

**CATOCTIN SOIL CONSERVATION DISTRICT  
FREDERICK SOIL CONSERVATION DISTRICT  
92 Thomas Johnson Drive, Suite 230  
Frederick, MD 21702-4300  
Phone: 301 695-2803 ext.3  
Fax: 301 694-0270**

**SPECIFICATIONS & PROCEDURES UPDATE**

**FOR**

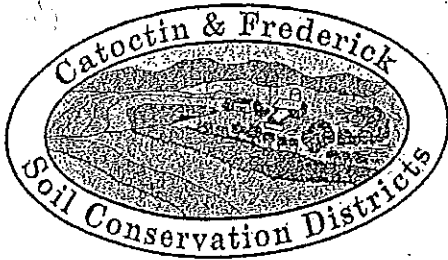
**SEDIMENT & EROSION CONTROL  
STORM WATER MANAGEMENT  
FOR FREDERICK COUNTY**

**PLEASE TAKE TIME TO REVIEW THE ENCLOSED  
INFORMATION**

- 1. REVISION OF FEE STRUCTURE**
- 2. HIGHLIGHTS FOR SUBMITTING PLANS**
- 3. COPY OF FORMS TO BE USED WITH SUBMISSIONS**

**ALL SUBMISSIONS WILL BE CHARGED AT PREVAILING RATES  
(INCLUDING STATE, MUNICIPAL AND COUNTY SUBMISSIONS)**

**PLEASE DISTRIBUTE THIS INFORMATION  
THROUGHOUT YOUR OFFICE**



Suite 230 North Amber 92 Thomas Johnson Drive, Frederick MD 21702 4300  
Telephone: 301 695-2803 ext. 3 District FAX: 301 694-0270  
District e-mail: soil.conservaion@comcast.net

TO: ALL ENGINEERING FIRMS

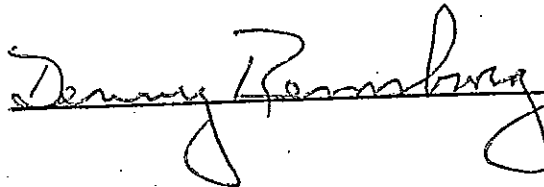
FROM: DENNY REMSBURG, DISTRICT MANAGER.

RE: PLAN SUBMITTALS AND PICKUPS

DATE: JANUARY 8, 2013

PER OUR UPDATED POLICY OF 2010, WE WILL NOT ACCEPT  
SUBMITTALS, OR BE AVAILABLE FOR PICKUPS AFTER 3:00 PM.

PLEASE MAKE AN EFFORT TO MEET OUR NEEDS, AND TO INFORM  
YOUR STAFF.

  
\_\_\_\_\_

UPDATED: DECEMBER 2017

**SEDIMENT & ERSION CONTROL-SWM REVIEW  
FOR FREDERICK COUNTY**

**CONTACT: CATOCTIN & FREDERICK SOIL CONSERVATION**

**ALL SUBMISSIONS MUST BE ACCOMPANIED BY A CHECK PER THE  
REVIEW SCHEDULE**

**FIRST SUBMIT -**

- 1 PAPER COPY - STAPLED AND FOLDED FOR REVIEW
- FEE REVIEW CHECK (\$100.) AND ATTACHED TRANSMITTAL
- TRANSMITTAL SHEET- WITH PROJECT NAME, CONTACT INFORMATION AND PHONE NUMBERS.

**RESUBMIT-**

- FEE REVIEW CHECK (\$100.)
- TRANSMITTAL SHEET- WITH PROJECT NAME, CONTACT INFORMATION AND PHONE NUMBERS.

**ORIGINAL MYLARS WILL NOT BE ACCEPTED BY THIS  
OFFICE UNTIL REQUESTED BY DISTRICT TECHNICIAN IN  
WRITING ON SEDIMENT CONTROL CHECKLIST. (COMMENTS)**

**MYLARS/ORIGINALS AND TWO FOLDED STAPLED PAPER  
COPIES WILL BE ACCEPTED FOR SIGNATURES WHEN  
REQUESTED AND MUST BE ACCOMPANIED BY A COPY OF  
THE FINAL REVIEW BILL, FEE TRANSMITTAL SHEET AND A  
FEE REVIEW CHECK.**

**REVIEW TIME WILL BE 30 WORKING DAYS- STATUS CALLS  
WILL NOT BE FORWARDED TO URBAN REVIEWER.**

**ANY CALL OR QUESTIONS MUST BE FROM THE  
ENGINEERING FIRM- **PLEASE DO NOT CALL  
BEFORE 30 WORKING DAYS.****

**ALL URBAN REVIEW AND PAPERWORK MUST BE  
PICKED UP BY THE ENGINEERING FIRM.**

Catoctin and Frederick Soil Conservation  
92 Thomas Johnson Drive Suite 230  
Frederick, MD 21702  
(301)-695-2803 x3

FEE TRANSMITTAL SHEET

Project Name \_\_\_\_\_

Engineer \_\_\_\_\_

Contact \_\_\_\_\_ Phone \_\_\_\_\_

\_\_\_\_\_ First Submission      \$100.00      Check Number \_\_\_\_\_

\_\_\_\_\_ Resubmission      \$100.00      Check Number \_\_\_\_\_

\_\_\_\_\_ Originals for Signature      \$ \_\_\_\_\_      Check Number \_\_\_\_\_

CITY OF FREDERICK ONLY

\_\_\_\_\_ Concept Plan      \$100.00      Check Number \_\_\_\_\_

\_\_\_\_\_ Site Plan      \$100.00      Check Number \_\_\_\_\_

\_\_\_\_\_ As Built      \$100.00      Check Number \_\_\_\_\_

MAKE CHECKS PAYABLE TO: CATOCTIN AND FREDERICK SCD'S

THIS IS A CARBON TANSMITTAL SHEET WHICH MAY BE PICKED UP AT THE SOIL  
CONSERVATION DISTRICT'S OFFICE



## MODERATE BUILDER'S PLAN

Details for a moderate sediment erosion plan for clustered building sites, for town homes, and condos, etc.

