## Town of Elkton & Cecil Soil Conservation District Checklist for Joint Agency Review Stormwater Management / Erosion and Sediment Control

| Project Name:                    |                |  |                                       |   |
|----------------------------------|----------------|--|---------------------------------------|---|
| Tax Map                          | _ Parcel:      | Acreage:                                     | Plat:                                 | ADC Map & Grid  |
| Engineering Firm:                |                |  |                                       | Phone Number:   |
| Contact Person: _                |                |  | Email:                                |   |
|                                  |                |  |                                       |   |
| Owners Name:                     |                |  | Contract Purch                        | aser's Name:  |
| Final Stormwater be deemed incor | Managemen      | t / Erosion and Sedi<br>eturned to the engir | ment Control Plai<br>neer. Please com | and approval of the Concept, Preliminary, and ns. Plans not meeting these requirements will uplete and submit the checklist with each planed, SEALED and submitted to each agency |
| <u>Co</u>                        | ncept Plan     | <u>, Preliminary Pla</u>                     | <u>n, &amp; Final Plan</u>            | - Application Requirements  |
| 1st Review                       |                |  |                                       |   |
| ☐ Completed A                    | pplication &   | Checklist                                    |                                       |   |
| ☐ Applicable Fe                  | es Due         |  |                                       |   |
| ☐ One (1) copy                   | of folded pla  | ns (max size 24x36"                          | ")                                    |   |
| ☐ One (1) copy                   | of the geoted  | chnical report signe                         | d and sealed (if re                   | quired)   |
| ☐ One (1) copy                   | of the Storm   | water Management                             | Computations (siç                     | gned and sealed)  |
| ☐ One (1) copy                   | of the soils r | eport  |                                       |   |
|                                  |                | the design and desc<br>acticable (MEP).      | ribes how Enviro                      | nmental Site Design (ESD) will be implemented   |
| ☐ One (1) copy                   | of the Erosio  | n and Sediment Co                            | ntrol Design Com                      | putations   |
| Subsequent Revi                  | <u>ews</u>     |  |                                       |   |
| ☐ Completed A                    | pplication &   | Checklist                                    |                                       |   |
| ☐ Applicable Fe                  | es Due         |  |                                       |   |
| ☐ One (1) copy                   | of redline ma  | ark up plans (CSCD                           | only)                                 |   |
| ☐ One (1) copy                   | of revised, fo | olded plans (max siz                         | e 24x36")                             |   |
| ☐ One (1) copy                   | of geotechni   | cal report signed an                         | d sealed (if requir                   | red)  |
| ☐ One (1) copy                   | of the Storm   | water Management                             | Computations (sig                     | gned and sealed)  |
| ☐ One (1) copy                   | of the soils r | eport  |                                       |   |
| ☐ One (1) copy                   | of the Erosio  | n and Sediment Co                            | ntrol Design Com                      | putations   |

| Concept Plan - Minimum Plan Requirements                          |  |  |  |  |
|---|--|--|--|--|
| Concept SWM/E&S Title Sheet                                       | (C-ESD-1)                                |  |  |  |
| CONCEPT PLAN INFORMATION  |  |  |  |  |
| ☐ Vicinity Map (Site Location, North Arrow)                       |  |  |  |  |
| ADC Map Coordinates   |  |  |  |  |
| ☐ Tax Map Coordinates   |  |  |  |  |
| Chesapeake Bay Critical Area relationship                         |  |  |  |  |
| ☐ 100-yr Floodplain relationship                                  |  |  |  |  |
| Owner Information (Name, Address, Phone Number)                   |  |  |  |  |
| Developer Information (Name, Address, Phone Number)               |  |  |  |  |
| ☐ Engineer Information (Name, Address, Phone Number)              |  |  |  |  |
| Legend  |  |  |  |  |
| Call 811" Notification  |  |  |  |  |
| ☐ Site Analysis:  |  |  |  |  |
| ☐ Total Site Area   | Total Area to be Vegetatively Stabilized |  |  |  |
| ☐ Total Area to be Disturbed ☐                                    | Total Area to Become Impervious          |  |  |  |
| CONCEPT PLAN SIGNATURE/CERTIFICATION BLOCKS                       |  |  |  |  |
| ☐ CSCD and Concept signature blocks (each a min. size of 2" x 3") |  |  |  |  |
| ☐ Engineer Concept Design Certification                           |  |  |  |  |
| Owner/Developer Certification                                     |  |  |  |  |
| ☐ Professional Certification w/ license # and expiration date     |  |  |  |  |
| <u> </u>  |  |  |  |  |
| Concept SWM/E&S Plan Sheet(s) (C-ESD-2 thru C-ESD-?)              |  |  |  |  |
| CONCEPT EXISTING CONDITIONS DRAINAGE AREA MAP (1:50 sca           | ıle max., 1:100 scale min)               |  |  |  |
| ☐ Labeled Topographic Contours (2-5' contours)                    |  |  |  |  |
| Hydrologic Soil Group Delineation                                 |  |  |  |  |
| Label TC paths, providing length, slope and time of concentration |  |  |  |  |
| Slopes from 15% to 25% delineated                                 |  |  |  |  |
| ☐ Drainage area boundaries with label and acreage to match report |  |  |  |  |
| All proposed points of discharge labeled                          |  |  |  |  |
| Show all sediment control structures                              |  |  |  |  |

