

SEDIMENT CONTROL NOTES

A MINIMUM OF 24 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY DEPARTMENT OF INSPECTION, LICENSES AND PERMITS, SEDIMENT CONTROL DIVISION PRIOR TO THE START OF ANY CONSTRUCTION, (313-1850). ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE MOST CURRENT "MARYLAND STANDARDS AND SPECIFICATION FOR SOIL EROSION AND SEDIMENT

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 GREATER THAN 3:1, B) 14 DAYS AS TO ALL OTHER DISTURBED OR GRADED

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

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) SOD (SEC. 54), TEMPORARY SEEDING (SEC. 50) AND MULCHING (SEC. 52). TEMPORARY STABILIZATION WITH MULCH ALONE CAN ONLY BE DONE WHEN RECOMMENDED SEEDIN 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.

TOTAL AREA OF SITE AREA TO BE VEGETATIVELY STABILIZED BY DEVELOPER OFFSITE 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 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

TRENCHES FOR THE CONSTRUCTION OF UTILITIES IS LIMITED TO THREE PIPE LENGTHS OR THAT WHICH CAN BE BACK FILLED AND STABILIZED WITHIN ONE WORKING DAY,

CUT OR FILL SLOPE

DETAIL 1 - EARTH DIKE

CROSS SECTION

POSITIVE DRAINAGE - GRADE SUFFICIENT TO DRAIN

 $\Lambda$   $\Lambda$   $\Lambda$   $\Lambda$   $\Lambda$ 

PLAN VIEW

5. Fill shall be compacted by earth moving equipment.

 Seed and cover with Erosion Control Matting or line with soa.
 4" - 7" stone or recycled concrete equivalent pressed into the soil 7" minimum. nd cover with Erosion Control Matting or line with sod.

All temporary earth dikes shall have uninterrupted positive grade to an outlet. Spot elevations may be necessary for grades less than 1%.

Runoff diverted from a disturbed area shall be conveyed to a sediment trapping device.

Runoff diverted from an undisturbed area shall outlet directly into an undisturbed, stabilized area at a non—erosive velocity.

. All trees, brush, stumps, obstructions, and other objectional material shall be removed and disposed of so as not to interfere with the proper functioning of the dike.

The dike shall be excavated or shaped to line, grade and cross section as required to meet the criteria specified herein and be free of bank projections or other irregularities which will impede normal flow.

All earth removed and not needed for construction shall be placed so that it will
not interfere with the functioning of the dike.

3. Inspection and maintenance must be provided periodically and after each rain event

U.S. DEPARTMENT OF AGRICULTURE PAGE MARYLAND DEPARTMENT OF ENVIRONMENT SOIL CONSERVATION SERVICE A - 1 - 6 WATER MANAGEMENT ADMINISTRATION

DETAIL 33 - SUPER SILT FENCE

PERSPECTIVE VIEW

SECTION

PERSPECTIVE VIEW

TATATATATATATATA

SECTION

EMBED GEOTEXTILE CLASS F A MINIMUM OF 8" VERTICALLY

CONSTRUCTION NOTES FOR FABRICATED SILT FENCE

U.S. DEPARTMENT OF AGRICULTURE PAGE MARYLAND DEPARTMENT OF ENVIRONMEN
SOIL CONSERVATION SERVICE H - 26 - 3 WATER MANAGEMENT ADMINISTRATION