### Things needed:

- \_\_\_\_\_ LOCATION SKETCH
- \_\_\_\_\_ DISTURBED AREA
- \_\_\_\_\_ PERIMETER CONTROLS SUCH AS SUPER SILT FENCE AND SILT FENCE
- \_\_\_\_\_ SIGNATURE BLOCK FOR CATOCTIN or FREDERICK SCD.
- \_\_\_\_\_ PLAN SCALE 1" = 50' OR LARGER
- \_\_\_\_\_ ENGINEER CERTIFICATION
- \_\_\_\_\_ SEDIMENT CONTROL NOTES
- \_\_\_\_\_ UTILITY NOTES
- \_\_\_\_\_ SECONDARY UTILITY NOTES
- \_\_\_\_\_ STANDARD DRAWINGS FOR ENGINEERING STRUCTURES OR REFERENCE TO SPECIFICATIONS
- \_\_\_\_\_ STOCKPILE OR BORROW AREA
- \_\_\_\_\_ STABILIZED CONSTRUCTION ENTRANCE S.C.E.
- \_\_\_\_\_ OWNER / DEVELOPER SIGNATURES
- \_\_\_\_\_ HOME CONSTRUCTION PHASE DETAIL

ENGINEER/ ARCHITECT  
DESIGN CERTIFICATION

I hereby certify that the plans have been designed in accordance with local Ordinances Comar 26.17.01 and 2017 Maryland Standards and Specifications for Soil Erosion and Sediment Control.

---

Signature

Registration Number

Date

**OWNER/ DEVELOPER**

I CERTIFY THAT THIS PLAN OF SEDIMENT CONTROL WILL BE IMPLEMENTED TO THE FULLEST EXTEND, AND ALL STRCUTURES WILL BE INSTALEED TO THE DESIGN AND SPECIFICATIONS AS SPELLED OUT IN THIS PLAN AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATION OF ATTENDENCE AT A DEPARTMENT OF ENVIROMENT APPROVED TRAINING PRORAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE EVALUATION BY THE FREDERICK SOIL CONSERVATION DISTRICT PERSONNEL AND COOPERATING AGENCIES.

\_\_\_\_\_ OWNER/DEVELOPER \_\_\_\_\_

\_\_\_\_\_ DATE

SEQUENCE OF CONSTRUCTION

"SAMPLE"

1. Notify sediment control inspector 24 hours prior to start of construction.
2. Perform clearing and grubbing required for installation of pond and perimeter controls.
3. Install pond and perimeter controls. Notify sediment control inspector and obtain approval before proceeding further.
4. Complete all required clearing and grubbing.
5. Complete road grading.
6. Complete rough grading for remainder of site.
7. Install utilities and block storm drain inlets unless otherwise noted on the plan.
8. Complete building construction.
9. Complete final grading, stabilization, and landscaping.
10. Clean and repair pond to design dimensions.
11. Notify sediment control inspector and obtain approval to remove sediment and erosion control devices.

DISTURBED AREA QUANTITY

The total area to be disturbed shown on these plans has been determined to be approximately \_\_\_\_\_ sq.ft. and the total amount of excavation and fill as shown on these plans has been computed to be approximately \_\_\_\_\_ cu.yds. of fill.

\_\_\_\_\_  
NAME

\_\_\_\_\_  
DATE

\*The disturbed area quantity must be specified on the cover sheet (first page) of plans.

Updated: July 2005

Filename:sequenceofconstruction

**SIGNATURE BLOCKS**

Signature blocks are required on each page of project applicable to sediment and erosion control and/or storm water management review.

All projects located east of the Catoctin Mountains, in the Monocacy River drainage, will require the signature blocks and statement shown below:

FREDERICK SOIL CONSERVATION DISTRICT

Approved By: \_\_\_\_\_  
District Manager

Date: \_\_\_\_\_

\_\_\_\_ SCD approval for sediment and erosion control is contingent upon issuance of all applicable regulatory permits.

SIGNATURE BLOCKS

Signature blocks are required on each page of project applicable to sediment and erosion control and/or storm water management review.

All projects located west of the Catoctin Mountains, in the Catoctin Creek drainage, will require the signature blocks and statement shown below:

CATOCTIN SOIL CONSERVATION DISTRICT

Approved By \_\_\_\_\_  
District Manager

Date: \_\_\_\_\_

\_\_\_\_\_ SCD approval for sediment and erosion control is contingent upon issuance of all applicable regulatory permits.

## EROSION AND SEDIMENT CONTROL NOTES

1. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED AND MAINTAINED IN CONTINUOUS COMPLIANCE WITH THE LATEST VERSION OF THE *MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL*.
2. ALL UTILITIES, SUCH AS; STORM DRAIN, PUBLIC WATER, SANITARY SEWER, ELECTRIC POWER, TELEPHONE, CABLE AND GAS LINES, THAT ARE NOT IN PAVED AREAS AND ARE NOT UNDERGOING ACTIVE GRADING SHALL BE TEMPORARILY OR PERMANENTLY STABILIZED WITHIN 3 DAYS OF INITIAL DISTURBANCE.
3. THE OWNER/DEVELOPER OR THEIR DESIGNATE IS RESPONSIBLE FOR CONDUCTING ROUTINE INSPECTIONS AND REQUIRED MAINTENANCE. THE SITE AND CONTROLS SHOULD BE INSPECTED WEEKLY AND THE NEXT DAY AFTER EACH RAIN EVENT\*\*, ANY ACCUMULATED SEDIMENT SHALL BE REMOVED AND DISPOSED OF IN A SUITABLE AREA AND SHALL BE TEMPORARILY OR PERMANENTLY STABILIZED.