CONCEPT INTERMEDIATE CONDITIONS DRAINAGE AREA MAP (1:50 scale max., 1:100 scale min) (If applicable)

## □ Labeled Topographic Contours (2-5' contours) □ Hydrologic Soil Group Delineation □ Label TC paths, providing length, slope and time of concentration □ Slopes from 15% to 25% delineated □ Drainage area boundaries with label and acreage to match report □ All proposed points of discharge labeled

☐ Drainage area to sediment controls delineated in acres and properly labeled

|           | Show all sediment control structures   |  |  |  |
|-----------|--|--|--|--|
|           | Drainage area to sediment controls delineated in acres and prop  | perly labeled  |  |  |
| <u>co</u> | CONCEPT PROPOSED CONDITIONS DRAINAGE AREA MAP (1:50 scale max., 1:100 scale min)   |  |  |  |
|           | Labeled Topographic Contours (2-5' contours)   |  |  |  |
|           | Hydrologic Soil Group Delineation  |  |  |  |
|           | Label TC paths, providing length, slope and time of concentration  | on .   |  |  |
|           | Slopes from 15% to 25% delineated  |  |  |  |
|           | Drainage area boundaries with label and acreage to match repo  | rt   |  |  |
|           | All proposed points of discharge labeled   |  |  |  |
|           | Show all sediment control structures   |  |  |  |
|           | Drainage area to sediment controls delineated in acres and properly labeled  |  |  |  |
| PR        | OJECT CONCEPT PLAN VIEW (1:50 scale max., 1:100 scale  | min)_  |  |  |
|           | Proposed impervious areas (buildings, roads, parking lots, drive   | ways, etc.)  |  |  |
|           | Existing natural features:   |  |  |  |
|           | ☐ Wetlands   | ☐ Soil Boundaries                                    |  |  |
|           | ☐ Streams  | ☐ Floodplain   |  |  |
|           | ☐ Sensitive features   | ☐ Existing contours (2' to 5' contours)              |  |  |
|           | Proposed contours (2' to 5' contours)  |  |  |  |
|           | Existing and proposed drainage patterns  |  |  |  |
|           | All points of discharge from the development   |  |  |  |
|           | Limits of disturbance  |  |  |  |
|           | Location of proposed ESD practices   |  |  |  |
|           | Location of all structural practices   |  |  |  |
|           | Unified sizing criteria chart  |  |  |  |
|           | Soils delineated and labeled (2009 USDA soils)   |  |  |  |
|           | General description of predominant soil types w/ HEL determina   | ition  |  |  |
|           | Minimum of three (3) NAD 83m, x, y coordinates   |  |  |  |
|           | Forested areas to be protected   |  |  |  |
|           | Existing sewage areas and wells  |  |  |  |
|           | North arrow  |  |  |  |
| <u>co</u> | NCEPT STORMWATER MANAGEMENT COMPUTATION REC  | UIREMENTS  |  |  |
|           | A narrative that supports the site development design, describes<br>the minimum control requirements to the maximum extent practi<br>stormwater management measure(s). |  |  |  |
|           | Preliminary calculations to determine Stormwater Management Design (ESD) practices.  | requirements and the selection of Environmental Site |  |  |
|           | Preliminary calculations to determine Erosion and Sediment Cosite Design practices.  | ntrol requirements and the selection of Environmenta |  |  |
|           | Soils Report   |  |  |  |
|           | Preliminary Geotechnical Report (required on all sites with prede  | ominantly "c" or "d" soils.                          |  |  |

