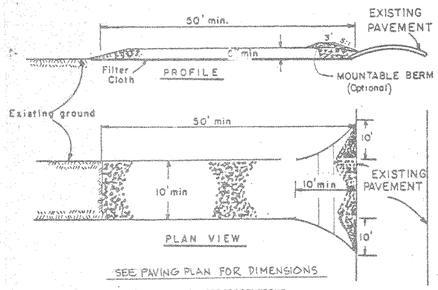
STANDARD SYMBOL SCE



SEE PAVING PLAN FOR DIMENSIONS

CONSTRUCTION SPECIFICATIONS

1. Stone Size - Use 2" stone, or reclaimed or recycled concrete equivalent.
2. Length - As required, but not less than 50 feet (except on a single residence lot where a 30 foot minimum length would apply).
3. Thickness - Not less than six (6) inches.
4. Width - Ten (10) foot minimum, but not less than the full width at points where ingress or egress occurs.
5. Filter Cloth - Will be placed over the entire area prior to placing of stone Filter will not be required on a single family residence lot.
6. Surface Water - All surface water flowing or diverted toward construction entrances shall be piped across the entrance. If piping is impractical, a mountable berm with 5:1 slopes will be permitted.
7. Maintenance - The entrance shall be maintained in a condition which will prevent tracking or flowing of sediment onto public rights-of-way. This may require periodic top dressing with additional stone as conditions demand and repair and/or cleanout of any measures used to trap sediment. All sediment spilled, dropped, washed or tracked onto public rights-of- way must be removed immediately.
8. Washing - Wheels shall be cleaned to remove sediment prior to entrance onto public rights-of-way. When washing is required, it shall be done on an area stabilized with stone and which drains into an approved sediment trapping device.
9. Periodic inspection and needed maintenance shall be provided after each rain.

Criteria for Filter Cloth

The filter cloth shall be a woven or nonwoven fabric consisting only of continuous chain polymeric filaments or yarns of polyester. The fabric shall be inert to commonly encountered chemicals, hydrocarbons, mildew, rot resistant, and conform to the properties of the following table:

Fabric Properties 3/	Heavy Duty Haul Roads Rough Graded	Test Method
Grab Tensile Strength (lbs)	320	ASTM D1682
Elongation at Failure (%)	60	ASTM D1682
Mullen Burst Strength (lbs)	430	ASTM D3786
Puncture Strength (lbs)	125	ASTM D751 modified
Equivalent Opening Size	40 - 80	US Std Sieve CW-02215
Aggregate Depth (in)	10	--

Heavy Duty Road: Are sites with only rough grading, and where most travel would be multi-axle vehicles. Trevira Spunbond 1135, Mirafi 600X, or equivalent.

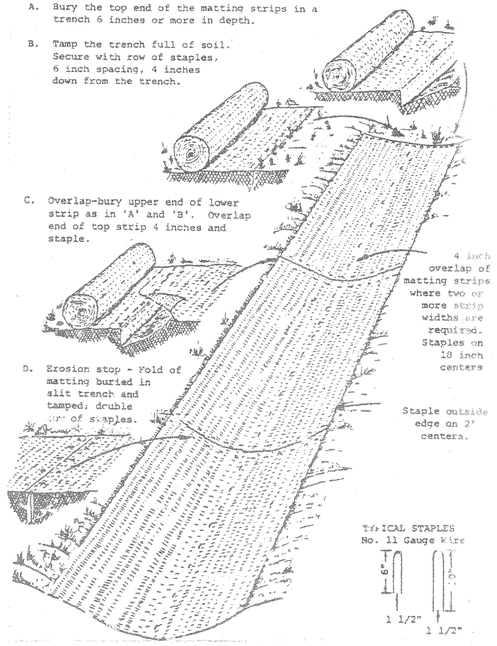
DETAIL FOR STABILIZING WATERWAYS WITH JUTE OR EXCELSION MATTINGS

A. Bury the top end of the matting strips in a trench 6 inches or more in depth.

B. Tamp the trench full of soil. Secure with row of staples, 6 inch spacing, 4 inches down from the trench.

C. Overlap-bury upper end of lower strip as in 'A' and 'B'. Overlap end of top strip 4 inches and staple.

D. Erosion stop - Fold of matting buried in slit trench and tamped; double row of staples.



TYPICAL STAPLES
No. 11 Gauge Wire

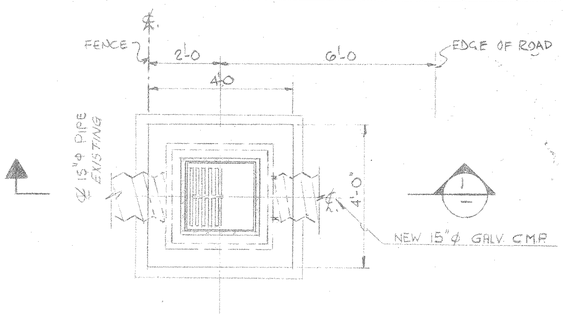
MATERIALS

A. Jute mat shall be cloth of a uniform plain weave of undyed and unbleached single jute yarn, 48 inches in width plus or minus 1 inch and weighing an average of 1.2 pounds per linear yard of cloth with a tolerance of plus or minus 5 percent, with approximately 78 warp ends per width of cloth and 41 weft ends per linear yard of cloth. The yarn shall be of a loosely twisted construction having an average twist of not less than 1.5 turns per inch and shall not vary in thickness by more than one-half its normal diameter.