\*\* ANY PROJECT THAT HAS A STATE ISSUED N.O.I. PERMIT MUST DOCUMENT EACH INSPECTION AND MAINTAIN AN INSPECTION LOG [*PLEASE SEE THE N.O.I. FOR DETAILS.*]

## STANDARD STABILIZATION NOTE

Following initial soil disturbance or re-disturbance, permanent or temporary stabilization must be completed within :

- A. Three (3) calendar days as to the surface of all perimeter dikes, swales, ditches; perimeter slopes, and all slopes steeper than 3 horizontal to 1 vertical (3:1); and
- B. Seven (7) calendar days as to all other disturbed or graded areas on project site not under active grading.

FOR UTILITY WORK ONLY OR FOR OFF-SITE UTILITY WORK

1. DISTURBANCE OUTSIDE OF LODA CAN NOT EXCEED 5000 SQUARE FEET
2. PLACE ALL EXCAVATED MATERIAL ON HIGH SIDE OF TRENCH
3. ONLY DO AS MUCH WORK AS CAN BE DONE IN ONE DAY SO BACKFILLING, FINAL GRADING, SEEDING AND MULCHING CAN OCCUR
4. ANY SEDIMENT CONTROL MEASURES DISTURBED BY CONSTRUCTION WILL BE REPAIRED THE SAME DAY

STOCKPILE NOTES

1. No stockpiling allowed on asphalt
2. All stockpiles left at the end of the day need to be stabilized until the next redisturbance

REVISED UTILITY NOTE  
FOR SECONDARY UTILITY WORK

- A. All disturbances from secondary utility's such as phone cable, electric cable, T.V cable, etc. will be subcontractors responsibility to bring work area back to grade level that was existing and seed and mulch any disturbance from installation of lines or conduit.
  
- B. Sub Contractors will be responsible for re-installing or repairing any silt fence or sediment controls that were existing to maintain proper sediment control that might have been damaged.

**APPROVED BY:**  
Soil Conservation District  
Sediment and Erosion Control  
August 17, 2006

## SEDIMENT CONTROL / STORMWATER MANAGEMENT REQUIRED INSPECTIONS

| TYPE OF INSPECTION   | DEVELOPER<br>ENGINEER<br>APPROVAL/DATE | EEA<br>INSPECTION/<br>DATE |
|--|--|----------------------------|
| 1) PRECONSTRUCTION MEETINGS  |  |                            |
| 2) COMPLETION OF SEDIMENT CONTROL MEASURES<br>(IF USING BASIN SEE # 6 BELOW) |  |                            |
| 3) PRIOR TO MODIFICATION OR REMOVAL OF SED. CNTRL.                           |  |                            |
| 4) INFILTRATION SYSTEMS  |  |                            |
| A. SITE READINESS PER SEQUENCE OF CONSTRUCTION                               |  |                            |
| B. INFILTRATION AREA PROTECTED FROM SEDIMENTATION                            |  |                            |
| C. DIMENSIONS  |  |                            |
| D. FILTERING MATERIAL (TYPE/DEPTH)   |  |                            |
| E. FILL MATERIAL   |  |                            |
| F. SIZE, PLACEMENT, TYPE OF PIPING (IF APPLICABLE)                           |  |                            |
| G. OBSERVATION WELL  |  |                            |
| H. COVER / STABILIZATION   |  |                            |
| 5) OPEN CHANNEL FLOW ATTENUATION   |  |                            |
| A. SITE READINESS PER SEQUENCE OF CONSTRUCTION                               |  |                            |
| B. CROSS SECTION CONFORMANCE   |  |                            |
| C. MATERIAL (TYPE/SIZE)  |  |                            |
| D. STABILIZATION   |  |                            |
| 6) RETENTION / DETENTION STRUCTURES (BASIN/PONDS)                            |  |                            |
| A. SUBGRADE PREPARATION  |  |                            |
| 1. CORE TRENCH   |  |                            |
| 2. SUITABLE FILL   |  |                            |
| 3. COMPACTION  |  |                            |
| B. EMBANKMENT CONSTRUCTION   |  |                            |
| 1. SUITABLE MATERIAL   |  |                            |
| 2. SLOPE GRADE   |  |                            |
| C. BARREL AND RISER ASSEMBLY   |  |                            |
| 1. CORRECT MATERIAL ONSITE   |  |                            |
| 2. SIZING  |  |                            |
| 3. ANTI-SEEP COLLARS   |  |                            |
| 4. INSTALLATION / BACKFILL   |  |                            |
| D. CONCRETE INLET STRUCTURES   |  |                            |
| 1. FOOTER EXCAVATION AND SIZE  |  |                            |
| 2. REINFORCING MATERIAL<br>(TYPE, SIZE, PLACEMENT)                           |  |                            |
| 3. WEIR POUR   |  |                            |
| 4. FORM STRIP AND FINISHING  |  |                            |
| E. IMPOUNDING AREA   |  |                            |
| 1. LOW FLOW CHANNELS   |  |                            |
| 2. DEWATERING DEVICE   |  |                            |
| 3. EMERGENCY SPILLWAY  |  |                            |
| F. OUTFALL AREA (LEVEL SPREADER,<br>RIPRAP CHANNEL, ETC.)                    |  |                            |
| G. VEGETATION STABILIZATION  |  |                            |
| H. MISCELLANEOUS   |  |                            |

YOU MUST NOTIFY THE DEPARTMENT OF CODE MANAGEMENT AT (301) 600-2803 BEFORE 9:00 AM 24 HOURS PRIOR TO THE REQUIRED INSPECTION. FAILURE TO NOTIFY THE AGENCY WILL RESULT IN A STOP WORK ORDER OR OTHER PENALTIES AS OUTLINED IN FREDERICK COUNTY CODES.