## Preliminary Plan - Minimum Plan Requirements Preliminary SWM/E&S Title Sheet (P-ESD-1) PRELIMINARY PLAN INFORMATION ☐ All information required on the Concept SWM/E&S Plan ☐ Estimated Cut & Fill Volume PRELIMINARY PLAN SIGNATURE/CERTIFICATION BLOCKS CSCD and Preliminary signature blocks (each a min. size of 2" x 3") ☐ Engineer Preliminary Design Certification Owner/Developer Certification Professional Certification w/ license # and expiration date Preliminary SWM/E&S Plan Sheet(s) (P-ESD-2 to P-ESD-?) PRELIMINARY EXISTING CONDITIONS DRAINAGE AREA MAP (1:50 scale max.) All information required on the Concept Existing Conditions Drainage Area Map plus the following: ☐ Labeled Topographic Contours at 1-2' intervals PRELIMINARY INTERMEDIATE CONDITIONS DRAINAGE AREA MAP (if applicable – 1:50 scale max.) All information required on the Concept Intermediate Conditions Drainage Area Map plus the following: ☐ Labeled Topographic Contours at 1-2' intervals PRELIMINARY PROPOSED CONDITIONS DRAINAGE AREA MAP (1:50 scale max.) All information required on the Concept Proposed Conditions Drainage Area Map plus the following: Labeled Topographic Contours at 1-2' intervals PROJECT PRELIMINARY PLAN VIEW (1:50 scale max.) All information shown on the approved Concept SWM/E&S plan Sequence of Construction explaining the Utility / Access Construction and the Single Lot Construction / Disturbances (w/ time estimates): ☐ Utility/Access Development Sequence of Single Lot Development Sequence of Construction Construction ☐ Proposed impervious area locations ☐ Existing contours at 1-2' intervals Proposed contours at 1-2' intervals $\Box$ Detailed location of all Environmental Site Design (ESD) practices Location of all test borings □ All required easements ☐ Proposed stormwater conveyance systems: ☐ Ditches Q10 and V10 at the outfall of all swales, ditches, and culverts ☐ Storm drain inlets and pipe Property lines and names of adjacent property owners 100-yr Floodplain delineated Chesapeake Bay Critical Areas delineated

| Ш  | Show proposed location of all water and sanitary sewer mains      |       |   |  |  |
|----|---|-------|---|--|--|
|    | Existing and proposed tree lines                                  |       |   |  |  |
|    | Proposed locations of all sediment controls                       |       |   |  |  |
|    | Stockpile locations delineated (15' max)                          |       |   |  |  |
|    | Construction Staging Area(s) Delineated                           |       |   |  |  |
|    | Topography to a defined outfall channel                           |       |   |  |  |
|    | Location of the proposed limits of disturbance:                   |       |   |  |  |
|    | Forested areas to be protected                                    |       | Infiltration areas to be protected          |  |  |
|    | Structural Practices (if proposed):                               |       |   |  |  |
|    | ☐ Existing and proposed contours (1'-2' intervals)                |       | Emergency spillway and outlet channel       |  |  |
|    | Location of all test borings(embankment,                          |       | Easements                                   |  |  |
|    | structure, center of facility)  Location of riser structure       |       | Fences and gate locations                   |  |  |
|    |   |       | Access ramp (max slope 5%)                  |  |  |
|    | U Outflow pipes, outlet protections, outfall channels             |       | Infiltration trench dimensions              |  |  |
|    | ☐ Downstream property owners, property lines                      |       | Sediment control structures (if applicable) |  |  |
|    | ☐ Low flow orifices/pipes   |       | Sediment control elevations (if applicable) |  |  |
|    | ☐ Embankment stationing   |       |   |  |  |
| PR | ELIMINARY SITE/LOT GRADING PLAN (1:50 scale max.)                 |       |   |  |  |
|    | Existing and proposed contours (1'-2' contours)                   |       |   |  |  |
|    | Spot grades at all high and low spots and elsewhere as necessar   | ry to | o demonstrate adequate fall                 |  |  |
|    | Drainage flow arrows  |       |   |  |  |
|    | Proposed building/house location(s)                               |       |   |  |  |
|    | Proposed finished floor elevation(s)                              |       |   |  |  |
|    | Spot grades at the corners of building(s) to demonstrate required | d pro | otective slopes.                            |  |  |
|    | Proposed driveways, parking lots, entrances, curbing, ramps, etc. | С.    |   |  |  |
|    | Driveway slopes labeled   |       |   |  |  |
|    | Utility locations (existing and proposed)                         |       |   |  |  |
|    | Proposed individual water and sanitary sewer services including   | clea  | anouts and curb stops                       |  |  |
| PR | ELIMINARY SWM / E&S PLAN NOTES AND DETAILS                        |       |   |  |  |
|    | Detailed sequence of construction for each nonstructural/structu  | ral b | mp  |  |  |
|    | Rain gardens and infiltration trench cross section:               |       |   |  |  |
|    | Existing and proposed contours                                    |       | Bypass structure                            |  |  |
|    | Soil or stone specifications                                      |       | Horizontal and vertical dimensions          |  |  |
|    | Filter fabric specifications                                      |       | Water surface elevations                    |  |  |
|    | ☐ Monitoring wells  |       |   |  |  |
|    | Water Quality Swales:   | _     |   |  |  |
|    | Typical cross section   |       | Longitudinal slope                          |  |  |
|    | ☐ Bottom width  |       | Underdrain detail (if applicable)           |  |  |
|    | ☐ Side slopes   |       | Ground cover specifications                 |  |  |