DETAIL 22 - SILT FENCE

\_\_\_ 36" MINIMUM LENGTH FENCE POST,

TANDARD SYMBO

16" MINIMUM HEIGHT OF

36" MINIMUM FENCE

FENCE POST SECTION

8" MINIMUM DEPTH IN

CHAIN LINK FENCE -

16" MIN. 1st LAYER FILTER CLOTH

FLOW

EMBED FILTER CLOTH S

10' MAXIMUM CENTER TO CENTER

JOINING TWO ADJACENT SILT

CONSTRUCTION SPECIFICATIONS

Seed and cover with straw mulch

NOTE: FENCE POST SPACING SHALL NOT EXCEED 10 CENTER TO CENTER

STANDARD SYMBOL

\_\_\_\_\_SSF------

GROUND\_ SURFACE

EXCAVATE TO PROVIDE REQUIRED FLOW WIDTH AT DESIGN FLOW DEPTH

o-DIKE HEIGHT b-DIKE WIDTH c-FLOW WIDTH d-FLOW DEPTH

A-2 B-3 **>-/->**·

PERMANENT SEEDBED PREPARATION

SEFDBED PREPARATION: LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISCING OF OTHER ACCEPTABLE MEANS BEFORE SEEDING, IF NOT PREVIOUSLY LOOSENED. SOIL AMENDMENTS: IN LIEU OF SOIL TEST RECOMMENDATIONS, USE ON OF THE FOLLOWING SCHEDULES:

> 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).

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 THROUGH APRIL 30 AND AUGUST 1 THROUGH OCTOBER 15, SEED WITH 60 LBS PER ACRE (1.4 LBS/1000 SQ FT) OF 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 THROUGH 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 PER ACRE OF KENTUCKY 31 TALL FESCUE AND MULCH WITH 2 TONS PER ACRE OF 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.

CONSTRUCTION SPECIFICATIONS

KEY-IN THE MATTING BY PLACING THE TOP ENDS OF THE MATTING IN A NARROW TRENCH. 6" IN DEPTH. BACKFILL THE TRENCH AND TAMP FIRMLY TO CONFORM TO THE CHANNEL CROSS-SECTION. SECURE WITH A ROW OF STAPLES ABOUT 4" DOWN SLOPE FROM THE TRENCH. SPACING BETWEEN STAPLES IS 6".

3. BEFORE STAPLING THE OUTER EDGES OF THE MATTING, MAKE SURE THE MATTING IS SMOOTH AND IN FIRM CONTACT WITH THE SOIL.

4. STAPLES SHALL BE PLACED 2' APART WITH 4 ROWS FOR EACH STRIP, 2 OUTER ROWS, AND 2 ALTERNATING ROWS DOWN THE CENTER.

6. THE DISCHARGE END OF THE MATTING LINER SHOULD BE SIMILARLY SECURED WITH WITH 2 DOUBLE ROWS OF STAPLES.

SOIL STABILIZATION MATTING

NOTE: IF FLOW WILL ENTER FROM THE EDGE OF THE MATTING THEN THE AREA EFFECTED BY THE FLOW MUST BE KEYED-IN.

SUPER SILT FENCE

CONSTRUCTION SPECIFICATIONS

Fencing shall be 42" in height and constructed in accordance with the latest Maryland. State Highway Details for Chain Link Fencing. The specification for a 6' fence shall be used, substituting 42" fabric and 6' length posts.

Chain link fence shall be fastened securely to the fence posts with wire ties. The lower tension wire, brace and truss rods, drive anchors and post caps are not required except on the ends of the fence.

Filter cloth shall be fastened securely to the chain link fence with ties spaced every 24" at the top and mld section.

Tensile Strength
Tensile Modulus
Flow Rate
0.3 gal/ft /minute (max.)
Test: MSMT 509
Test: MSMT 502
Test: MSMT 322
Test: MSMT 322
Test: MSMT 322

SUPER SILT FENCE DESIGN CRITERIA

. Filter cloth shall be embedded a minimum of 8" into the ground.

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE

5. WHERE ONE ROLL OF MATTING ENDS AND ANOTHER BEGINS, THE END OF THE TOP STRIP SHALL OVERLAP THE UPPER END OF THE LOWER STRIP BY 4", SHIPLAP FASHION REINFORCE THE OVERLAP WITH A DOUBLE ROW OF STAPLES SPACED 8" APART IN A STAGGERED PATTERN ON EITHER SIDE.