**\*\*\*\*\*NOTICE\*\*\*\*\***

THIS LIST IS FOR SEQUENCE OF CONSTRUCTION ONLY. THE AGENCY ASSUMES NO RESPONSIBILITY OR LIABILITY FOR IMPROPER INSTALLATION OF ANY ITEM ON THIS CHECKLIST. THE AGENCY RECOMMENDS THAT A PROFESSIONAL ENGINEER BE PRESENT FOR EACH OF THE REQUIRED INSPECTIONS.

### STREAM CLOSURE STATEMENT

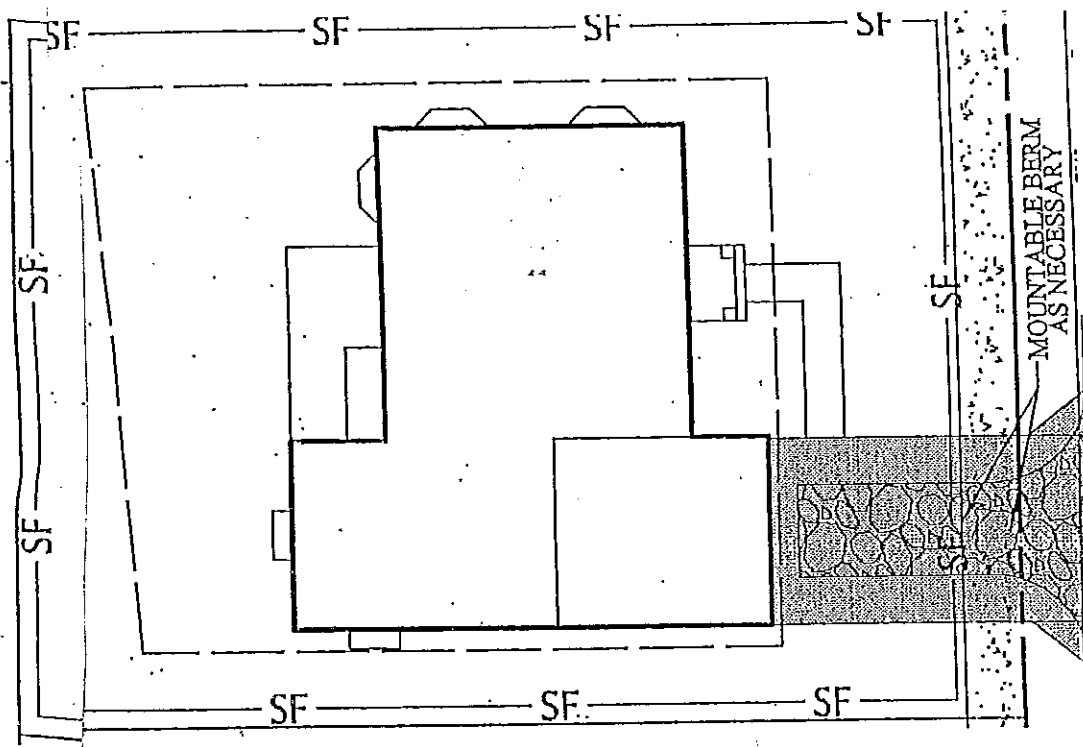
As of June 1, 1992, ALL sediment and erosion control plans and/or stormwater management plans that include in-stream work must have the stream closure date(s) shown in the sequence of construction.

NOTE: See Water Resources Administration specifications.

## HOME CONSTRUCTION PHASE DETAIL

- A. Regional sediment control devices must remain in place where single family home construction is active. In those areas where single family home construction remains active, the homebuilder must install individual stabilized construction entrances for each home site.
- B. As intermittent houses are permanently stabilized, regional perimeter controls for that lot only may be removed with permission from the inspector. Additional controls may be necessary as determined in the field to prevent sediment loss onto completed lots and to provide complete capture.
- C. As final lot grade is established, topsoil shall be spread and stabilized per the permanent seeding specifications.
- D. After permanent stabilization of all building lots, remaining perimeter control measures may be removed with approval by the erosion and sediment control inspector.

### TYPICAL DETAIL FOR SEDIMENT AND EROSION CONTROL PER SINGLE FAMILY UNIT.



# STANDARDS AND SPECIFICATIONS FOR PERMANENT STABILIZATION

TO STABILIZE DISTURBED SOILS WITH PERMANENT VEGETATION

PURPOSE

- TO USE LONG-LIVED PERENNIAL GRASSES AND LEGUMES TO ESTABLISH PERMANENT GROUND COVER ON DISTURBED SOILS.
- CONDITIONS WHERE PRACTICE APPLIES
- EXPOSED SOILS WHERE GROUND COVER IS NEEDED FOR 6 MONTHS OR MORE.

CRITERIA

SEED MIXTURES

1. GENERAL USE

A. SELECT ONE OR MORE OF THE SPECIES OR MIXTURES LISTED IN TABLE B.3 FOR THE APPROPRIATE PLANT HARDINESS ZONE (FROM FIGURE B.3) AND BASED ON THE SITE CONDITION OR PURPOSE FOUND ON TABLE B.2. ENTER SELECTED MIXTURE(S), APPLICATION RATES, AND SEEDING DATES IN THE PERMANENT SEEDING SUMMARY. THE SUMMARY IS TO BE PLACED ON THE PLAN.

