

## SEDIMENT CONTROL NOTES

- 1. A MINIMUM OF 48 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY DEPARTMENT OF INSPECTIONS AND PERMITS PRIOR TO THE START OF ANY CONSTRUCTION (313-1855).
- 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 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL AND EROSION CONTROL,
- 3. FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN: A)7 CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES, DIKES, PERIMETER SLOPES AND ALL SLOPES AND ALL SLOPES GREATER THAN 3:1, B) 14 DAYS AS TO OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.
- 4. ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE IN ACCORDANCE WITH THE 1991 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL AND EROSION CONTROL FOR PERMANENT SEEDINGS (SEC. 51), SOD (SEC. 54), TEMPORARY SEEDING (SEC. 50) AND MULCHING (SEC. 52). TEMPORARY STABILIZATION WITH MULCH ALONG CAN ONLY BE DONE WHEN RECOMMENDED SEEDING DATES DO NOT ALLOW FOR PROPER GERMINATION AND ESTABLISHMENT OF GRASSES.
- 5. 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.

3.0 ACRES

1.9 ACRES

O ACRES

0.4 ACRES

3000 CU. YDS.

O CU. YDS.

6. SITE ANALYSIS:

TOTAL FILL

- TOTAL AREA OF SITE AREA DISTURBED AREA TO BE ROOFED OR PAVED AREA TO BE VEGETATIVELY STABILIZED
- 7. ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF
- 8. ADDITIONAL SEDIMENT CONTROLS MUST BE PROVIDED, IF DEEMED NECESSARY BY THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
- 9. SITE GRADING WILL BEGIN ONLY AFTER ALL PERIMETER SEDIMENT CONTROL MEASURES HAVE BEEN INSTALLED AND ARE IN A FUNCTIONING CONDITION.
- 10. CUT AND FILL QUANTITIES PROVIDED UNDER SITE ANALYSIS DO NOT REPRESENT BID QUANTITIES. THESE QUANTITIES DO NOT DISTINGUISH BETWEEN TOPSOIL, STRUCTURAL FILL OR EMBANKMENT MATERIAL, NOR DO THEY REFLECT CONSIDERATION OF UNDERCUTTING OR REMOVAL OF UNSUITABLE MATERIAL. THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH SITE CONDITIONS WHICH MAY
- 11. ON ALL SITES WITH DISTURBED AREAS IN EXCESS OF 2 AC., 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.
- 12. TRENCHES FOR THE CONSTRUCTION OF UTILITIES IS LIMITED TO THREE PIPE LENGTHS OR THAT WHICH CAN BE BACKFILLED AND STABILIZED WITHIN ONE WORKING DAY, WHICHEVER IS SHORTER.

5. Surface Water — oil surface water flowing to or diverted toward construction

has no drainage to convey a pipe will not be necessary. Pipe should be sized

entrances shall be piped through the entrance, maintaining positive drainage. Pipe

mountable berm with 5:1 slopes and a minimum of 5" of stone over the pipe. Pipe has

to be sized according to the drainage. When the SCE is located at a high spot and

according to the amount of runoff to be conveyed. A 6" minimum will be required.

6. Location — A stabilized construction entrance shall be located at every point

Construction Specification

1. Length - minimum of 50<sup>st</sup> ( 30' for single residence lot).

residences to use geotextile.

where construction traffic enters or leaves a construction site. Vehicles leaving

the site must travel over the entire length of the stabilized construction entrance.

2. Width — 10' minimum, should be flared at the existing road to provide a turning

3. Geotextile fabric (filter cloth) shall be placed over the existing ground prior to placing stone. \*\* The plan approval authority may not require single family

4. Stone — crushed aggregate (2" to 3"), or reclaimed or recycled concrete

equivalent shall be placed at least 5" deep over the length and width of the

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installed through the stabilized construction entrance shall be protected with a

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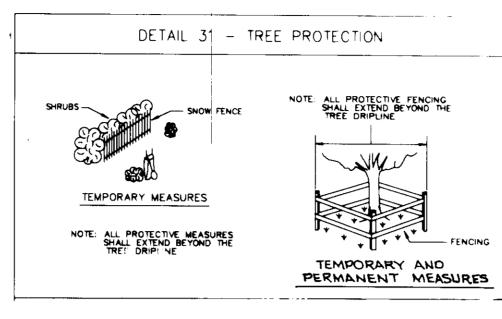
SPOIL MATERIAL TO BE HAULED TO THE ALPHA RIDGE LANDFILL