| Pon                          | nds and Underground Retention Structures:                                |     |   |  |
|------------------------------|--|-----|---|--|
| ☐ Cross section of facility: |  |     |   |  |
|                              | ☐ Existing and proposed grade  |     | ☐ Trash rack  |  |
|                              | ☐ Structural/material specifications                                     |     | ☐ Discharge pipe inverts, size, material, length                                |  |
|                              | ☐ Top of unsettled embankment  |     | and slope   |  |
|                              | ☐ Top of settled embankment  |     | ☐ Phreatic line   |  |
|                              | ☐ Cut off trench   |     | ☐ Anti-seep collars or sand diaphragm   |  |
|                              | ☐ Impervious core  |     | ☐ Pipe bedding  |  |
|                              | Riser structure elevations and dimensions                                |     | ☐ Emergency Spillway  |  |
|                              | ☐ Weir and orifice elevation   |     | ☐ Design storm elevations   |  |
|                              | ☐ Top of structure   |     |   |  |
|                              | Riser structure details and dimensions                                   |     |   |  |
|                              | Trash rack details   |     |   |  |
|                              | Emergency spillway profile:  |     |   |  |
|                              | Q100 & V100  |     | ☐ Existing and proposed grade   |  |
|                              | ☐ Cross section of spillway  |     | ☐ Bottom of pond  |  |
|                              | ☐ Slope  |     | ☐ Core trench   |  |
|                              | ☐ Top of dam elevation (settled and unsettled)                           |     | ☐ Stationing  |  |
|                              | ☐ Location of emergency spillway   |     | ☐ Barrel/weir location  |  |
|                              | Profile along centerline of dam/embankment:                              |     |   |  |
|                              | ☐ Existing and proposed grade  |     | ☐ Core trench location  |  |
|                              | ☐ Top of dam elevation (settled and unsettled)                           |     | ☐ Stationing  |  |
|                              | Location of emergency spillway   |     | ☐ Barrel/weir location  |  |
|                              | Sediment basin and trap criteria:  |     |   |  |
|                              | ☐ Inflow Protection  |     | ☐ Baffle elevations provided  |  |
|                              | Outflow Protection   |     | ☐ All information contained on sheet C-10-8*                                    |  |
|                              | ☐ Baffle Locations*  |     | ☐ Baffles designed of CDX plywood   |  |
|                              | ☐ Flowlines through the basin*   |     | 3/2" stone covering the dewatering device* *Information for sediment basin only |  |
| Bori                         | ing logs   |     |   |  |
| Unif                         | fied sizing criteria chart   |     |   |  |
| Stat                         | tement of determination of small pond approval                           |     |   |  |
| MD                           | 378 construction specifications  |     |   |  |
| Sto                          | rmwater management data table/basin summary chart                        |     |   |  |
| Mai                          | ntenance and Inspection Schedule and Procedures for each ty              | уре | of SWM Facility proposed  |  |
| Eros                         | sion and Sediment Control Notes and Details:                             |     |   |  |
|                              | Vegetative Stabilization Methods and Materials<br>Notes (A-J w/ fig 4&5) |     | Standard Sediment Control Notes (25 standard notes)                             |  |
|                              | Permanent and Temporary Seeding Summaries w/ 2 mixes for each            |     | Details and specifications for each sediment control measure utilized           |  |