B. ADDITIONAL PLANTING SPECIFICATIONS FOR EXCEPTIONAL SITES SUCH AS SHORELINES, STREAM BANKS, OR DUNES OR FOR SPECIAL PURPOSES SUCH AS WILDLIFE OR AESTHETIC TREATMENT MAY BE FOUND IN USDA-NRCS TECHNICAL FIELD OFFICE GUIDE, SECTION 342 - CRITICAL AREA PLANTING.

C. FOR SITES HAVING DISTURBED AREA OVER 5 ACRES, USE AND SHOW THE RATES RECOMMENDED BY THE SOIL TESTING AGENCY.

D. FOR AREAS RECEIVING LOW MAINTENANCE, APPLY UREA FORM FERTILIZER (46-0-0) AT 3 1/2 POUNDS PER 1000 SQUARE FEET (150 POUNDS PER ACRE) AT THE TIME OF SEEDING IN ADDITION TO THE SOIL AMENDMENTS SHOWN IN THE PERMANENT SEEDING SUMMARY.

2. TURFGRASS MIXTURES

A. AREAS WHERE TURFGRASS MAY BE DESIRED INCLUDE LAWNS, PARKS, PLAYGROUNDS, AND COMMERCIAL SITES WHICH WILL RECEIVE A MEDIUM TO HIGH LEVEL OF MAINTENANCE.

B. SELECT ONE OR MORE OF THE SPECIES OR MIXTURES LISTED BELOW BASED ON THE SITE CONDITIONS OR PURPOSE. ENTER SELECTED MIXTURE(S) APPLICATION RATES, AND SEEDING DATES IN THE PERMANENT SEEDING SUMMARY. THE SUMMARY IS TO BE PLACED ON THE PLAN.

1. KENTUCKY BLUEGRASS: FULL SUN MIXTURE; FOR USE IN AREAS THAT RECEIVE INTENSIVE MANAGEMENT. IRRIGATION REQUIRED IN THE AREAS OF CENTRAL MARYLAND AND EASTERN SHORE. RECOMMENDED CERTIFIED KENTUCKY BLUEGRASS CULTIVARS SEEDING RATE: 1.5 TO 2.0 POUNDS PER 1000 SQUARE FEET.

CHOOSE A MINIMUM OF THREE KENTUCKY BLUEGRASS CULTIVARS WITH EACH RANGING FROM 10 TO 35 PERCENT OF THE TOTAL MIXTURE BY WEIGHT.

II. KENTUCKY BLUEGRASS/PERENNIAL RYE: FULL SUN MIXTURE; FOR USE IN FULL SUN AREAS WHERE B.22 RAPID ESTABLISHMENT IS NECESSARY AND WHEN TURF WILL RECEIVE MEDIUM TO INTENSIVE MANAGEMENT. CERTIFIED PERENNIAL RYEGRASS CULTIVARS/CERTIFIED KENTUCKY BLUEGRASS SEEDING RATE: 2 POUNDS MIXTURE PER 1000 SQUARE FEET. CHOOSE A MINIMUM OF THREE KENTUCKY BLUEGRASS CULTIVARS WITH EACH RANGING FROM 10 TO 35 PERCENT OF THE TOTAL MIXTURE BY WEIGHT.

III. TALL FESCUE/KENTUCKY BLUEGRASS: FULL SUN MIXTURE; FOR USE IN DROUGHT PRONE AREAS AND/OR FOR AREAS RECEIVING LOW TO MEDIUM MANAGEMENT IN FULL SUN TO MEDIUM SHADE. RECOMMENDED MIXTURE INCLUDES: CERTIFIED TALL FESCUE CULTIVARS 95 TO 100 PERCENT, CERTIFIED KENTUCKY BLUEGRASS CULTIVARS 0 TO 5 PERCENT. SEEDING RATE: 5 TO 8 POUNDS PER 1000 SQUARE FEET. ONE OR MORE CULTIVARS MAY BE BLENDED.

IV. KENTUCKY BLUEGRASS/FINE FESCUE: SHADE MIXTURE; FOR USE IN AREAS WITH SHADE IN BLUEGRASS LAWNS. FOR ESTABLISHMENT IN HIGH QUALITY, INTENSIVELY MANAGED TURF AREA. MIXTURE INCLUDES: CERTIFIED KENTUCKY BLUEGRASS CULTIVARS 90 TO 40 PERCENT AND CERTIFIED FINE FESCUE AND 60 TO 70 PERCENT. SEEDING RATE: 1 1/2 TO 3 POUNDS PER 1000 SQUARE FEET.

NOTES:

SELECT TURFGRASS VARIETIES FROM THOSE LISTED IN THE MOST CURRENT UNIVERSITY OF MARYLAND PUBLICATION, AGRONOMY MEMO #77, "TURFGRASS CULTIVAR RECOMMENDATIONS FOR MARYLAND" CHOOSE CERTIFIED MATERIAL. CERTIFIED MATERIAL IS THE BEST GUARANTEE OF CULTIVAR PURITY. THE CERTIFICATION PROGRAM OF THE MARYLAND DEPARTMENT OF AGRICULTURE, TURF AND SEED SECTION, PROVIDES A RELIABLE MEANS OF CONSUMER PROTECTION AND ASSURES A PURE GENETIC LINE

C. IDEAL TIMES OF SEEDING FOR TURF GRASS MIXTURES:

WESTERN MD: MARCH 15 TO JUNE 1, AUGUST 1 TO OCTOBER 1 (HARDINESS ZONES: 5B, 6A)

CENTRAL MD: MARCH 1 TO MAY 15, AUGUST 15 TO OCTOBER 15 (HARDINESS ZONE: 6B)

SOUTHERN MD, EASTERN SHORE: MARCH 1 TO MAY 15, AUGUST 15 TO OCTOBER 15 (HARDINESS ZONES: 7A, 7B)

D. TILL AREAS TO RECEIVE SEED BY DISKING OR OTHER APPROVED METHODS TO A DEPTH OF 2 TO 4 INCHES. LEVEL AND RAKE THE AREAS TO PREPARE A PROPER SEEDBED. REMOVE STONES AND DEBRIS OVER 1 1/2 INCHES IN DIAMETER. THE RESULTING SEEDBED MUST BE IN SUCH CONDITION THAT FUTURE MOWING OF GRASSES WILL POSE NO DIFFICULTY.

