

**GARRETT SOIL CONSERVATION DISTRICT EROSION AND SEDIMENT CONTROL PLAN REVIEW CHECKLIST**

Project: \_\_\_\_\_

Reviewer: \_\_\_\_\_ Date \_\_\_\_\_ GP No. \_\_\_\_\_

**LEGEND FOR CHECKLIST**

✓ - Accepted    X - Not Acceptable    N/A - Not Applicable    R - Required, Not Submitted    INC - Incomplete

**A. GENERAL DATA**

- | 1st | 2nd |  |
|-----|-----|--|
| ___ | ___ | 1. Vicinity map  |
| ___ | ___ | 2. Drainage area map showing total area draining through or to the site and natural flow patterns. |
| ___ | ___ | 3. Drainage area map for sediment trapping devices   |
| ___ | ___ | 4. Title block in lower right hand corner containing the following information:                    |
|     | ___ | a. Name of project, location, and name of applicant  |
|     | ___ | b. Name of company or individual who prepared plan   |

**B. SITE PLAN**

- | 1st | 2nd |   |
|-----|-----|---|
| ___ | ___ | 1. Purpose of plan  |
| ___ | ___ | 2. Legend, scale, north arrow (scale 1" = 50' or less)  |
| ___ | ___ | 3. Erosion and sediment control sheets labeled, numbered, and identified as sheet no. ___ or ___  |
| ___ | ___ | 4. Limits of disturbance outlined   |
| ___ | ___ | 5. Limit of 100-year flood plain and wetlands outlined (if none, note in site information)  |
| ___ | ___ | 6. Existing and proposed improvements   |
| ___ | ___ | 7. Existing and proposed contours, property lines and adjoining property owners (extend topo no less than 50' from project limits)  |
| ___ | ___ | 8. Stock pile and/or borrow area location (if not, note in site information)  |
| ___ | ___ | 9. Locations and methods of stabilization (riprap, seed, matting, pavement, etc.)   |
| ___ | ___ | 10. Details, specifications and standard symbols for each E & S practice (copied from <i>2011 Maryland Standards and Specifications for Soil Erosion and Sediment Control</i> ) |
| ___ | ___ | 11. Developers and Design Certification (signed)  |
| ___ | ___ | 12. Sequence of construction and time table   |
| ___ | ___ | 13. Details and sizes of existing and proposed drainage control structures (traps, ditches, culverts, etc.)   |
| ___ | ___ | 14. Designs of structures and/or practices, provide calculations  |
| ___ | ___ | 15. Location of sediment control measures   |
| ___ | ___ | 16. Revegetation specifications   |
|     | ___ | a. Seedbed preparations   |
|     | ___ | b. Permanent seeding (mix & rate) - include method of application   |
|     | ___ | c. Temporary seeding (mix & rate) - include method of application   |
|     | ___ | d. Mulching (include anchoring method)  |
|     | ___ | e. Matting (type & specification)   |
|     | ___ | f. Fertilizer and lime (amount & type)  |
| ___ | ___ | 17. Site Information  |
|     | ___ | a. Total area of site in acres  |
|     | ___ | b. Area of disturbance in acres   |
|     | ___ | c. Impervious area in acres   |

- 17. Site Information (continued)
- \_\_\_ d. Total cut in cu. yds.
- \_\_\_ e. Total fill in cu. yds.
- \_\_\_ f. Volume of material in cu. yds.
- \_\_\_ g. Soils type

**C. ROAD PROFILES**

- | 1st | 2nd |  |
|-----|-----|--|
| ___ | ___ | 1. Location and spacing of interceptor dikes and culverts                                      |
| ___ | ___ | 2. Location of diversion dikes   |
| ___ | ___ | 3. Inlets for dikes and culverts (types of structure and size)                                 |
| ___ | ___ | 4. Outlets for dikes and culverts (type of structure and size)                                 |
| ___ | ___ | 5. Stream crossings (type of structure and size)   |
| ___ | ___ | 6. Typical cross section of roads, extending from toe of fill to top of cut, including ditches |

**D. SEDIMENT AND EROSION CONTROL**

- | 1st | 2nd |   |
|-----|-----|---|
| ___ | ___ | 1. Dikes (perimeter, diversion, interceptor)                                  |
| ___ | ___ | a. Practice meets purpose and design criteria                                 |
| ___ | ___ | b. Positive drainage is maintained  |
| ___ | ___ | c. Flow area of dikes over 5% properly stabilized                             |
| ___ | ___ | d. Outlet to sediment trapping device or onto stable outlet                   |
| ___ | ___ | e. Points of vehicular crossing shown and stabilized                          |
| ___ | ___ | 2. Traps (pipe, grass, storm inlet, swale, stone and riprap)                  |
| ___ | ___ | a. Plan view of trap and storage area (top and bottom area drawn to scale)    |
| ___ | ___ | b. Bottom dimensions and control elevations (bottom clean-out and discharge)  |
| ___ | ___ | c. Contributing drainage area and volume computations                         |
| ___ | ___ | d. Type and size of outlet structure  |
| ___ | ___ | e. Stabilized inlet and outlet  |
| ___ | ___ | f. Practice meets purpose and design criteria                                 |
| ___ | ___ | 3. Temporary Swales (interceptor, perimeter)                                  |
| ___ | ___ | a. Contributing drainage area shown   |
| ___ | ___ | b. Required cross section can be installed                                    |
| ___ | ___ | c. Provisions for traffic crossing shown on plan                              |
| ___ | ___ | d. Channel grade over 5% properly stabilized                                  |
| ___ | ___ | e. Adequate outlet or discharge condition                                     |
| ___ | ___ | f. Practice meets purpose and design criteria                                 |
| ___ | ___ | 4. Silt Fence   |
| ___ | ___ | a. Drainage area doesn't exceed 2 acre per 100' of fence                      |
| ___ | ___ | b. Placed on contours   |
| ___ | ___ | c. Meets maximum allowable slope  |
| ___ | ___ | d. Used for sheet erosion   |
| ___ | ___ | 5. Sediment Basins  |
| ___ | ___ | a. Plan view of dam and storage area  |
| ___ | ___ | b. Profile along center line of dam   |
| ___ | ___ | c. Profile of emergency spillway  |
| ___ | ___ | d. Cross section through dam or impoundments at principal spillway            |
| ___ | ___ | e. Detail of riser base, anti-vortex device, anti-seep collars and trash rack |
| ___ | ___ | f. Design data sheet properly completed                                       |
| ___ | ___ | g. Outlet protection detail and downstream outfall conditions                 |
| ___ | ___ | h. Volume and emergency spillway design computations                          |
| ___ | ___ | I. Provisions for stabilization   |