2. STAPLE THE 4" OVERLAP IN THE CHANNEL CENTER USING AN 18" SPACING BETWEEN STAPLES.

TEMPORARY SEEDBED PREPARATION

APPLY TO GRADED OR CLEARED AREAS LIKELY TO BE REDISTURBED WHERE A SHORT-TERM

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

15, SEED WITH 2-1/2 BUSHELS PER ACRE OF ANNUAL RYE (3.2 LBS/1000 SQ FT). FOR THE PERIOD MAY 1 THROUGH AUGUST 14, SEED WITH 3 LBS PER ACRE OF WEEPING LOVEGRASS

(.07 LBS/1000 SQ FT). FOR THE PERIOD NOVEMBER 16 THROUGH FEBRUARY 28, PROTECT SITE BY APPLYING 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON

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 ST) OF EMULSIFIED ASPHALT ON FLAT AREAS. ON SLOPES, 8 FT. OR HIGHER, USE 348

REFER TO THE 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND

PERMANENT SEEDBED PREPARATION

SEEDBED PREPARATION: LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISCING OR

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

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MULCHING: APPLY 1-1/2 TO 2 TONS PER ACRE (70 TO 90 LBS/1000 SQ FT) OF UNROTTED

MAINTENANCE: INSPECT ALL SEEDED AREAS AND MAKE NEEDED REPAIRS, REPLACEMENTS AND

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OTHER ACCEPTABLE MEANS BEFORE SEEDING, IF NOT PREVIOUSLY LOOSENED

AS POSSIBLE IN THE SPRING, OR USE SOD.

GALLONS PER ACRE (8 GAL/1000 SQ FT) FOR ANCHORING

SEEDING: FOR PERIOD MARCH 1 THROUGH APRIL 30 AND FROM AUGUST 15 THROUGH NOVEMBER

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

NOTIFY SEDIMENT CONTROL DIVISION 48 HOURS PRIOR TO START OF CONSTRUCTION DAY 1 1.) OBTAIN GRADING PERMIT.

DAY 2-8 2.) INSTALL SEDIMENT CONTROLS THAT ARE NOTED TO BE INSTALLED UNDER THIS SDP. THE EXISTING CONTROLS THAT WERE INSTALLED UNDER F-01-39. THAT ARE TO REMAIN SHALL BE INSPECTED AND/OR MODIFIED AS SHOWN ON PLAN TO ENSURE THEY MEET COMPLIANCE WITH SPECIFICATIONS. ANY REMAINING CONTROLS

SEQUENCE OF CONSTRUCTION

INSTALLED UNDER F-01-39 THAT WILL NOT BE UTILIZED UNDER THIS

SDP SHALL BE REMOVED BY THE DEVELOPER. DAY 9-12\* 3.) EXCAVATE FOR FOUNDATIONS, ROUGH GRADE AND STABILIZE IN ACCORDANCE WITH

DAY 13-82 4.) CONSTRUCT HOUSES, BACKFILL AND CONSTRUCT DRIVEWAYS.

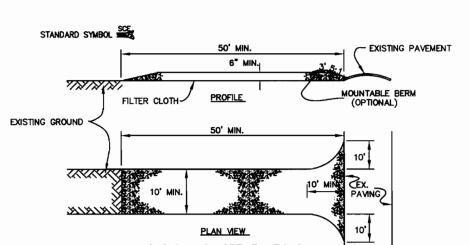
DAY 83-87 5.) FINAL GRADE AND STABILIZE IN ACCORDANCE WITH PERMANENT SEEDBED NOTES

DAY 88-91 6.) WITH THE APPROVAL OF THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR, REMOVE SEDIMENT CONTROL DEVICES AND STABILIZE ANY REMAINING DITURBED AREAS.

\* - INDICATES SINGLE HOUSE CONSTRUCTION.