E. IF SOIL MOISTURE IS DEFICIENT, SUPPLY NEW SEEDINGS WITH ADEQUATE WATER FOR PLANT GROWTH (1/2 TO 1 INCH EVERY 3 TO 4 DAYS DEPENDING ON SOIL TEXTURE) UNTIL THEY ARE FIRMLY ESTABLISHED. THIS IS ESPECIALLY TRUE WHEN SEEDINGS ARE MADE LATE IN THE PLANTING SEASON, IN ABNORMALLY DRY OR HOT SEASONS, OR ON ADVERSE SITES.

## STANDARDS AND SPECIFICATIONS FOR TEMPORARY STABILIZATION

TO STABILIZE DISTURBED SOILS WITH VEGETATION FOR UP TO 6 MONTHS.

### PURPOSE

- TO USE FAST GROWING VEGETATION THAT PROVIDES COVER ON DISTURBED SOILS.

### CONDITIONS WHERE PRACTICE APPLIES:

- EXPOSED SOILS WHERE GROUND COVER IS NEEDED FOR A PERIOD OF 6 MONTHS OR LESS. FOR LONGER DURATION OF TIME, PERMANENT STABILIZATION PRACTICES ARE REQUIRED.

### CRITERIA

1. SELECT ONE OR MORE OF THE SPECIES OR SEED MIXTURES LISTED IN TABLE B.1 FOR THE APPROPRIATE PLANT HARDINESS ZONE (FROM FIGURE B.3), AND ENTER THEM IN THE TEMPORARY SEEDING SUMMARY BELOW ALONG WITH APPLICATION RATES, SEEDING DATES AND SEEDING DEPTHS. IF THIS SUMMARY IS NOT PUT ON THE PLAN AND COMPLETED, THEN TABLE B.1 PLUS FERTILIZER AND LIME RATES MUST BE PUT ON THE PLAN.
2. FOR SITES HAVING SOIL TESTS PERFORMED, USE AND SHOW THE RECOMMENDED RATES BY THE TESTING AGENCY. SOIL TESTS ARE NOT REQUIRED FOR TEMPORARY SEEDING.
3. WHEN STABILIZATION IS REQUIRED OUTSIDE OF A SEEDING SEASON, APPLY SEED AND MULCH OR STRAW MULCH ALONE AS PRESCRIBED IN SECTION B-4-3-A.1.B AND MAINTAIN UNTIL THE NEXT SEEDING SEASON.

## B-4-5 STANDARDS AND SPECIFICATIONS

### FOR

### PERMANENT STABILIZATION

#### Definition

To stabilize disturbed soils with permanent vegetation.

#### Purpose

To use long-lived perennial grasses and legumes to establish permanent ground cover on disturbed soils.

#### Conditions Where Practice Applies

Exposed soils where ground cover is needed for 6 months or more.

#### Criteria

##### A. Seed Mixtures

###### 1. General Use

- a. Select one or more of the species or mixtures listed in Table B.3 for the appropriate Plant Hardiness Zone (from Figure B.3) and based on the site condition or purpose found on Table B.2. Enter selected mixture(s), application rates, and seeding dates in the Permanent Seeding Summary. The Summary is to be placed on the plan.
- b. Additional planting specifications for exceptional sites such as shorelines, stream banks, or dunes or for special purposes such as wildlife or aesthetic treatment may be found in USDA-NRCS Technical Field Office Guide, Section 342 - Critical Area Planting.
- c. For sites having disturbed area over 5 acres, use and show the rates recommended by the soil testing agency.
- d. For areas receiving low maintenance, apply urea form fertilizer (46-0-0) at 3 ½ pounds per 1000 square feet (150 pounds per acre) at the time of seeding in addition to the soil amendments shown in the Permanent Seeding Summary .

###### 2. Turfgrass Mixtures

- a. Areas where turfgrass may be desired include lawns, parks, playgrounds, and commercial sites which will receive a medium to high level of maintenance.
- b. Select one or more of the species or mixtures listed below based on the site conditions or purpose. Enter selected mixture(s), application rates, and seeding dates in the Permanent Seeding Summary. The summary is to be placed on the plan.
  - i. Kentucky Bluegrass: Full Sun Mixture: For use in areas that receive intensive management. Irrigation required in the areas of central Maryland and Eastern Shore. Recommended Certified Kentucky Bluegrass Cultivars Seeding Rate: 1.5 to 2.0 pounds per 1000 square feet. Choose a minimum of three Kentucky bluegrass cultivars with each ranging from 10 to 35 percent of the total mixture by weight.
  - ii. Kentucky Bluegrass/Perennial Rye: Full Sun Mixture: For use in full sun areas where

rapid establishment is necessary and when turf will receive medium to intensive management. Certified Perennial Ryegrass Cultivars/Certified Kentucky Bluegrass Seeding Rate: 2 pounds mixture per 1000 square feet. Choose a minimum of three Kentucky bluegrass cultivars with each ranging from 10 to 35 percent of the total mixture by weight.