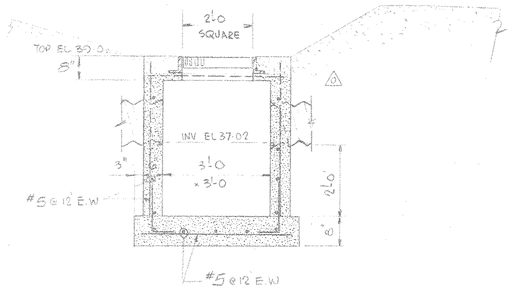
B. Excelsior mat shall be wood excelsior, 48 inches in width plus or minus 1 inch and weighing 0.8 pounds per square yard plus or minus 10 percent. The excelsior material shall be covered with a meshing to facilitate handling and to increase strength.

C. Glass fiber matting of bonded textile glass fibers with an average fiber diameter of 8 to 12 microns, 2 to 4 inch strands of fiber bonded with phenol formaldehyde resin. Mat shall be roll type, water permeable, minimum thickness 1/4 inch, maximum thickness 1/2 inch, density not less than 3 pounds per cubic foot.

D. Staples - staples for anchoring soil stabilizing materials shall be No. 11 gauge wire or heavier. Their length shall be 6 to 10 inches. Use the longer staples on loose, unstable soils.

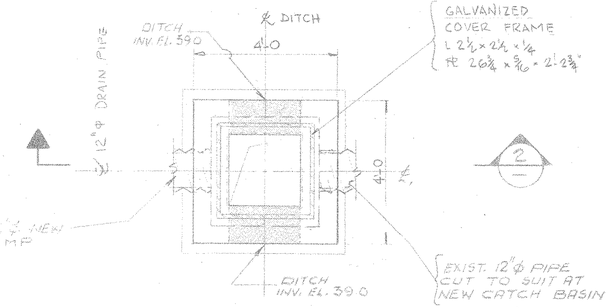


PLAN

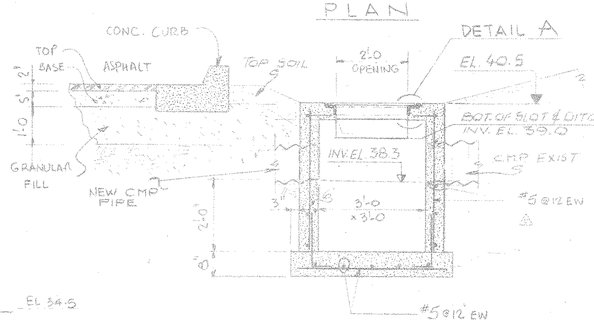


SECTION 1

DETAILS CATCH BASIN 1.
(SEE DWG. Nº 41D2-0004)

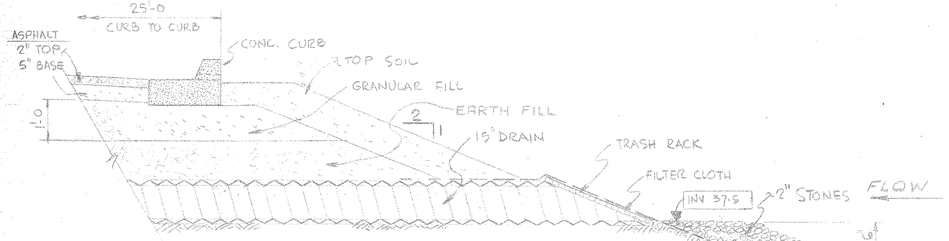


PLAN



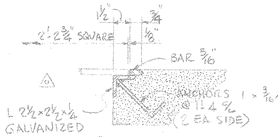
SECTION 2

DETAILS OF CATCH BASIN 2.
(SEE DWG Nº 41D2-0004)



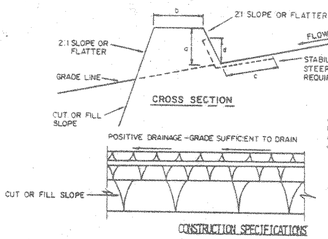
SECTION C
41D2-004

CONCRETE PAVEMENT CONSTRUCTION JOINT



DETAIL A
1½" = 1'-0

EARTH DIKE
not to scale



CROSS SECTION

	DIKE A (5 ac or less)	DIKE B (5-10 ac.)
a-DIKE HEIGHT	18"	36"
b-DIKE WIDTH	24"	36"
c-FLOW WIDTH	4'	6'
d-FLOW DEPTH	8"	8"