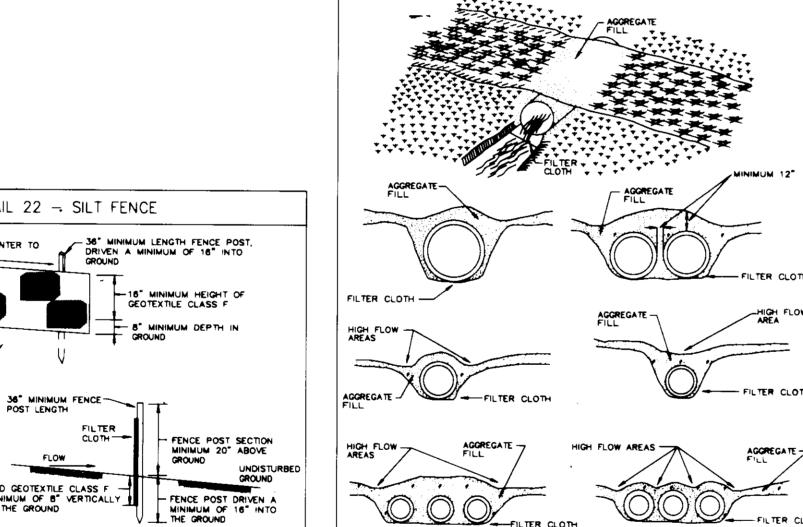
## SEQUENCE OF CONSTRUCTION

- 1. OBTAIN A GRADING PERMIT AND OTHER NECESSARY PERMITS PRIOR TO BEGINNING ONSTRUCTION. ALL WORK SHALL CONFORM TO THE 1994 MD STANDARDS AND SPECIFICATIONS FOR SOIL BROSION AND SEDIMENT CONTROL
- INSTALL PERIMETER CONTROLS STABILIZED CONSTRUCTION ENTRANCE & TEMPORARY ACCESS CULVERT, TEMPORARY 24" CMP (UNDER PEDESTRIAN PATH) SUPER DIVERSION FENCE DEWATERING BASINS, SILT FENCE, AND TREE PROTECTIVE
- 3. PLUG 6" CMP POND INFLOW. (1 DAY)
- DEWATER POND, PUMP WATER TO DEWATERING BASIN (ALTERNATE DEWATERING BASINS TO ALLOW FOR CLEANING). (1 WEEK)
- 5. BEGIN POND EXCAVATION. (3 WEEKS)
- REMOVE EXISTING INFLOW HEADWALL AND OUTFLOW WEIR, 30' OF EXISTING INFLOW

INSTALL INFLOW 8" DIP, HEADWALL, 8" VALVE (KEEP VALVE CLOSED DURING

- INSTALL WEIR WALL OUTFALL AND REPAIR RIPRAP OUTFALL DITCH (DITCE TO BE REPAIRED DURING DRY WEATHER FORECAST). DISTURB ONLY THAT DITCH FORTION THAT CAN BE COMPLETED THAT SAME DAY, i.e., UNSTABILIZED SEGMENTS SHALL NOT BE REMAIN OVER NIGHT. (2 WEEKS)
- 9. COMPLETE POND GRADING.
- 10. UPON APPROVAL OF THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR, REMOVE MEDIMENT CONTROLS. STABILIZE AREAS DISTURBED BY THIS PROCESS WITH
- 11. FILL POND BY OPENING 8" VALVE. (1 WEEK)
- 12. INSTALL WATER WEASELS. (2 DAYS)





1. Restrictions — No Construction or removal of a temporary access culvert will be permitted between October 1 through April 30 for Class III and Class IV Trout Waters or between March 1 through June 15 for non-trout waterways.

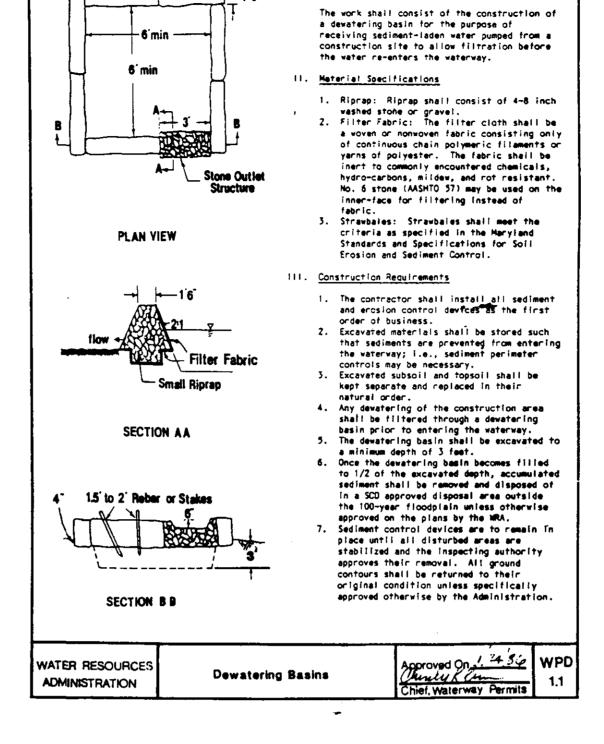
2. Culvert Strength - All culverts shall be strong enough to support their cross sectional area under maximum expected