- iii. Tall Fescue/Kentucky Bluegrass: Full Sun Mixture: For use in drought prone areas and/or for areas receiving low to medium management in full sun to medium shade. Recommended mixture includes; Certified Tall Fescue Cultivars 95 to 100 percent, Certified Kentucky Bluegrass Cultivars 0 to 5 percent. Seeding Rate: 5 to 8 pounds per 1000 square feet. One or more cultivars may be blended.
- iv. Kentucky Bluegrass/Fine Fescue: Shade Mixture: For use in areas with shade in Bluegrass lawns. For establishment in high quality, intensively managed turf area. Mixture includes; Certified Kentucky Bluegrass Cultivars 30 to 40 percent and Certified Fine Fescue and 60 to 70 percent. Seeding Rate: 1½ to 3 pounds per 1000 square feet.

**Notes:**

Select turfgrass varieties from those listed in the most current University of Maryland Publication, Agronomy Memo #77, "Turfgrass Cultivar Recommendations for Maryland"

Choose certified material. Certified material is the best guarantee of cultivar purity. The certification program of the Maryland Department of Agriculture, Turf and Seed Section, provides a reliable means of consumer protection and assures a pure genetic line

c. Ideal Times of Seeding for Turf Grass Mixtures

Western MD: March 15 to June 1, August 1 to October 1 (Hardiness Zones: 5b, 6a)

Central MD: March 1 to May 15, August 15 to October 15 (Hardiness Zone: 6b)

Southern MD, Eastern Shore: March 1 to May 15, August 15 to October 15  
(Hardiness Zones: 7a, 7b)

- d. Till areas to receive seed by disking or other approved methods to a depth of 2 to 4 inches, level and rake the areas to prepare a proper seedbed. Remove stones and debris over 1½ inches in diameter. The resulting seedbed must be in such condition that future mowing of grasses will pose no difficulty.
- e. If soil moisture is deficient, supply new seedings with adequate water for plant growth (½ to 1 inch every 3 to 4 days depending on soil texture) until they are firmly established. This is especially true when seedings are made late in the planting season, in abnormally dry or hot seasons, or on adverse sites.

**B-4-4 STANDARDS AND SPECIFICATIONS**

**FOR**

**TEMPORARY STABILIZATION**

Definition

To stabilize disturbed soils with vegetation for up to 6 months.

Purpose

To use fast growing vegetation that provides cover on disturbed soils.

Conditions Where Practice Applies

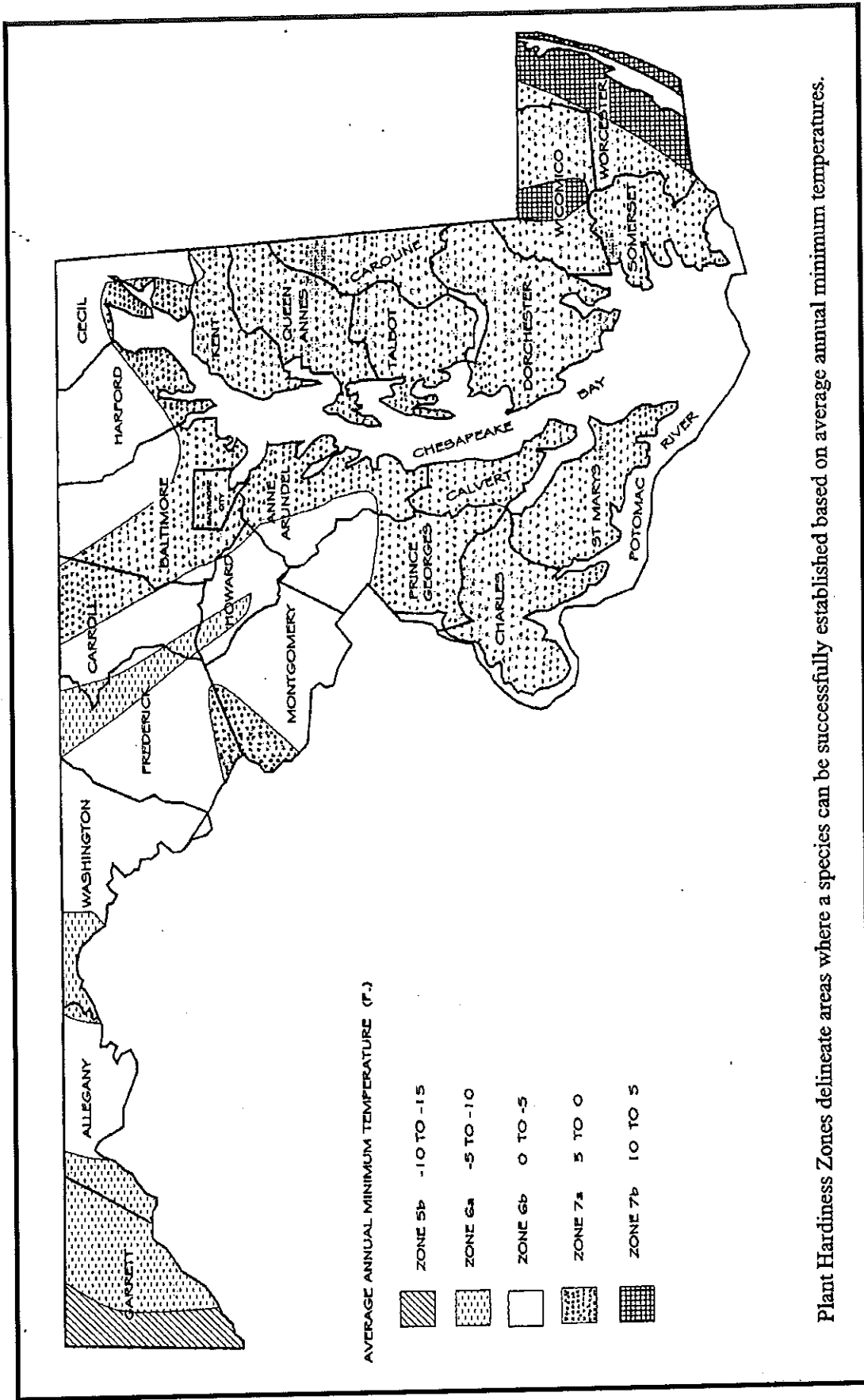
Exposed soils where ground cover is needed for a period of 6 months or less. For longer duration of time, permanent stabilization practices are required.