NOTE: 1. SEDIMENT CONTROL LOCATION AND IMPLEMENTATION SHOWN ON THESE PLANS IS SUBJECT TO REVISION IN THE FIELD AT THE DISCRETION OF THE SEDIMENT CONTROL INSPECTOR.

2. EROSION CONTROL MATTING SHALL BE PLACED IN SWALES UNTIL VEGETATION IS ESTABLISHED OR SOLID SOD SHOULD BE USED.



CONSTRUCTION SPECIFICATIONS Stone size - Use 2" stone, or reclaimed or recycled concrete equivalent. Length — As required, but not less than 50 feet (except on a single residence lot where a 30 foot minimum would apply).

Thickness — Not less than six (6) inches. Width — Ten (10) foot minimum, but not less than the full width at points where ingress or egress occurs. Filter Cloth — Will be placed over the entire area prior to placing of stone.

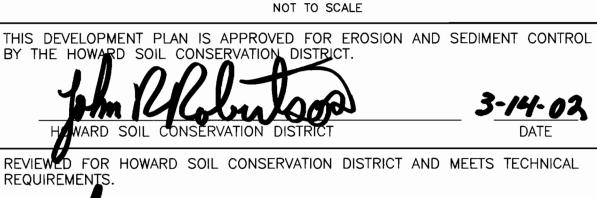
Filter will not be required on a single family residence lot.

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. Maintenance - The entrance shall be maintained in a condition which will prevent tracking or flowing of sediment onto public right-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.

Washing - Wheels shall be cleaned to remove sediment prior to entrance onto publi 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

## STABILIZED CONSTRUCTION ENTRANCE



I hereby 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

3-14-02

the Howard Soil Conservation District 3/6/02

DEVELOPER'S CERTIFICATE

I/We certify that all development and construction will be done in accordance with this plan of development and plan for erosion and sediment control and that all responsible personnel involved in the construction of this 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 onsite inspection by the Howard Soil Conservation District or their authorized agents, as are

deemed necessary.

REVISION

**BENCHMARK** ENGINEERS A LAND SURVEYORS A PLANNERS ENGINEERING, INC. 8480 BALTIMORE NATIONAL PIKE ▲ SUITE 418

DRAFT:

DAM

ELLICOTT CITY, MARYLAND 21043

PHONE: 410-465-6105 ▲ FAX: 410-465-6644

NO. DATE

DESIGN:

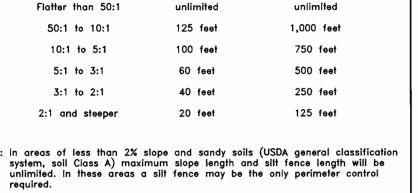


**BUILDER:** WINTERS RIDGE LOTS 1 THRU 8 DORSEY FAMILY HOMES 9926 CYPRESSMEDE DRIVE TAX MAP 38 - GRID 15 - PARCEL- 868 1st ELECTION DISTRICT ELLICOTT CITY, MD 21041 HOWARD COUNTY, MARYLAND TITLE: SEDIMENT AND EROSION CONTROL AND DETAIL NOTES NOVEMBER, 2001

EDD

DATE:

SCALE: 1" = 30



PAGE MARYLAND DEPARTMENT OF ENVIRONMENT
E - 26 - 3A WATER MANAGEMENT ADMINISTRATION

(Maximum) Silt Fence Length

SILT FENCE

SILT FENCE DESIGN CRITERIA

MINIMUM 20" ABOVE GROUND FENCE POST DRIVEN A Note: In areas of less than 2% slope and sandy soils (USDA general classificatio 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) cut, or 13/4" diameter (minimum) round and shall be of sound quality hardwood. Steel posts will be standard 1 or U section weighing not less than 1.00 pond per linear foot.

PROJECT NO. 1508

DRAWING  $\frac{2}{}$  OF  $\frac{2}{}$