|   | ELIMINART STORMWATER MANAGEMENT/EQS COMPUTAT  | IUN          | <u>u</u>  |  |
|---|---|--------------|---|--|
|   | Table of Contents   |              |   |  |
|   | A narrative that supports the site development design, describes the minimum control requirements to the maximum extent practic management measure(s). The narrative must incorporate a list reviewing agencies/departments and how each comment has be | cabl<br>of a | e and justifies any proposed structural stormwater II SWM/E&S comments received from all of the |  |
|   | Stormwater management volume computations to confirm the selection of the environmental site design and structural practices  |              |   |  |
|   | Geotechnical investigation including soils map, borings, site specific recommendations, and any additional information necessary to justify the proposed design   |              |   |  |
|   | Ground water recharge, water quality and channel protection vol   | ume          | calculations (if applicable)  |  |
|   | Basin Computation/Underground Facilities:   |              |   |  |
|   | Orifice and weir computations   |              | Height of embankment computations   |  |
|   | ☐ Stage/storage curve and table   |              | Anti-seep collar/sand diaphragm computations  |  |
|   | ☐ Elevation, discharge, and storage table   |              | Dam safety routing  |  |
|   | Routing for 1, 2, 10 and 100 year storms  |              | Notice of construction completion form  |  |
|   | Outlet protection computations  |              | MD-14 summary sheet for ponds and basins  |  |
|   | Stability and seepage computations for weir structure   |              | Unified sizing criteria chart   |  |
|   | Sediment Trap Computations  |              |   |  |
| <u>Fin</u>  | al Plan - Minimum Plan Requirements   |              |   |  |
|   | Final SWM/E&S Title She   | et (         | F-ESD-1)  |  |
| <u>FIN</u>  | AL PLAN INFORMATION   |              |   |  |
| All information required by the Preliminary SWM/E&S Plan      |   |              |   |  |
| FIN   | AL PLAN SIGNATURE/CERTIFICATION BLOCKS  |              |   |  |
| CSCD and Final signature blocks (each a min. size of 2" x 3") |   |              |   |  |
| Engineer Final Design Certification                           |   |              |   |  |
| Owner/Developer Certification                                 |   |              |   |  |
| ☐ Professional Certification w/ license # and expiration date |   |              |   |  |
| As-Built Certification  |   |              |   |  |
| Geotechnical Certification                                    |   |              |   |  |
| Final SWM/E&S Plan Sheet(s) (F-ESD-2 to F-ESD-?)              |   |              |   |  |
| FIN   | AL EXISTING CONDITIONS DRAINAGE AREA MAP (1:50 sca  | le n         | nax.)   |  |
| Ш   | All information shown on the Preliminary Existing Conditions Dra  | inaç         | ge Area Map   |  |
| FIN   | AL INTERMEDIATE CONDITIONS DRAINAGE AREA MAP (if a  |              |   |  |
| Ш   | All information shown on the Preliminary Intermediate Condition   |              |   |  |
| FIN   | AL PROPOSED CONDITIONS DRAINAGE AREA MAP (1:50 so   |              |   |  |
| <b>□</b>  | All information shown on the Preliminary Proposed Conditions D  | rain         | age Area Map  |  |
| PR  | OJECT FINAL PLAN VIEW (1:50 scale max.)   |              |   |  |
| ш   | All information shown on the approved Preliminary SWM/E&S plants  | an           |   |  |

| FINAL SITE/LOT GRADING PLAN (1:50 scale max.)                               |
|---|
| All information shown on the Preliminary Site/Lot Grading Plan              |
| FINAL LANDSCAPE PLAN (1:50 scale max.)                                      |
| Existing and proposed contours (1'-2' contours)                             |
| Planting plan/layout with plantings labeled to match the planting schedule  |
| ☐ Planting schedule   |
| ☐ Planting details  |
| ☐ Tree staking detail   |
| Label all appropriate water surface elevations                              |
| Mulching specifications   |
| ☐ Topsoil specifications  |
| Seeding specifications  |
| Fertilizer specifications   |
| ☐ Maintenance plan  |
| FINAL ADDITIONAL NOTES AND DETAILS  |
| All information shown on the Preliminary Additional Notes and Details       |
| FINAL STORMWATER MANAGEMENT/E&S COMPUTATIONS                                |
| All information from the Preliminary Stormwater Management/E&S Computations |