CONSTRUCTION SPECIFICATIONS

1. ALL DIKES SHALL BE COMPACTED BY EARTH-MOVING EQUIPMENT.
2. ALL DIKES SHALL HAVE POSITIVE DRAINAGE TO AN OUTLET.
3. TOP WIDTH MAY BE WIDER AND SIDE SLOPES MAY BE FLATTER IF DESIRED TO FACILITATE CROSSING BY CONSTRUCTION TRAFFIC.
4. FIELD LOCATION SHOULD BE ADJUSTED AS NEEDED TO UTILIZE A STABILIZED SAFE OUTLET. RUNOFF SHALL BE CONVEYED TO A SEDIMENT TRAPPING DEVICE SUCH AS A SEDIMENT TRAP OR SEDIMENT BASIN WHERE EITHER THE DIKE CHANNEL OR THE DRAINAGE AREA ABOVE THE DIKE ARE NOT ADEQUATELY STABILIZED.
5. STABILIZATION SHALL BE: (A) IN ACCORDANCE WITH STANDARD SPECIFICATIONS FOR SEED AND STRAW MULCH OR STRAW MULCH IF NOT IN SEEDING SEASON, (B) FLOW CHANNEL AS PER THE CHART BELOW.

FLOW CHANNEL STABILIZATION

TYPE OF TREATMENT	CHANNEL GRADE	DIKE A	DIKE B
1	.5-3.0%	SEED AND STRAW MULCH	SEED AND STRAW MULCH
2	3.1-5.0%	SEED AND STRAW MULCH	SEED USING JUTE, OR EXCELSIOR; SOD; 2" STONE
3	5.1-8.0%	SEED WITH JUTE, OR SOD; 2" STONE	LINED RIP-RAP 4-8"
4	8.1-20%	LINED RIP-RAP 4-8"	ENGINEERING DESIGN

A. STONE TO BE 2 INCH STONE, OR RECYCLED CONCRETE EQUIVALENT, IN A LAYER AT LEAST 3 INCHES IN THICKNESS AND BE PRESSED INTO THE SOIL WITH CONSTRUCTION EQUIPMENT.
B. RIP-RAP TO BE 4-8 INCHES IN A LAYER AT LEAST 8 INCHES THICKNESS AND PRESSED INTO THE SOIL.
C. APPROVED EQUIVALENTS CAN BE SUBSTITUTED FOR ANY OF THE ABOVE MATERIALS.

7. PERIODIC INSPECTION AND REQUIRED MAINTENANCE MUST BE PROVIDED AFTER EACH RAIN EVENT.

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE COLLEGE PARK, MARYLAND	EARTH DIKE	STANDARD DRAWING ED-1

STANDARD RESPONSIBILITY NOTES:

1. DEVELOPER'S CERTIFICATION:

I (WE) CERTIFY THAT:

A) All development and construction will be done in accordance with this Sediment and Erosion Control Plan, and further, authorize the right of entry for periodic on-site evaluation by the State of Maryland, Department of Natural Resources, Water Resources Administration Inspectors.

B) 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.

_____ Date

STANDARD STABILIZATION NOTE:

"Following initial soil disturbance or redisturbance, permanent or temporary stabilization shall be completed within seven calendar days as to the surface of all perimeter controls, dikes, swales, ditches, perimeter slopes, and all slopes greater than 3 horizontal to 1 vertical (3:1), and fourteen days as to all other disturbed or graded areas on the project site."

NOTIFICATION:

(P.E.) The contractor shall notify the Enforcement Division of Maryland Department of Natural Resources Water Resource Administration 5 days prior to starting construction.

TEMPORARY PERMIT NO. 771 TO PRACTICE ENGINEERING IN THE STATE OF MARYLAND

NO.	REVISION	DATE	BY
2	AS-BUILT REVISION SUPERSEDED & REVIEWED DRAWING.	3/4/86	
1	ORIGINAL TRANSFERRED TO C.S.I.	NOV 19/86	K.L.
C	ISSUED FOR CONSTRUCTION	JULY 9/86	
B	ISSUED FOR APPROVAL & PRICING	JUNE 23/86	
P2	NOTE RE: NOTIFICATION ADDED	JUNE 5/86	ASK
P1	REVISION	DATE	BY

W.P. LONDON AND ASSOCIATES LIMITED
CONSULTING ENGINEERS
NIAGARA FALLS

HARFORD COUNTY RESOURCE RECOVERY FACILITY -- HARFORD COUNTY, MARYLAND

PAVING AND DRAINAGE DETAILS

Consumat Systems, Inc.
RICHMOND, VIRGINIA U.S.A.

SCALE ½" = 1'-0	DRAWN ASK	DRAWING NO. 4104-0004-41D2-0004
DATE JUNE 27/86	CHK	
DO NOT SCALE	APPR	SHEET OF