Criteria

1. Select one or more of the species or seed mixtures listed in Table B.1 for the appropriate Plant Hardiness Zone (from Figure B.3), and enter them in the Temporary Seeding Summary below along with application rates, seeding dates and seeding depths. If this Summary is not put on the plan and completed, then Table B.1 plus fertilizer and lime rates must be put on the plan.
2. For sites having soil tests performed, use and show the recommended rates by the testing agency. Soil tests are not required for Temporary Seeding.
3. When stabilization is required outside of a seeding season, apply seed and mulch or straw mulch alone as prescribed in Section B-4-3.A.1.b and maintain until the next seeding season.

**Temporary Seeding Summary**

| Hardiness Zone (from Figure B.3): _____<br>Seed Mixture (from Table B.1): _____ |         |                          |               |                | Fertilizer Rate<br>(10-20-20) | Lime Rate                    |
|---|---------|--------------------------|---------------|----------------|-------------------------------|------------------------------|
| No.   | Species | Application Rate (lb/ac) | Seeding Dates | Seeding Depths |                               |                              |
|   |         |                          |               |                | 436 lb/ac<br>(10 lb/1000 sf)  | 2 tons/ac<br>(90 lb/1000 sf) |
|   |         |                          |               |                |                               |                              |
|   |         |                          |               |                |                               |                              |
|   |         |                          |               |                |                               |                              |



Plant Hardiness Zones delineate areas where a species can be successfully established based on average annual minimum temperatures.

Figure B.3: U.S.D.A. Plant Hardiness Zones

Table B.1: Temporary Seeding for Site Stabilization

| Plant Species   | Seeding Rate <sup>1/</sup> |                         | Seeding Depth <sup>2/</sup> (inches) | Recommended Seeding Dates by Plant Hardiness Zone <sup>3/</sup> |                                  |                                    |
|---|----------------------------|-------------------------|--------------------------------------|---|----------------------------------|------------------------------------|
|   | lb/ac                      | lb/1000 ft <sup>2</sup> |                                      | 5b and 6a   | 6b                               | 7a and 7b                          |
| Cool-Season Grasses   |                            |                         |                                      |   |                                  |                                    |
| Annual Ryegrass ( <i>Lolium perenne</i> ssp. <i>multiflorum</i> ) | 40                         | 1.0                     | 0.5                                  | Mar 15 to May 31; Aug 1 to Sep 30                               | Mar 1 to May 15; Aug 1 to Oct 15 | Feb 15 to Apr 30; Aug 15 to Nov 30 |
| Barley ( <i>Hordeum vulgare</i> )                                 | 96                         | 2.2                     | 1.0                                  | Mar 15 to May 31; Aug 1 to Sep 30                               | Mar 1 to May 15; Aug 1 to Oct 15 | Feb 15 to Apr 30; Aug 15 to Nov 30 |
| Oats ( <i>Avena sativa</i> )                                      | 72                         | 1.7                     | 1.0                                  | Mar 15 to May 31; Aug 1 to Sep 30                               | Mar 1 to May 15; Aug 1 to Oct 15 | Feb 15 to Apr 30; Aug 15 to Nov 30 |
| Wheat ( <i>Triticum aestivum</i> )                                | 120                        | 2.8                     | 1.0                                  | Mar 15 to May 31; Aug 1 to Sep 30                               | Mar 1 to May 15; Aug 1 to Oct 15 | Feb 15 to Apr 30; Aug 15 to Nov 30 |
| Cereal Rye ( <i>Secale cereale</i> )                              | 112                        | 2.8                     | 1.0                                  | Mar 15 to May 31; Aug 1 to Oct 31                               | Mar 1 to May 15; Aug 1 to Nov 15 | Feb 15 to Apr 30; Aug 15 to Dec 15 |
| Warm-Season Grasses   |                            |                         |                                      |   |                                  |                                    |
| Foxtail Millet ( <i>Setaria italica</i> )                         | 30                         | 0.7                     | 0.5                                  | Jun 1 to Jul 31   | May 16 to Jul 31                 | May 1 to Aug 14                    |
| Pearl Millet ( <i>Pennisetum glaucum</i> )                        | 20                         | 0.5                     | 0.5                                  | Jun 1 to Jul 31   | May 16 to Jul 31                 | May 1 to Aug 14                    |

NOTES:

1/ Seeding rates for the warm-season grasses are in pounds of Pure Live Seed (PLS). Actual planting rates shall be adjusted to reflect percent seed germination and purity, as tested. Adjustments are usually not needed for the cool-season grasses.

Seeding rates listed above are for temporary seedings, when planted alone. When planted as a nurse crop with permanent seed mixes, use 1/3 of the seeding rate listed above for barley, oats, and wheat. For smaller-seeded grasses (annual ryegrass, pearl millet, foxtail millet), do not exceed more than 5% (by weight) of the overall permanent seeding mix. Cereal rye generally should not be used as a nurse crop, unless planting will occur in very late fall beyond the seeding dates for other temporary seedings. Cereal rye has allelopathic properties that inhibit the germination and growth of other plants. If it must be used as a nurse crop, seed at 1/3 of the rate listed above.

Oats are the recommended nurse crop for warm-season grasses.

2/ For sandy soils, plant seeds at twice the depth listed above.

3/ The planting dates listed are averages for each Zone and may require adjustment to reflect local conditions, especially near the boundaries of the zone.