3. Culvert Size - The size of the culvert pipe shall be the largest pipe diameter that will fit into the existing channel without major excavation of the waterway channel or without major approach fills. If a channel width exceeds 3 feet, the pipes is greater than 60 percent of the cross sectional area of the existing channel. The minimum size culvert that shall be large enough to convey normal stream flaws.

one foot beyond the upstream and downstream toe to the aggregate placed around the culvert. In no case shall the culvert exceed 40 feet in length. 5. Filter Cloth - Filter cloth shall be placed on the streambed and streambanks prior to placement of the pipe culvert(s) and aggregate. The filter cloth shall cover the streambed and extend a minimum six inches and a maximum one foot beyond the end of the culvert and bedding material. Filter cloth reduces settlement and improves crossing

6. Culvert Placement - The invert elevation of the culvert shall be installed on the natural streambed grade to minimize interference with fish migration (free passage of fish).

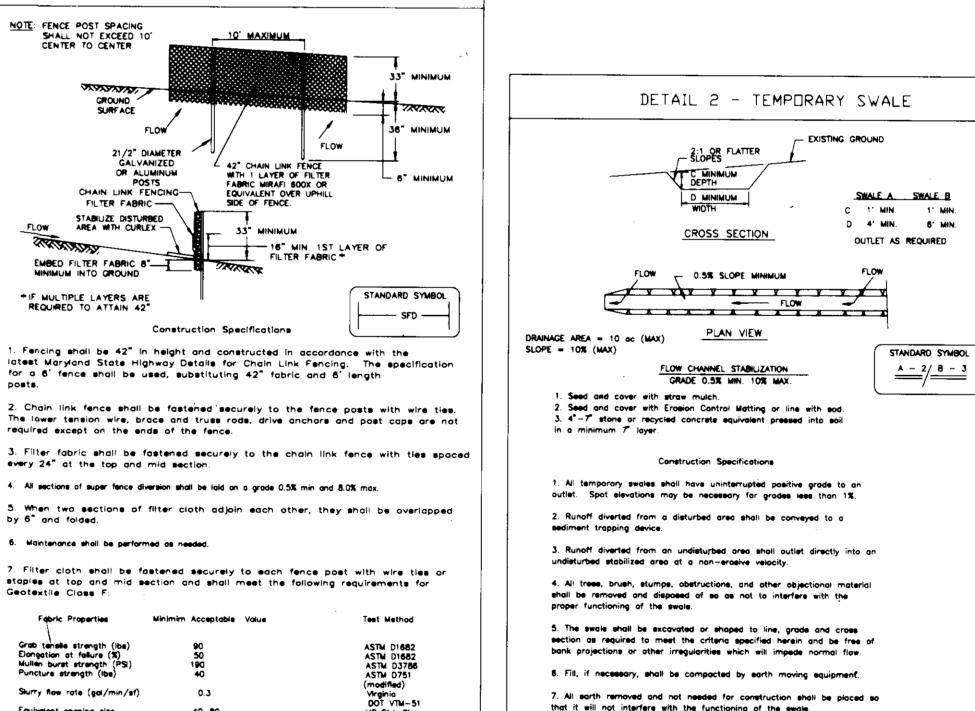
a minimum of one foot of aggregate. If multiple culverts are used they shall be separated by at least 12" of compacted aggregate fill.



SUPER FENCE DIVERSION

Description

Straw Bale Dike or Berm



that it will not interfere with the functioning of the swale.

8. Inspection and maintenance must be provided periodically and after

BY THE DEVELOPER : I/WE CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I SHALL ENGAGE A REGISTERED PROFESSIONAL ENGINEER TO SUPERVISE POND CONSTRUCTION AND PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN "AS-BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT. BY THE ENGINEER I CERTIFY THAT THIS PLAN FOR POND CONSTRUCTION, EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT. I HAVE NOTIFIED THE DEVELOPER THAT HE/SHE MUST ENGAGE A REGISTERED PROFESSIONAL ENGINEER TO SUPERVISE POND CONSTRUCTION AND PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN "AS-BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION. 3.20.96

REQUIREMENTS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL. THESE PLANS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