## E. SEDIMENT BASIN/POND REQUIREMENTS

BASIN NO. \_\_\_\_\_

### Design Date

- \_\_\_ 1. Drainage Area Map
- \_\_\_ 2. Design data sheet properly completed. (Pages G-26 and G-27, *2011 Maryland Standards and Specifications for Soil Erosion and Sediment Control*)
  - \_\_\_ a. Storage required
  - \_\_\_ b. Storage provided
    - \_\_\_ 1. Elevation-storage curve and table
    - \_\_\_ 2. Storage determined to riser crest elevation
    - \_\_\_ 3. Minimum volume of basin before clean-out
  - \_\_\_ c. Clean-out elevation
  - \_\_\_ d. Design Q
  - \_\_\_ e. Barrel size
  - \_\_\_ f. Riser size
  - \_\_\_ g. Trash rack size
  - \_\_\_ h. Emergency spillway size
  - \_\_\_ I. Anti-seep collar size
  - \_\_\_ j. Minimum 1' between emergency spillway crest and riser crest.
  - \_\_\_ k. Required 1' freeboard between design high water and settled top of dam.
  - \_\_\_ l. Elevations agree with those shown on plan

### Plan Drawings

- \_\_\_ 1. Plan view of dam and storage area with approximate bottom dimensions shown
- \_\_\_ 2. Cross section along center line of dam
  - \_\_\_ a. Top of dam (constructed and settled)
  - \_\_\_ b. Location of emergency and principal spillway
  - \_\_\_ c. Existing and proposed ground
  - \_\_\_ d. Bottom of cut-off trench
  - \_\_\_ e. Horizontal control
- \_\_\_ 3. Profile through principal spillway
  - \_\_\_ a. Existing ground
  - \_\_\_ b. Elevations
    - \_\_\_ 1. Settled top of dam
    - \_\_\_ 2. Constructed top of dam
    - \_\_\_ 3. Emergency spillway crest (dotted line)
    - \_\_\_ 4. Riser crest
    - \_\_\_ 5. Design high water
    - \_\_\_ 6. Inlet and outlet inverts of pipe
    - \_\_\_ 7. Clean out
    - \_\_\_ 8. Other:
  - \_\_\_ c. Top width
  - \_\_\_ d. Side slope

- \_\_\_ e. Cut-off trench
  - \_\_\_ 1. 4' minimum bottom width
  - \_\_\_ 2. Side slopes 1:1
  - \_\_\_ 3. Depth (4' minimum if SWM or permanent pond)
- \_\_\_ f. Anti-seep collar
  - \_\_\_ 1. Phreatic line (4:1 slope)
  - \_\_\_ 2. Saturated length (dimensioned)
  - \_\_\_ 3. 10' minimum from riser
  - \_\_\_ 4. Minimum spacing between collars as per NRCS specs
- \_\_\_ g. Barrel
  - \_\_\_ 1. Length (dimensioned)
  - \_\_\_ 2. Slope
  - \_\_\_ 3. Size
- \_\_\_ h. Riser clearly marked at clean-out elevation
- \_\_\_ 4. Profile of emergency spillway
  - \_\_\_ a. Existing ground
  - \_\_\_ b. Elevation of level control section
  - \_\_\_ c. Inlet section and outlet section slopes
  - \_\_\_ d. Length of outlet section
  - \_\_\_ e. Design Q and velocity (stated on plan)
  - \_\_\_ f. Emergency spillway located in cut or channel protection provided (detail required)
- \_\_\_ 5. Riprap outlet protection
  - \_\_\_ a. Stone size as per NRCS design criteria
  - \_\_\_ b. Medium stone size and minimum depth of riprap section shown on plan
  - \_\_\_ c. Riprap placed upon approved filter cloth
  - \_\_\_ d. Cross section detail of riprap areas
- \_\_\_ 6. Anti-seep collar detail (dimensioned with construction specifications)
- \_\_\_ 7. Trash rack and anti-vortex device details and construction specifications
- \_\_\_ 8. Downstream outfall conditions
- \_\_\_ 9. Dewatering device detail and construction specifications
- \_\_\_ 10. Baffles (if applicable)
- \_\_\_ 11. Construction specifications (see pages G-24 and G-25 of *2011 Maryland Standards and Specification for Soil Erosion and Sediment Control*)
- \_\_\_ 12. Provisions for sediment control during basin construction
- \_\_\_ 13. Fencing note: If required by the sediment control inspector, fencing shall be installed to prevent access to the basin by children.®
- \_\_\_ 14. Permits - WRA/Corps Eng/SCD
- \_\_\_ 15. Historical - Archaeological