998 #1007224(4772)485