CONSERVATION DISTRICT AND MEET THE TECHNICAL

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL

ENGINEER &

HOWARD COUNTY DEPARTMENT OF PLANNING AND

AM CAMMUN CHIEF. DEVELOPMENT ENGINEERING DIVISION

CHIEF. DIVISION OF AND DEVELOPMENT AND RESEARCH

DATE NO. REVISION OWNER / DEVELOPER

> COLUMBIA ASSOCIATION 10221 WINCOPIN CIRCLE SUITE 100 COLUMBIA, MD 21044

SYMPHONY WOODS

POND REHABILITATION AREA SYMPHONY WOODS TAX MAP: 36

ZONED: NT 5" ELECTION DISTRICT HOWARD COUNTY, MARYLAND 21044

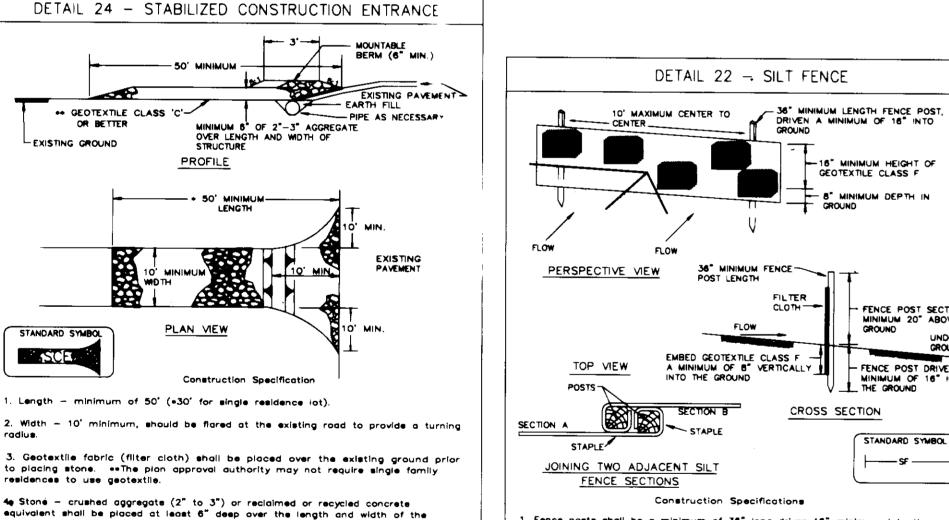
SEDIMENT CONTROL NOTES & DETAILS

Planners • Engineers • Surveyors 8818 Centre Park Drive • Suite 200 • Columbia, MD 21045 410-997-8900 FAX: 410-997-9282

3.20.96 DATE DESIGNED BY : A.A.P DRAWN BY: R.J.C. PROJECT NO : HOCO \ 111500 DATE : MARCH 20, 1996 SCALE : AS SHOWN

JAYKANT D. PAREKH #19148

DRAWING NO. 3 OF 3



1. Fence posts shall be a minimum of 36" long driven 16" minimum into the ground. Wood posts shall be 11/2" x 11/2" square (minimum) out, or 13/4" diameter

(minimum) round and shall be of sound quality hardwood. Steel posts will be standard T or U section weighting not less than 1.00 pond per linear foot. 2. Geotextile shall be fastened securely to each fence post with wire ties or staples at top and mid-section and shall meet the following requirements for Geotextile Class F:

50 lbs/in (min.) Test: MSMT 509 20 lbs/ln (min.) Test: MSMT 509 Tensile Modulus Flow Rate \* 0.3 gal ft 7 minute (max.) Test: MSMT 322 Filtering Efficiency 75% (min.)

3. Where ends of geotextile fabric come together, they shall be overlapped, folded and stapled to prevent sediment bypass.

4. Silt Fence shall be inspected after each rainfall event and maintained when bulges occur or when sediment accumulation reached 50% of the fabric height.

## Silt Fence Design Criteria

Slope Steepness	(Maximum) Slope Length	(Maximum) Silt Fence Length
Flatter than 50:1	unlimited	unlimited
50:1 to 10:1	125 feet	1,000 feet
10:1 to 5:1	100 feet	750 feet
5:1 to 3:1	60 feet	500 feet
3:1 to 2:1	40 feet	250 feet
2:1 and steeper	20 feet	125 feet

Note: In areas of less than 2% slope and sandy soils (USDA general classification system, soil Class A) maximum slope length and slit fence length will be unlimited. In these areas a silt fence may be the only perimeter control

MULTIPLE RIPES MULTIPLE PIPES

DETAIL 36 - TEMPORARY ACCESS CULVERT

Construction Specifications 6. Maintenance shall be performed as needed Geotextile Closs F Grob tensile strength (lbs)
Dongation at foliure (%)
Mullen burst strength (PSI)

Equivalent opening size

Ultraviolet radiation stability (%)

additional pipes may be used until the cross sectional area of may be used is a 12" diameter pipe. In all cases, the pipe(s) 4. Culvert Length - The culvert(s) shall extend a minimum of

7. Culvert Protection - The culvert(s) shall be covered with

 Stabilization — All areas disturbed during culvert installation shall be stabilized within 14 calendar days of the disturbance in accordance with the Standard for \*Critical Area Stabilization With Permanent Seeding."